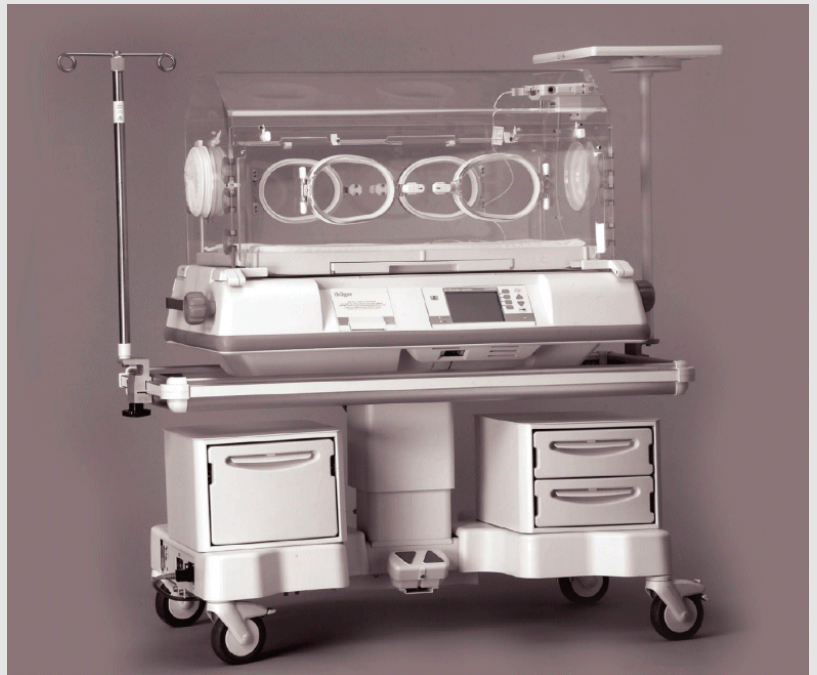


# Technical Documentation

## Isolette® C2000/C2000e Infant Incubator



### **WARNING!**

Each servicing and/or testing of the device requires full understanding of this Technical Documentation. Carefully read the Instructions for Use prior to any use of the device.

**Revision 1.1  
6016.036  
9036214**



## General

|          |                                |          |
|----------|--------------------------------|----------|
| <b>1</b> | <b>Symbols and Definitions</b> | <b>3</b> |
| <b>2</b> | <b>Notes</b>                   | <b>3</b> |

## Function Description

|          |                                                           |          |
|----------|-----------------------------------------------------------|----------|
| <b>1</b> | <b>Controller Assembly</b>                                | <b>7</b> |
| <b>2</b> | <b>Variable Height Adjustable Pedestal/Stand Assembly</b> | <b>8</b> |
| <b>3</b> | <b>Hood/Shell Assembly</b>                                | <b>9</b> |
| <b>4</b> | <b>Theory of Operation</b>                                | <b>9</b> |
| 4.1      | Electrical System .....                                   | 9        |
| 4.1.1    | Sensor Module .....                                       | 9        |
| 4.1.2    | Controller .....                                          | 13       |
| 4.1.3    | Impeller Movement Detector (IMD) P.C. Board .....         | 14       |
| 4.1.4    | Fan Motor .....                                           | 14       |
| 4.1.5    | Heater Power .....                                        | 14       |
| 4.1.6    | Humidity Heater Power .....                               | 15       |
| 4.2      | Air System .....                                          | 18       |
| 4.2.1    | Overall Functional Description .....                      | 18       |
| 4.2.2    | Air Mode .....                                            | 19       |
| 4.2.3    | Skin Mode .....                                           | 19       |
| 4.2.4    | Oxygen Control .....                                      | 20       |
| 4.2.5    | Humidity Control Valve .....                              | 20       |
| 4.3      | Hardware .....                                            | 20       |
| 4.3.1    | Weighing Mode .....                                       | 20       |
| 4.3.2    | Trend Displays .....                                      | 20       |
| 4.3.3    | Interface Connections .....                               | 21       |

## Contents

|       |                                   |    |
|-------|-----------------------------------|----|
| 4.3.4 | RS-232 Serial Port Protocol ..... | 21 |
|-------|-----------------------------------|----|

## Maintenance Procedures

|          |                                                              |           |
|----------|--------------------------------------------------------------|-----------|
| <b>1</b> | <b>Air filter</b>                                            | <b>27</b> |
| 1.1      | Safety precautions .....                                     | 27        |
| 1.2      | Replacing the air filter .....                               | 28        |
| <b>1</b> | <b>Oxygen sensors</b>                                        | <b>31</b> |
| 1.1      | Notes/Safety instructions .....                              | 31        |
| 1.2      | Replacing the oxygen sensors .....                           | 32        |
| 1.2.1    | Service Equipment Required .....                             | 32        |
| 1.2.2    | Procedure .....                                              | 32        |
| 1.3      | Calibrating the oxygen sensors .....                         | 40        |
| 1.3.1    | Safety instructions for calibrating the oxygen sensors ..... | 40        |
| 1.3.2    | General .....                                                | 40        |
| 1.3.3    | 21 vol.%O2 calibration .....                                 | 41        |
| 1.3.4    | 100 vol.%O2 calibration .....                                | 43        |

## Block diagrams

|          |                                         |           |
|----------|-----------------------------------------|-----------|
| <b>1</b> | <b>Shell Assembly Cable Routing (1)</b> | <b>49</b> |
| <b>2</b> | <b>Scale Assembly Cable Routing (2)</b> | <b>50</b> |

## Annex

### Parts catalog

### Test List

# General



## 1 Symbols and Definitions

### WARNING

A **WARNING** statement provides important information about a potentially hazardous situation which, if not avoided, could result in death or serious injury.

### CAUTION

A **CAUTION** statement provides important information about a potentially hazardous situation which, if not avoided, may result in minor or moderate injury to the user or patient or in damage to the equipment or other property.

### NOTE

A **NOTE** provides additional information intended to avoid inconvenience during operation or servicing of the equipment.

Definitions according to German standard DIN 31051:

|             |                                            |
|-------------|--------------------------------------------|
| Inspection  | = examination of actual condition          |
| Maintenance | = measures to maintain specified condition |
| Repair      | = measures to restore specified condition  |
| Servicing   | = inspection, maintenance, and repair      |

## 2 Notes

This Technical Documentation conforms to the IEC 60601-1 standard.

Read each step in every procedure thoroughly before beginning any test. Always use the proper tools and specified test equipment. If you deviate from the instructions and/or recommendations in this Technical Documentation, the equipment may operate improperly or unsafely, or the equipment could be damaged.

Dräger recommends that only Dräger provided parts be used for maintenance. Otherwise the correct functioning of the device may be compromised.

The maintenance procedures described in this Technical Documentation may be performed by trained service personnel only. These maintenance procedures do not replace inspections and servicing by the manufacturer.

This Technical Documentation is for the purpose of information only. Product descriptions found in this Technical Documentation are in no way a substitute for reading and studying the Instructions for Use.

### NOTE

Unless otherwise stated, reference is made to laws, regulations or standards (as amended) applicable in the Federal Republic of Germany for equipment used or serviced in Germany. Users or technicians in all other countries must verify compliance with local laws or applicable international standards.



# Function Description



## 1 Controller Assembly

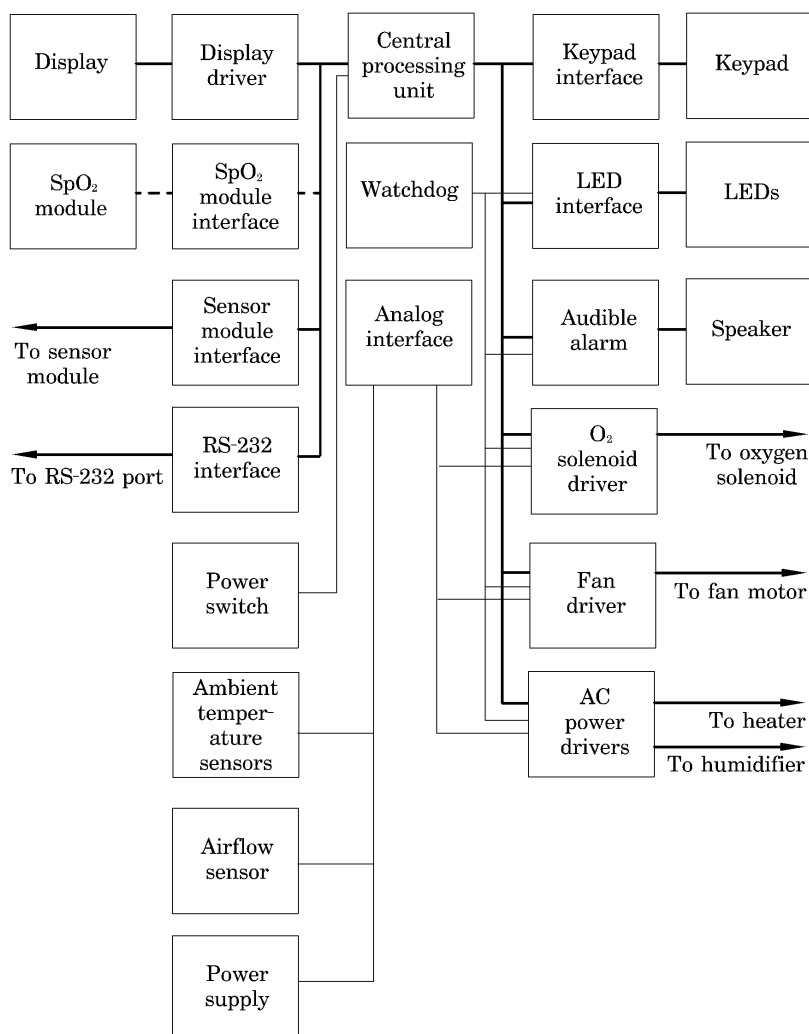


**Figure 1** Controller Assembly Block Diagram

## 2 Variable Height Adjustable Pedestal/Stand Assembly

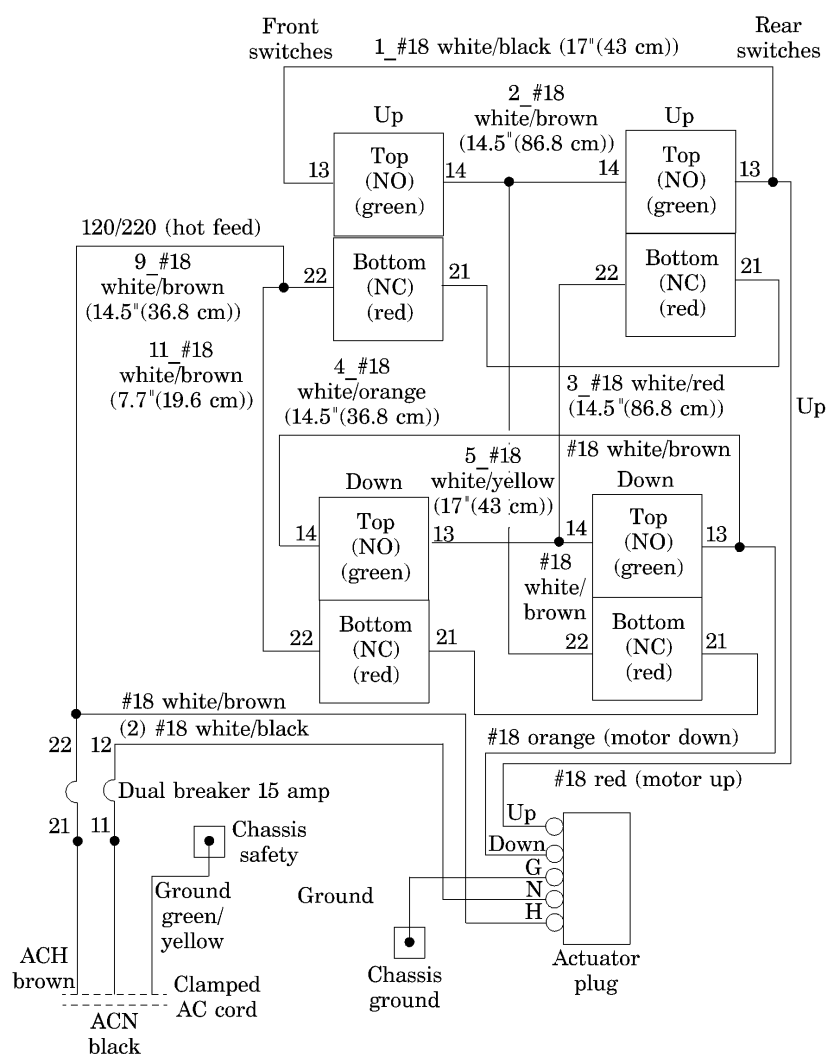


**Figure 2** Variable Height Adjustable Pedestal/Stand Assembly Wiring Diagram

### 3 Hood/Shell Assembly

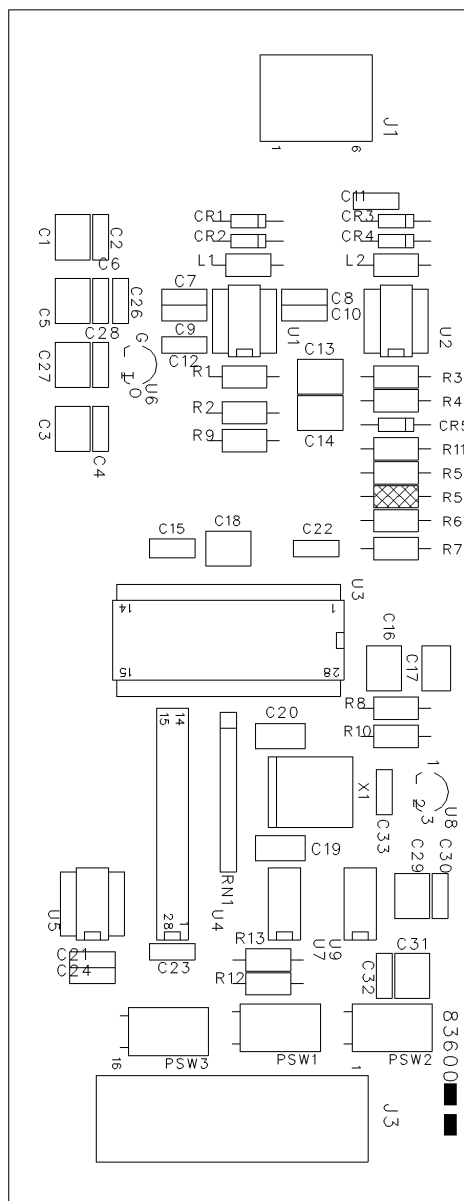


**Figure 3** Scale P.C. Board Layout

## 4 Theory of Operation

### 4.1 Electrical System

#### 4.1.1 Sensor Module

The sensor module P.C. board provides the interface for the patient and incubator requirements that the infant incubator must support. The sensor module assembly reads and processes the following parameters:

- Temperature
- Oxygen
- Humidity
- Weight information, collected from external sensors and cables

This information is periodically updated and transmitted to the main controller upon request.

The sensor module P.C. board does **not** require manual calibration. To provide safe monitoring and control, both the temperature information and oxygen information have redundant circuitry to prevent single-fault failures.

All signals are transmitted through serial data communication.

The sensor module connects to a sensor P.C. board that has the following parameters required for the system:

- Air temperature
- Oxygen
- Humidity
- Fan operation

### Power Supply

The power to the sensor module P.C. board is provided through connector J4, providing  $\pm 12$  V AC for the system. U21, U19, and U15 regulate the voltages by providing +5 V, digital +5 V and analog -5 V, respectively. U20 provides a precision +5 V source for analog signal conversions.

### Sensor Position Detection

Hall effect sensors sense the magnets in the slide mechanism. The sensors, U9 and U2, determine the calibration position. The sensors, U16 and U22, determine the hood's position during normal operation. The output is normally **high**. These devices provide a **low** output if a significant south pole magnetic field is applied to their surface.

### Remote Light Alarm Indicator

DS1 provides an alarm indication with a high field of view. A positive signal, RMLITE, at the gate of transistor Q3 illuminates DS1.

### Scale Interface

The connector J3 provides the interface and power for the scale module. The scale module supports serial data communication. The signal SCCLK is used for scale communication only and is normally high when the scale is disconnected. The signal CDATE is bi-directional and is normally in the low state when the scale is not connected.

### Fan Control/Feedback Circuit

To drive the DC fan on the sensor board, the signal FANON pulses Q1 on its gate at a 50% duty cycle at approximately 48 Hz to maintain proper speed and to increase fan life. Every 4 seconds, the microcontroller asserts FANON for 42 milliseconds, and the fan pulse detection begins.

U1A handles the pulse detection and, through the resistors R3 and R7, samples the current spikes from the fan produced across R1. The amplifier operates as a differentiator, providing high gain for the current spikes. D1 and C16

then rectify and filter this signal and then feed it to the Analog/Digital (A/D) converter as signal FANPUL. This provides a semi-DC level as a function of the fan rotation.

### Temperature Measurement

The temperature data acquisition circuit starts with the analog multiplexers, U6 and U5, each allowing an 8-to-1 signal switching. The microcontroller selects the multiplexer channel by the signals MSEL0, MSEL1, and MSEL2. Each multiplexer output can be inhibited by either signal TM1SEL or TM2SEL, depending on the multiplexer; only one multiplexer is active at a time. With each multiplexer output into the amplification under control, this data acquisition is viewed as a 16-to-1 analog temperature selector. The microcontroller selects a new temperature channel every 21 milliseconds.

The resistor R14 provides the constant voltage drive required for each thermistor as it is selected from the appropriate multiplexer. This voltage is amplified by a factor of 2.1083, and is sent to the A/D converter as signal TCOM.

To provide automatic calibration of the circuit and eliminate temperature and aging drifts, R44 and R45 introduce precise calibration values into each multiplexer. These values are read through the multiplexers and are used in software processing to eliminate the gain and offset errors of each multiplexer/amplifier combination. These values equate to 120.87 °F (49.37 °C) and 72.72 °F (22.62 °C), which allow for precise circuit calibration.

Resistor R43 is an additional check to the circuit, which provides a resistance simulating 98.57 °F (36.98 °C).

The sensor module supports the following three air temperature sensors on the sensor board:

- AIRTE
- AIRTC
- AIRTM

These signals interface through J2-6 to J2-8. The thermistors then route to temperature multiplexers U5 and U6, which provide analog signal processing into the A/D converter.

The skin temperature probes contain dual thermistors. The sensor module supports two probes that plug into connectors J6 and J7. The two thermistors connect to SKNT1M and SKNT1C or SKNT2M and SKNT2C, with a common connector at AGND. Both probes have high frequency filtering by inductor networks LN1 and LN2. In addition, each skin probe has a resistor that is input to the multiplexers. The microcontroller uses these signals, SKNT1D and SKNT2D, to determine if the probes are installed.

### Humidity Measurement

Humidity measurement originates with the humidity sensor on the sensor P.C. board, connected to J2-5 and J2-14 (AGND and HS2, respectively). The sensor is a capacitive-type that changes capacitance as a function of humidity; the net range of capacitances is from approximately 160 pF to 200 pF. The sensor connects to the amplifier U7A/U8A, which is set up as a multi-vibrator. The sensor capacitance charges up through R20 and R21 to a threshold voltage established by R30 and R26.

When the capacitor voltage reaches the threshold, the capacitor U7A/U8A goes high to 2.5 V as controlled by R19 and R28, and turns on Q2. This discharges the humidity sensor through R20 until it reaches the lower threshold established by R24, R26, and R30. The capacitor voltage goes from approximately 0.2 V to 0.7 V. At this point, the comparators output goes low, releasing the drive to Q2 and allowing the humidity to start charging again. This produces a frequency output as a function of capacitance, such as humidity.

The output signal, which is only 2.5 V peak, is then input into U7B/U8B to condition the 5 V signal. Hysteresis is provided through the use of R23, R29, and R32 to ensure stable frequency switching. The output signal, JUMPUL, is then sent to the microcontroller for processing. A typical frequency would be around 37 KHz.

### Microcontroller

The microcontroller is a Priority-Interrupt Controller (PIC) 16C73, used for signal-processing and for control of all signals on the sensor module. The device has three external ports, configurable as inputs and outputs. The microcontroller operates from a precise time-base of crystal Y1, operating at 4 MHz. The instruction cycle time of the PIC is  $\frac{1}{4}$  of that, namely at 1 MHz or 1 microsecond.

To ensure a clean power-up, U10 provides a fixed power-up reset to the microcontroller. This integrated circuit also generates a reset in the event of a brownout condition when the D+5 falls below a predetermined threshold.

If the main controller determines that the sensor module requires reset intervention, the reset line of the microcontroller, SMRES, is available to the main controller.

The PIC device operates with an internal watchdog timer device that asserts SMRES if the program execution operates outside normal conditions.

### Expansion Devices

The digital multiplexer, U3, allows additional digital signals for processor control. It is a dual, 4-to-1 multiplexer that allows the microcontroller to use two ports for 8-bits of information. The signals, DVSEL0 and DVSEL1, control U18.

The buffered line-drivers, U13A/B and U14A, are used for signals that are going off-board, namely SMDATA, SCDATA, and SCCLK. The SMDATA line is used as a bi-directional line that can change from input or output “on-the-fly” for data communication to the main controller. The SCDATA is similar, with connection to the scale at connector J3. SCCLK is the buffered clock line used for scale communications.

Buffer U14B provides an inversion for TM1SEL, producing TM2SEL to alternately enable and disable the temperature multiplexers.

### Analog/Digital (A/D) Conversions

The A/D converter, U11, is an eight-channel, 12-bit, serial, interface device. Control for the channels is software-configurable by the serial communication line SSPCLK, ADCDIN, and COMOUT. The signal, ACENI, enables the A/D converter for signal processing and is asserted twice every 21 milliseconds;

the A/D converter is read twice. In addition, the ADCIN and COMOUT are driven at 21 millisecond intervals. The SSPCLK is shared with the EEPROM on the sensor board and scale clock; therefore, the timing is not periodic.

All temperature information appears as a multiplexed signal on Channel 0, and oxygen information appears as a multiplexed signal on Channel 2. Channel 4 enables the A/D converter to read its maximum input, and Channel 5 enables the A/D converter to read its minimum input to determine proper A/D functioning.

The analog representation of fan pulses apply to Channel 6.

#### 4.1.2 Controller

The controller accepts input voltages between the range of 90 V AC and 264 V AC through a universal input switching power supply. Voltages above the safe operating range are clamped using a transorb diode.

The controller accepts input frequencies between the range of 48 Hz to 62 Hz through a universal input switching power supply.

The stand supplies the input power and protective ground to the controller and incorporates a 15 A circuit breaker and electromagnetic interference (EMI) filtering components.

The controller provides AC power to the heater and the humidifier. These outputs are fused in the controller to protect the controller in the event of a short circuit or electrical overload.

- Maximum heater voltage—264 V AC
- Maximum heater current—4.8 A
- Maximum humidifier voltage—264 V AC
- Maximum heater current—1.2 A
- Heater/humidifier fuse rating—6.3 A

The controller provides DC power to the following:

- The fan
- The sensor module
- The scale
- The SPO2 module, if available
- The airflow sensors
- The door switches

These outputs are current-limited in the controller to protect the controller and the powered device if a circuit shorts or electrically overloads. These outputs are regulated to ensure the output voltage is within the voltage specification for the powered device. The microprocessor feeds and monitors the outputs 1 and 2 into the A/D converter.

#### 4.1.3 Impeller Movement Detector (IMD) P.C. Board

The Impeller Movement Detector (IMD) P.C. board is positioned so that magnets pressed into the bottom of the impeller pass directly over a Hall effect sensor mounted to the IMD P.C. board. The IMD circuit monitors the Hall effect sensor's pulse train, produced by the magnets when the impeller rotates. The speed of the impeller is measured and compared with the pre-determined maximum and minimum acceptance limits. If the impeller's rotational speed is too fast or too slow, an impeller error signal generates. The IMD circuit also detects if one, two, or all three magnets are missing or if an old impeller without magnets is used. These errors produce the same error signal to the controller as for low or high impeller speeds.

The controller's +12 V supplies the power for the IMD circuit through a 301  $\Omega$  resistor. This resistor and the load of the IMD circuit form a voltage divider that sets the LONG signal voltage that remains constant. U1, a voltage regulator, supplies +5 V DC to the Hall effect sensor (U3) and the microcontroller (U2). As the magnets pass above the Hall effect sensor, its open-drain output, U3-2, goes low, detecting the magnets' field. When the magnets' field is removed, the oscillator is used as a reference. When an error condition is detected, U2-2, the microcontroller's output, drives low, which accomplishes the following:

- Turns off Q1.
- Releases a portion of the load on the short signal, allowing it to rise above the LONG signal voltage.

R2, the switch portion of the SHORT signal load, and R4, the unswitch position of the SHORT signal load, adjust to provide an approximate 1V swing between the error and non-error outputs. The capacitors, C1 and C2, filter the system's supply.

The IMD P.C. board supports in-circuit programming (ICP) of the microcontroller. Programming is done after the unprogrammed microcontroller is populated with all the other components by connecting a programmer to the pads labeled VPP, +5 V, CLK, DTA, and GND.

#### 4.1.4 Fan Motor

The controller sets the fan motor speed if the watchdog is not tripped. The microprocessor supplies a pulse-width modulation (PWM) signal to an optocoupler for isolation. The output connects to an integrator circuit that converts the PWM signal to an analog signal for the motor controller. The motor incorporates the Hall effect sensors for monitoring and control. One of the Hall effect sensor outputs is fed to the microprocessor for measuring the motor speed. If the watchdog timer trips, the fan motor speed is maintained at 1500 rpm  $\pm$  450 rpm.

The controller provides an alarm to indicate a failure of the fan to rotate. When this occurs, the heater and humidifier disable, and an audible alarm with a visual indication activates.

#### 4.1.5 Heater Power

The controller monitors the heater power. A current transformer is in series with the power to the heater and the humidifier. The output of the current transformer connects to the A/D converter.

The system enables control of the incubator's heater. The microprocessor controls a solid state relay that controls the power to the heater. The microprocessor and the watchdog circuit control the safety relay, K3. The release of the safety relay removes power from the heater regardless of the functionality of the heater triac.

#### 4.1.6 Humidity Heater Power

The controller monitors the humidity heater power. A current transformer is in series with the power to the heater and humidifier. The output of the current transformer connects to the A/D converter.

The system enables control of the humidity heater. The microprocessor controls a solid state relay that controls the power to the humidity heater. The microprocessor and the watchdog circuit control the safety relay, K3. The release of the safety relay removes power from the humidifier heater regardless of the functionality of the humidity heater triac.

#### Oxygen Control

The system enables control of the oxygen pneumatics. The microprocessor provides a PWM signal to the solenoid's metal oxide semiconductor field-effect transistor (MOSFET).

The voltage to the oxygen solenoid is monitored and fed into the A/D converter. This circuit monitors the 12 V power supply and thermal fuse.

#### Light-Emitting Diodes (LEDs)

The microprocessor drives each light-emitting diode (LED). The hardware watchdog timer circuit drives the alarm/system fail indicator. The power fail detection circuitry drives the **Power Fail** indicator.

#### Audio Alarms

The audible alarm circuit incorporates an oscillator circuit to generate the three alarm frequencies used:

- 600 Hz
- 1500 Hz
- 2500 Hz

The microprocessor, the watchdog circuit, and the power failure detection circuitry drive the audible alarm circuit.

The audio volume is capable of three discrete sound levels. An analog switch, incorporated in the audible alarm amplifier circuit, selects a 57 dB, 62 dB, or 65 dB output, as measured by International Electrotechnical Commission (IEC) 601-19-2:102.3. The microprocessor, the watchdog circuit, and the power failure detection circuit control the analog switch.

#### Power Fail

The controller provides an audio output for power fail conditions. The alarm oscillator is set for 600 Hz at 65 dB output, as measured by IEC 601-19-2:102.3. A timer circuit generates the cadence tone during power failures.

When a **Power Failure** alarm is activated, the following occurs:

- The **Power Fail** indicator on the front panel illuminates.
- An alarm sounds.

A high energy storage capacitor powers the power failure detection circuitry and supplies power to the audible alarm and indicator for a minimum of 10 minutes. This capacitor charges while the unit is operating. When power is

lost to the controller and the **Power** switch remains in the **On** position, the storage capacitor supplies power to the power failure circuitry. The power failure circuitry incorporates a timer circuit that periodically enables the audible alarm and **Power Fail** indicator at a cadence of 520 milliseconds off and 98 milliseconds on until one of the following occurs:

- The **Power** switch is turned off.
- The power is restored.
- The storage capacitor is depleted.

The **Power Failure** alarm silence is hardware-controlled. Pressing the **Alarm Silence** key during power failure silences the alarm for the duration of the power failure. The **Power Fail** indicator flashes until one of the following occurs:

- The storage capacitor is depleted.
- The **Power** switch is turned off.
- The power is restored.

The **System Failure** alarm is unaffected by the **Alarm Silence** key.

### Interfacing

An interface port enables an RS-232 serial communication link. The serial port is fully isolated from the remaining controller circuitry. The power to the serial port interface circuitry derives from an isolated winding on the power supply transformer. The RS-232 interface connector is a female DB-9, mounted on the rear of the controller. An RS-232 transceiver converts the RS-232 to logic voltage levels and vice versa. Optocouplers provide the isolation barrier and interface the RS-232 transceiver to the PC16550 UART. The UART interfaces the serial port to the microprocessor bus. All lines connected to the RS-232 connector are filtered to block EMI. The RS-232 transceiver incorporates electrostatic discharge (ESD) protection.

An interface enables communication between the controller module and the sensor module. The sensor module interface connector is a female DB-9, mounted on the rear of the controller and comprised of a bi-directional data line, a clock output line, and a reset output line. The data lines are fully isolated and optocoupled to the microprocessor. The controller provides isolated power to the sensor module.

### Door Switches

The controller connects to the two door switches that are wired in parallel. The controller performs the following:

- Provides no more than 5 milliamperes (mA) of current to the switches
- Provides less than 6 V of power to the switches
- Monitors the return current to determine if either door is open

The switches are open when the door is closed. The input is protected with transorb diodes and is filtered to block EMI and prevent ESD damage to the controller.

### Cooling Fan

The cooling fan provides a continuous flow of air through the controller to remove heat generated by the various components inside the controller enclosure. The cooling fan operates whenever power is applied to the controller. The cooling fan is equipped with a tachometer output signal that is supplied to the microprocessor.

### Ambient Temperature Sensors

The temperature sensors, located in the airflow of the cooling fan, are NTC thermistors. The output signals of the redundant sensors feed into the A/D converter.

### Watchdogs

The first watchdog timer is internal to the microprocessor. If the software does not update the watchdog timer within the required time frame, the internal watchdog resets the microprocessor and all peripherals connected to the external reset line.

The second watchdog timer circuit attaches to the microprocessor bus. The microprocessor continuously writes the following data to the watchdog timer:

- Data 55 hex (01010101 binary) to watchdog register #1.
- Data AA hex (10101010 binary) to watchdog register #2.

The watchdog timer trips in 1 second  $\pm 0.4$  second unless the above sequence is completed. Once the watchdog timer trips, the following occurs:

- The safety relay turns off, removing power from the heater and the humidifier.
- The fan control reverts to closed loop control, maintaining a constant fan speed regardless of the door's position.
- The oxygen solenoid control from the microprocessor is overridden, and the oxygen solenoid turns off so that no oxygen enters the hood.
- A constant alarm sounds for a minimum of 500 milliseconds.
- The system failure indicator illuminates.

The microprocessor resets the watchdog timer after a watchdog trip by sending the above data sequence.

### Factory Defaults

Factory defaults are stored in program memory, flash EEPROM. System parameters are configured and stored in the real time clock (RTC) module or serial EEPROM. The RTC memory and random access memory (RAM) are protected against corruption during power failures and are battery-backed for a period of time.

The program is stored in reprogrammable memory and may be reprogrammed through a cable connected to the serial port of a computer. The program memory is stored in a flash EEPROM. The RS-232 serial port operates at speeds of 115,200 baud to expedite the speed of the program download.

### Power Supply

The power supply is so designed that 1 second after disconnection of the plug, the voltage between the supply pins of the plug and between either supply pin and the enclosure does not exceed 60 V by using a bleeder resistor across the mains filter capacitor, if necessary.

## 4.2 Air System

### 4.2.1 Overall Functional Description

The controller displays the air temperature and the skin temperature on an electroluminescent display. Optional displays of the humidity and oxygen concentration levels within the hood environment and the infant's weight are available. In addition, Trend displays of 2, 4, 8, 12, and 24 hours of all parameters (except weight, which is presented in days) are user-selectable.

To indicate which mode of operation, Air Mode or Skin Mode, is in control, the set temperature of the controlling parameter remains on adjacent to the actual displayed temperature. In addition, the rotating wheel in the **Air** or **Skin** softkey designator rotates.

The forced air circulation system controls the temperature, humidity, and oxygen concentration (see [Figure 4](#)). The motor-driven impeller in the shell draws a controlled amount of approximately 7 liters per minute (lpm) of room air through the air intake filter.

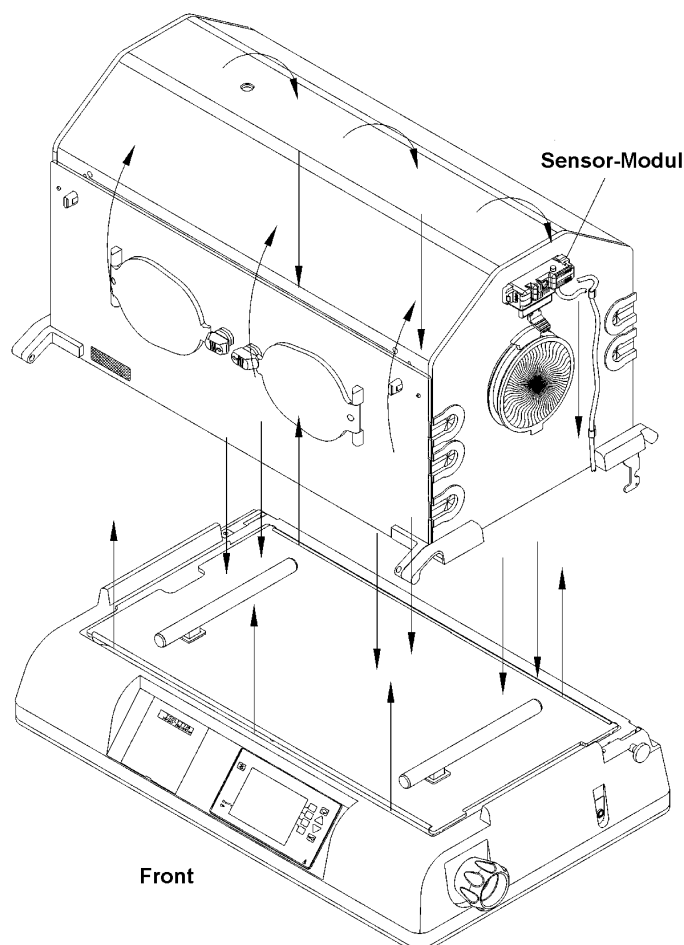


**Figure 4** Air/Oxygen Circulation System

The impeller also provides the internal circulation at a much greater flow than that of the fresh gas inflow. The total flow of fresh and circulated air is directed past the airflow sensor and around the heater. The air enters the infant compartment up through the slots at the front and rear of the main deck and then passes between the front and rear inner walls. The air circulates past the sensor module, which contains the temperature sensing probe that encapsulates the air temperature control thermistor and a high air temperature alarm thermistor. After circulating within the infant compartment, the air then re-circulates down through a slot in the right end of the main deck, and back to the impeller. When the access panel of the hood is open, the air continues to flow upward past the opening, Impeller ramps up to 2200 RPM to creating a warm air curtain to minimize the drop in air temperature in the incubator. The temperature is regulated using either the incubator's air or the infant's skin temperature as the controlling parameter; the desired mode is selected by the front panel keys.

In either mode of operation, the heater output is proportional to the amount of heat required to maintain the desired temperature.

#### 4.2.2 Air Mode

In Air Mode, the air temperature is maintained from 68 °F to 99 °F (20 °C to 37 °C) (99 °F to 102 °F (37 °C to 39 °C) in Temperature Override Mode), as selected by the **Air Set Temperature** Up and Down arrow keys on the front panel. A probe located in the sensor module monitors the incubator's air temperature and compares it with the air's set temperature setting. The probe supplies this information to the heater control circuitry, which regulates the heater output to maintain the air temperature setting. The actual air temperature appears on the **Air Temperature** display. A second sensor within the air temperature probe serves as a backup to limit the maximum incubator temperature. If the high temperature limit activates, the heater shuts off.

In Air Mode, the infant's temperature is a function of the air temperature and the infant's ability to establish and maintain its own temperature. A small infant, or one with underdeveloped homeostatic control, may not be able to maintain a stable temperature at the desired level.

In Air Mode, there is a 15-minute setpoint retention. When you first power the unit on, the air setpoint temperature is 95 °F (35 °C); for example, if you change the air setpoint temperature to 95.9 °F (35.5 °C), and a power failure occurs, the air set temperature comes up to 95.9 °F (35.5 °C) if the unit turns on again before 15 minutes elapse.

#### 4.2.3 Skin Mode

In Skin Mode, the infant's temperature is selected from 93 °F to 99 °F (34 °C to 37 °C) (99 °F to 100 °F (37 °C to 38 °C) in Temperature Override Mode) by the **Skin Set Temperature** Up and Down arrow keys on the front panel. A temperature sensing probe attaches directly to the infant's skin. The probe supplies information to the heater control circuitry, which proportions the heater output to maintain the skin set temperature.

The air temperature still appears in Skin Mode, but as information only. If Air Mode is selected while the skin probe remains connected, the **Skin Temperature** display continues to display actual skin temperature, but it does not control.

The sensor module accepts two skin probes. However, when the second skin probe connects to the sensor module in Skin Mode, an alarm sounds, and the message **Remove Skin 2 Probe** appears. To connect the second skin probe, first select Air Mode. The controller then displays the two temperatures.

If Skin Probe 1 disconnects from its receptacle during Skin Mode, the **Skin Temperature** display goes blank, an alarm sounds, and the heater turns off.

#### 4.2.4 Oxygen Control

An oxygen sensor assembly mounted inside the sensor module adjusts the flow of oxygen into the hood and controls the oxygen concentration level within the incubator's hood environment.

A valve regulates the flow into the incubator and periodically interrupts the flow of oxygen into the incubator.

The sensor module houses two independent oxygen fuel cells that monitor and control the oxygen concentration levels inside the incubator.

If the sensor module is outside of the hood environment during Oxygen Mode, audible and visual alarms are enabled, and the flow of oxygen is interrupted.

In Oxygen Mode, the user sets the oxygen level control point from 21% to 65%. The high and low alarm limits automatically set to  $\pm 3\%$  from the control point. If the oxygen concentration level rises above or falls below the selected setpoint limits, an audible and visual alarm occurs.

#### 4.2.5 Humidity Control Valve

The built-in humidifier provides humidification of the incubator from 30% to 95% RH in 1% increments. The humidifier reservoir permits visual inspection of the water level.

If the water level in the chamber is depleted, an audible and visual **Low Humidity** alarm occurs, indicating a need to replenish the water supply.

### 4.3 Hardware

#### 4.3.1 Weighing Mode

Two load cells in a platform under the mattress perform the actual weighing function. These cells provide a voltage that is proportional to the load on it. The controller processes the voltage and displays it in either kilograms or pounds/ounces on the **Weight** display.

The weighing routine is initiated by placing the infant on the mattress. If the infant is already on the mattress, lift the infant off the mattress; when the system zeros, return the infant to the mattress to obtain the weight.

The **Weigh** key enables repeated weighing of the infant after the weighing routine is initiated as described above.

#### 4.3.2 Trend Displays

Four standard parameters are presented on Trend displays:

- Air temperature
- Skin temperature #1
- Skin temperature #2
- Heater power

Additional Trend displays are available when the unit is equipped with any of the following options:

- Oxygen
- Weight

- Humidity

The Trend time is user-selectable in intervals of 2, 4, 8, 12, and 24 hours for all parameters, except for weight, which provides a trend of 7 days.

#### 4.3.3 Interface Connections

A serial interface port is provided as a data terminal device and an RS-232 output.

The following parameters are available:

- Air and skin setpoint temperatures
- Current air and skin temperatures
- Oxygen setpoint
- Oxygen level
- Humidity setpoint
- Humidity level
- Infant weight

#### 4.3.4 RS-232 Serial Port Protocol

The RS-232 serial port connector is next to the AC power connector on the front of the incubator. The serial port is configured for 2400 baud, 8 data, 1 stop, no parity, and is output only (see [Figure 5](#)).

RS-232 **Stecker**  
9-pin

- 1 NC
- 2 RXD
- 3 TXD
- 4 NC
- 5 GND
- 6 NC
- 7 NC
- 8 NC
- 9 NC

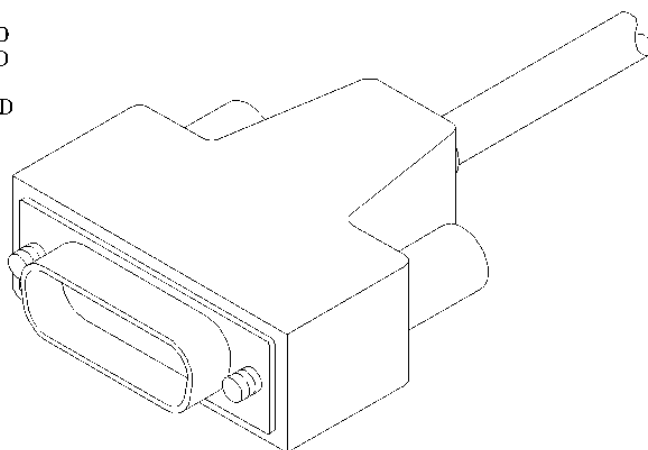


**Figure 5** RS-232 Connector Pin Outs

During normal operation, a data packet transmits every 5 seconds. Each data packet is entirely in American Standard Code Information Interchange (ASCII) and is readable when displayed on any standard RS-232 terminal device. A data packet consists of one 82-character line of text that is composed of a prefix, a data portion, a suffix, a checksum, and a carriage return/line feed (CR/LF) pair.

The prefix identifies the data line. It consists of an opening bracket and an ID character that are unique to the data line. The format of the data portion depends on the specific data line. Any character positions within the data por-

tion that are undefined transmit as spaces to enhance the readability of the output. The suffix property limits the data portion and consists of a closing bracket.

The checksum is two ASCII hexadecimal digits and represents an 8-bit acclamation of the ASCII characters from the prefix to the suffix, inclusive.

All monitored parameters, including temperature, oxygen, humidity, and weight, transmit at the 5-second interval. Asynchronous events, such as alarms or mode changes, transmit as they occur.

Example of the data string:

```
000000000111111111222222222233333333334444444444555555555566
6
```

```
1234567890123456789012345678901234567890123456789012345678901
23
```

```
[ ISOLETTE 000000000000 361A 385 387 360 220 050 76 75 21 21 1245
]8D
```

**Table 1 RS-232 Serial Port Protocol**

| Columns       | Description                                                                           |
|---------------|---------------------------------------------------------------------------------------|
| 1 and 2       | Prefix: 2 characters, '[' followed by the ID character (see <a href="#">Table 2</a> ) |
| 4 through 11  | Product ID: 8 characters                                                              |
| 13 and 14     | Mode bit flags: 2 hexadecimal digits (see <a href="#">Table 3</a> )                   |
| 15 through 24 | Alarm bit flags: 10 hexadecimal digits (see <a href="#">Table 4</a> )                 |
| 26 through 28 | Setpoint temperature: 3 digits, 1 decimal, Celsius                                    |
| 29            | Air/Skin Mode: 1 character "A or B"                                                   |
| 31 through 33 | Skin temperature 1: 3 digits, 1 decimal, Celsius                                      |
| 35 through 37 | Skin temperature 2: 3 digits, 1 decimal, Celsius                                      |
| 39 through 41 | Air temperature: 3 digits, 1 decimal, Celsius                                         |
| 43 through 45 | Ambient temperature: 3 digits, 1 decimal, Celsius                                     |
| 47 through 49 | Heater power: 3 digits, range 0 to 250                                                |
| 51 and 52     | Humidity: 2 digits, 0 decimal                                                         |
| 54 and 55     | Setpoint humidity: 2 digits                                                           |
| 57 and 58     | Oxygen: 2 digits, 0 decimal                                                           |
| 60 and 61     | Setpoint oxygen: 2 digits                                                             |
| 63 through 66 | Weight: 4 digits, 3 decimals, kilograms                                               |
| 78            | Suffix: 1 character, '['                                                              |
| 79 and 80     | Checksum: 2 hexadecimal digits                                                        |
| 81 and 81     | CR/LF: 2 control characters                                                           |

**Table 2 ID Characte**

| Character | Description                                          |
|-----------|------------------------------------------------------|
| <space>   | Normal mode                                          |
| 1         | Special/Test Mode is in effect (data may be invalid) |

**Table 3 Mode Bit Flags**

| Bit | Description             |
|-----|-------------------------|
| 01  | Humidity on             |
| 02  | Oxygen on               |
| 04  | Baby Mode configuration |
| 08  | 0.5 °C baby alarm limit |
| 10  | Reserved                |
| 20  | Reserved                |
| 40  | Reserved                |
| 80  | Reserved                |

**For example:** If “Humidity on” and “Baby Mode configuration” are selected, the character is **05**.

**Table 4 Alarm Bit Flags**

| Bit        | Description                 |
|------------|-----------------------------|
| 0000000001 | Low control temperature     |
| 0000000002 | High control temperature    |
| 0000000004 | Low oxygen                  |
| 0000000008 | High oxygen                 |
| 0000000010 | High temperature cut-out    |
| 0000000020 | Skin 1—probe failure        |
| 0000000040 | Skin probe—disconnect       |
| 0000000080 | Oxygen calibration required |
| 0000000100 | Sensor out of position      |
| 0000000200 | Water level low             |
| 0000000400 | Procedural Silence          |
| 0000000800 | Motor failed                |
| 0000001000 | Low air flow                |
| 0000002000 | Heater failed               |
| 0000004000 | EEPROM failed               |
| 0000008000 | Sensor module failure       |
| 0000010000 | Controller failure 1        |

| Bit        | Description           |
|------------|-----------------------|
| 0000020000 | Controller failure 2  |
| 0000040000 | Controller failure 3  |
| 0000080000 | Controller failure 4  |
| 0000100000 | Air probe failed      |
| 0000200000 | Oxygen cell different |
| 0000400000 | Scale disconnect      |
| 0000800000 | Too much weight       |
| 0001000000 | Scale failed          |

**For example:** If the air temperature and oxygen are low and Procedural Silence is initiated, such as when an access door is open, the 10 character value equals **000000405**.

Certain fields, such as air temperature, have an implied decimal point. The decimal point does not physically appear in the data stream.

# **Maintenance Procedures**



## 1 Air filter

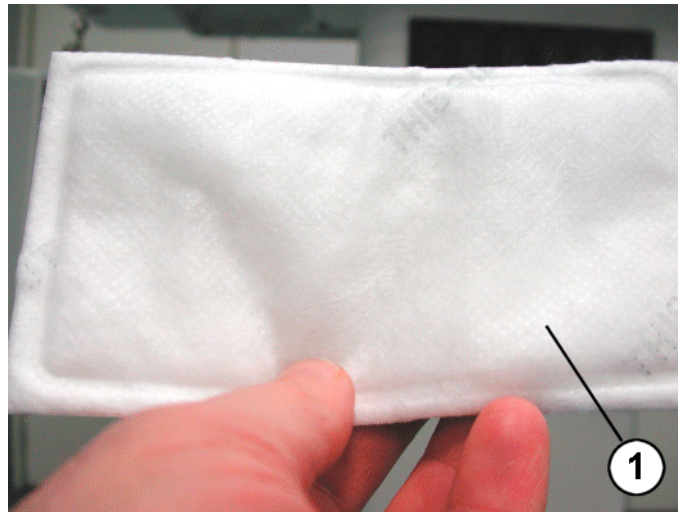


**Figure 1** Air filter with imprint

### 1.1 Safety precautions

#### **CAUTION**

If the air filter (Figure 1/1) is dirty, do not clean it, but replace it with a new one.

#### **CAUTION**

A dirty air filter (Figure 1/1) may impair the performance of the machine or lead to the formation of carbon dioxide (CO<sub>2</sub>). The air filter must be serviced on a regular basis, in accordance with local regulations. It may be necessary to change the filter frequently, especially if the machine is used in an environment subject to unusually high dust levels. Failure to comply with this instruction may result in injury to the infant or damage to the machine!

#### **NOTE**

If the imprint on the air filter (Figure 1/1) is no longer legible, or the air filter is dirty or damaged, replace the air filter.

## 1.2 Replacing the air filter

1. Check that there is no patient inside the Isolette.
2. If there is no patient inside the Isolette® C2000/C2000e, switch it off.
3. Slacken the screws (Figure 2/1) on the underside (rear) of the Isolette® as far as possible.

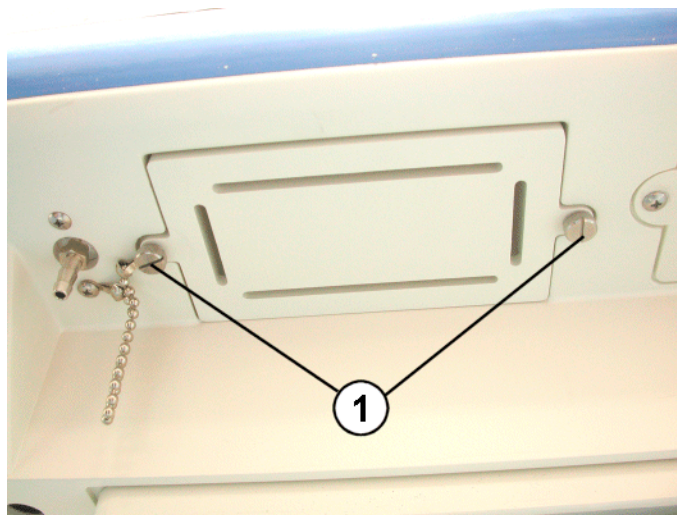


**Figure 2** Underside (rear) of Isolette® C2000/C2000e; screws

### NOTE

Used air filters can be disposed of as normal waste.

4. Take the used air filter (Figure 3/1) out of the mounting and dispose of it in the normal waste.



**Figure 3** Mounting with air filter

5. Insert the **new** air filter in the mounting so that the imprint reading "This side out" points downwards; see Figure 3. Note: When the air filter is fitted in the correct position the imprint is not legible!

6. Fix the mounting to the Isolette by the screws ([Figure 4/1](#)).

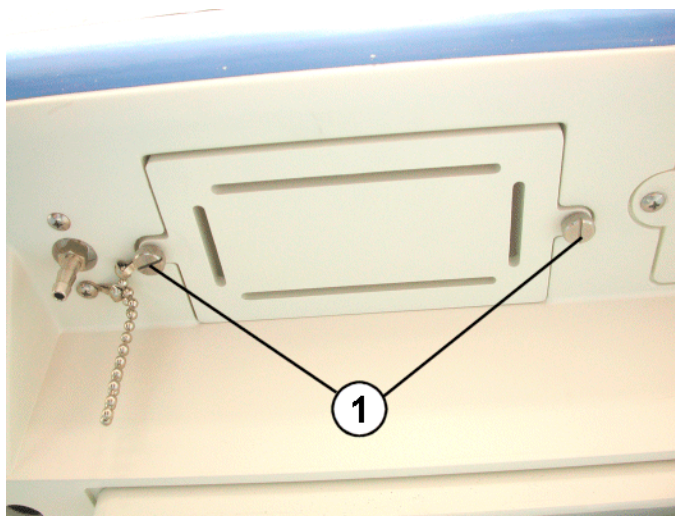


**Figure 4** Underside (rear) of Isolette® C2000/C2000e; screws



## 1 Oxygen sensors

### 1.1 Notes/Safety instructions

**CAUTION**

Preventive maintenance or repairs to the C2000 and C2000e models of the Isolette® infant incubator may only be carried out by properly, trained personnel. If preventive maintenance is carried out by untrained personnel it may result in personal injury or damage to property.

**CAUTION**

The oxygen sensor is a sealed unit which uses potassium hydroxide as an electrolyte. If a leak occurs in the sensor it must be disposed of immediately. If electrolyte comes into contact with skin or clothing, the affected area must be rinsed with copious amounts of water. If electrolyte gets into the eyes, rinse them immediately for at least 15 minutes, keeping the eyes open as you do so. Also consult a doctor. Failure to comply with this instruction may result in personal injury or damage to the machine.

**CAUTION**

Only oxygen cells recommended by Dräger Medical have been tested with the device and therefore we recommend only these cells be used otherwise the correct functioning of the device may be compromised.

**CAUTION**

Check the gas/oxygen service components at regular intervals for signs of corrosion or damage. Failure to comply with this instruction may result in personal injury or damage to the machine.

**CAUTION**

Check the oxygen cells regularly for loss of quality or leaks, and replace them as necessary. Failure to comply with this instruction may result in personal injury or damage to the machine.

**NOTE**

In order to obtain a precise oxygen measurement, an oxygen calibration should be carried out at least once a day!

## 1.2 Replacing the oxygen sensors

### 1.2.1 Service Equipment Required

- Crosshead screwdriver

### 1.2.2 Procedure

1. Check that there is no patient inside the machine.
2. If there is no patient inside the Isolette® C2000/C2000e, switch it off.
3. Unplug the connector (Figure 1/1) of the sensor module from the jack.

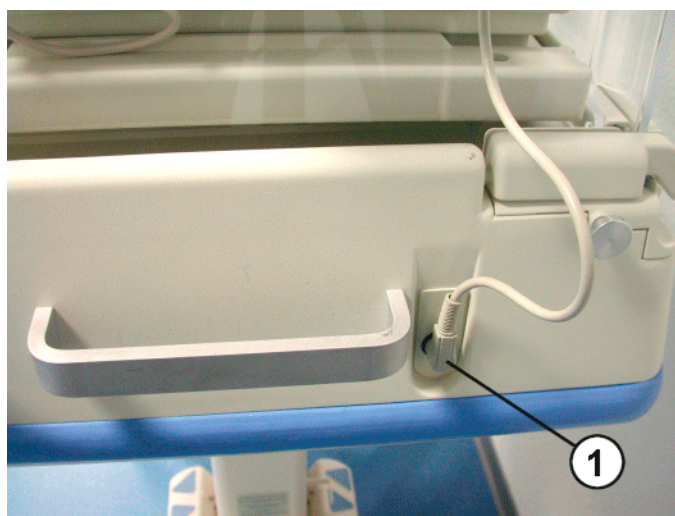


**Figure 1** Right side view of Isolette® C2000/C2000e; sensor module connector

4. Remove the sensor module cable from the cable guides (Figure 2/1).

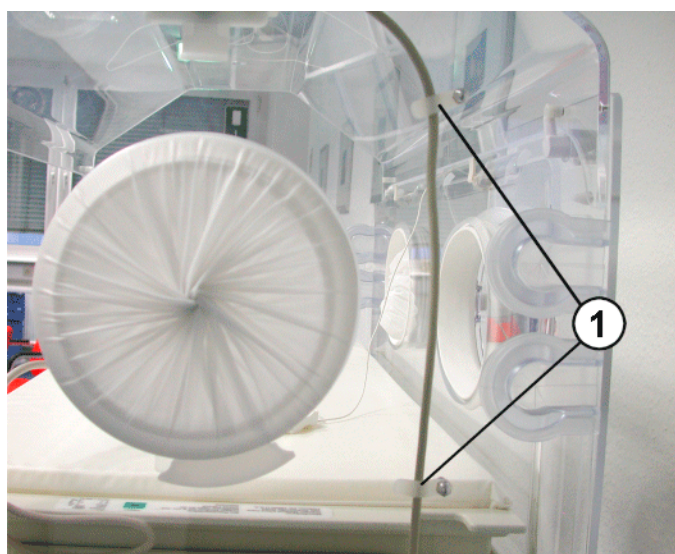


**Figure 2** Side view of Isolette® C2000/C2000e; cable guides

5. Turn the locking buttons (Figure 3/1) to the “OPEN” position.

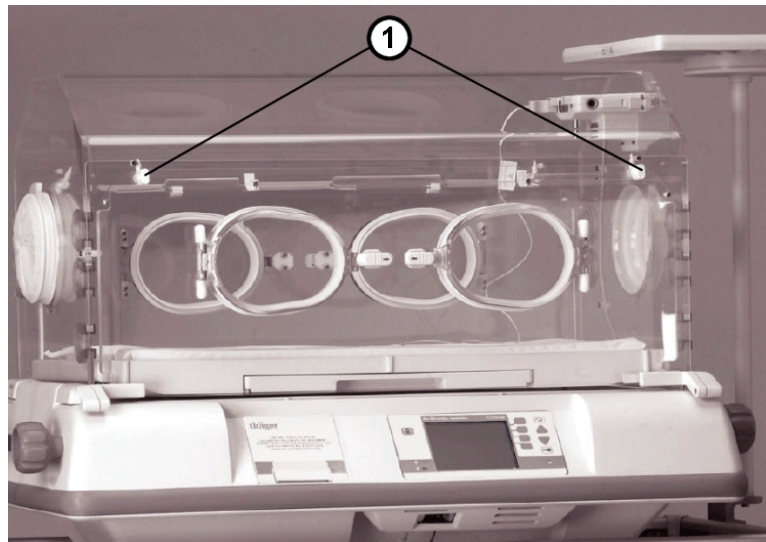


**Figure 3** Isolette® C2000/C2000e; locking buttons

6. Open the front door and lower it.
7. Unplug the connector (Figure 4/1) of the main thermometer (option) from the sensor module.
8. Unplug the connector (Figure 4/2) of the weighing scale (option) from the sensor module.

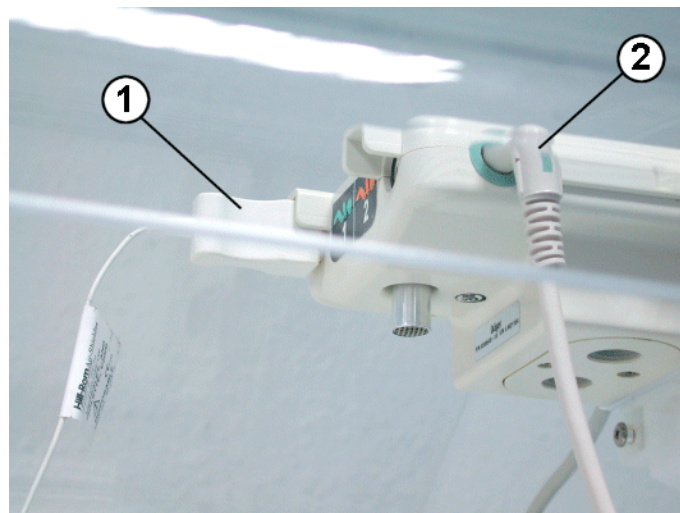


**Figure 4** Sensor module; connector (main thermometer and weighing scale)

9. Withdraw the sensor module all the way out of the covering.

10. Hold the two locking tabs (Figure 5/1) of the sensor module apart and at the same time withdraw the sensor module all the way out of the covering.

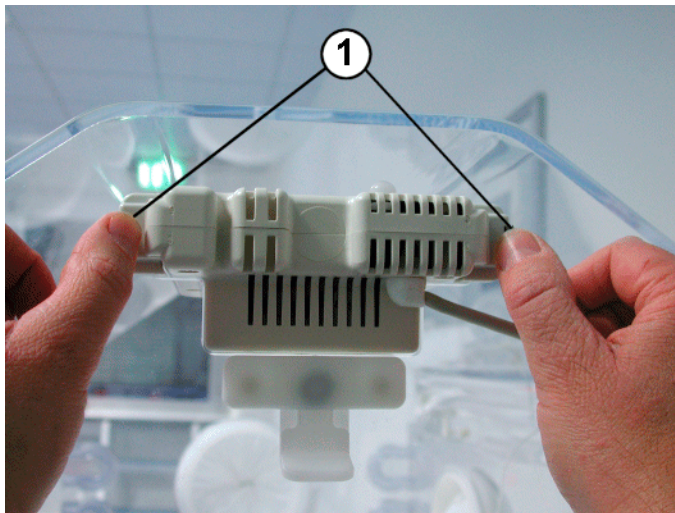


**Figure 5** Rear view of sensor module; locking tabs

11. Remove the screws (Figure 6/1).

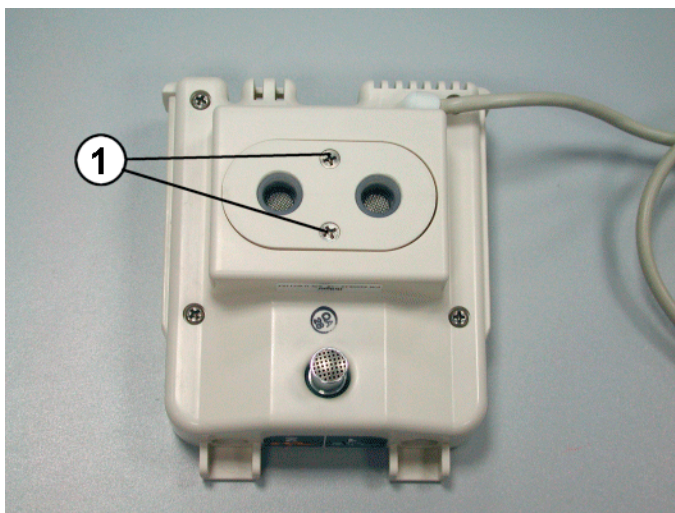


**Figure 6** Sensor module; screws

12. Carefully detach the backing plate (Figure 7/1) (Note: There are wires connecting the backing plate to the sensor module!).

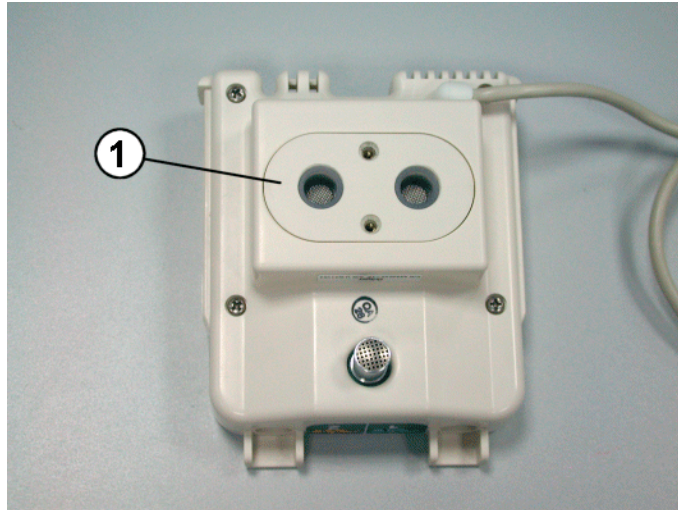


**Figure 7** Sensor module; backing plate

13. Unplug the jacks (Figure 8/1) from the connectors of the oxygen sensors.

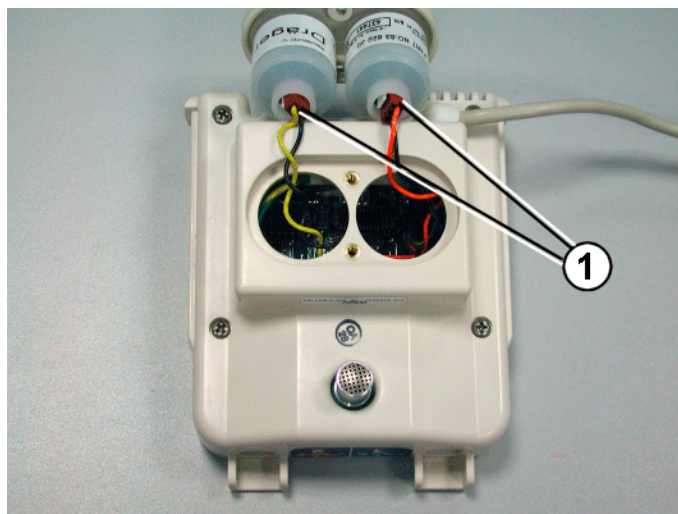


**Figure 8** Sensor module; jacks

14. Unscrew the oxygen sensors (Figure 9/1) anti-clockwise out of the backing plate (Figure 9/2).

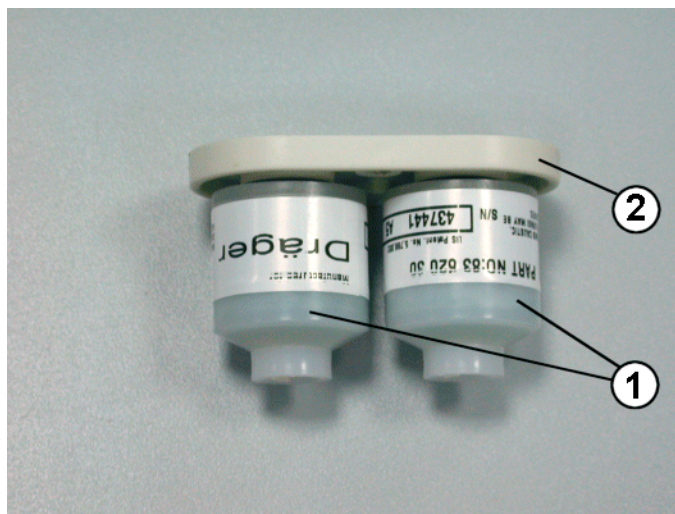


**Figure 9** Backing plate with oxygen sensors

**NOTE**

Used oxygen sensors are special waste. Used oxygen sensors must be disposed of in accordance with local waste disposal regulations.

15. Dispose of used oxygen sensors in accordance with local waste disposal regulations.
16. Screw **new** oxygen sensors (Figure 9/1) clockwise into the backing plate (Figure 9/2) until a resistance is noticeable (Note: The sealing rings of the oxygen sensors press against the backing plate!).

**NOTE**

The jacks on the ends of the oxygen sensor cables are not coded, and can be attached to any of the oxygen sensors when reconnecting!

17. Fit the jacks (Figure 10/1) firmly onto the connectors of the **new** oxygen sensors.

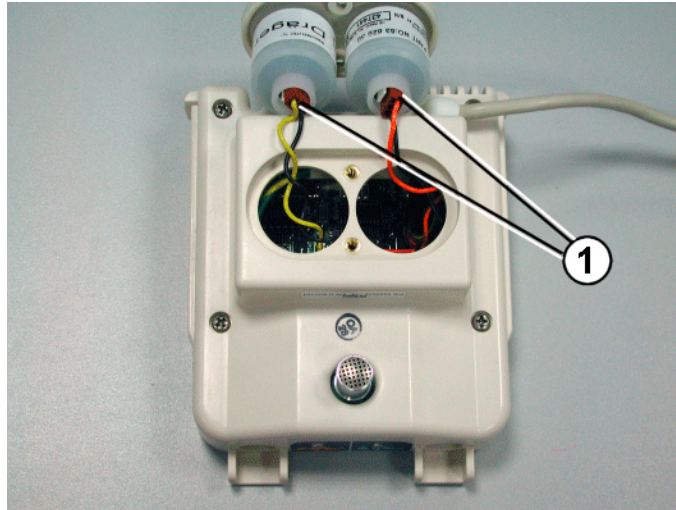


**Figure 10** Sensor module; jacks

18. Insert the backing plate (Figure 11/1) with the oxygen sensors into the sensor module.

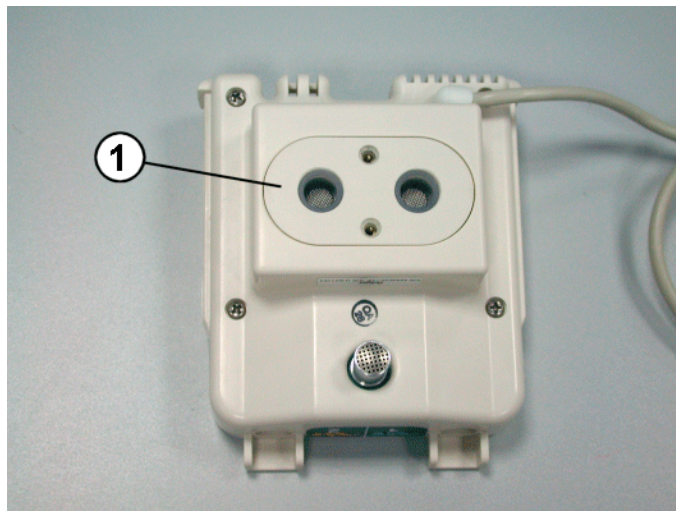


**Figure 11** Sensor module; backing plate

19. Fix the backing plate to the sensor module by the screws (Figure 12/1).

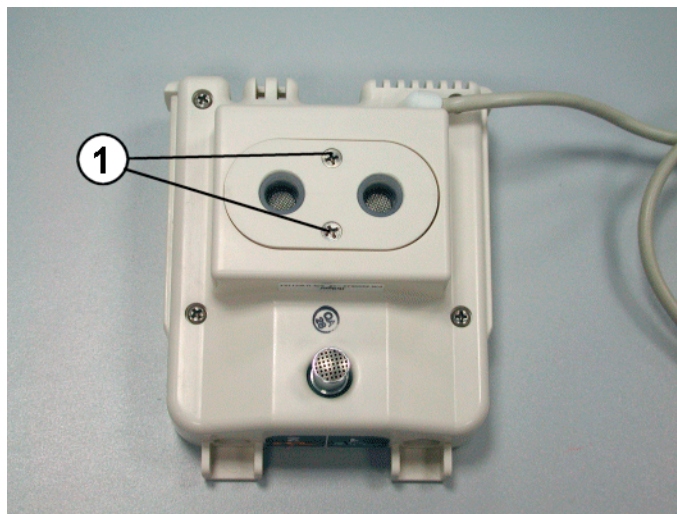


**Figure 12** Sensor module; screws

20. Insert the sensor module fully into the covering, ensuring correct positioning.
21. Plug the connector (Figure 13/1) of the main thermometer (option) into the sensor module jack.
22. Plug the connector (Figure 13/2) of the weighing scale (option) into the sensor module jack.

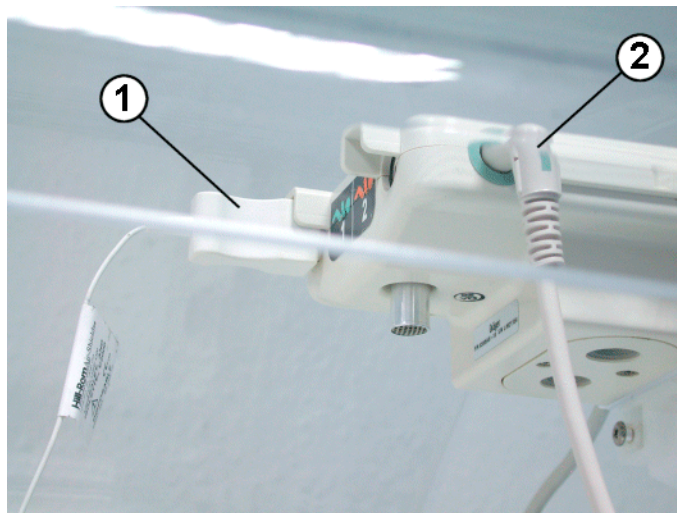


**Figure 13** Sensor module; connector (main thermometer and weighing scale)

23. Close the front door and turn the locking buttons (Figure 14/1) to the "CLOSED" position.

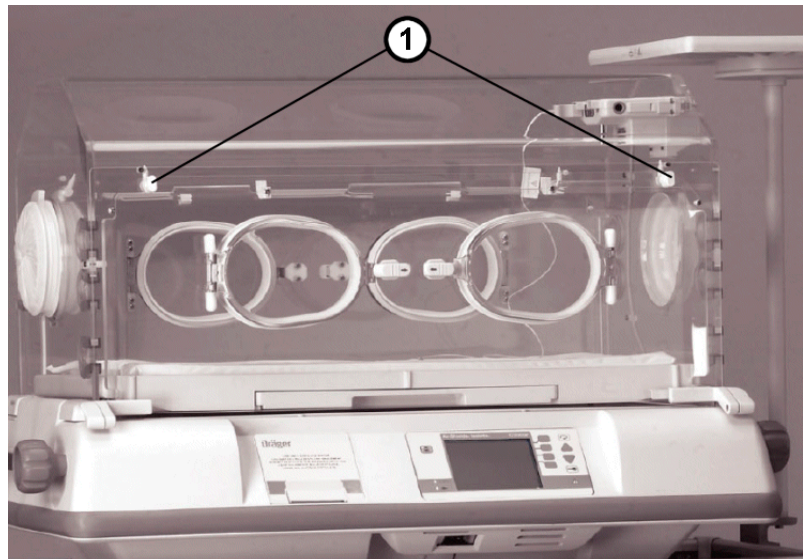


**Figure 14** Isolette® C2000/C2000e; locking buttons

24. Insert the sensor module cable into the cable guides (Figure 15/1).

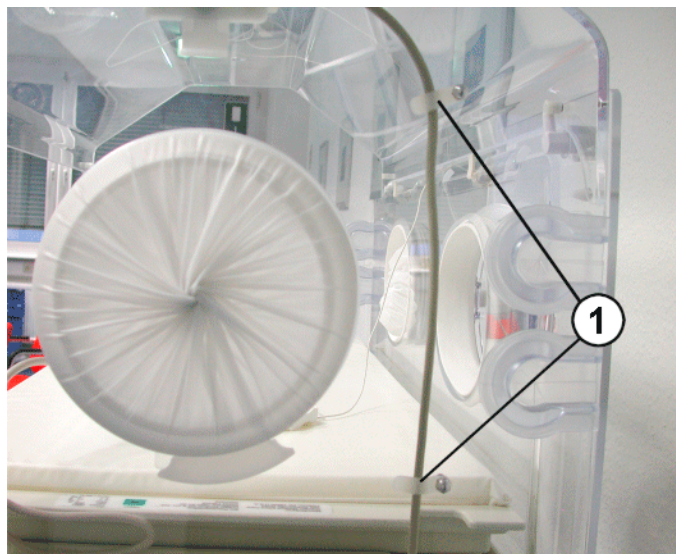


**Figure 15** Side view of Isolette® C2000/C2000e; cable guides

25. Plug the connector (Figure 16/1) of the sensor module into the jack.

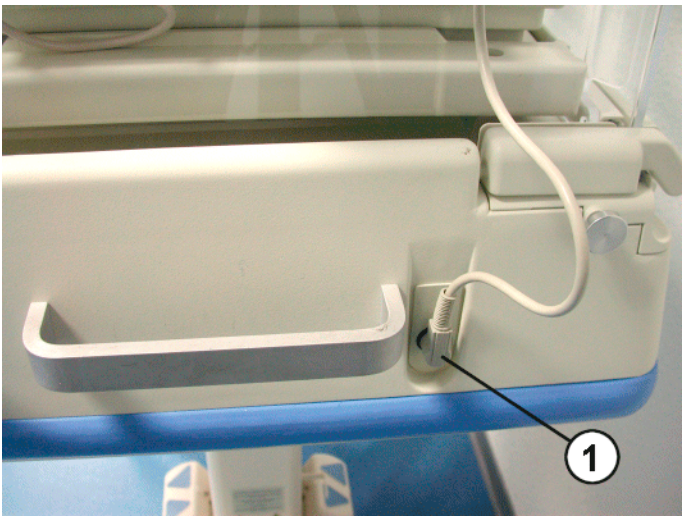


**Figure 16** Zoomed view of Isolette® C2000/C2000e; sensor module connector

26. Connect the Isolette® C2000/C2000e to the mains power supply.
27. Calibrate the oxygen sensors; see [1.3 Calibrating the oxygen sensors](#).

**1.3 Calibrating the oxygen sensors**

**1.3.1 Safety instructions for calibrating the oxygen sensors**

**CAUTION**  
Display of false oxygen measurements due to non-compliance with the calibration settings, with and without accessories, in oxygen sensor calibration. If the “100% oxygen calibration fitting” (Figure 18/1) is attached to the sensor module, in conjunction with a “21%” calibration setting, false measurements will result. If the 100% oxygen calibration fitting is attached to the sensor module, the calibration setting must be “100%”!

**1.3.2 General**

Checking the calibration setting and accessories

- After replacing oxygen sensors, however, be sure to calibrate the oxygen sensors at least once a day.
- In order to calibrate the oxygen sensors, the calibration setting for oxygen and for any accessories connected to the Isolette® C2000/C2000e must be checked as follows:
1. Connect the Isolette® C2000/C2000e to the mains power supply.
  2. Press and hold down the “alarm suppression” key and at the same time switch on the Isolette® C2000/C2000e.

The Isolette® C2000/C2000e starts up in configuration mode.

3. Check the oxygen calibration setting. Note: In [Figure 17](#) the calibration setting is “21%”.

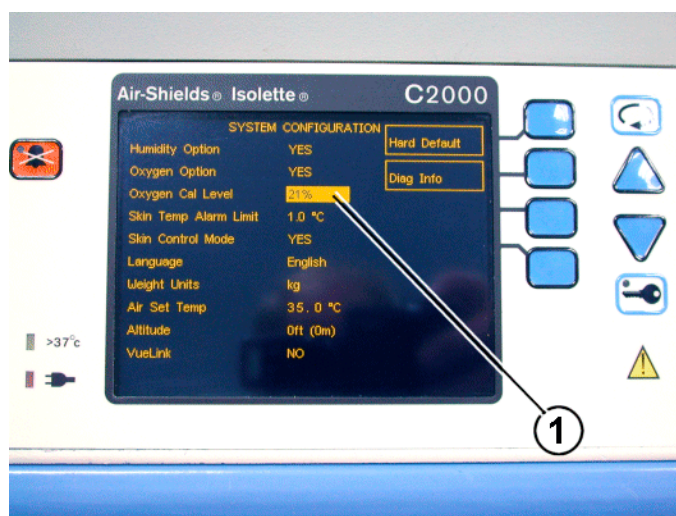


**Figure 17** Zoomed view of control panel; oxygen setting

If the oxygen calibration setting is “21%”, the 100% oxygen calibration fitting ([Figure 18/1](#)) must **not be attached to the sensor module!** Calibration with 21 Vol.%O<sub>2</sub>, see [1.3.3 21 vol.%O<sub>2</sub> calibration](#).

If the oxygen calibration setting is “100%”, the **100% oxygen calibration fitting** ([Figure 18/1](#)) **must be attached to the sensor module!** Calibration with 100 vol.%O<sub>2</sub>, see [1.3.4 100 vol.%O<sub>2</sub> calibration](#).

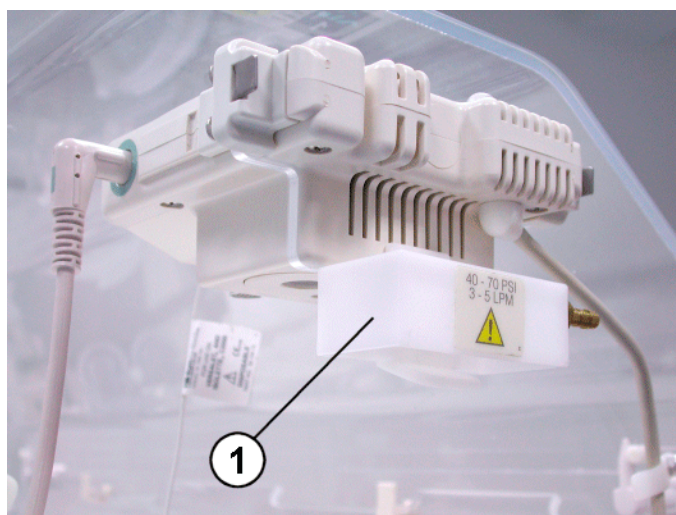


**Figure 18** Sensor module with 100% oxygen calibration fitting

### 1.3.3 21 vol.%O<sub>2</sub> calibration

1. Connect the Isolette® C2000/C2000e to the mains power supply.
2. Press and hold down the “alarm suppression” key and at the same time switch on the Isolette® C2000/C2000e.

The Isolette® C2000/C2000e starts up in configuration mode.

3. Check that the oxygen calibration setting is “21%” - see [Figure 19/1](#) - and that the 100% oxygen calibration fitting is **not** attached to the sensor module.

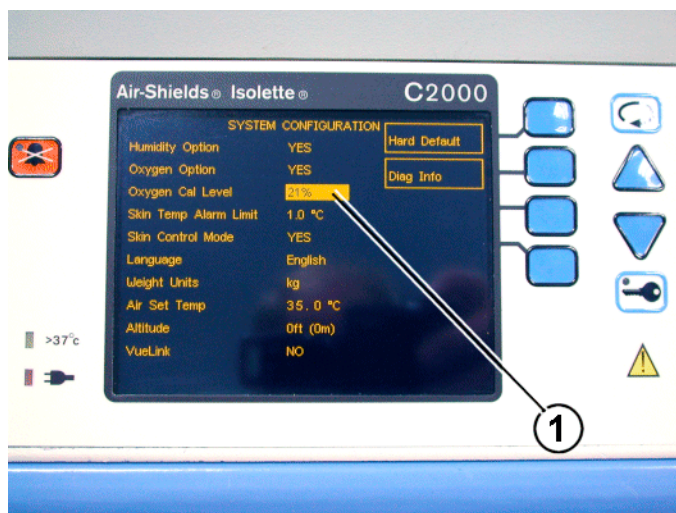


**Figure 19** Zoomed view of control panel; oxygen setting

4. Switch off the Isolette® C2000/C2000e.
5. Switch on the Isolette® C2000/C2000e.
6. On the control panel touch the “Sauerst.” (English=Oxygen; French=Oxygene; Spanish=Oxigeno) softkey ([Figure 20/1](#)).

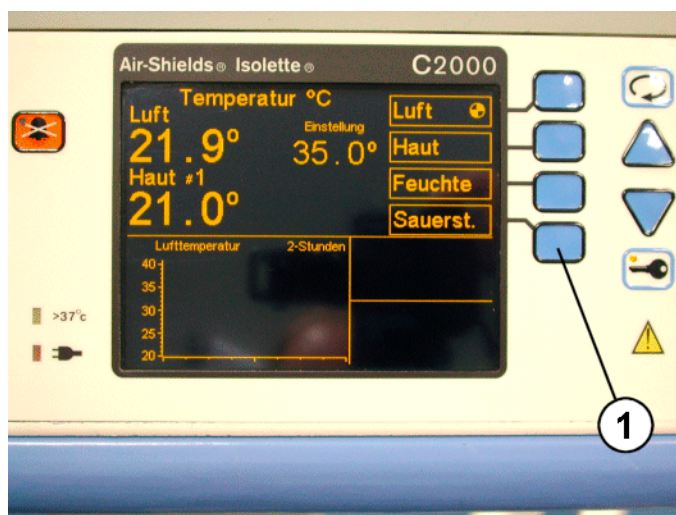


**Figure 20** Zoomed view of control panel; Sauerst. softkey

7. On the control panel touch the Kal. (English=Cal.; French=Calib; Spanish=Cal,) softkey ([Figure 21/1](#)).

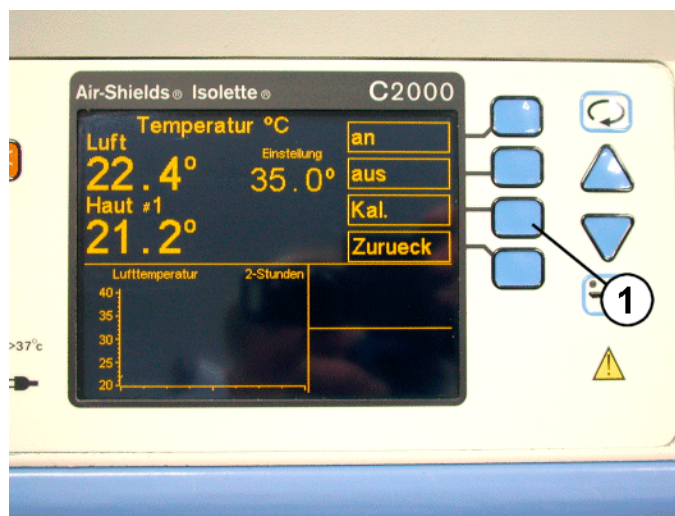


**Figure 21** Zoomed view of control panel; Kal. softkey

8. If the display shows Modul aus (English=Slide Out Sens; French=Enlever module; Spanish=Deslize M.S.), slide the sensor module fully out of the covering.

The display shows a sand timer visually indicating the progress of the calibration, together with the message 21% Kal. (English=21% Cal; French=21% Cal.; Spanish=Cal. 21%). If the calibration has completed successfully, the display shows Kalibration OK (English=Cal Pass; French=Cal. acceptee; Spanish=Cal. aceptada).

### 1.3.4 100 vol.%O<sub>2</sub> calibration

1. Connect the Isolette® C2000/C2000e to the mains power supply.
2. Press and hold down the “alarm suppression” key and at the same time switch on the Isolette® C2000/C2000e.

The Isolette® C2000/C2000e starts up in configuration mode.

3. Check that the oxygen calibration setting is “100%” - see [Figure 22/1](#) - and that the 100% oxygen calibration fitting is attached to the sensor module.

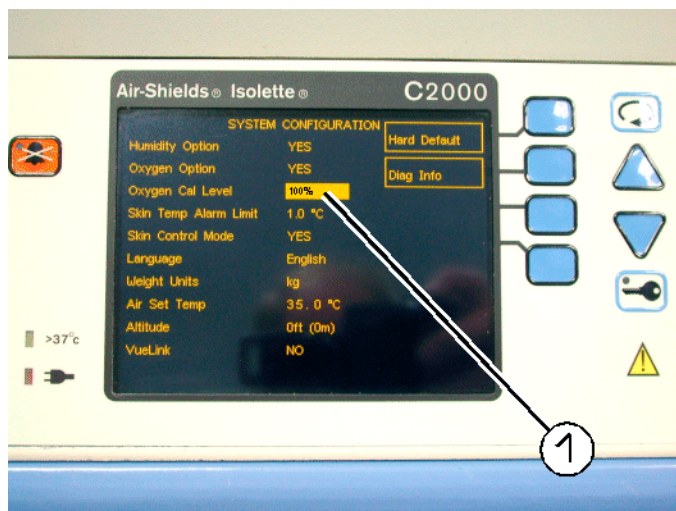


**Figure 22** Zoomed view of control panel; oxygen setting

4. Switch off the Isolette® C2000/C2000e.
5. Switch on the Isolette® C2000/C2000e.
6. Connect the oxygen tube to a medical oxygen cylinder.
7. Connect the oxygen tube to the port on the “100% oxygen fitting”.
8. Set a flow rate of 3 L/min to 5 L/min on the oxygen cylinder.
9. Open the oxygen feed on the oxygen cylinder.
10. On the display touch the “Sauerst.” (English=Oxygen; French=Oxygene; Spanish=Oxigeno) (Figure 23/1) softkey.

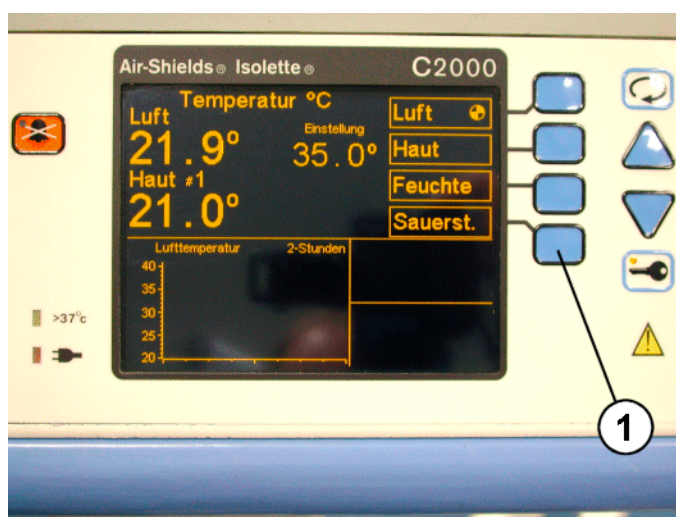


**Figure 23** Zoomed view of control panel; Sauerst. softkey

11. Touch the Kal. (English=Cal.; French=Calib; Spanish=Cal,) (Figure 24/1) softkey.

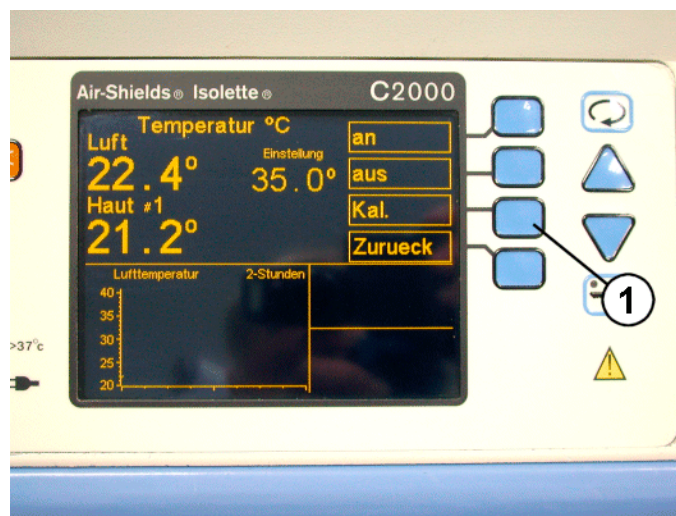


**Figure 24** Zoomed view of control panel; Kal. softkey

12. If the display shows Modul aus (English=Slide Out Sens; French=Enlever module; Spanish=Deslize M.S.), slide the sensor module fully out of the covering.

The display shows a sand timer visually indicating the progress of the calibration, together with the message 100% Kal. (English=100% Cal; French=100% Cal.; Spanish=Cal. 100%). If the calibration has completed successfully, the display shows Kalibration OK (English=Cal Pass; French=Cal. acceptee; Spanish=Cal. aceptada).



## Block diagrams



# 1 Shell Assembly Cable Routing (1)

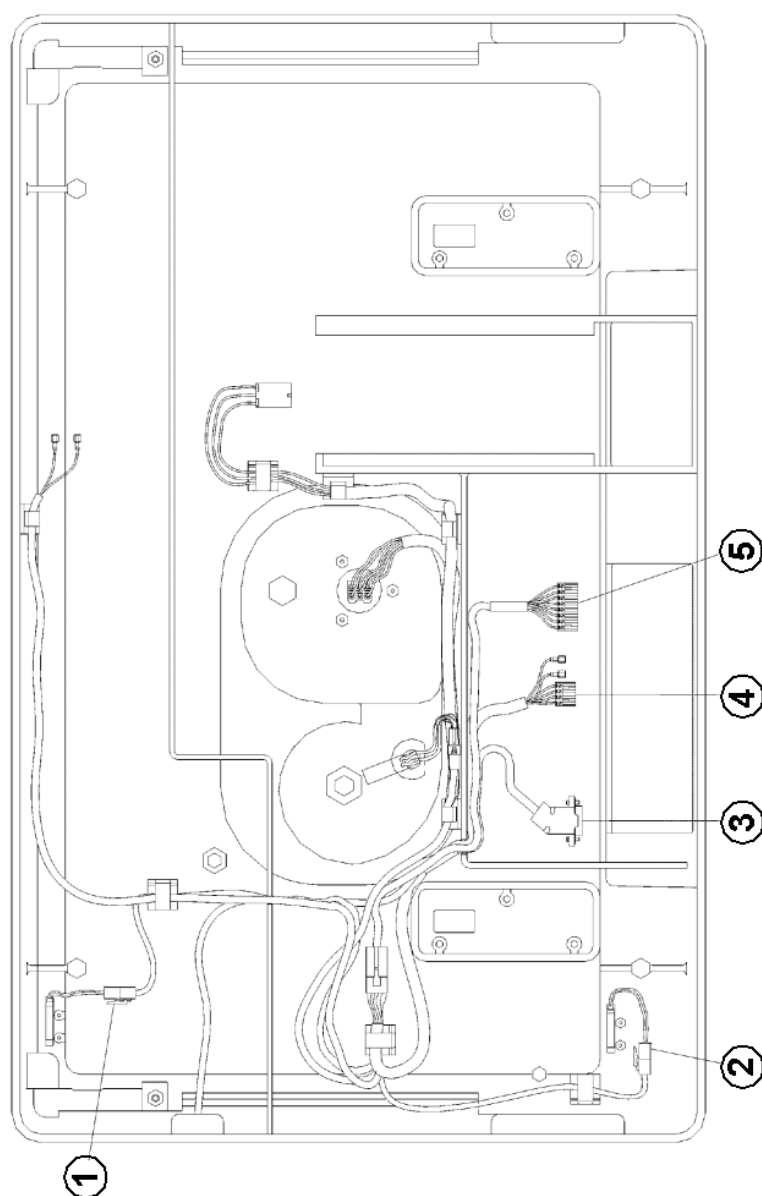


**Figure 1** Shell assembly cable routing

**Table 1** Legend to **Figure 1**

| Number | Description                                                                 |
|--------|-----------------------------------------------------------------------------|
| 1      | Single-pole double-throw (SPDT), normally closed (NC), magnetic reed switch |
| 2      | Single-pole double-throw (SPDT), normally closed (NC), magnetic reed switch |
| 3      | Sensor modul-to-controller cable assembly                                   |
| 4      | AC wiring harness assembly                                                  |
| 5      | AC harness-to-controller cable assembly                                     |

2      Scale Assembly  
Cable Routing (2)

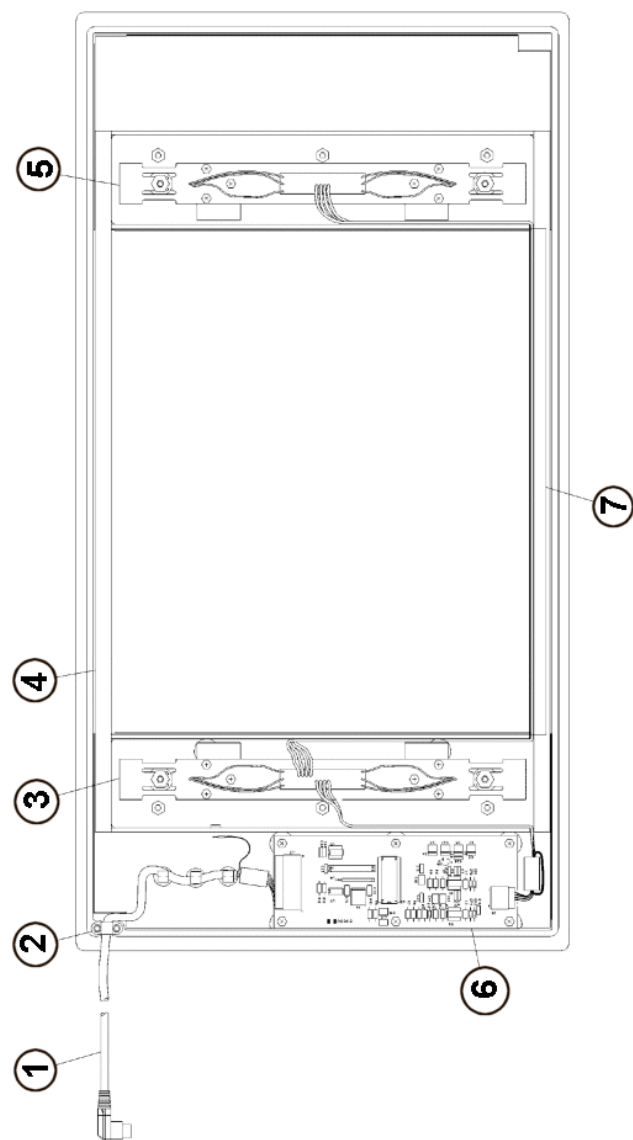


Figure 2      Scale assembly cable routing

Table 2      Legend to **Figure 2**

| Number | Description            |
|--------|------------------------|
| 1      | Scale cable assembly   |
| 2      | Retaining clamp        |
| 3      | Load beam              |
| 4      | Scale subframe         |
| 5      | Load beam              |
| 6      | Cradle measuring cell  |
| 7      | Conductive copper tape |

# Annex

Parts catalog

Test List



# Parts catalog

Isolette® C2000/C2000e

Revision: 2007-03-22 06:55:13

6016.036

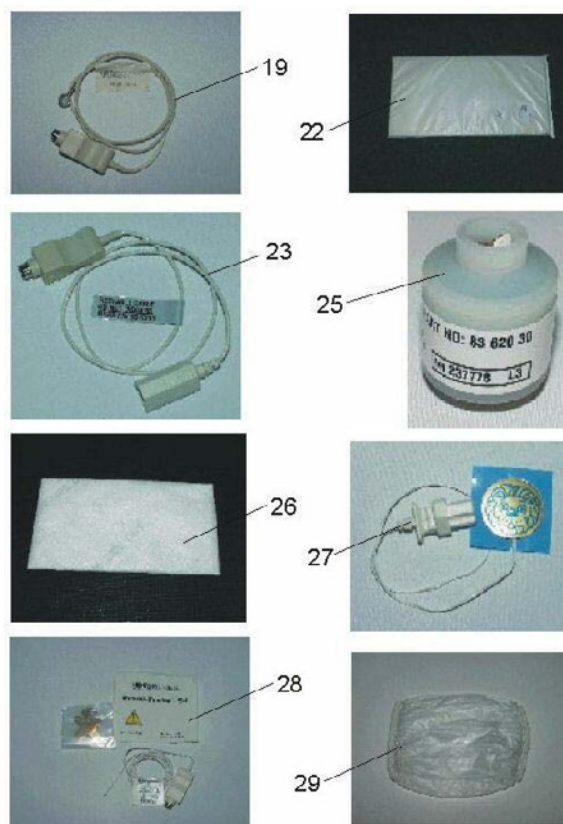




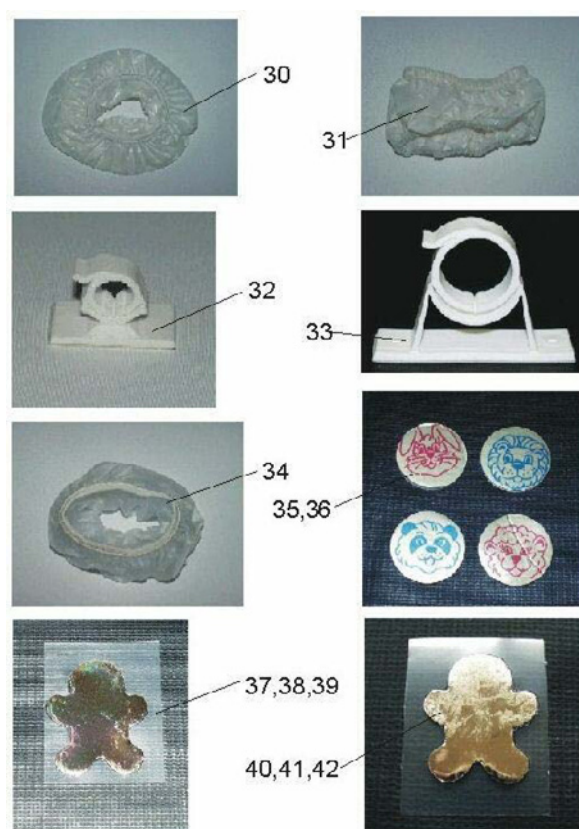
| Item No. | Part No. | Description     | Qty.  | Qty.u nit | Remark |
|----------|----------|-----------------|-------|-----------|--------|
|          | MU20500  | C2000 ISOLETTE  | 1.000 | St        |        |
|          | MU20501  | C2000e ISOLETTE | 1.000 | St        |        |



| Item No. | Part No. | Description                   | Qty.  | Qty. unit | Remark                         |
|----------|----------|-------------------------------|-------|-----------|--------------------------------|
| 1        | MU12504  | FILTER,REPL,ISOLETTE,BOX/ 4   | 1.000 | St        |                                |
| 2        | MU13223  | CELL,OXYGEN                   | 1.000 | St        |                                |
| 3        | MU13435  | REPL KIT,SEALS AND SPRING     | 1.000 | St        | ohne Abbildung/item not shown; |
| 4        | MU03664  | VALVE,SOLENOID,12VDC,70PSI,O2 | 1.000 | St        | ohne Abbildung/item not shown; |
| 9        | MU16051  | BATTERY,3PK,MKD,RECHG,12V,7A  | 1.000 | St        | ohne Abbildung/item not shown; |
| 10       | MU12681  | LATCH,HEAT SHIELD             | 2.000 | St        | ohne Abbildung/item not shown; |
| 11       | MU01958  | FILTER DISC                   | 3.000 | St        | ohne Abbildung/item not shown; |



| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 19       | MU12533  | PROBE 5,SKIN TEMP,REUSABLE     | 1.000 | St        |        |
| 22       | MU12249  | MATTRESS,FOAM,C2000            | 1.000 | St        |        |
| 23       | MU12520  | ADPTR,PROBE 4,SKIN TEMP,REUSE  | 1.000 | St        |        |
| 25       | MU13223  | CELL,OXYGEN                    | 1.000 | St        |        |
| 26       | MU12504  | FILTER,REPL,ISOLETTE,BOX/ 4    | 1.000 | St        |        |
| 27       | MU12525  | PROBE 4,SKNTMP,DSP,ISO,BX/10   | 1.000 | St        |        |
| 28       | MU12551  | PROBE 5,LG,SKIN TMP,YSI,BOX/10 | 1.000 | St        |        |
| 29       | MU03876  | IRIS PORT SLEEVE,BOX/100       | 1.000 | St        |        |



| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 30       | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100 | 1.000 | St        |        |
| 31       | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10 | 1.000 | St        |        |
| 32       | MU06562  | NEAT-CLIPS,0.38 DIA,BOX/100    | 1.000 | St        |        |
| 33       | MU06563  | NEAT-CLIPS,1.00 DIA,BOX/50     | 1.000 | St        |        |
| 34       | MU06570  | ACS PORT CUFFS,OV,REPL,BOX/100 | 1.000 | St        |        |
| 35       | MU06941  | CRITTER COVERS,BOX/600         | 1.000 | St        |        |
| 36       | MU06942  | CRITTER COVERS,BOX/100         | 1.000 | St        |        |
| 37       | MU06947  | COVER,PROBE,CAREFORME,Box/25   | 1.000 | St        |        |
| 38       | MU06943  | COVER,PROBE,CAREFORME,Box/100  | 1.000 | St        |        |
| 39       | MU06945  | COVER,PROBE,CAREFORME,Box/500  | 1.000 | St        |        |
| 40       | MU06948  | COVER,PROBE,CAREFORME,Box/25   | 1.000 | St        |        |
| 41       | MU06944  | COVER,PROBE,CAREFORME,Box/100  | 1.000 | St        |        |
| 42       | MU06946  | COVER,PROBE,CAREFORME,Box/500  | 1.000 | St        |        |



| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 44       | MU06566  | SLEEVE,IRIS PORT,DISPOS,SOFT   | 1.000 | St        |        |
| 45       | MU06571  | IRIS PORT CUFFS,DISP,SOFT,100  | 1.000 | St        |        |
| 46       | MU10832  | KLEENASEPTIC B,TRIGSPR,24OZ,12 | 1.000 | St        |        |
| 47       | MU13161  | COVER,HUMIDITY RESERVOIR       | 1.000 | St        |        |
| 48       | MU13162  | RESERVOIR,HUMIDITY             | 1.000 | St        |        |
| 49       | MU13202  | RESERVOIR ASSY,HUMIDITY        | 1.000 | St        |        |



| Item No. | Part No. | Description                   | Qty.  | Qty. unit | Remark                         |
|----------|----------|-------------------------------|-------|-----------|--------------------------------|
|          | MQ50227  | Incubator Hood and Shell Assy | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50231  | Mattress Tray (Overview)      | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50234  | Access Panel front+rear door  | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50235  | Base Column Assies (Overview) | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50239  | Fixed Height Stand (C2000)    | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50240  | Fixed Height Stand (C2000e)   | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50241  | VHA Stand (C2000)             | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50242  | VHA Stand (C2000e)            | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50243  | Uninterruptible Power Supply  | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50244  | Battery Pack/UPS              | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50245  | Base Cover+Support C2000e     | 1.000 | St        | kein Lieferteil/not available; |
|          | MQ50246  | Rail System for C2000e        | 1.000 | St        | kein Lieferteil/not available; |

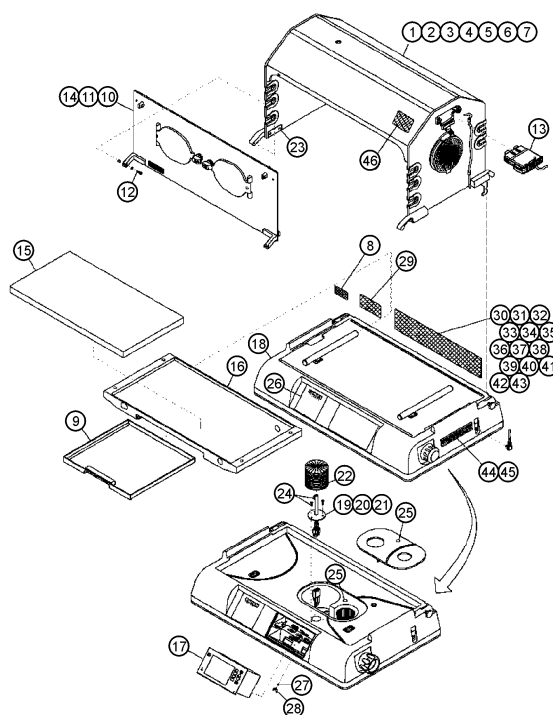


fig5-002mx46487-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 1        | MU12660  | HOOD ASSY,HI,DUAL ACS,IPL&R    | 1.000 | St        |        |
| 2        | MU13437  | REPL KIT,FR ACS,IP L&R,PAWL    | 1.000 | St        |        |
| 3        | MU13438  | REPL KIT,DUAL ACS,IPL ADR,PAWL | 1.000 | St        |        |
| 4        | MU12664  | HOOD ASSY HI DUAL ACS ADL&R    | 1.000 | St        |        |
| 5        | MU12666  | HOOD ASSY,HI,FR ACS,2AD ADL&R  | 1.000 | St        |        |
| 9        | MU12252  | TRAY,X-RAY                     | 1.000 | St        |        |
| 10       | MU12726  | ACCESS PANEL ASSY HIGH REAR    | 1.000 | St        |        |
| 11       | MU12732  | REPL ACCESS PANEL ASSY,HI,FRNT | 1.000 | St        |        |
| 12       | MU15729  | SCR,SHLDR,.25D.38L 10-24SS NLK | 2.000 | St        |        |
| 13       | MU12301  | SENSOR MODULE ASSEMBLY         | 1.000 | St        |        |
| 14       | MU12734  | REPL ACCESS PANEL ASSY,HI,REAR | 1.000 | St        |        |
| 15       | MU12249  | MATTRESS,FOAM,C2000            | 1.000 | St        |        |
| 16       | MU12250  | TRAY,MATTRESS                  | 1.000 | St        |        |
| 17       | MU16972  | CONTROLLER ASSEMBLY            | 1.000 | St        | C2000  |

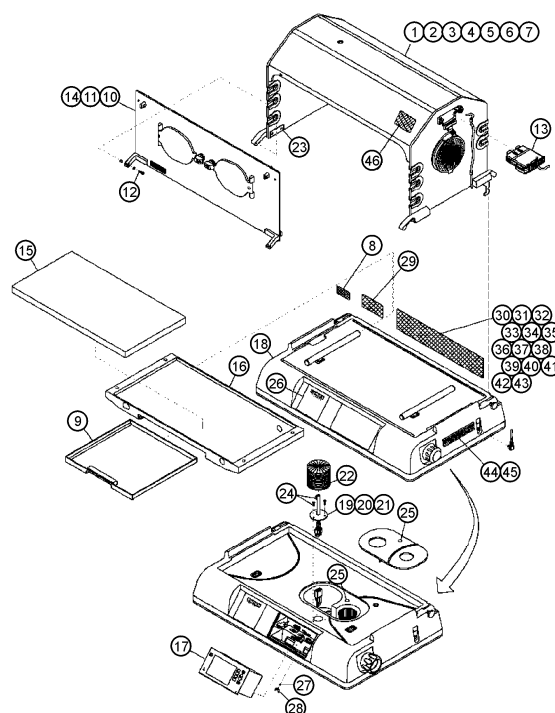


fig5-002mx46487-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 17       | MU16974  | CONTROLLER ASSEMBLY C2000e     | 1.000 | St        | C2000e |
| 19       | MU12510  | HEATER ASSEMBLY,120V           | 1.000 | St        |        |
| 20       | MU12514  | HEATER ASSEMBLY,240V           | 1.000 | St        |        |
| 21       | MU12517  | HEATER ASSEMBLY,100V           | 1.000 | St        |        |
| 22       | MU12500  | RADIATOR,HEATER,MACHINING      | 1.000 | St        |        |
| 23       | MU05562  | COVER,SCREW,LT GREY,1/4-20 PN  | 2.000 | St        |        |
| 24       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 3.000 | St        |        |
| 25       | MU13018  | LABEL,HOT SURFACE SYMBOL       | 2.000 | St        |        |
| 26       | MU12998  | OVERLAY,HUMIDITY PANEL         | 1.000 | St        |        |
| 27       | MU15547  | WSHR,FL,.20ID .50OD .04T BR NI | 2.000 | St        |        |
| 28       | MU15420  | NUT,WING,6-32,SS               | 2.000 | St        |        |
| 30       | MU13027  | LABEL,OXY CONC & WARNINGS,ENG  | 1.000 | St        |        |
| 33       | MU13030  | LABEL,OXY CONC & WARNINGS,GER  | 1.000 | St        |        |
| 40       | MU13041  | LABEL,OXY CONC & WARNINGS,FIN  | 1.000 | St        |        |

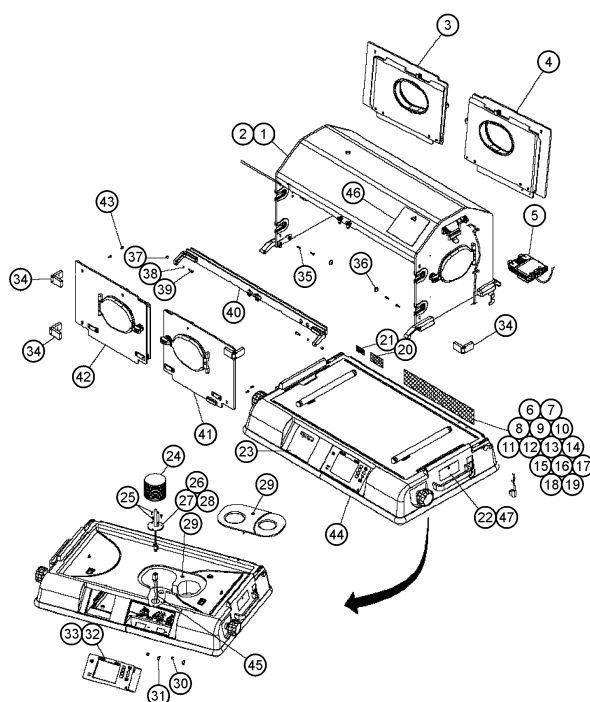


fig5-003mq50227-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 5        | MU12301  | SENSOR MODULE ASSEMBLY         | 1.000 | St        |        |
| 6        | MU13027  | LABEL,OXY CONC & WARNINGS,ENG  | 1.000 | St        |        |
| 16       | MU13041  | LABEL,OXY CONC & WARNINGS,FIN  | 1.000 | St        |        |
| 23       | MU12998  | OVERLAY,HUMIDITY PANEL         | 1.000 | St        |        |
| 24       | MU12500  | RADIATOR,HEATER,MACHINING      | 1.000 | St        |        |
| 25       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 3.000 | St        |        |
| 26       | MU12510  | HEATER ASSEMBLY,120V           | 1.000 | St        |        |
| 27       | MU12514  | HEATER ASSEMBLY,240V           | 1.000 | St        |        |
| 28       | MU12517  | HEATER ASSEMBLY,100V           | 1.000 | St        |        |
| 30       | MU15547  | WSHR,FL,.20ID .50OD .04T BR NI | 2.000 | St        |        |
| 31       | MU15420  | NUT,WING,6-32,SS               | 1.000 | St        |        |
| 32       | MU16972  | CONTROLLER ASSEMBLY            | 1.000 | St        | C2000  |
| 33       | MU16974  | CONTROLLER ASSEMBLY C2000e     | 1.000 | St        | C2000e |
| 36       | MU05562  | COVER,SCREW,LT GREY,1/4-20 PN  | 2.000 | St        |        |

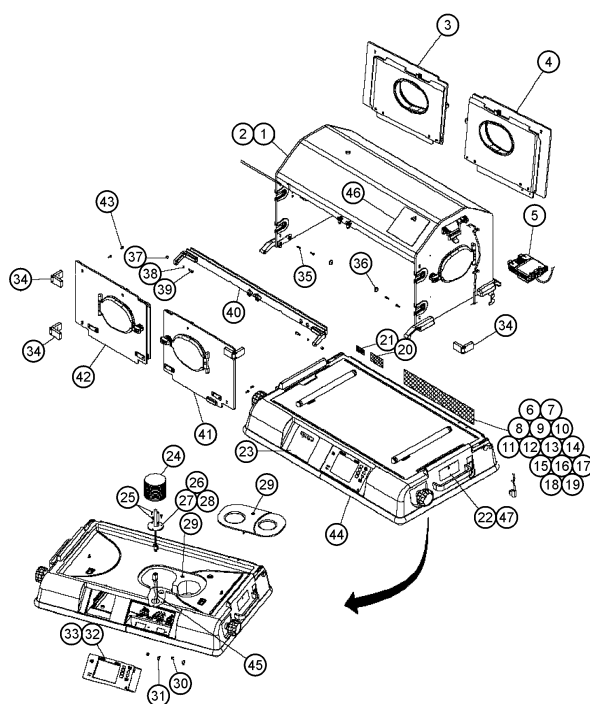


fig5-003mq50227-00

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 37       | MU12267  | BEARING,.251ID .29OD .41FLG NY | 2.000 | St        |        |
| 38       | MU15580  | WSHR,FL,.257ID .38OD .02T NYL  | 2.000 | St        |        |
| 39       | MU15729  | SCR,SHLDR,.25D.38L 10-24SS NLK | 2.000 | St        |        |
| 45       | MU12488  | WIRING HARNESS ASSEMBLY,AC     | 1.000 | St        |        |

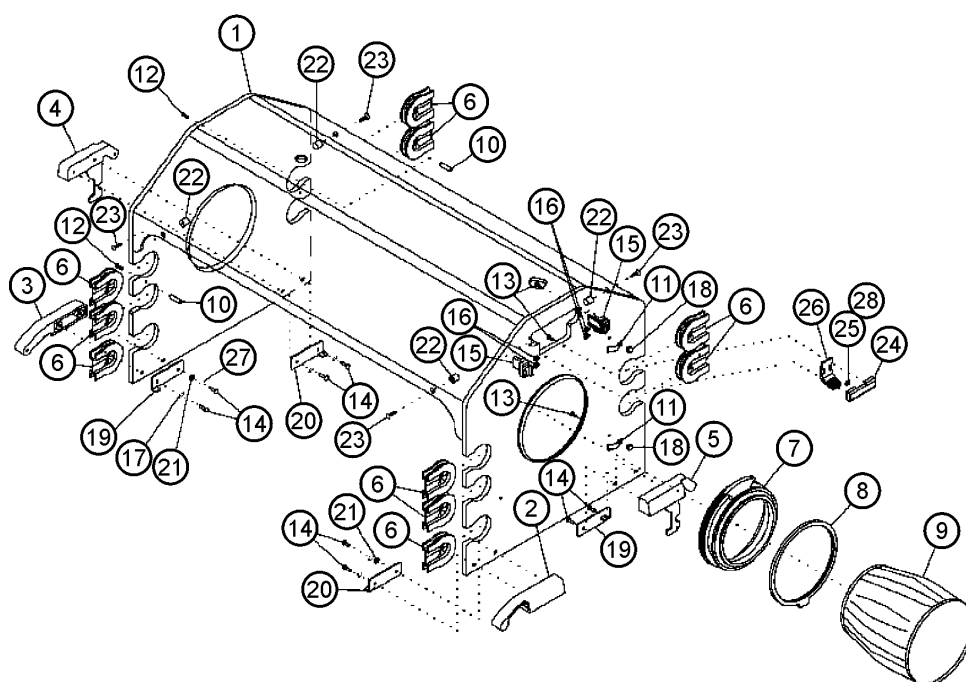


fig5-004mx46489-01

| Item No. | Part No. | Description                    | Qty.   | Qty.u nit | Remark              |
|----------|----------|--------------------------------|--------|-----------|---------------------|
| 1        | MU13436  | REPL KIT,DUAL ACS,IP L&R,PAWL  | 1.000  | St        |                     |
| 2        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR | 1.000  | St        |                     |
| 3        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR  | 1.000  | St        |                     |
| 4        | MU12602  | HINGE,HOOD/ACS PNL,LEFT REAR   | 1.000  | St        |                     |
| 5        | MU12603  | HINGE,HOOD/ACS PNL,RIGHT REAR  | 1.000  | St        |                     |
| 6        | MU12609  | GROMMET,ACCESS                 | 10.000 | St        |                     |
| 7        | MU06573  | RING ASSY,IRIS PORT,LG FLANGE  | 2.000  | St        |                     |
| 8        | MU06545  | RING,RETAINING,IRIS PORT,CLEAR | 2.000  | St        |                     |
| 9        | MU06571  | IRIS PORT CUFFS,DISP,SOFT,100  | 2.000  | St        | wahlweise/optional; |
| 9        | MU01962  | SLEEVE,IRIS PORT,REUSABLE      | 2.000  | St        | wahlweise/optional; |
| 10       | MU07188  | STANDOFF,6-32ID .38OD .44L ACT | 2.000  | St        |                     |
| 11       | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID   | 2.000  | St        |                     |
| 12       | MU15141  | SCR,6-32X9/16 TR PH SS         | 2.000  | St        |                     |
| 13       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 2.000  | St        |                     |

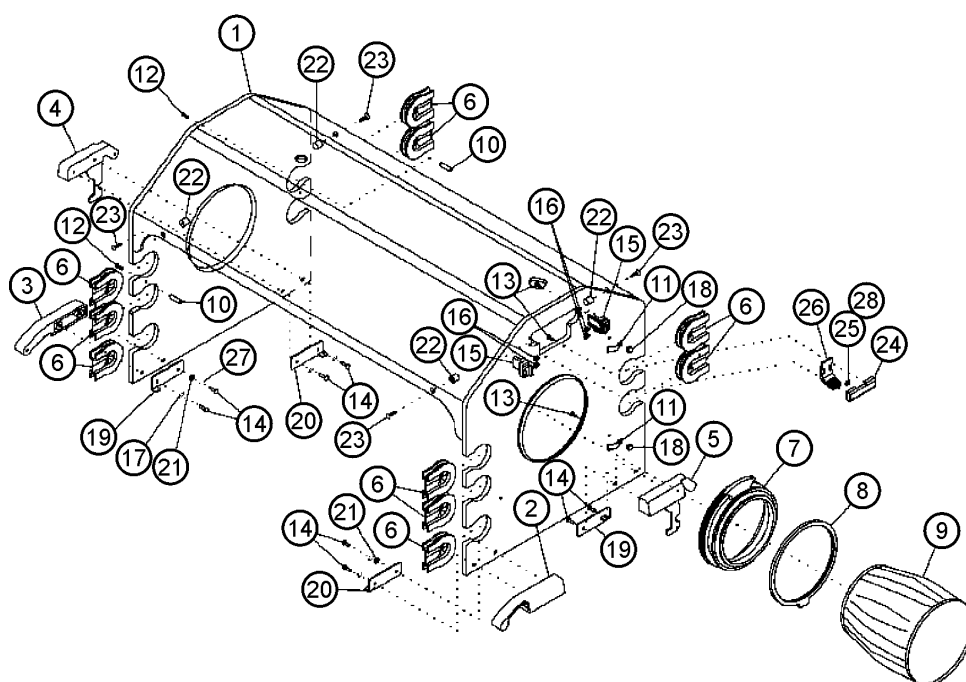


fig5-004mx46489-01

| Item No. | Part No. | Description                   | Qty.  | Qty. unit | Remark |
|----------|----------|-------------------------------|-------|-----------|--------|
| 14       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP | 8.000 | St        |        |
| 15       | MU12626  | SLIDE ASSY,SENSOR MODULE      | 2.000 | St        |        |
| 16       | MU15417  | NUT,HEX,6-32 SS               | 4.000 | St        |        |
| 17       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK   | 4.000 | St        |        |
| 18       | MU15421  | NUT,ACORN,6-32 AL             | 2.000 | St        |        |
| 19       | MU12607  | PLATE,BACKUP,HINGE,LF & RR    | 2.000 | St        |        |
| 20       | MU12608  | PLATE,BACKUP,HINGE,LR & RF    | 2.000 | St        |        |
| 21       | MU05563  | BASE,SCREW,1/4-20 PN          | 2.000 | St        |        |
| 22       | MU12716  | SPACER,6-32ID .31OD .38L ACTL | 4.000 | St        |        |
| 23       | MU15129  | SCR,6-32X7/16,FL PH SS        | 4.000 | St        |        |
| 24       | MU12667  | PLATE,COVER,SLIDE FIXTURE     | 1.000 | St        |        |
| 25       | MU12669  | WASHER,CRV SPR MOD-SLIDE LOCK | 1.000 | St        |        |
| 26       | MU12670  | SLIDE LOCK,SENSOR MODULE      | 1.000 | St        |        |

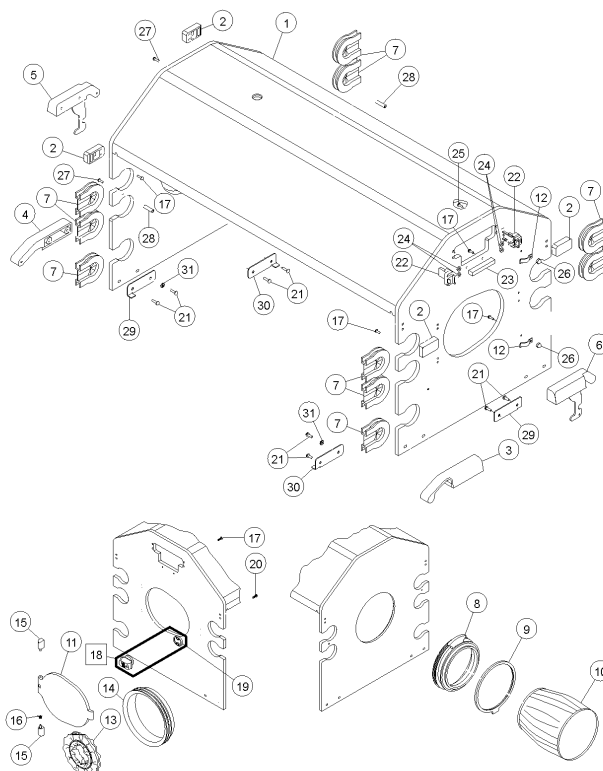


fig5-007mx46490-01

| Item No. | Part No. | Description                    | Qty.   | Qty.u nit | Remark              |
|----------|----------|--------------------------------|--------|-----------|---------------------|
| 1        | MU13438  | REPL KIT,DUAL ACS,IPL ADR,PAWL | 1.000  | St        |                     |
| 2        | MU12604  | KEEPER,ACCESS PANEL LATCH      | 4.000  | St        |                     |
| 3        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR | 1.000  | St        |                     |
| 4        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR  | 1.000  | St        |                     |
| 5        | MU12602  | HINGE,HOOD/ACS PNL,LEFT REAR   | 1.000  | St        |                     |
| 6        | MU12603  | HINGE,HOOD/ACS PNL,RIGHT REAR  | 1.000  | St        |                     |
| 7        | MU12609  | GROMMET,ACCESS                 | 10.000 | St        |                     |
| 8        | MU06573  | RING ASSY,IRIS PORT,LG FLANGE  | 1.000  | St        |                     |
| 9        | MU06545  | RING,RETAINING,IRIS PORT,CLEAR | 1.000  | St        |                     |
| 10       | MU06571  | IRIS PORT CUFFS,DISP,SOFT,100  | 1.000  | St        | wahlweise/optional; |
| 10       | MU01962  | SLEEVE,IRIS PORT,REUSABLE      | 1.000  | St        | wahlweise/optional; |
| 11       | MU12677  | DOOR,ACCESS                    | 1.000  | St        |                     |
| 12       | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID   | 2.000  | St        |                     |
| 13       | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100 | 1.000  | St        | wahlweise/optional; |

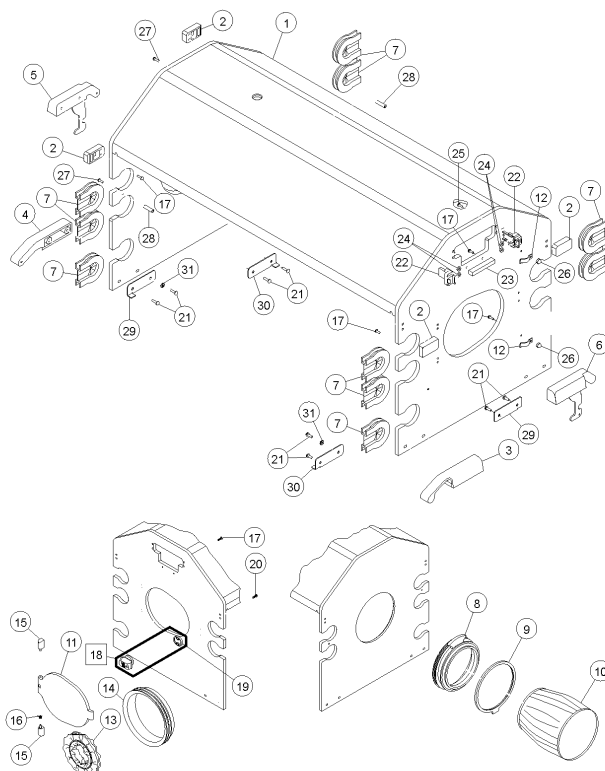


fig5-007mx46490-01

| Item No. | Part No. | Description                     | Qty.   | Qty. unit | Remark              |
|----------|----------|---------------------------------|--------|-----------|---------------------|
| 13       | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10  | 1.000  | St        | wahlweise/optional; |
| 14       | MU12679  | GASKET,ACCESS DOOR              | 1.000  | St        |                     |
| 15       | MU08163  | PIVOT,HINGE,ACCESS DOOR         | 2.000  | St        |                     |
| 16       | MU08164  | SPRING,TRSN, .27OD .030W .365LG | 1.000  | St        |                     |
| 17       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK    | 16.000 | St        |                     |
| 18       | MU13393  | REPL KIT,ACCESS DOOR LATCH      | 1.000  | St        |                     |
| 19       | MU12687  | LATCH MOUNT,ACCESS DOOR         | 1.000  | St        |                     |
| 21       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP   | 8.000  | St        |                     |
| 22       | MU12626  | SLIDE ASSY,SENSOR MODULE        | 2.000  | St        |                     |
| 23       | MU12622  | PLATE,COVER,NO CAL. FIXT.       | 1.000  | St        |                     |
| 24       | MU15417  | NUT,HEX,6-32 SS                 | 4.000  | St        |                     |
| 25       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK     | 4.000  | St        |                     |
| 26       | MU15421  | NUT,ACORN,6-32 AL               | 2.000  | St        |                     |
| 27       | MU15141  | SCR,6-32X9/16 TR PH SS          | 2.000  | St        |                     |

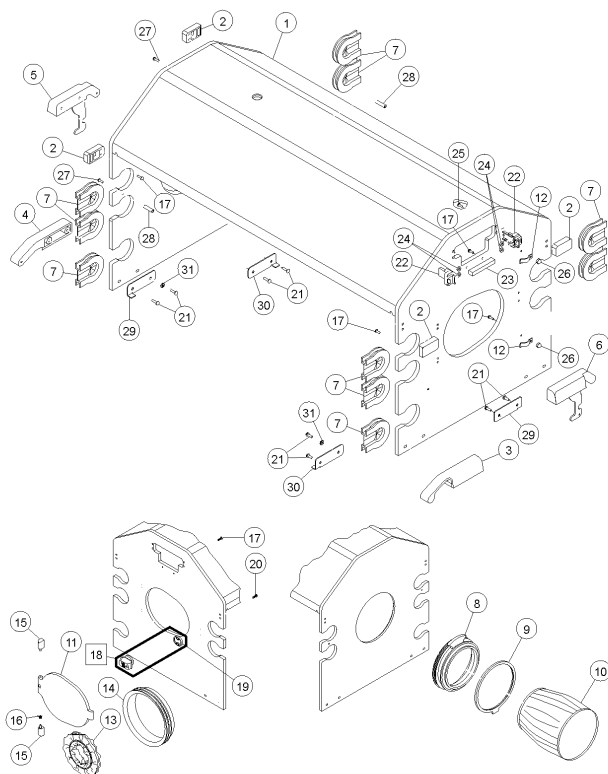


fig5-007mx46490-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 28       | MU07188  | STANDOFF,6-32ID .38OD .44L ACT | 2.000 | St        |        |
| 29       | MU12607  | PLATE,BACKUP,HINGE,LF & RR     | 2.000 | St        |        |
| 30       | MU12608  | PLATE,BACKUP,HINGE,LR & RF     | 2.000 | St        |        |
| 31       | MU05563  | BASE,SCREW,1/4-20 PN           | 2.000 | St        |        |

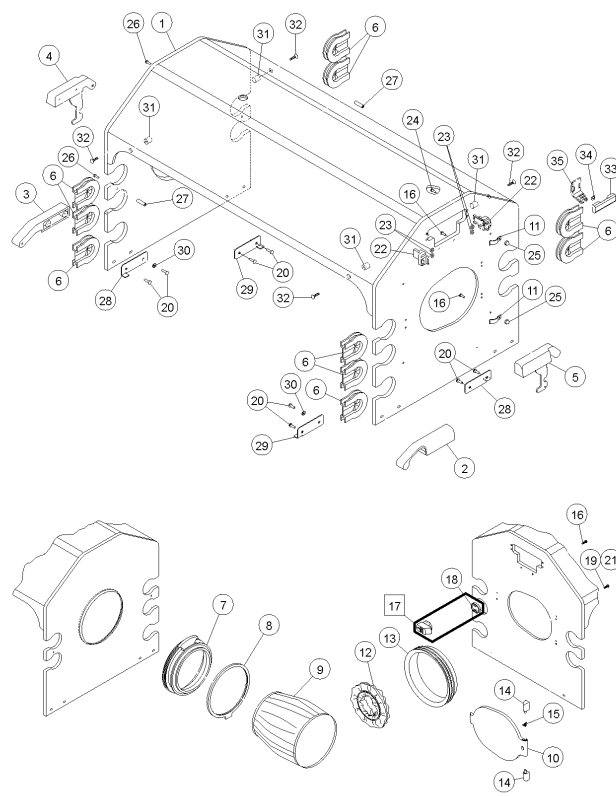


fig5-008mx46491-01

| Item No. | Part No. | Description                    | Qty.   | Qty. unit | Remark              |
|----------|----------|--------------------------------|--------|-----------|---------------------|
| 1        | MU13438  | REPL KIT,DUAL ACS,IPL ADR,PAWL | 1.000  | St        |                     |
| 2        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR | 1.000  | St        |                     |
| 3        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR  | 1.000  | St        |                     |
| 4        | MU12602  | HINGE,HOOD/ACS PNL,LEFT REAR   | 1.000  | St        |                     |
| 5        | MU12603  | HINGE,HOOD/ACS PNL,RIGHT REAR  | 1.000  | St        |                     |
| 6        | MU12609  | GROMMET,ACCESS                 | 10.000 | St        |                     |
| 7        | MU06573  | RING ASSY,IRIS PORT,LG FLANGE  | 1.000  | St        |                     |
| 8        | MU06545  | RING,RETAINING,IRIS PORT,CLEAR | 1.000  | St        |                     |
| 9        | MU06571  | IRIS PORT CUFFS,DISP,SOFT,100  | 1.000  | St        | wahlweise/optional; |
| 9        | MU01962  | SLEEVE,IRIS PORT,REUSABLE      | 1.000  | St        | wahlweise/optional; |
| 10       | MU12677  | DOOR,ACCESS                    | 1.000  | St        |                     |
| 11       | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID   | 2.000  | St        |                     |
| 12       | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100 | 1.000  | St        | wahlweise/optional; |
| 12       | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10 | 1.000  | St        | wahlweise/optional; |

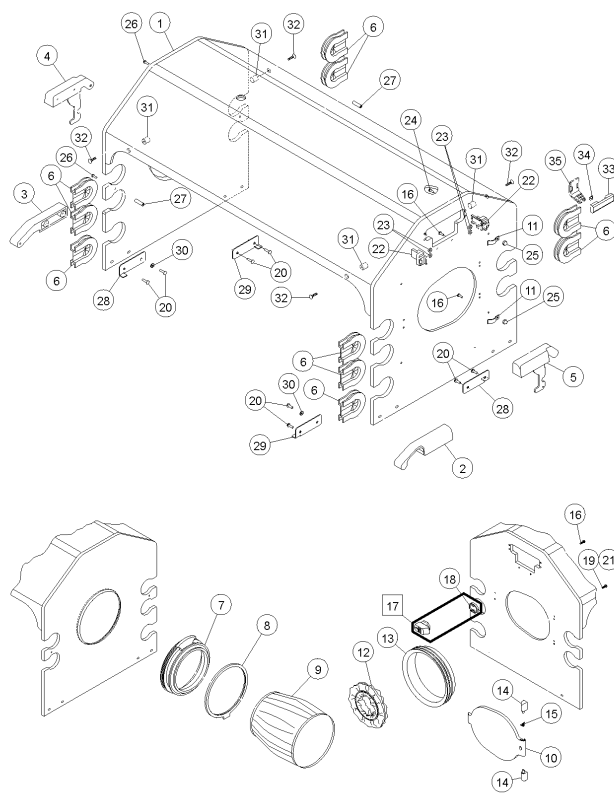
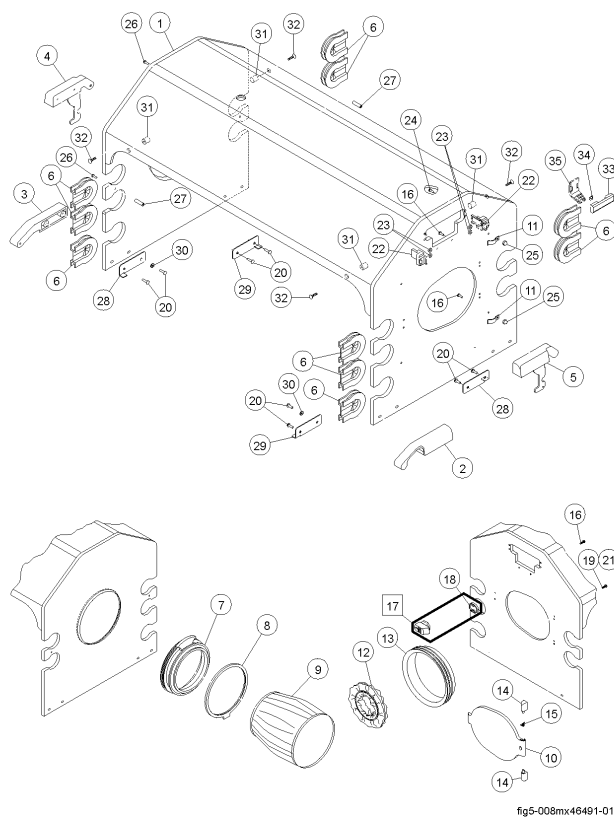


fig5-008mx46491-01

| Item No. | Part No. | Description                    | Qty.   | Qty.u nit | Remark |
|----------|----------|--------------------------------|--------|-----------|--------|
| 13       | MU12679  | GASKET,ACCESS DOOR             | 1.000  | St        |        |
| 14       | MU08163  | PIVOT,HINGE,ACCESS DOOR        | 2.000  | St        |        |
| 15       | MU08164  | SPRING,TRSN,.27OD .030W .365LG | 1.000  | St        |        |
| 16       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 16.000 | St        |        |
| 17       | MU13393  | REPL KIT,ACCESS DOOR LATCH     | 1.000  | St        |        |
| 18       | MU12687  | LATCH MOUNT,ACCESS DOOR        | 1.000  | St        |        |
| 20       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP  | 8.000  | St        |        |
| 21       | MU15525  | WSHR,FL,.150ID .31OD .06T NYL  | 2.000  | St        |        |
| 22       | MU12626  | SLIDE ASSY,SENSOR MODULE       | 2.000  | St        |        |
| 23       | MU15417  | NUT,HEX,6-32 SS                | 4.000  | St        |        |
| 24       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK    | 4.000  | St        |        |
| 25       | MU15421  | NUT,ACORN,6-32 AL              | 2.000  | St        |        |
| 26       | MU15141  | SCR,6-32X9/16 TR PH SS         | 2.000  | St        |        |
| 27       | MU07188  | STANDOFF,6-32ID .38OD .44L ACT | 1.000  | St        |        |



| Item No. | Part No. | Description                   | Qty.  | Qty.u nit | Remark |
|----------|----------|-------------------------------|-------|-----------|--------|
| 28       | MU12607  | PLATE,BACKUP,HINGE,LF & RR    | 2.000 | St        |        |
| 29       | MU12608  | PLATE,BACKUP,HINGE,LR & RF    | 2.000 | St        |        |
| 30       | MU05563  | BASE,SCREW,1/4-20 PN          | 2.000 | St        |        |
| 31       | MU12716  | SPACER,6-32ID .31OD .38L ACTL | 4.000 | St        |        |
| 32       | MU15129  | SCR,6-32X7/16,FL PH SS        | 4.000 | St        |        |
| 33       | MU12667  | PLATE,COVER,SLIDE FIXTURE     | 1.000 | St        |        |
| 34       | MU12669  | WASHER,CRV SPR MOD-SLIDE LOCK | 1.000 | St        |        |
| 35       | MU12670  | SLIDE LOCK,SENSOR MODULE      | 1.000 | St        |        |

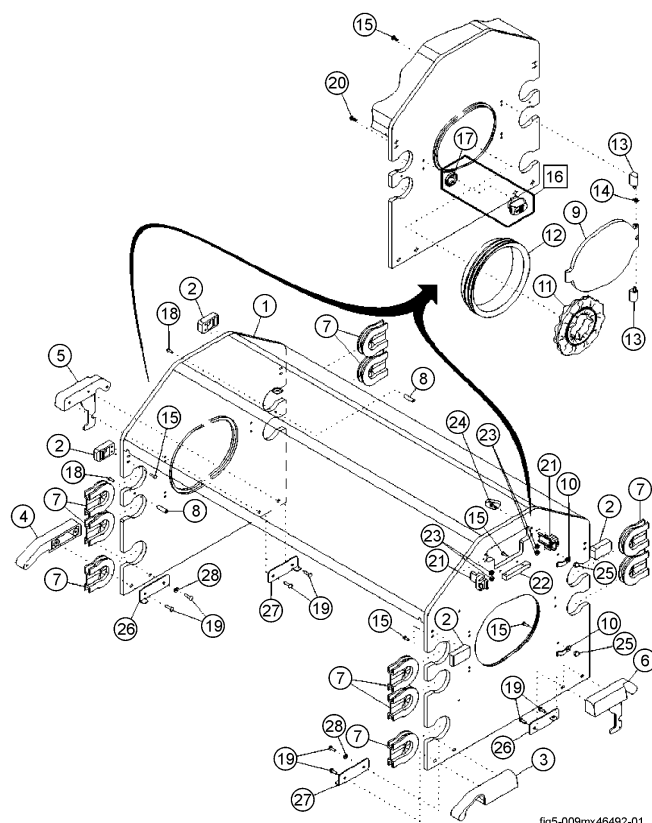


fig5-009mx46492-01

| Item No. | Part No. | Description                     | Qty.   | Qty.u nit | Remark              |
|----------|----------|---------------------------------|--------|-----------|---------------------|
| 2        | MU12604  | KEEPER,ACCESS PANEL LATCH       | 4.000  | St        |                     |
| 3        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR  | 1.000  | St        |                     |
| 4        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR   | 1.000  | St        |                     |
| 5        | MU12602  | HINGE,HOOD/ACS PNL,LEFT REAR    | 1.000  | St        |                     |
| 6        | MU12603  | HINGE,HOOD/ACS PNL,RIGHT REAR   | 1.000  | St        |                     |
| 7        | MU12609  | GROMMET,ACCESS                  | 10.000 | St        |                     |
| 8        | MU07188  | STANDOFF,6-32ID .38OD .44L ACT  | 2.000  | St        |                     |
| 9        | MU12677  | DOOR,ACCESS                     | 2.000  | St        |                     |
| 10       | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID    | 2.000  | St        |                     |
| 11       | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100  | 1.000  | St        | wahlweise/optional; |
| 11       | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10  | 1.000  | St        | wahlweise/optional; |
| 12       | MU12679  | GASKET,ACCESS DOOR              | 2.000  | St        |                     |
| 13       | MU08163  | PIVOT,HINGE,ACCESS DOOR         | 4.000  | St        |                     |
| 14       | MU08164  | SPRING,TRSN, .27OD .030W .365LG | 2.000  | St        |                     |

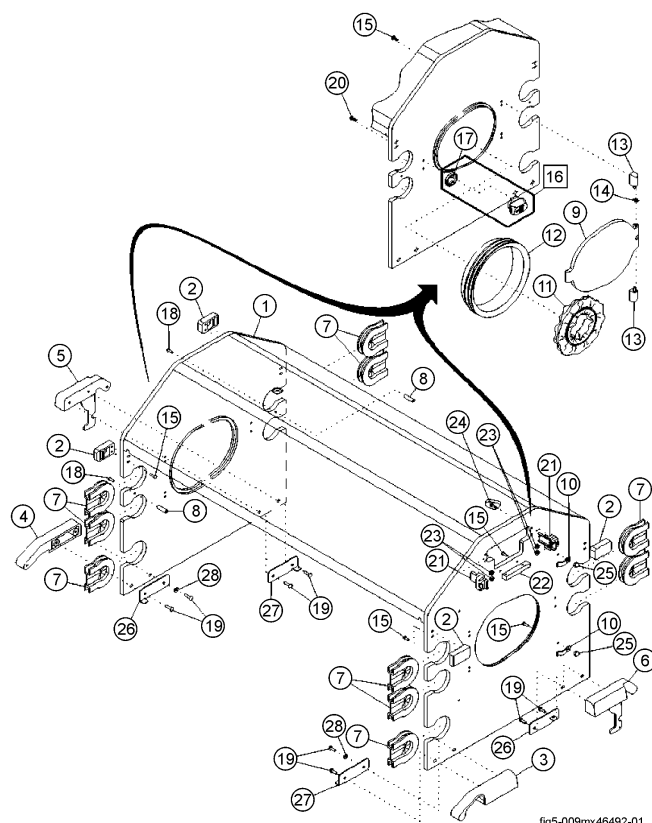


fig5-009mx46492-01

| Item No. | Part No. | Description                   | Qty.   | Qty.u nit | Remark |
|----------|----------|-------------------------------|--------|-----------|--------|
| 15       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK  | 20.000 | St        |        |
| 16       | MU13393  | REPL KIT,ACCESS DOOR LATCH    | 2.000  | St        |        |
| 17       | MU12687  | LATCH MOUNT,ACCESS DOOR       | 2.000  | St        |        |
| 18       | MU15141  | SCR,6-32X9/16 TR PH SS        | 2.000  | St        |        |
| 19       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP | 8.000  | St        |        |
| 21       | MU12626  | SLIDE ASSY,SENSOR MODULE      | 2.000  | St        |        |
| 22       | MU12622  | PLATE,COVER,NO CAL. FIXT.     | 1.000  | St        |        |
| 23       | MU15417  | NUT,HEX,6-32 SS               | 4.000  | St        |        |
| 24       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK   | 4.000  | St        |        |
| 25       | MU15421  | NUT,ACORN,6-32 AL             | 2.000  | St        |        |
| 26       | MU12607  | PLATE,BACKUP,HINGE,LF & RR    | 2.000  | St        |        |
| 27       | MU12608  | PLATE,BACKUP,HINGE,LR & RF    | 2.000  | St        |        |
| 28       | MU05563  | BASE,SCREW,1/4-20 PN          | 2.000  | St        |        |

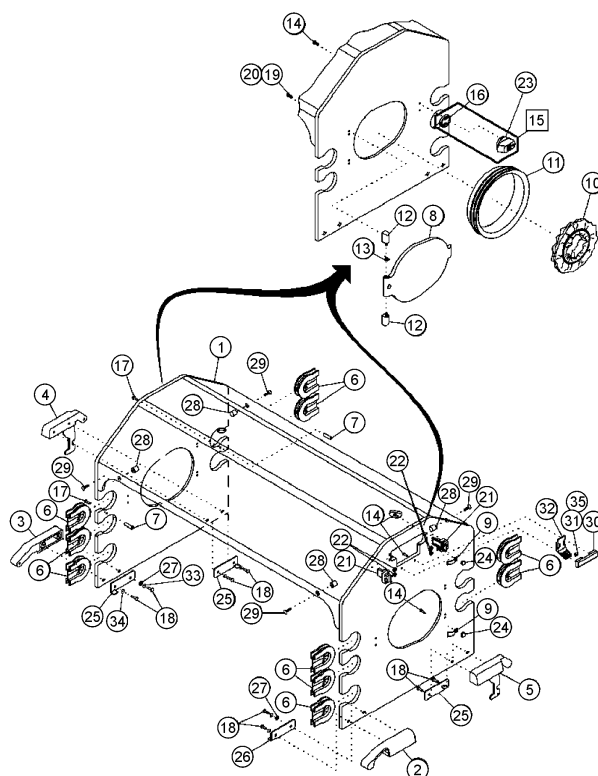


fig5-010mx46493-01

| Item No. | Part No. | Description                    | Qty.   | Qty.u nit | Remark              |
|----------|----------|--------------------------------|--------|-----------|---------------------|
| 2        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR | 1.000  | St        |                     |
| 3        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR  | 1.000  | St        |                     |
| 4        | MU12602  | HINGE,HOOD/ACS PNL,LEFT REAR   | 1.000  | St        |                     |
| 5        | MU12603  | HINGE,HOOD/ACS PNL,RIGHT REAR  | 1.000  | St        |                     |
| 6        | MU12609  | GROMMET,ACCESS                 | 10.000 | St        |                     |
| 7        | MU07188  | STANDOFF,6-32ID .38OD .44L ACT | 2.000  | St        |                     |
| 8        | MU12677  | DOOR,ACCESS                    | 2.000  | St        |                     |
| 9        | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID   | 2.000  | St        |                     |
| 10       | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100 | 1.000  | St        | wahlweise/optional; |
| 10       | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10 | 1.000  | St        | wahlweise/optional; |
| 11       | MU12679  | GASKET,ACCESS DOOR             | 2.000  | St        |                     |
| 12       | MU08163  | PIVOT,HINGE,ACCESS DOOR        | 4.000  | St        |                     |
| 13       | MU08164  | SPRING,TRSN,.27OD .030W .365LG | 2.000  | St        |                     |
| 14       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 20.000 | St        |                     |

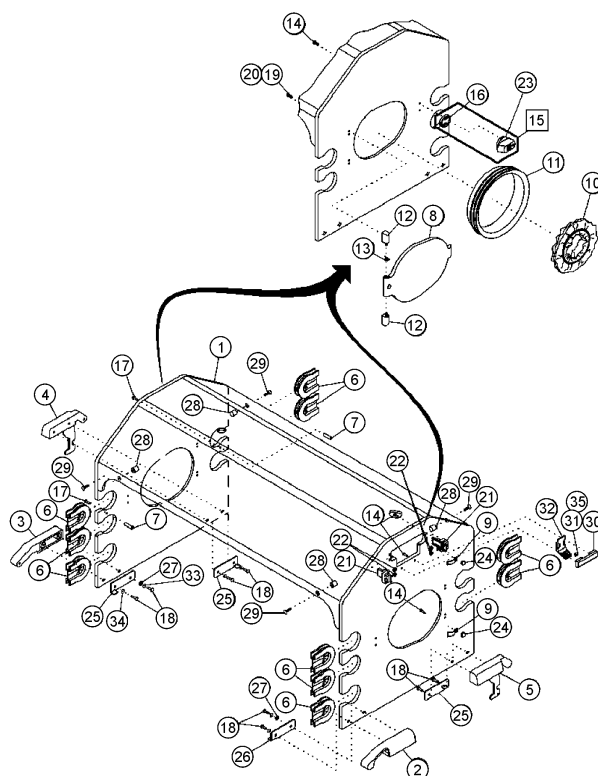


fig5-010mx46493-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 15       | MU13393  | REPL KIT,ACCESS DOOR LATCH     | 2.000 | St        |        |
| 16       | MU12687  | LATCH MOUNT,ACCESS DOOR        | 2.000 | St        |        |
| 17       | MU15141  | SCR,6-32X9/16 TR PH SS         | 2.000 | St        |        |
| 18       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP  | 8.000 | St        |        |
| 20       | MU15525  | WSHR,FL, .150ID .31OD .06T NYL | 4.000 | St        |        |
| 21       | MU12626  | SLIDE ASSY,SENSOR MODULE       | 2.000 | St        |        |
| 22       | MU15417  | NUT,HEX,6-32 SS                | 4.000 | St        |        |
| 23       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK    | 4.000 | St        |        |
| 24       | MU15421  | NUT,ACORN,6-32 AL              | 2.000 | St        |        |
| 25       | MU12607  | PLATE,BACKUP,HINGE,LF & RR     | 2.000 | St        |        |
| 26       | MU12608  | PLATE,BACKUP,HINGE,LR & RF     | 2.000 | St        |        |
| 27       | MU05563  | BASE,SCREW,1/4-20 PN           | 2.000 | St        |        |
| 28       | MU12716  | SPACER,6-32ID .31OD .38L ACTL  | 4.000 | St        |        |
| 29       | MU15129  | SCR,6-32X7/16,FL PH SS         | 4.000 | St        |        |

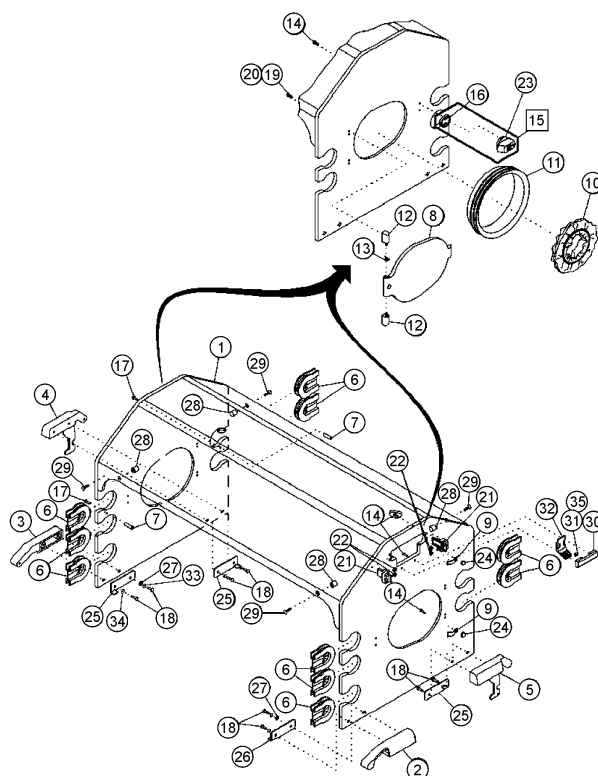


fig5-010mx46493-01

| Item No. | Part No. | Description                   | Qty.  | Qty.u nit | Remark |
|----------|----------|-------------------------------|-------|-----------|--------|
| 30       | MU12667  | PLATE,COVER,SLIDE FIXTURE     | 1.000 | St        |        |
| 31       | MU12669  | WASHER,CRV SPR MOD-SLIDE LOCK | 1.000 | St        |        |
| 32       | MU12670  | SLIDE LOCK,SENSOR MODULE      | 1.000 | St        |        |

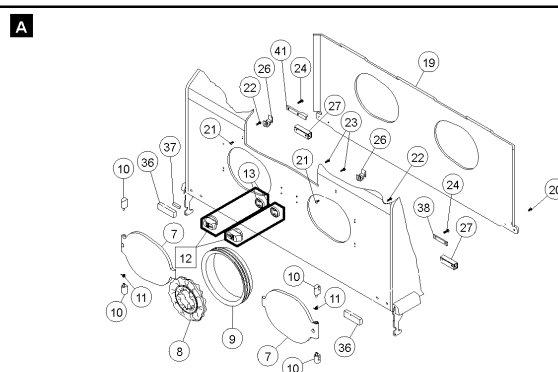
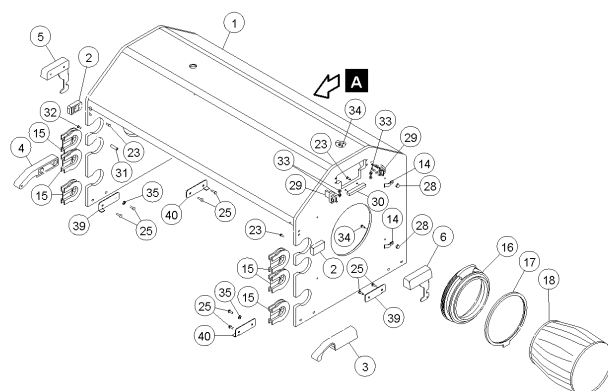


fig5-005mx46495-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark              |
|----------|----------|--------------------------------|-------|-----------|---------------------|
| 1        | MU13437  | REPL KIT,FR ACS,IP L&R,PAWL    | 1.000 | St        |                     |
| 2        | MU12604  | KEEPER,ACCESS PANEL LATCH      | 2.000 | St        |                     |
| 3        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR | 1.000 | St        |                     |
| 4        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR  | 1.000 | St        |                     |
| 5        | MU13452  | REPL KIT,L.REAR HINGE/BRACKET  | 1.000 | St        |                     |
| 6        | MU13451  | REPL KIT,R.REAR HINGE/BRKT,LKG | 1.000 | St        |                     |
| 7        | MU12677  | DOOR,ACCESS                    | 2.000 | St        |                     |
| 8        | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100 | 1.000 | St        | wahlweise/optional; |
| 8        | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10 | 1.000 | St        | wahlweise/optional; |
| 9        | MU12679  | GASKET,ACCESS DOOR             | 2.000 | St        |                     |
| 10       | MU08163  | PIVOT,HINGE,ACCESS DOOR        | 4.000 | St        |                     |
| 11       | MU08164  | SPRING,TRSN,.27OD .030W .365LG | 2.000 | St        |                     |
| 12       | MU13393  | REPL KIT,ACCESS DOOR LATCH     | 2.000 | St        |                     |
| 13       | MU12687  | LATCH MOUNT,ACCESS DOOR        | 2.000 | St        |                     |

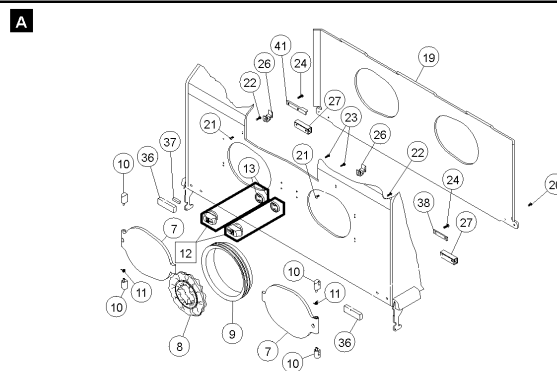
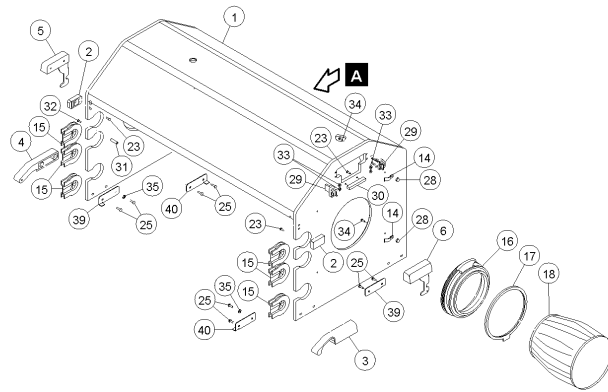
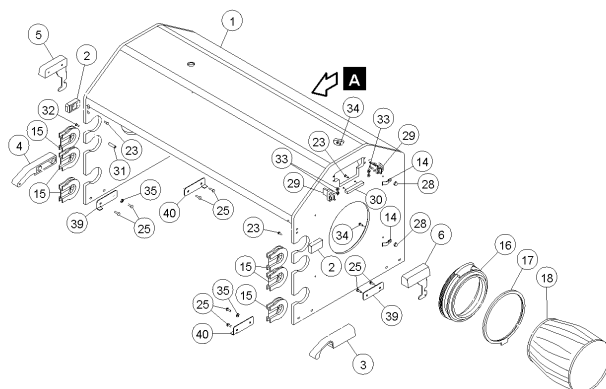


fig5-005mx46495-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark              |
|----------|----------|--------------------------------|-------|-----------|---------------------|
| 14       | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID   | 2.000 | St        |                     |
| 15       | MU12609  | GROMMET,ACCESS                 | 6.000 | St        |                     |
| 16       | MU06573  | RING ASSY,IRIS PORT,LG FLANGE  | 2.000 | St        |                     |
| 17       | MU06545  | RING,RETAINING,IRIS PORT,CLEAR | 2.000 | St        |                     |
| 18       | MU06571  | IRIS PORT CUFFS,DISP,SOFT,100  | 1.000 | St        | wahlweise/optional; |
| 18       | MU01962  | SLEEVE,IRIS PORT,REUSABLE      | 1.000 | St        | wahlweise/optional; |
| 19       | MU12256  | HEAT SHIELD,ACCESS PANEL,HIGH  | 1.000 | St        |                     |
| 20       | MU15401  | SCR,SLFTPG,8X3/8 PN PH SZ,48-2 | 4.000 | St        |                     |
| 21       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 2.000 | St        |                     |
| 22       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 8.000 | St        |                     |
| 23       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 6.000 | St        |                     |
| 24       | MU15248  | SCR,10-32X5/8 TR PH SS NYLOK   | 4.000 | St        |                     |
| 25       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP  | 8.000 | St        |                     |
| 26       | MU12681  | LATCH,HEAT SHIELD              | 2.000 | St        |                     |



A

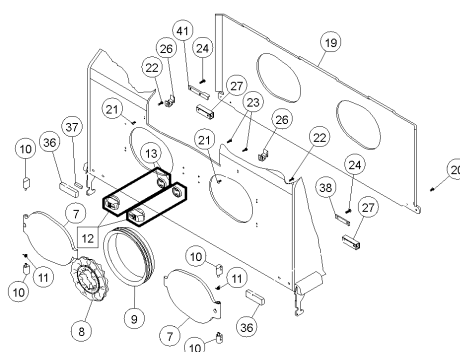


fig5-005mx46495-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 27       | MU12682  | HINGE,HEAT SHIELD              | 2.000 | St        |        |
| 28       | MU15421  | NUT,ACORN,6-32 AL              | 2.000 | St        |        |
| 29       | MU12626  | SLIDE ASSY,SENSOR MODULE       | 2.000 | St        |        |
| 30       | MU12622  | PLATE,COVER,NO CAL. FIXT.      | 1.000 | St        |        |
| 31       | MU07188  | STANDOFF,6-32ID .38OD .44L ACT | 1.000 | St        |        |
| 32       | MU15141  | SCR,6-32X9/16 TR PH SS         | 1.000 | St        |        |
| 33       | MU15417  | NUT,HEX,6-32 SS                | 4.000 | St        |        |
| 34       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK    | 4.000 | St        |        |
| 35       | MU05563  | BASE,SCREW,1/4-20 PN           | 2.000 | St        |        |
| 36       | MU12479  | PLATE,HINGE & MAGNET           | 2.000 | St        |        |
| 37       | MU12697  | MAGNET,.25SQ 1.00LG ALNICO     | 1.000 | St        |        |
| 38       | MU12676  | PLATE,BACKUP,HINGE,HEAT SHIELD | 1.000 | St        |        |
| 39       | MU12607  | PLATE,BACKUP,HINGE,LF & RR     | 2.000 | St        |        |
| 40       | MU12608  | PLATE,BACKUP,HINGE,LR & RF     | 2.000 | St        |        |

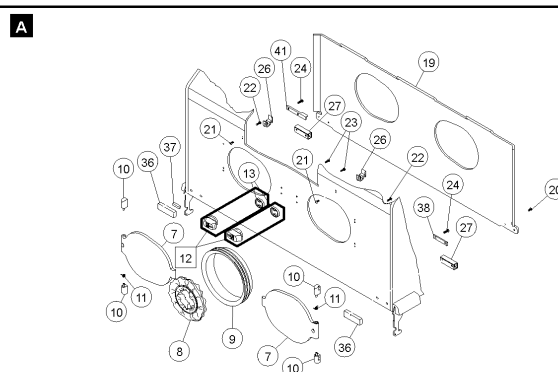
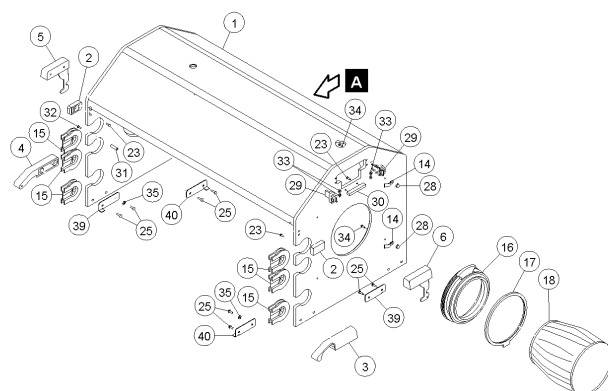


fig5-005mx46495-01

| Item No. | Part No. | Description              | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------|-------|-----------|--------|
| 41       | MU12685  | BRACKET,HEAT SHIELD,REAR | 1.000 | St        |        |

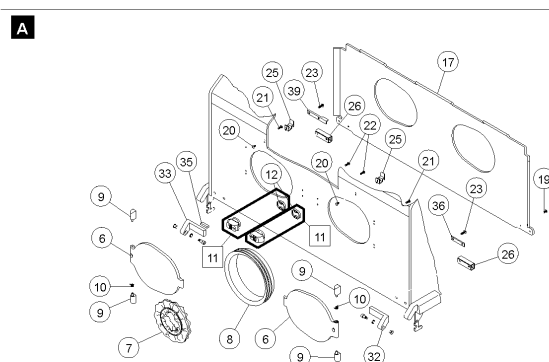
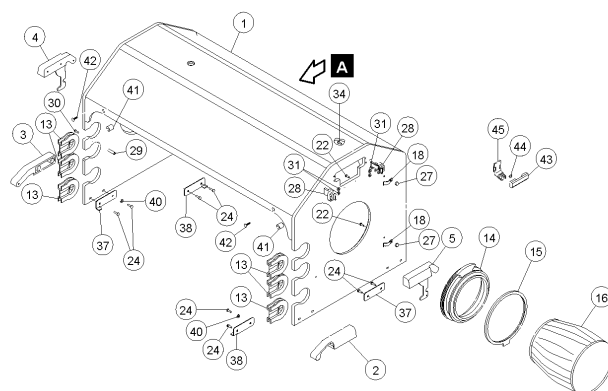


fig5-006mx46496-01

| Item No. | Part No. | Description                     | Qty.  | Qty. unit | Remark              |
|----------|----------|---------------------------------|-------|-----------|---------------------|
| 1        | MU12647  | HOOD HI FR ACS 2AD RR IP L&R    | 1.000 | St        |                     |
| 2        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR  | 1.000 | St        |                     |
| 3        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR   | 1.000 | St        |                     |
| 4        | MU12602  | HINGE,HOOD/ACS PNL,LEFT REAR    | 1.000 | St        |                     |
| 5        | MU12603  | HINGE,HOOD/ACS PNL,RIGHT REAR   | 1.000 | St        |                     |
| 6        | MU12677  | DOOR,ACCESS                     | 2.000 | St        |                     |
| 7        | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100  | 1.000 | St        | wahlweise/optional; |
| 7        | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10  | 1.000 | St        | wahlweise/optional; |
| 8        | MU12679  | GASKET,ACCESS DOOR              | 2.000 | St        |                     |
| 9        | MU08163  | PIVOT,HINGE,ACCESS DOOR         | 4.000 | St        |                     |
| 10       | MU08164  | SPRING,TRSN, .27OD .030W .365LG | 2.000 | St        |                     |
| 11       | MU13393  | REPL KIT,ACCESS DOOR LATCH      | 2.000 | St        |                     |
| 12       | MU12687  | LATCH MOUNT,ACCESS DOOR         | 2.000 | St        |                     |
| 13       | MU12609  | GROMMET,ACCESS                  | 6.000 | St        |                     |

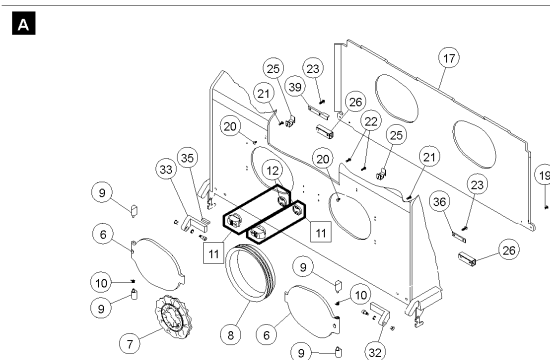
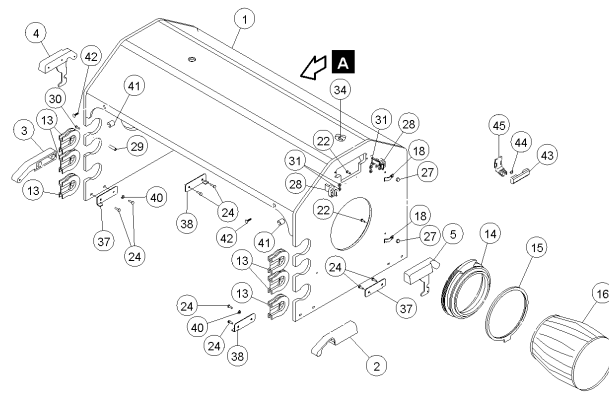


fig5-006mx46496-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark              |
|----------|----------|--------------------------------|-------|-----------|---------------------|
| 14       | MU06573  | RING ASSY,IRIS PORT,LG FLANGE  | 2.000 | St        |                     |
| 15       | MU06545  | RING,RETAINING,IRIS PORT,CLEAR | 2.000 | St        |                     |
| 16       | MU06571  | IRIS PORT CUFFS,DISP,SOFT,100  | 1.000 | St        | wahlweise/optional; |
| 16       | MU01962  | SLEEVE,IRIS PORT,REUSABLE      | 1.000 | St        | wahlweise/optional; |
| 17       | MU12258  | REPL HEAT SHIELD,ACS PNL,PAWL  | 1.000 | St        |                     |
| 18       | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID   | 2.000 | St        |                     |
| 19       | MU15401  | SCR,SLFTPG,8X3/8 PN PH SZ,48-2 | 4.000 | St        |                     |
| 20       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 2.000 | St        |                     |
| 21       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 8.000 | St        |                     |
| 22       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 8.000 | St        |                     |
| 23       | MU15248  | SCR,10-32X5/8 TR PH SS NYLOK   | 4.000 | St        |                     |
| 24       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP  | 8.000 | St        |                     |
| 25       | MU12681  | LATCH,HEAT SHIELD              | 2.000 | St        |                     |
| 26       | MU12682  | HINGE,HEAT SHIELD              | 2.000 | St        |                     |

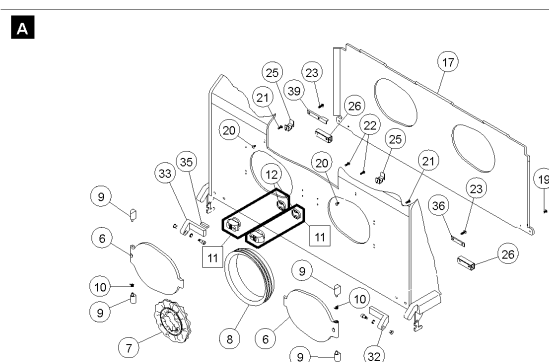
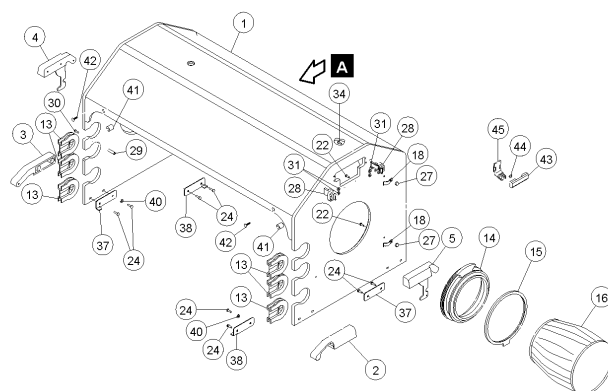


fig5-006mx46496-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 27       | MU15421  | NUT,ACORN,6-32 AL              | 2.000 | St        |        |
| 28       | MU12626  | SLIDE ASSY,SENSOR MODULE       | 2.000 | St        |        |
| 29       | MU07188  | STANDOFF,6-32ID .38OD .44L ACT | 1.000 | St        |        |
| 30       | MU15141  | SCR,6-32X9/16 TR PH SS         | 1.000 | St        |        |
| 31       | MU15417  | NUT,HEX,6-32 SS                | 4.000 | St        |        |
| 32       | MU12699  | HINGE,ACCESS PANEL,RIGHT REAR  | 1.000 | St        |        |
| 33       | MU12698  | HINGE,ACCESS PANEL,LEFT REAR   | 1.000 | St        |        |
| 34       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK    | 4.000 | St        |        |
| 35       | MU12697  | MAGNET,.25SQ 1.00LG ALNICO     | 1.000 | St        |        |
| 36       | MU12676  | PLATE,BACKUP,HINGE,HEAT SHIELD | 1.000 | St        |        |
| 37       | MU12607  | PLATE,BACKUP,HINGE,LF & RR     | 2.000 | St        |        |
| 38       | MU12608  | PLATE,BACKUP,HINGE,LR & RF     | 2.000 | St        |        |
| 39       | MU12685  | BRACKET,HEAT SHIELD,REAR       | 1.000 | St        |        |
| 40       | MU05563  | BASE,SCREW,1/4-20 PN           | 2.000 | St        |        |

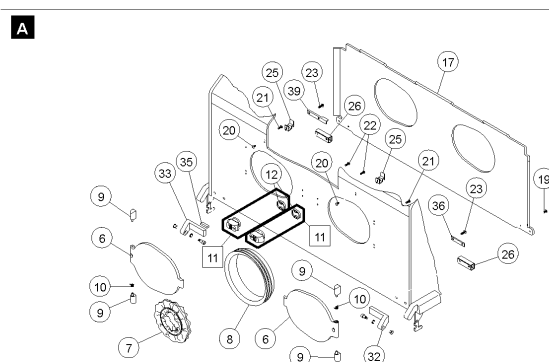
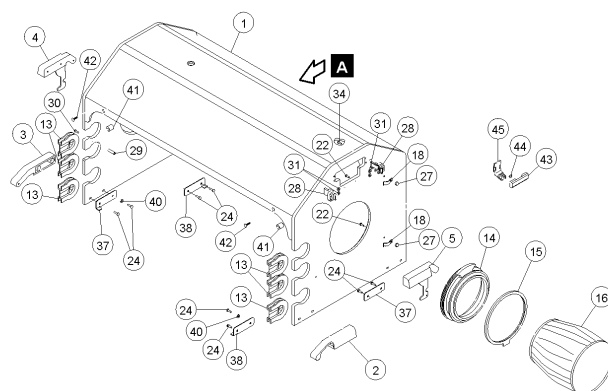


fig5-006mx46496-01

| Item No. | Part No. | Description                   | Qty.  | Qty.u nit | Remark |
|----------|----------|-------------------------------|-------|-----------|--------|
| 41       | MU12716  | SPACER,6-32ID .31OD .38L ACTL | 2.000 | St        |        |
| 42       | MU15129  | SCR,6-32X7/16,FL PH SS        | 2.000 | St        |        |
| 43       | MU12667  | PLATE,COVER,SLIDE FIXTURE     | 1.000 | St        |        |
| 44       | MU12669  | WASHER,CRV SPR MOD-SLIDE LOCK | 1.000 | St        |        |
| 45       | MU12670  | SLIDE LOCK,SENSOR MODULE      | 1.000 | St        |        |

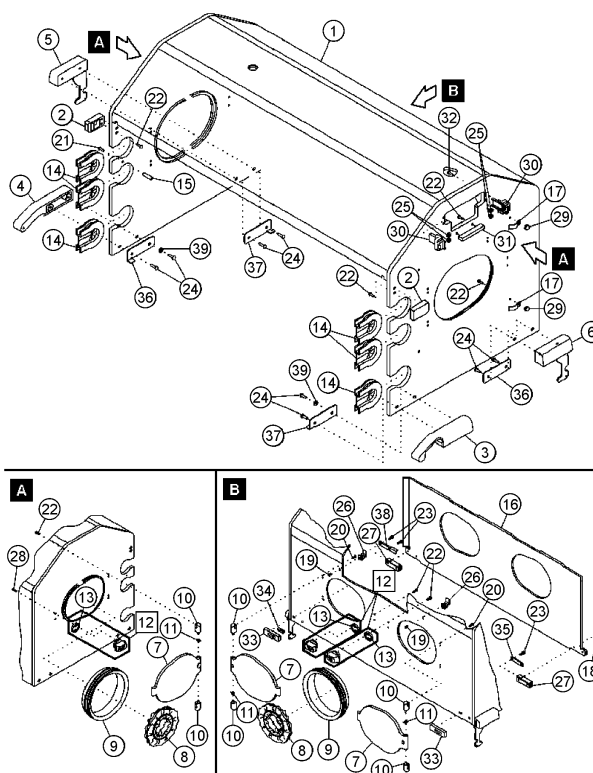


fig5-011mx46497-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark              |
|----------|----------|--------------------------------|-------|-----------|---------------------|
| 2        | MU12604  | KEEPER,ACCESS PANEL LATCH      | 2.000 | St        |                     |
| 3        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR | 1.000 | St        |                     |
| 4        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR  | 1.000 | St        |                     |
| 5        | MU13452  | REPL KIT,L.REAR HINGE/BACKET   | 1.000 | St        |                     |
| 6        | MU13451  | REPL KIT,R.REAR HINGE/BRKT,LKG | 1.000 | St        |                     |
| 7        | MU12677  | DOOR,ACCESS                    | 4.000 | St        |                     |
| 8        | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100 | 1.000 | St        | wahlweise/optional; |
| 8        | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10 | 1.000 | St        | wahlweise/optional; |
| 9        | MU12679  | GASKET,ACCESS DOOR             | 2.000 | St        |                     |
| 10       | MU08163  | PIVOT,HINGE,ACCESS DOOR        | 4.000 | St        |                     |
| 11       | MU08164  | SPRING,TRSN,,27OD .030W .365LG | 2.000 | St        |                     |
| 12       | MU13393  | REPL KIT,ACCESS DOOR LATCH     | 2.000 | St        |                     |
| 13       | MU12687  | LATCH MOUNT,ACCESS DOOR        | 2.000 | St        |                     |
| 14       | MU12609  | GROMMET,ACCESS                 | 6.000 | St        |                     |

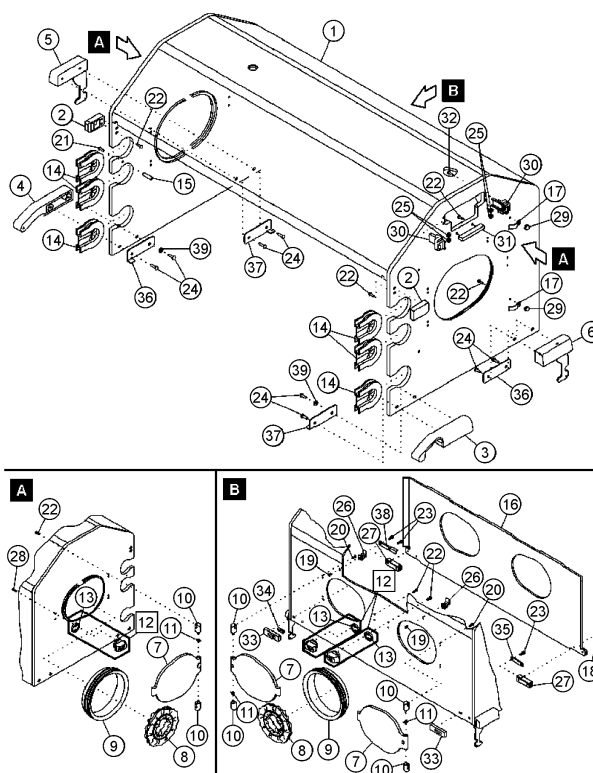


fig5-011mx46497-01

| Item No. | Part No. | Description                    | Qty.   | Qty.u nit | Remark |
|----------|----------|--------------------------------|--------|-----------|--------|
| 15       | MU07188  | STANDOFF,6-32ID .38OD .44L ACT | 2.000  | St        |        |
| 16       | MU12256  | HEAT SHIELD,ACCESS PANEL,HIGH  | 1.000  | St        |        |
| 17       | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID   | 2.000  | St        |        |
| 19       | MU15401  | SCR,SLFTPG,8X3/8 PN PH SZ,48-2 | 2.000  | St        |        |
| 20       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 1.800  | St        |        |
| 21       | MU15141  | SCR,6-32X9/16 TR PH SS         | 1.000  | St        |        |
| 22       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 16.000 | St        |        |
| 23       | MU15248  | SCR,10-32X5/8 TR PH SS NYLOK   | 4.000  | St        |        |
| 24       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP  | 8.000  | St        |        |
| 25       | MU15417  | NUT,HEX,6-32 SS                | 4.000  | St        |        |
| 26       | MU12681  | LATCH,HEAT SHIELD              | 2.000  | St        |        |
| 27       | MU12682  | HINGE,HEAT SHIELD              | 2.000  | St        |        |
| 29       | MU15421  | NUT,ACORN,6-32 AL              | 2.000  | St        |        |
| 30       | MU12626  | SLIDE ASSY,SENSOR MODULE       | 2.000  | St        |        |

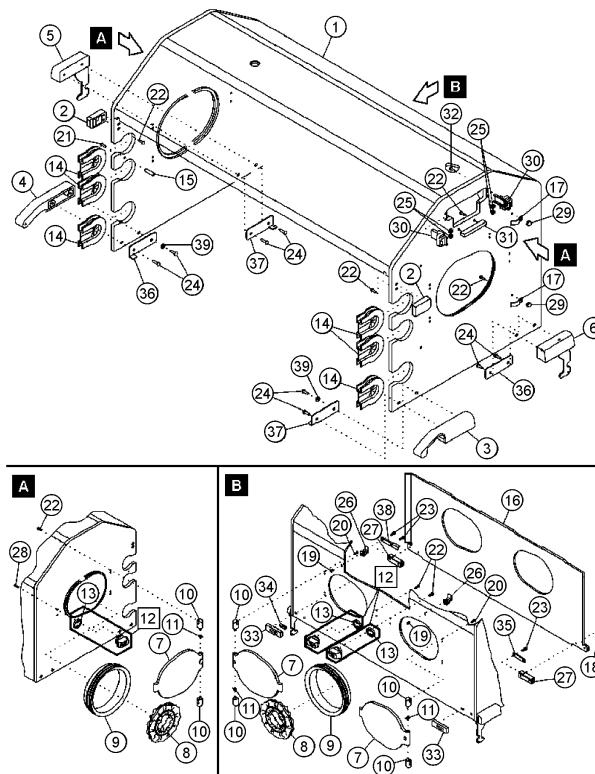


fig5-011mx46497-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 31       | MU12622  | PLATE,COVER,NO CAL. FIXT.      | 1.000 | St        |        |
| 32       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK    | 4.000 | St        |        |
| 33       | MU12479  | PLATE,HINGE & MAGNET           | 2.000 | St        |        |
| 34       | MU12697  | MAGNET, .25SQ 1.00LG ALNICO    | 1.000 | St        |        |
| 35       | MU12676  | PLATE,BACKUP,HINGE,HEAT SHIELD | 1.000 | St        |        |
| 36       | MU12607  | PLATE,BACKUP,HINGE,LF & RR     | 2.000 | St        |        |
| 37       | MU12608  | PLATE,BACKUP,HINGE,LR & RF     | 2.000 | St        |        |
| 38       | MU12685  | BRACKET,HEAT SHIELD,REAR       | 1.000 | St        |        |
| 39       | MU05563  | BASE,SCREW,1/4-20 PN           | 2.000 | St        |        |

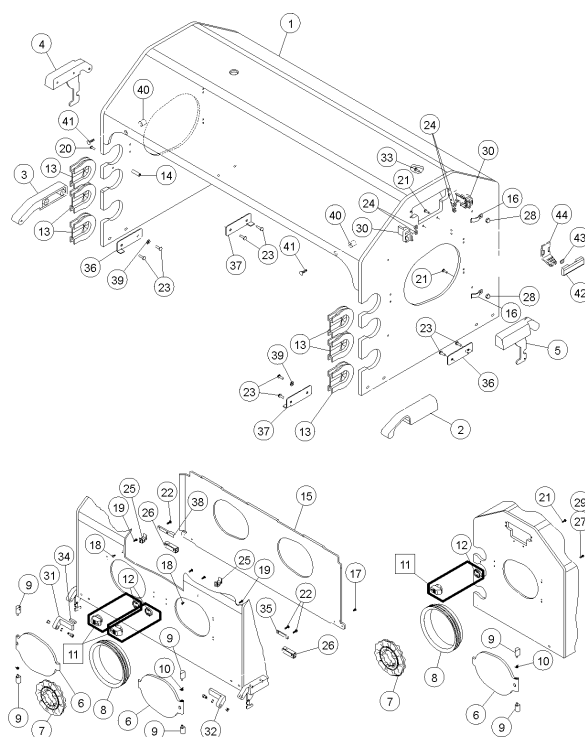


fig5-012mx46468-01

| Item No. | Part No. | Description                     | Qty.  | Qty. unit | Remark              |
|----------|----------|---------------------------------|-------|-----------|---------------------|
| 2        | MU12600  | HINGE,HOOD/ACCESS PNL,RIGHT FR  | 1.000 | St        |                     |
| 3        | MU12601  | HINGE,HOOD/ACCESS PNL,LEFT FR   | 1.000 | St        |                     |
| 4        | MU12602  | HINGE,HOOD/ACS PNL,LEFT REAR    | 1.000 | St        |                     |
| 5        | MU12603  | HINGE,HOOD/ACS PNL,RIGHT REAR   | 1.000 | St        |                     |
| 6        | MU12677  | DOOR,ACCESS                     | 4.000 | St        |                     |
| 7        | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100  | 1.000 | St        | wahlweise/optional; |
| 7        | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10  | 1.000 | St        | wahlweise/optional; |
| 8        | MU12679  | GASKET,ACCESS DOOR              | 2.000 | St        |                     |
| 9        | MU08163  | PIVOT,HINGE,ACCESS DOOR         | 4.000 | St        |                     |
| 10       | MU08164  | SPRING,TRSN, .27OD .030W .365LG | 2.000 | St        |                     |
| 11       | MU13393  | REPL KIT,ACCESS DOOR LATCH      | 2.000 | St        |                     |
| 12       | MU12687  | LATCH MOUNT,ACCESS DOOR         | 2.000 | St        |                     |
| 13       | MU12609  | GROMMET,ACCESS                  | 6.000 | St        |                     |
| 14       | MU07188  | STANDOFF,6-32ID .38OD .44L ACT  | 2.000 | St        |                     |

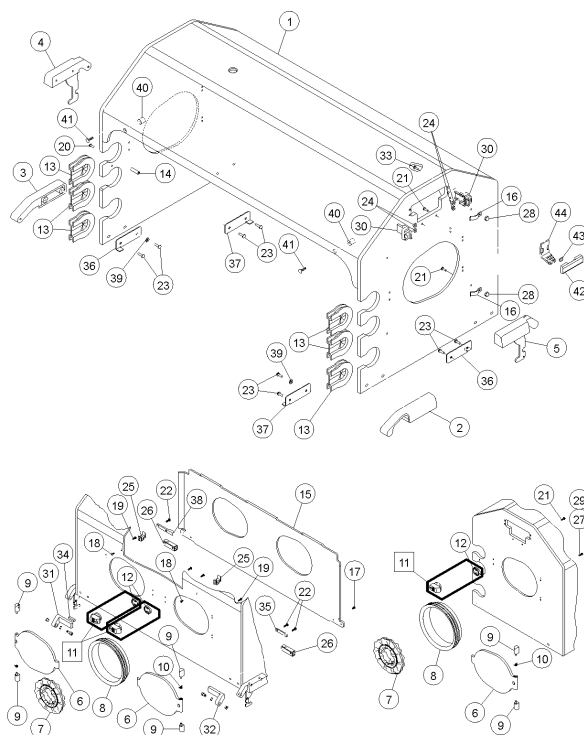


fig5-012mx46498-01

| Item No. | Part No. | Description                    | Qty.   | Qty. unit | Remark |
|----------|----------|--------------------------------|--------|-----------|--------|
| 15       | MU12258  | REPL HEAT SHIELD,ACS PNL,PAWL  | 1.000  | St        |        |
| 16       | MU11061  | CLAMP,CABLE,SPR TY,NYL .38ID   | 2.000  | St        |        |
| 17       | MU15401  | SCR,SLFTPG,8X3/8 PN PH SZ,48-2 | 4.000  | St        |        |
| 18       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 2.000  | St        |        |
| 19       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 8.000  | St        |        |
| 20       | MU15141  | SCR,6-32X9/16 TR PH SS         | 1.000  | St        |        |
| 21       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 16.000 | St        |        |
| 22       | MU15248  | SCR,10-32X5/8 TR PH SS NYLOK   | 4.000  | St        |        |
| 23       | MU15254  | SCR,10-32X3/4 TR PH SS,NY STP  | 8.000  | St        |        |
| 24       | MU15417  | NUT,HEX,6-32 SS                | 4.000  | St        |        |
| 25       | MU12681  | LATCH,HEAT SHIELD              | 2.000  | St        |        |
| 26       | MU12682  | HINGE,HEAT SHIELD              | 2.000  | St        |        |
| 28       | MU15421  | NUT,ACORN,6-32 AL              | 2.000  | St        |        |
| 29       | MU15525  | WSHR,FL,.150ID .31OD .06T NYL  | 4.000  | St        |        |

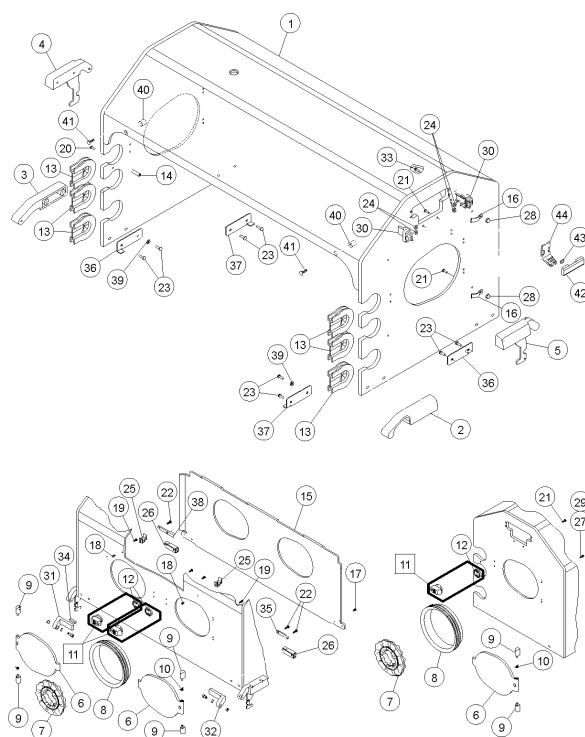


fig5-012mx46468-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 30       | MU12626  | SLIDE ASSY,SENSOR MODULE       | 2.000 | St        |        |
| 31       | MU12699  | HINGE,ACCESS PANEL,RIGHT REAR  | 1.000 | St        |        |
| 32       | MU12698  | HINGE,ACCESS PANEL,LEFT REAR   | 1.000 | St        |        |
| 33       | MU15147  | SCR,6-32X5/8 PN PH SS NYLOK    | 4.000 | St        |        |
| 34       | MU12697  | MAGNET,.25SQ 1.00LG ALNICO     | 1.000 | St        |        |
| 35       | MU12676  | PLATE,BACKUP,HINGE,HEAT SHIELD | 1.000 | St        |        |
| 36       | MU12607  | PLATE,BACKUP,HINGE,LF & RR     | 2.000 | St        |        |
| 37       | MU12608  | PLATE,BACKUP,HINGE,LR & RF     | 2.000 | St        |        |
| 38       | MU12685  | BRACKET,HEAT SHIELD,REAR       | 1.000 | St        |        |
| 39       | MU05563  | BASE,SCREW,1/4-20 PN           | 2.000 | St        |        |
| 40       | MU12716  | SPACER,6-32ID .31OD .38L ACTL  | 2.000 | St        |        |
| 41       | MU15129  | SCR,6-32X7/16,FL PH SS         | 2.000 | St        |        |
| 42       | MU12667  | PLATE,COVER,SLIDE FIXTURE      | 1.000 | St        |        |
| 43       | MU12669  | WASHER,CRV SPR MOD-SLIDE LOCK  | 1.000 | St        |        |

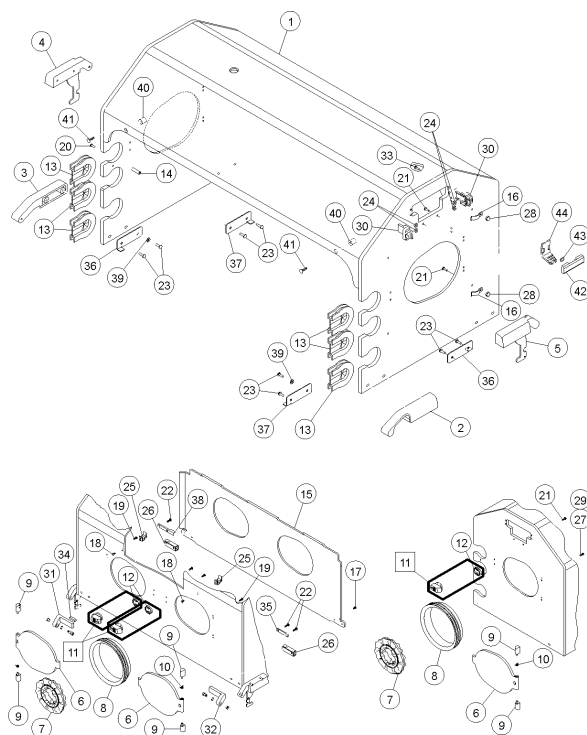


fig5-012mx46498-01

| Item No. | Part No. | Description              | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------|-------|-----------|--------|
| 44       | MU12670  | SLIDE LOCK,SENSOR MODULE | 1.000 | St        |        |

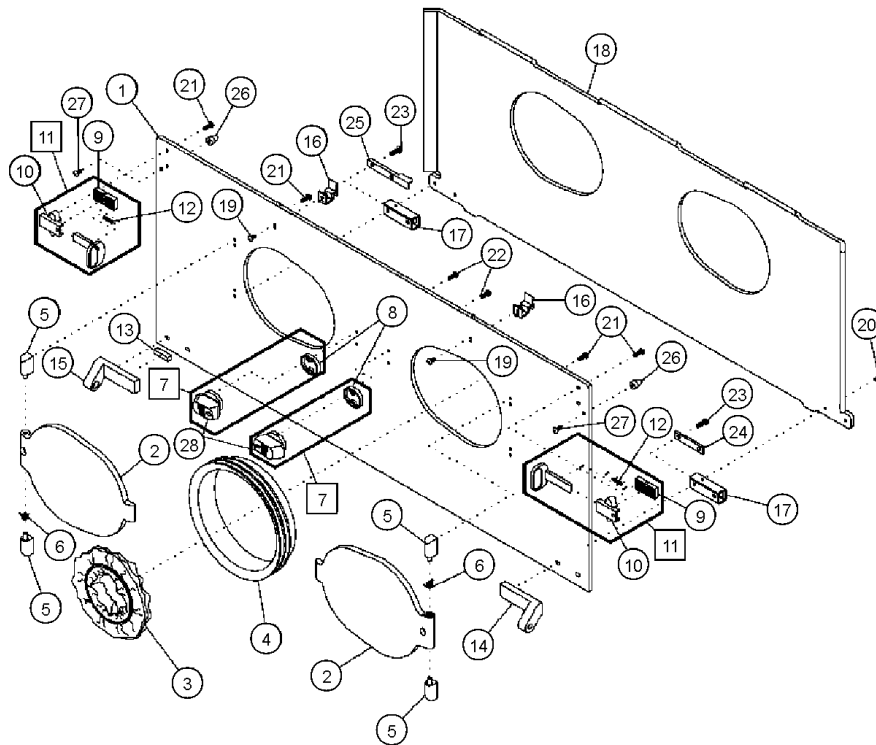


fig5-013mx46499-01

| Item No. | Part No. | Description                     | Qty.  | Qty. unit | Remark              |
|----------|----------|---------------------------------|-------|-----------|---------------------|
| 1        | MU12673  | ACCESS PANEL,HIGH               | 1.000 | St        |                     |
| 2        | MU12677  | DOOR,ACCESS                     | 2.000 | St        |                     |
| 3        | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100  | 1.000 | St        | wahlweise/optional; |
| 3        | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10  | 1.000 | St        | wahlweise/optional; |
| 4        | MU12679  | GASKET,ACCESS DOOR              | 2.000 | St        |                     |
| 5        | MU08163  | PIVOT,HINGE,ACCESS DOOR         | 4.000 | St        |                     |
| 6        | MU08164  | SPRING,TRSN, .27OD .030W .365LG | 2.000 | St        |                     |
| 7        | MU13393  | REPL KIT,ACCESS DOOR LATCH      | 2.000 | St        |                     |
| 8        | MU12687  | LATCH MOUNT,ACCESS DOOR         | 2.000 | St        |                     |
| 9        | MU12691  | LOWER BODY,ACCESS PANEL LATCH   | 2.000 | St        |                     |
| 10       | MU12690  | UPPER BODY,ACCESS PANEL LATCH   | 2.000 | St        |                     |
| 11       | MU13392  | REPL KIT,ACCESS PANEL LATCH     | 2.000 | St        |                     |
| 12       | MU12693  | SPRING,CPRS, .18OD .014W 1.50LG | 2.000 | St        |                     |
| 13       | MU12697  | MAGNET, .25SQ 1.00LG ALNICO     | 1.000 | St        |                     |

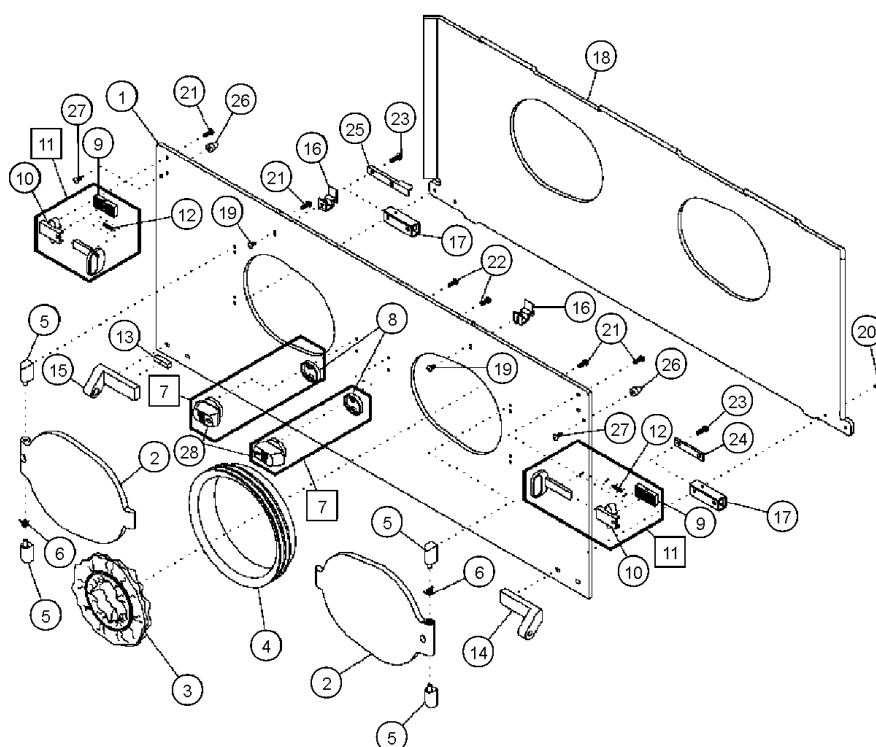


fig5-013mx46499-01

| Item No. | Part No. | Description                    | Qty.   | Qty.u nit | Remark |
|----------|----------|--------------------------------|--------|-----------|--------|
| 14       | MU12694  | HINGE,ACCESS PANEL,RIGHT FRONT | 1.000  | St        |        |
| 15       | MU12695  | HINGE,ACCESS PANEL,LEFT FRONT  | 1.000  | St        |        |
| 16       | MU12681  | LATCH,HEAT SHIELD              | 2.000  | St        |        |
| 17       | MU12682  | HINGE,HEAT SHIELD              | 2.000  | St        |        |
| 18       | MU12256  | HEAT SHIELD,ACCESS PANEL,HIGH  | 1.000  | St        |        |
| 19       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 2.000  | St        |        |
| 20       | MU15393  | SCR,SLFTPG,                    | 4.000  | St        |        |
| 21       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 12.000 | St        |        |
| 22       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 4.000  | St        |        |
| 23       | MU15248  | SCR,10-32X5/8 TR PH SS NYLOK   | 4.000  | St        |        |
| 24       | MU12676  | PLATE,BACKUP,HINGE,HEAT SHIELD | 1.000  | St        |        |
| 25       | MU12684  | BRACKET,HEAT SHIELD,FRONT      | 1.000  | St        |        |
| 26       | MU12717  | SPACER,6-32ID .31OD .50L ACTL  | 2.000  | St        |        |
| 27       | MU15130  | SCR,6-32X7/16 TR PH SS         | 2.000  | St        |        |

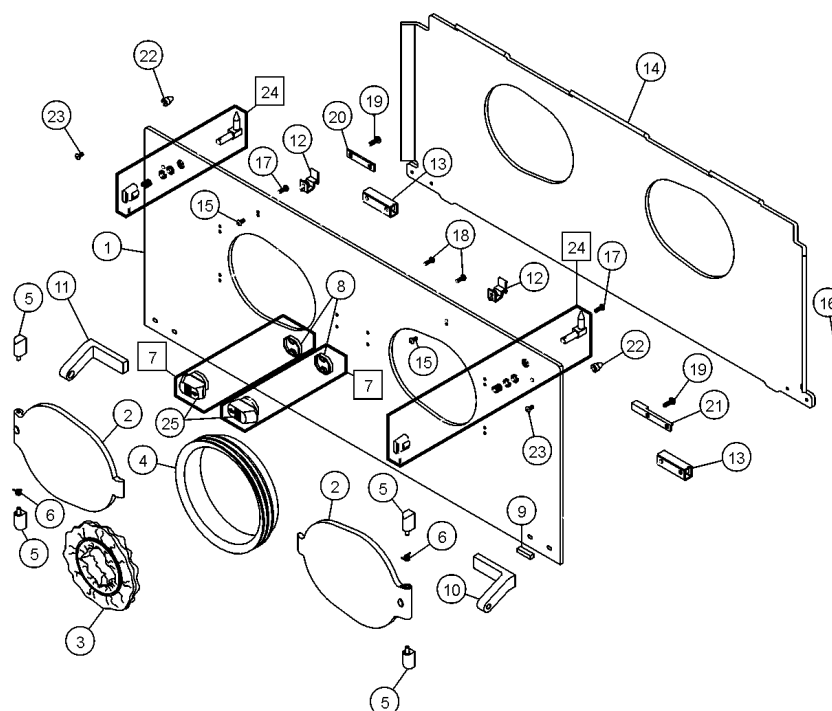


fig5-014mx46500-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark              |
|----------|----------|--------------------------------|-------|-----------|---------------------|
| 1        | MU12673  | ACCESS PANEL,HIGH              | 1.000 | St        |                     |
| 2        | MU12677  | DOOR,ACCESS                    | 2.000 | St        |                     |
| 3        | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100 | 1.000 | St        | wahlweise/optional; |
| 3        | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10 | 1.000 | St        | wahlweise/optional; |
| 4        | MU12679  | GASKET,ACCESS DOOR             | 2.000 | St        |                     |
| 5        | MU08163  | PIVOT,HINGE,ACCESS DOOR        | 4.000 | St        |                     |
| 6        | MU08164  | SPRING,TRSN,.27OD .030W .365LG | 2.000 | St        |                     |
| 7        | MU13393  | REPL KIT,ACCESS DOOR LATCH     | 2.000 | St        |                     |
| 8        | MU12687  | LATCH MOUNT,ACCESS DOOR        | 2.000 | St        |                     |
| 9        | MU12697  | MAGNET,.25SQ 1.00LG ALNICO     | 1.000 | St        |                     |
| 10       | MU12694  | HINGE,ACCESS PANEL,RIGHT FRONT | 1.000 | St        |                     |
| 11       | MU12695  | HINGE,ACCESS PANEL,LEFT FRONT  | 1.000 | St        |                     |
| 12       | MU12681  | LATCH,HEAT SHIELD              | 2.000 | St        |                     |
| 13       | MU12682  | HINGE,HEAT SHIELD              | 2.000 | St        |                     |

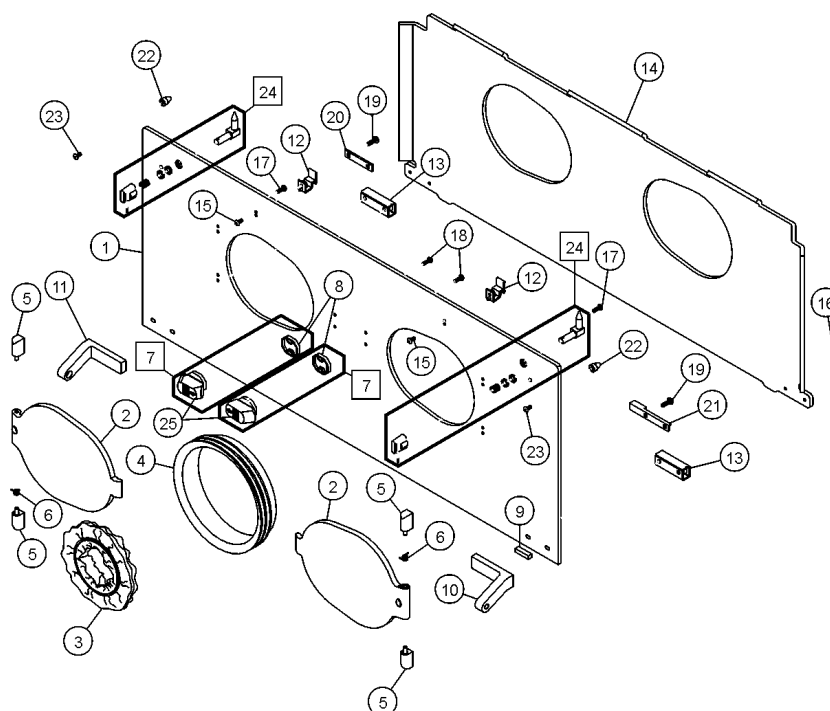


fig5-014mx46500-01

| Item No. | Part No. | Description                    | Qty.  | Qty. u nit | Remark |
|----------|----------|--------------------------------|-------|------------|--------|
| 14       | MU12256  | HEAT SHIELD,ACCESS PANEL,HIGH  | 1.000 | St         |        |
| 15       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 2.000 | St         |        |
| 16       | MU15401  | SCR,SLFTPG,8X3/8 PN PH SZ,48-2 | 4.000 | St         |        |
| 17       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 8.000 | St         |        |
| 18       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 4.000 | St         |        |
| 19       | MU15248  | SCR,10-32X5/8 TR PH SS NYLOK   | 4.000 | St         |        |
| 20       | MU12676  | PLATE,BACKUP,HINGE,HEAT SHIELD | 1.000 | St         |        |
| 21       | MU12684  | BRACKET,HEAT SHIELD,FRONT      | 1.000 | St         |        |
| 22       | MU12717  | SPACER,6-32ID .31OD .50L ACTL  | 2.000 | St         |        |
| 23       | MU15130  | SCR,6-32X7/16 TR PH SS         | 2.000 | St         |        |
| 24       | MU08534  | KNOB & LATCH REPL KIT,ACS PNL  | 2.000 | St         |        |

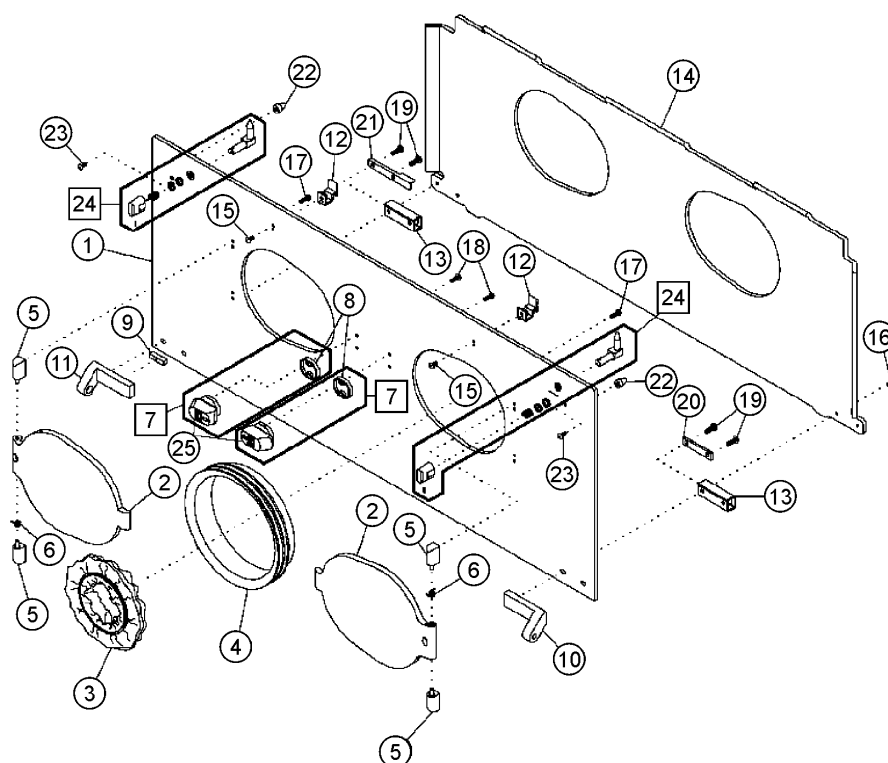


fig5-015mx46501-01

| Item No. | Part No. | Description                     | Qty.  | Qty. unit | Remark              |
|----------|----------|---------------------------------|-------|-----------|---------------------|
| 1        | MU12673  | ACCESS PANEL,HIGH               | 1.000 | St        |                     |
| 2        | MU12677  | DOOR,ACCESS                     | 2.000 | St        |                     |
| 3        | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100  | 1.000 | St        | wahlweise/optional; |
| 3        | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10  | 1.000 | St        | wahlweise/optional; |
| 4        | MU12679  | GASKET,ACCESS DOOR              | 2.000 | St        |                     |
| 5        | MU08163  | PIVOT,HINGE,ACCESS DOOR         | 4.000 | St        |                     |
| 6        | MU08164  | SPRING,TRSN, .27OD .030W .365LG | 2.000 | St        |                     |
| 7        | MU13393  | REPL KIT,ACCESS DOOR LATCH      | 2.000 | St        |                     |
| 8        | MU12687  | LATCH MOUNT,ACCESS DOOR         | 2.000 | St        |                     |
| 9        | MU12691  | LOWER BODY,ACCESS PANEL LATCH   | 2.000 | St        |                     |
| 10       | MU12690  | UPPER BODY,ACCESS PANEL LATCH   | 2.000 | St        |                     |
| 11       | MU13392  | REPL KIT,ACCESS PANEL LATCH     | 2.000 | St        |                     |
| 12       | MU12693  | SPRING,CPRS, .18OD .014W 1.50LG | 2.000 | St        |                     |
| 13       | MU12697  | MAGNET, .25SQ 1.00LG ALNICO     | 1.000 | St        |                     |

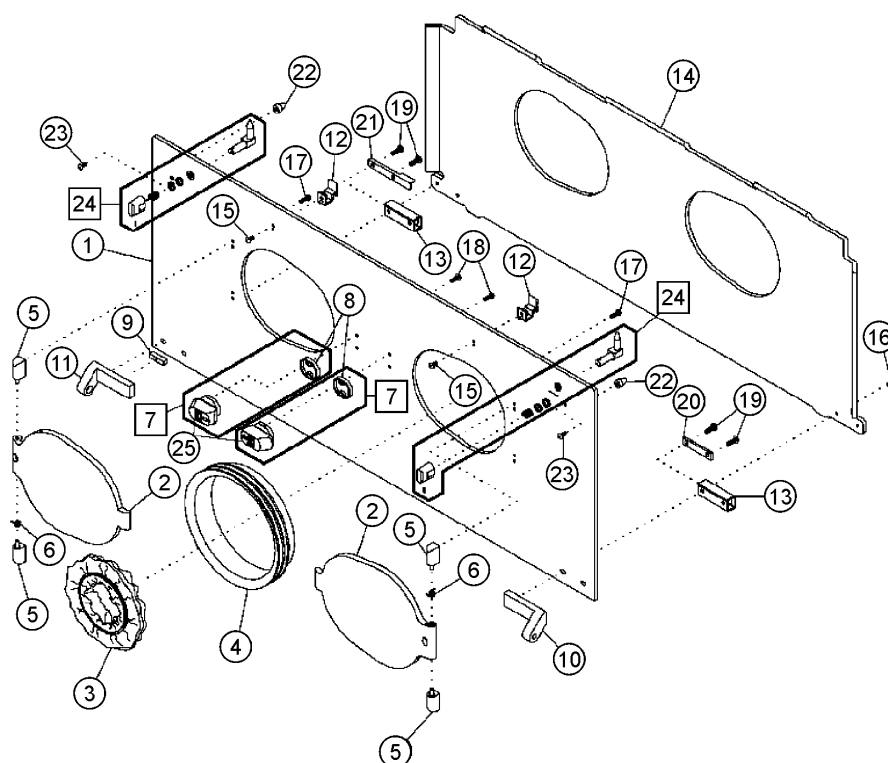


fig5-015mx46501-01

| Item No. | Part No. | Description                    | Qty.   | Qty. unit | Remark                         |
|----------|----------|--------------------------------|--------|-----------|--------------------------------|
| 14       | MU12698  | HINGE,ACCESS PANEL,LEFT REAR   | 1.000  | St        |                                |
| 15       | MU12699  | HINGE,ACCESS PANEL,RIGHT REAR  | 1.000  | St        |                                |
| 16       | MU12681  | LATCH,HEAT SHIELD              | 2.000  | St        |                                |
| 17       | MU12682  | HINGE,HEAT SHIELD              | 2.000  | St        |                                |
| 18       | MU12256  | HEAT SHIELD,ACCESS PANEL,HIGH  | 1.000  | St        |                                |
| 19       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 2.000  | St        |                                |
| 20       | MU15401  | SCR,SLFTPG,8X3/8 PN PH SZ,48-2 | 4.000  | St        |                                |
| 21       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 12.000 | St        |                                |
| 22       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 4.000  | St        |                                |
| 23       | MU15248  | SCR,10-32X5/8 TR PH SS NYLOK   | 4.000  | St        |                                |
| 24       | MU12676  | PLATE,BACKUP,HINGE,HEAT SHIELD | 1.000  | St        |                                |
| 25       | MU12685  | BRACKET,HEAT SHIELD,REAR       | 1.000  | St        |                                |
| 26       | MU12717  | SPACER,6-32ID .31OD .50L ACTL  | 2.000  | St        | ohne Abbildung/item not shown; |
| 27       | MU15130  | SCR,6-32X7/16 TR PH SS         | 2.000  | St        | ohne Abbildung/item not shown; |

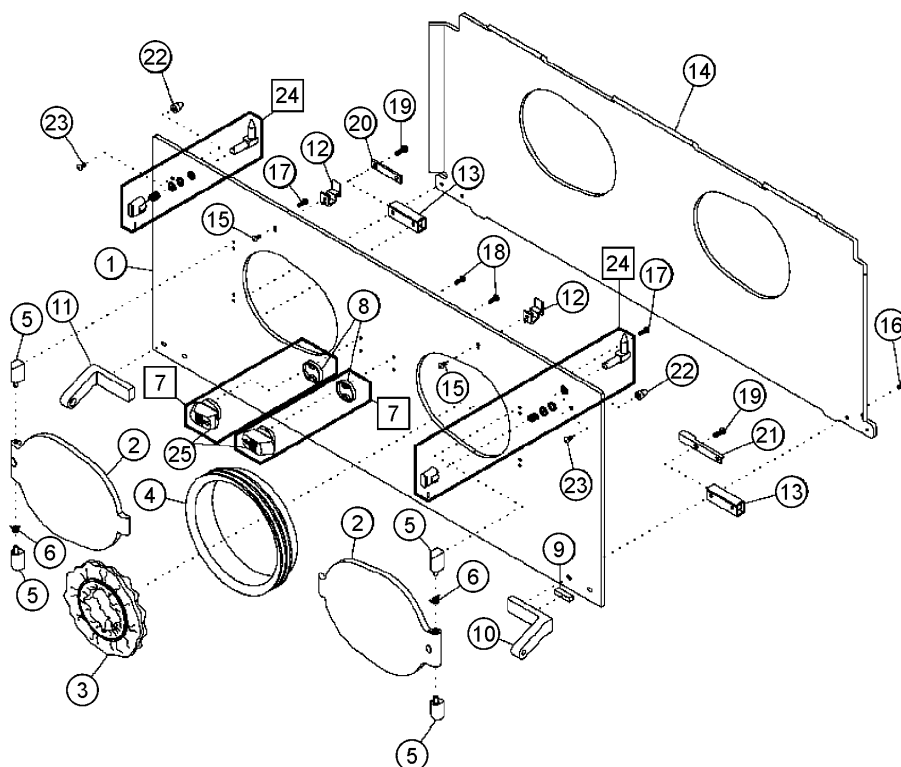


fig5-016mx46502-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark              |
|----------|----------|--------------------------------|-------|-----------|---------------------|
| 1        | MU12715  | REPL ACCESS PANEL,HIGH         | 1.000 | St        |                     |
| 2        | MU12677  | DOOR,ACCESS                    | 2.000 | St        |                     |
| 3        | MU12683  | ACS DOOR CUFF,DISP,REPL,BX/100 | 1.000 | St        | wahlweise/optional; |
| 3        | MU12702  | CUFF,ACS DOOR,REUSE,ISO,BOX/10 | 1.000 | St        | wahlweise/optional; |
| 4        | MU12679  | GASKET,ACCESS DOOR             | 2.000 | St        |                     |
| 5        | MU08163  | PIVOT,HINGE,ACCESS DOOR        | 4.000 | St        |                     |
| 6        | MU08164  | SPRING,TRSN,.27OD .030W .365LG | 2.000 | St        |                     |
| 7        | MU13393  | REPL KIT,ACCESS DOOR LATCH     | 2.000 | St        |                     |
| 8        | MU12687  | LATCH MOUNT,ACCESS DOOR        | 2.000 | St        |                     |
| 9        | MU12697  | MAGNET,.25SQ 1.00LG ALNICO     | 1.000 | St        |                     |
| 10       | MU12698  | HINGE,ACCESS PANEL,LEFT REAR   | 1.000 | St        |                     |
| 11       | MU12699  | HINGE,ACCESS PANEL,RIGHT REAR  | 1.000 | St        |                     |
| 12       | MU12681  | LATCH,HEAT SHIELD              | 2.000 | St        |                     |
| 13       | MU12682  | HINGE,HEAT SHIELD              | 2.000 | St        |                     |

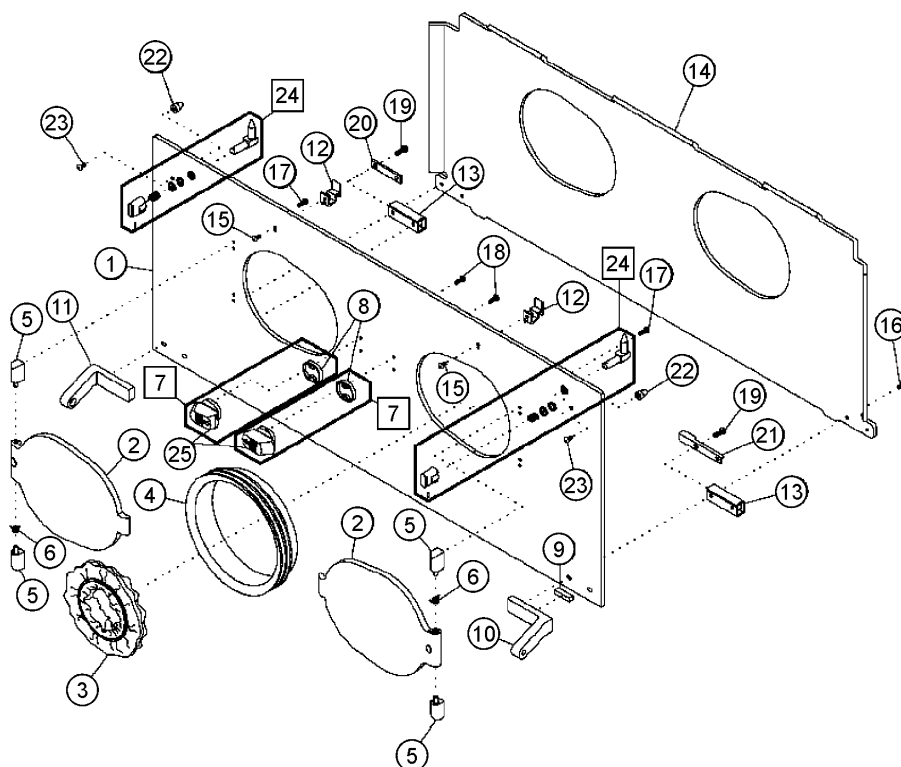


fig5-016mx46502-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 14       | MU12258  | REPL HEAT SHIELD,ACS PNL,PAWL  | 1.000 | St        |        |
| 15       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 2.000 | St        |        |
| 16       | MU15401  | SCR,SLFTPG,8X3/8 PN PH SZ,48-2 | 4.000 | St        |        |
| 17       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 8.000 | St        |        |
| 18       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 4.000 | St        |        |
| 19       | MU15248  | SCR,10-32X5/8 TR PH SS NYLOK   | 4.000 | St        |        |
| 20       | MU12676  | PLATE,BACKUP,HINGE,HEAT SHIELD | 1.000 | St        |        |
| 21       | MU12685  | BRACKET,HEAT SHIELD,REAR       | 1.000 | St        |        |
| 22       | MU12717  | SPACER,6-32ID .31OD .50L ACTL  | 2.000 | St        |        |
| 23       | MU15130  | SCR,6-32X7/16 TR PH SS         | 2.000 | St        |        |
| 24       | MU08534  | KNOB & LATCH REPL KIT,ACS PNL  | 2.000 | St        |        |

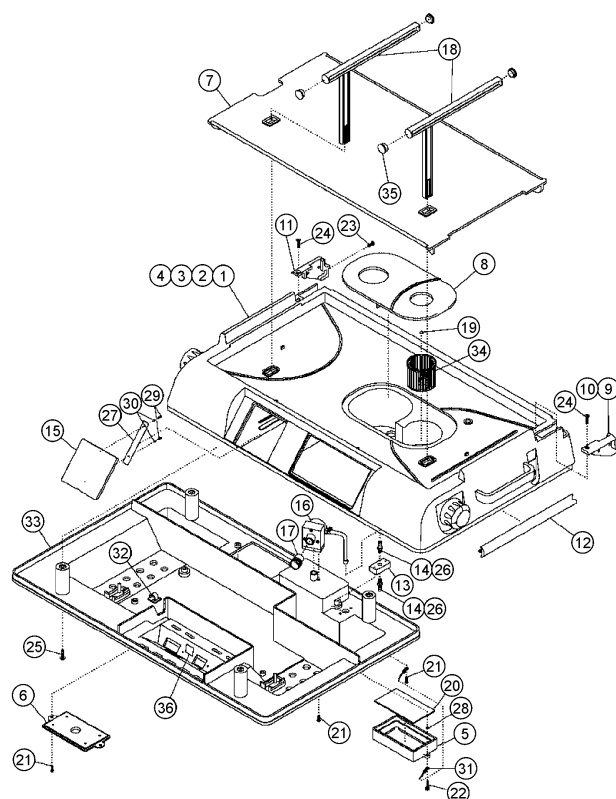


fig-017m46504-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 1        | MU13385  | REPL KIT,SHELL TOP,ENG         | 1.000 | St        |        |
| 3        | MU13387  | REPL KIT,SHELL TOP,FRN         | 1.000 | St        |        |
| 4        | MU13388  | REPL KIT,SHELL TOP,GER         | 1.000 | St        |        |
| 5        | MU12448  | DOOR,ACCESS,FILTER             | 1.000 | St        |        |
| 6        | MU12449  | DOOR,ACCESS,PNEUMATIC MODULE   | 1.000 | St        |        |
| 7        | MU12443  | DECK,ISOLETTE                  | 1.000 | St        |        |
| 8        | MU13396  | REPL KIT,SCROLL COVER,ISOLETTE | 1.000 | St        |        |
| 9        | MU12453  | BRACKET,PIVOT,RIGHT            | 1.000 | St        |        |
| 10       | MU12539  | BRACKET,PIVOT/HOOD LOCK ASSY   | 1.000 | St        |        |
| 11       | MU12454  | BRACKET,PIVOT,LEFT,PAINTED     | 1.000 | St        |        |
| 12       | MU12459  | EXTRUSION,BUMPER               | 1.000 | St        |        |
| 13       | MU12463  | MANIFOLD,OXYGEN                | 1.000 | St        |        |
| 14       | MU01647  | CONN,BARB,1/4HOSE X 1/8NPT(M)  | 2.000 | St        |        |
| 15       | MU12475  | DOOR,HUMIDITY COVER            | 1.000 | St        |        |

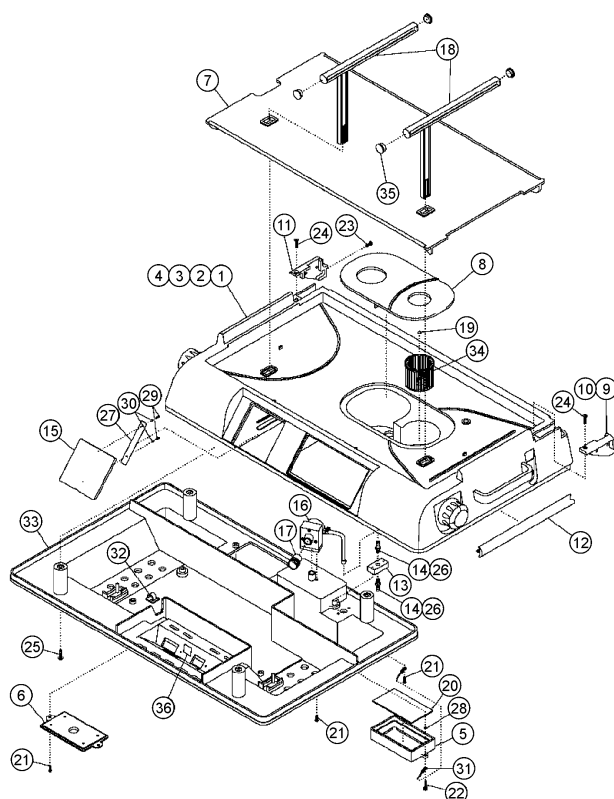


fig-017m46504-01

| Item No. | Part No. | Description                      | Qty.  | Qty. unit | Remark                                  |
|----------|----------|----------------------------------|-------|-----------|-----------------------------------------|
| 16       | MU13399  | REPL KIT,CHECK VALVE ASSEMBLY    | 1.000 | St        |                                         |
| 17       | MU12460  | HOSE,CORR,22MM ID X 12.00 LG     | 1.000 | St        |                                         |
| 18       | MU13395  | LIFT BAR KIT,ISOLETTE            | 2.000 | St        |                                         |
| 19       | MU03732  | CLAMP,HOSE (FOR 3/8 OD)          | 1.000 | St        |                                         |
| 20       | MU12504  | FILTER,REPL,ISOLETTE,BOX/ 4      | 1.000 | St        |                                         |
| 21       | MU15197  | SCR,8-32X5/8, TR PH SS NYLOK     | 6.000 | St        |                                         |
| 22       | MU12485  | SCREW,PNL,8-32 X .875 LG SS      | 2.000 | St        |                                         |
| 23       | MU15238  | SCR,10-32X1/2 TR PH SS NYLOK     | 2.000 | St        |                                         |
| 24       | MU15241  | SCR,10-32X1/2 PN PH SS NYLOK     | 2.000 | St        |                                         |
| 25       | MU15296  | SCR,1/4-20X1/2 TR PH S ZI NYLK   | 4.000 | St        |                                         |
| 26       | MU15740  | "TAPE,PIPE JNT SEAL,TEFLON,.50"" | 1.000 | St        | Menge nach Bedarf/Quantity as required; |
| 27       | MU12476  | SPRING,FORMED,HUMIDITY DOOR      | 1.000 | St        |                                         |
| 29       | MU15105  | SCR,6-32X1/4 PN PH SS,SEMS EX    | 2.000 | St        |                                         |
| 30       | MU15525  | WSHR,FL.,.150ID .31OD .06T NYL   | 2.000 | St        |                                         |

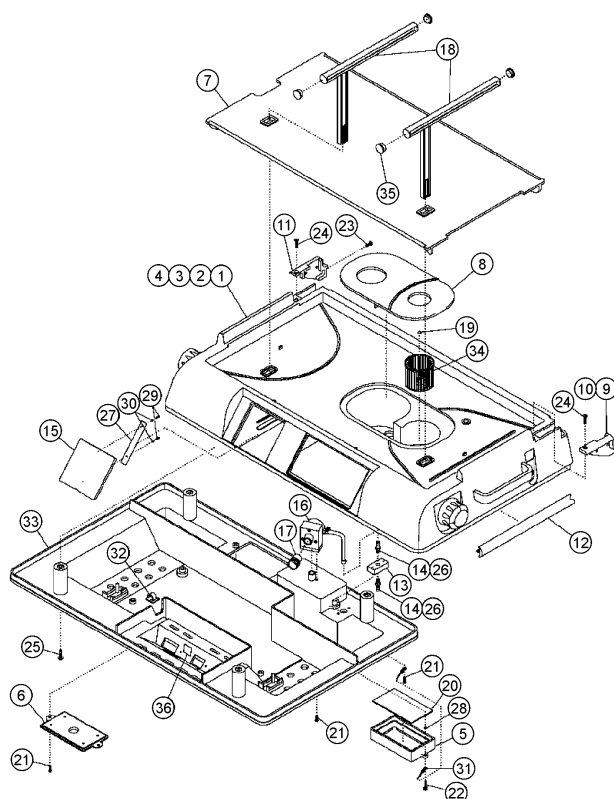


fig-017m46504-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 31       | MU12493  | BEAD CHAIN ASSY                | 1.000 | St        |        |
| 32       | MU03409  | CLIP,CORD RETAINING            | 1.000 | St        |        |
| 33       | MU12442  | SHELL,BOTTOM                   | 1.000 | St        |        |
| 34       | MU12543  | IMPELLER ASSY                  | 1.000 | St        |        |
| 35       | MU12564  | CAP,TUBING,1.00 OD,WHITE ABS   | 4.000 | St        |        |
| 36       | MU06965  | LABEL,GROUND SYMBOL,FUNCTIONAL | 1.000 | St        |        |

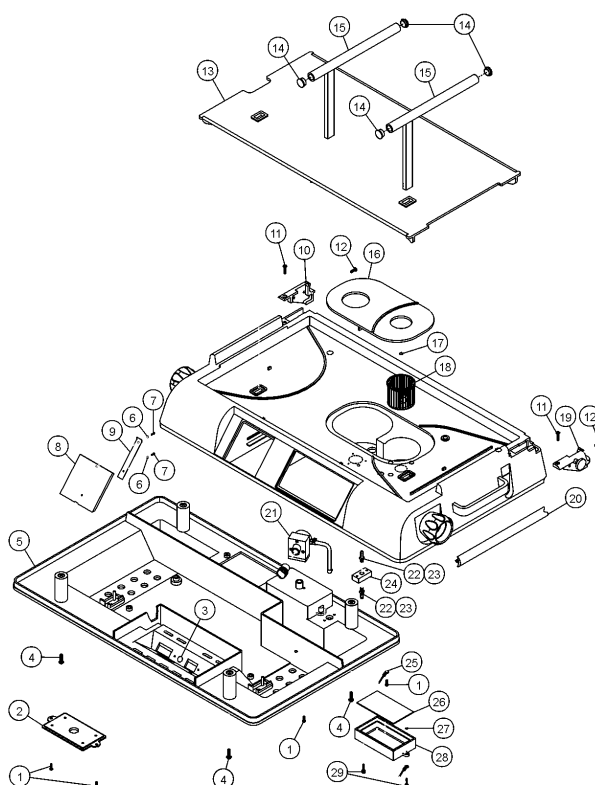


fig5-019mx46505-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 1        | MU15197  | SCR,8-32X5/8, TR PH SS NYLOK   | 5.000 | St        |        |
| 2        | MU12449  | DOOR,ACCESS,PNEUMATIC MODULE   | 1.000 | St        |        |
| 3        | MU06965  | LABEL,GROUND SYMBOL,FUNCTIONAL | 1.000 | St        |        |
| 4        | MU15296  | SCR,1/4-20X1/2 TR PH S ZI NYLK | 4.000 | St        |        |
| 5        | MU12442  | SHELL,BOTTOM                   | 1.000 | St        |        |
| 6        | MU15525  | WSHR,FL,.150ID .31OD .06T NYL  | 2.000 | St        |        |
| 7        | MU15105  | SCR,6-32X1/4 PN PH SS,SEMS EX  | 2.000 | St        |        |
| 8        | MU12475  | DOOR,HUMIDITY COVER            | 1.000 | St        |        |
| 9        | MU12476  | SPRING,FORMED,HUMIDITY DOOR    | 1.000 | St        |        |
| 10       | MU12454  | BRACKET,PIVOT,LEFT,PAINTED     | 1.000 | St        |        |
| 11       | MU15241  | SCR,10-32X1/2 PN PH SS NYLOK   | 2.000 | St        |        |
| 12       | MU15238  | SCR,10-32X1/2 TR PH SS NYLOK   | 2.000 | St        |        |
| 13       | MU12443  | DECK,ISOLETTE                  | 1.000 | St        |        |
| 14       | MU12564  | CAP,TUBING,1.00 OD,WHITE ABS   | 4.000 | St        |        |

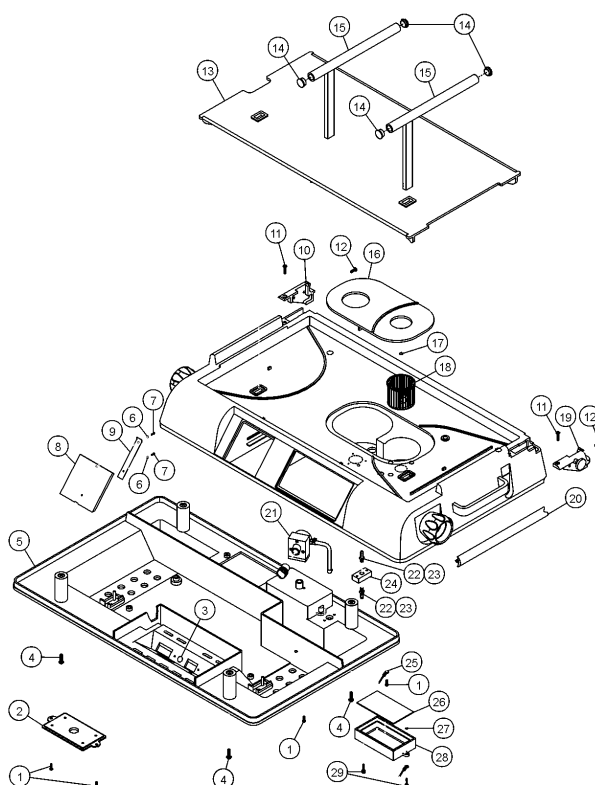


fig5-019mx46505-01

| Item No. | Part No. | Description                      | Qty.  | Qty. unit | Remark                                  |
|----------|----------|----------------------------------|-------|-----------|-----------------------------------------|
| 15       | MU13395  | LIFT BAR KIT,ISOLETTE            | 1.000 | St        |                                         |
| 16       | MU12444  | COVER,SCROLL                     | 1.000 | St        |                                         |
| 17       | MU03732  | CLAMP,HOSE (FOR 3/8 OD)          | 1.000 | St        |                                         |
| 18       | MU12543  | IMPELLER ASSY                    | 1.000 | St        |                                         |
| 19       | MU12539  | BRACKET,PIVOT/HOOD LOCK ASSY     | 1.000 | St        |                                         |
| 20       | MU12459  | EXTRUSION,BUMPER                 | 2.000 | St        |                                         |
| 21       | MU13399  | REPL KIT,CHECK VALVE ASSEMBLY    | 1.000 | St        |                                         |
| 22       | MU01647  | CONN,BARB,1/4HOSE X 1/8NPT(M)    | 1.000 | St        |                                         |
| 23       | MU15740  | "TAPE,PIPE JNT SEAL,TEFLON,.50"" | 1.000 | St        | Menge nach Bedarf/Quantity as required; |
| 24       | MU12463  | MANIFOLD,OXYGEN                  | 1.000 | St        |                                         |
| 25       | MU12493  | BEAD CHAIN ASSY                  | 1.000 | St        |                                         |
| 26       | MU12504  | FILTER,REPL,ISOLETTE,BOX/ 4      | 1.000 | St        |                                         |
| 28       | MU12448  | DOOR,ACCESS,FILTER               | 1.000 | St        |                                         |
| 29       | MU12485  | SCREW,PNL,8-32 X .875 LG SS      | 2.000 | St        |                                         |

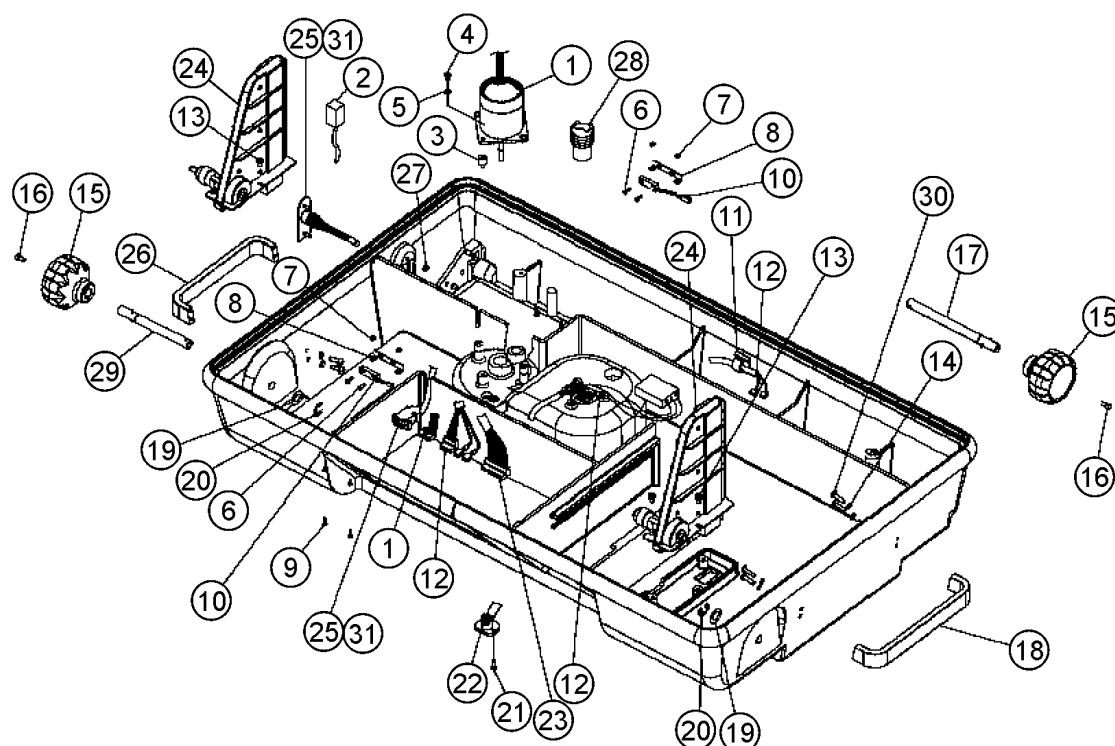


fig5-018mx46506-02-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 2,22     | MU12541  | PROBE,IMPELLER MOVEMENT DETECT | 1.000 | St        |        |
| 4        | MU15174  | SCR,8-32X5/16 TR PH SS         | 4.000 | St        |        |
| 5        | MU15553  | WSHR,LK,INT,                   | 4.000 | St        |        |
| 6        | MU15086  | SCR,4-40X7/16,TR PH SS         | 4.000 | St        |        |
| 7        | MU15411  | NUT,HEX,4-40 KEPS S ZI         | 4.000 | St        |        |
| 10       | MU03319  | SWITCH,SPST,NC,MAGNETIC REED   | 2.000 | St        |        |
| 11       | MU03409  | CLIP,CORD RETAINING            | 1.000 | St        |        |
| 12       | MU12488  | WIRING HARNESS ASSEMBLY,AC     | 1.000 | St        |        |
| 13       | MU15222  | SCR,10-32X5/16 PN PH S ZI NYLK | 6.000 | St        |        |
| 14       | MU15567  | WSHR,LK,EXT,                   | 8.000 | St        |        |
| 15       | MU12568  | KNOB,MATTRESS TILT             | 2.000 | St        |        |
| 16       | MU15186  | SCR,8-32X3/8 CP SK SS NYLOK    | 1.000 | St        |        |
| 17       | MU12569  | SHAFT,KNOB                     | 2.000 | St        |        |
| 18       | MU12450  | HANDLE,LEFT                    | 1.000 | St        |        |

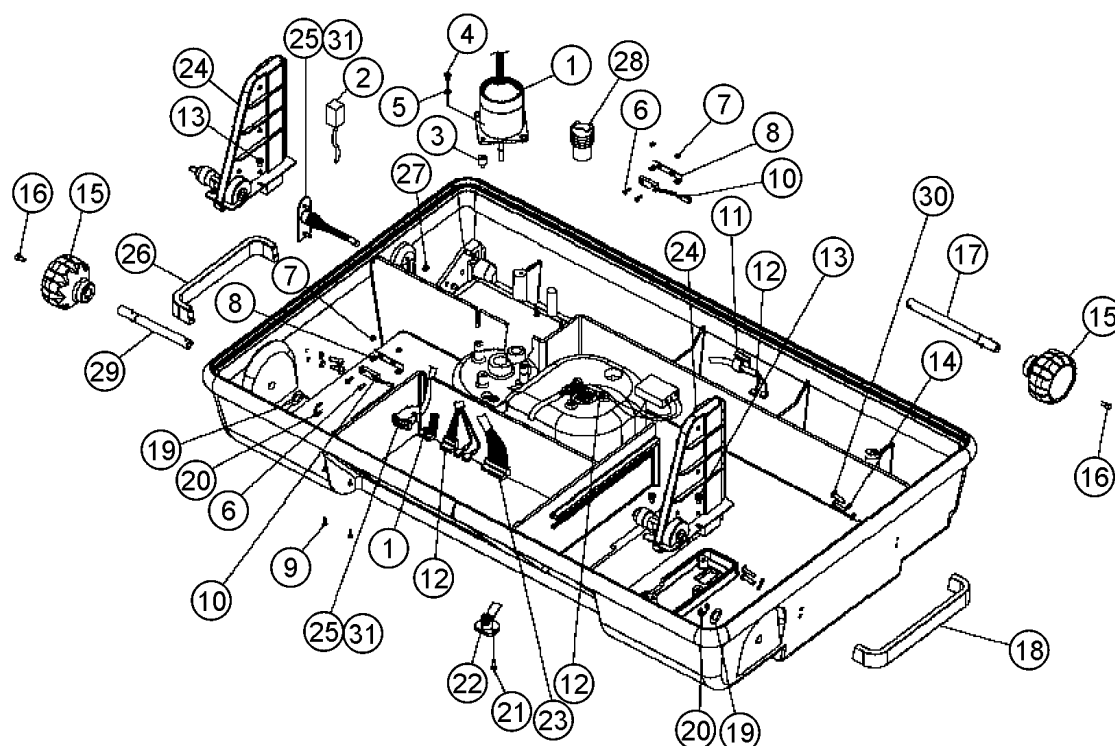


fig5-018mx46506-02-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 19       | MU15635  | WSHR,FL,.516ID .88OD .010T NYL | 2.000 | St        |        |
| 20       | MU15715  | RING,RTNG,EXT"E",SS            | 2.000 | St        |        |
| 21       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 1.000 | St        |        |
| 23       | MU12482  | CABLE ASSY,AC HARNESS TO CONTR | 1.000 | St        |        |
| 24       | MU13406  | RETRO KIT,TILT MECHANISM       | 2.000 | St        |        |
| 25       | MU12483  | CABLE ASSY,SENSOR MDL TO CONTR | 1.000 | St        |        |
| 26       | MU12451  | HANDLE,RIGHT                   | 1.000 | St        |        |
| 27       | MU15422  | NUT,HEX,6-32 KEPS S ZI         | 2.000 | St        |        |
| 28       | MU12460  | HOSE,CORR,22MM ID X 12.00 LG   | 1.000 | St        |        |
| 29       | MU12571  | SHAFT,KNOB,RH                  | 1.000 | St        |        |
| 30       | MU15250  | SCR,10-32X3/4 TR PH SS         | 8.000 | St        |        |
| 31       | MU03069  | FERRITE SUPPRESSOR,.280 ID     | 1.000 | St        |        |

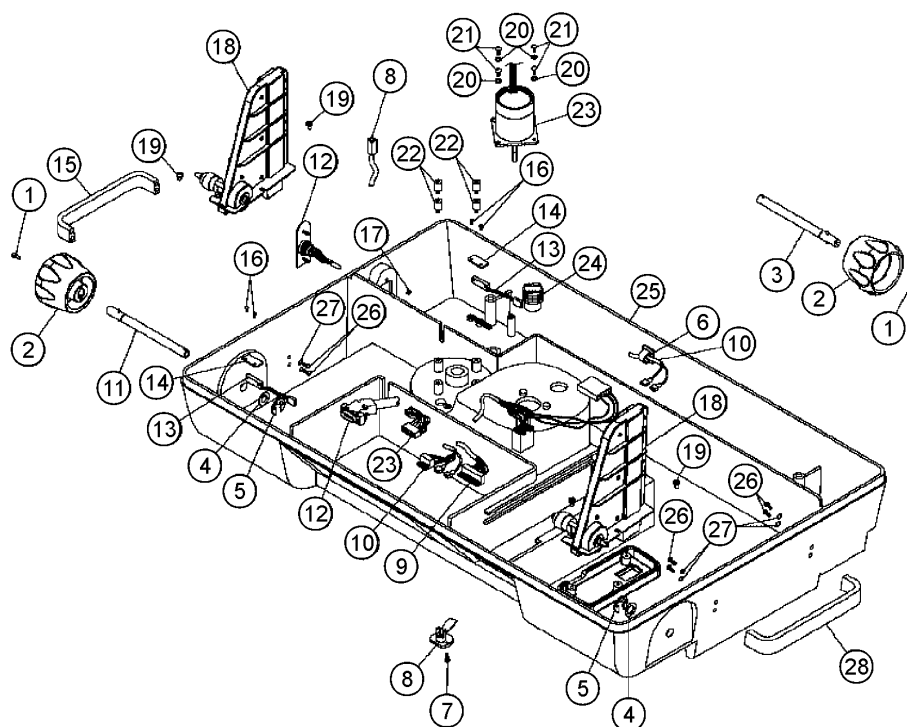


fig5-020mx46507-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 1        | MU15186  | SCR,8-32X3/8 CP SK SS NYLOK    | 2.000 | St        |        |
| 2        | MU12568  | KNOB,MATTRESS TILT             | 2.000 | St        |        |
| 3        | MU12569  | SHAFT,KNOB                     | 2.000 | St        |        |
| 4        | MU15635  | WSHR,FL,.516ID .88OD .010T NYL | 2.000 | St        |        |
| 5        | MU15715  | RING,RTNG,EXT"E",SS            | 2.000 | St        |        |
| 6        | MU03409  | CLIP,CORD RETAINING            | 1.000 | St        |        |
| 7        | MU15137  | SCR,6-32X1/2, FL PH SS         | 1.000 | St        |        |
| 8        | MU12541  | PROBE,IMPELLER MOVEMENT DETECT | 1.000 | St        |        |
| 9        | MU12482  | CABLE ASSY,AC HARNESS TO CONTR | 1.000 | St        |        |
| 10       | MU12488  | WIRING HARNESS ASSEMBLY,AC     | 1.000 | St        |        |
| 11       | MU12571  | SHAFT,KNOB,RH                  | 1.000 | St        |        |
| 12       | MU12483  | CABLE ASSY,SENSOR MDL TO CONTR | 1.000 | St        |        |
| 13       | MU03319  | SWITCH,SPST,NC,MAGNETIC REED   | 2.000 | St        |        |
| 15       | MU12451  | HANDLE,RIGHT                   | 1.000 | St        |        |

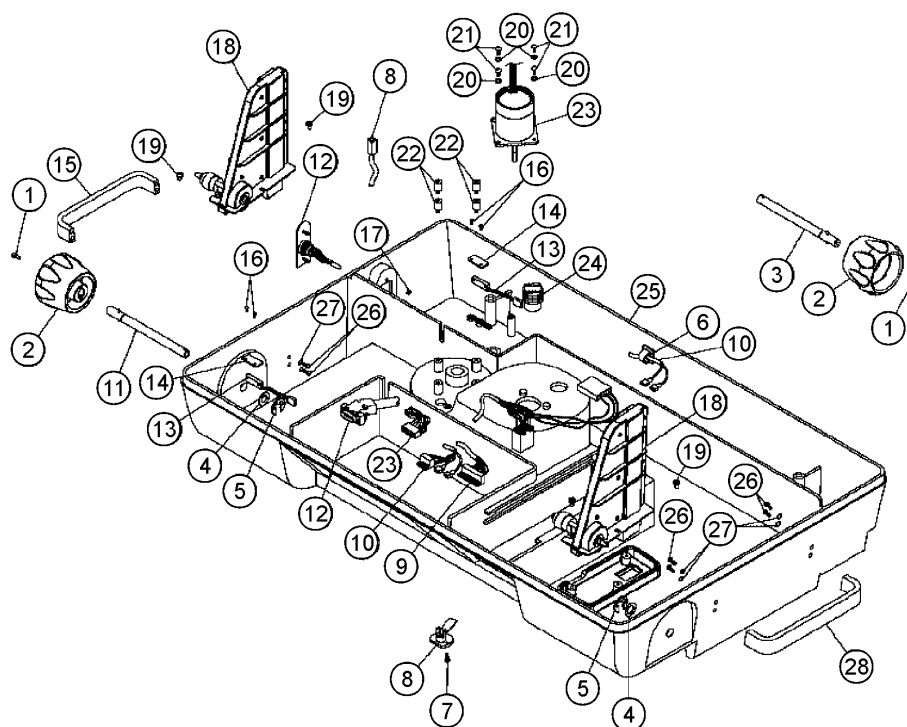


fig5-020mx46507-01

| Item No. | Part No. | Description                     | Qty.  | Qty. unit | Remark |
|----------|----------|---------------------------------|-------|-----------|--------|
| 17       | MU15422  | NUT, HEX, 6-32 KEPS S ZI        | 2.000 | St        |        |
| 18       | MU13406  | RETRO KIT, TILT MECHANISM       | 2.000 | St        |        |
| 19       | MU15222  | SCR, 10-32X5/16 PN PH S ZI NYLK | 6.000 | St        |        |
| 20       | MU15553  | WSHR, LK, INT,                  | 4.000 | St        |        |
| 21       | MU15174  | SCR, 8-32X5/16 TR PH SS         | 4.000 | St        |        |
| 22       | MU07138  | ISOLATOR, VIB., .44OD .44LG 4LB | 4.000 | St        |        |
| 24       | MU12460  | HOSE, CORR, 22MM ID X 12.00 LG  | 1.000 | St        |        |
| 26       | MU15250  | SCR, 10-32X3/4 TR PH SS         | 1.000 | St        |        |
| 27       | MU15567  | WSHR, LK, EXT,                  | 1.000 | St        |        |
| 28       | MU12450  | HANDLE, LEFT                    | 8.000 | St        |        |

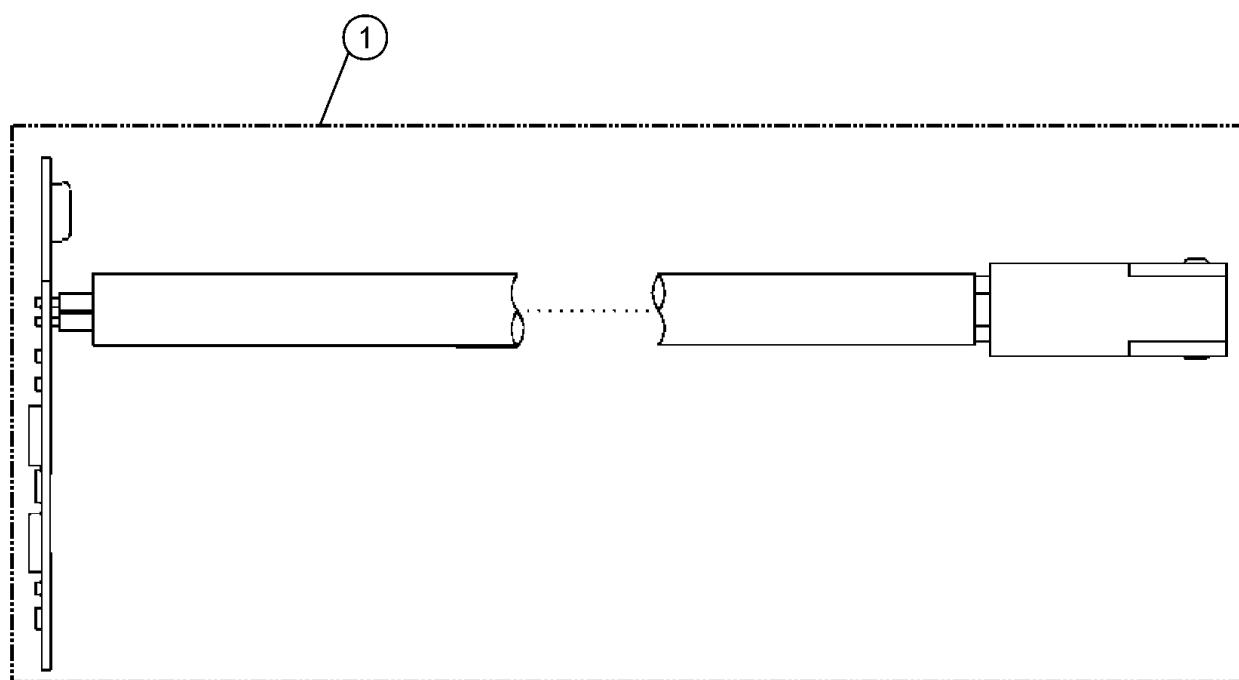


fig5-021mx46508-02-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 1        | MU12541  | PROBE,IMPELLER MOVEMENT DETECT | 1.000 | St        |        |

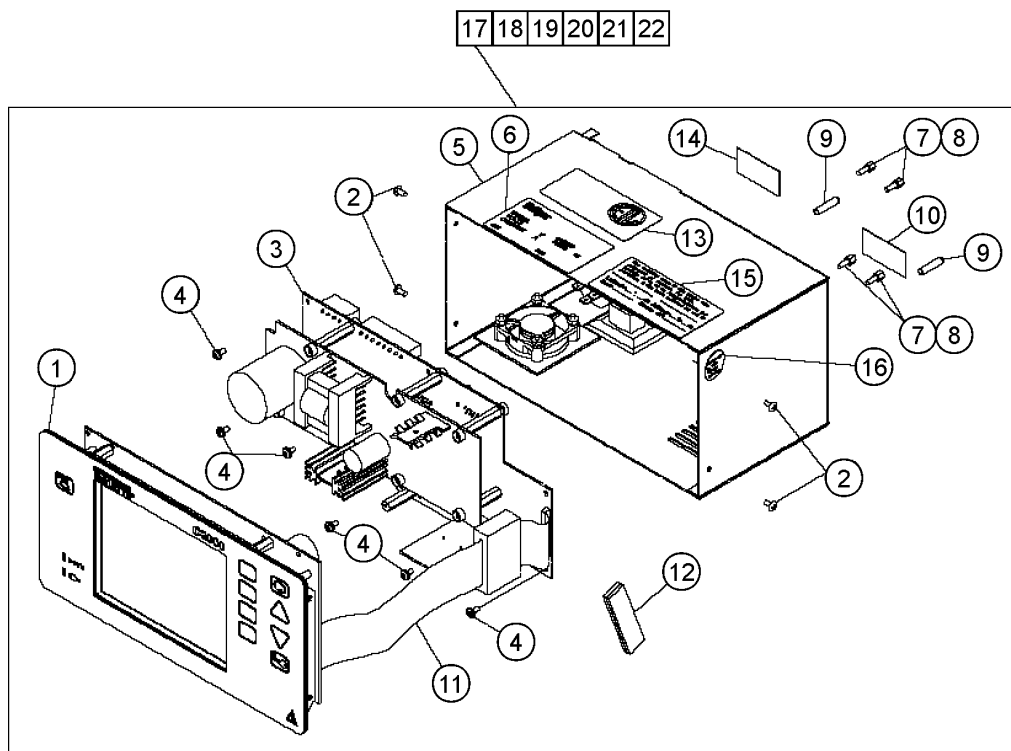


fig5-022mx46509-02-01

| Item No. | Part No. | Description                | Qty.  | Qty.u nit | Remark |
|----------|----------|----------------------------|-------|-----------|--------|
| 17,19    | MU16972  | CONTROLLER ASSEMBLY        | 1.000 | St        |        |
| 18,20    | MU16974  | CONTROLLER ASSEMBLY C2000e | 1.000 | St        |        |

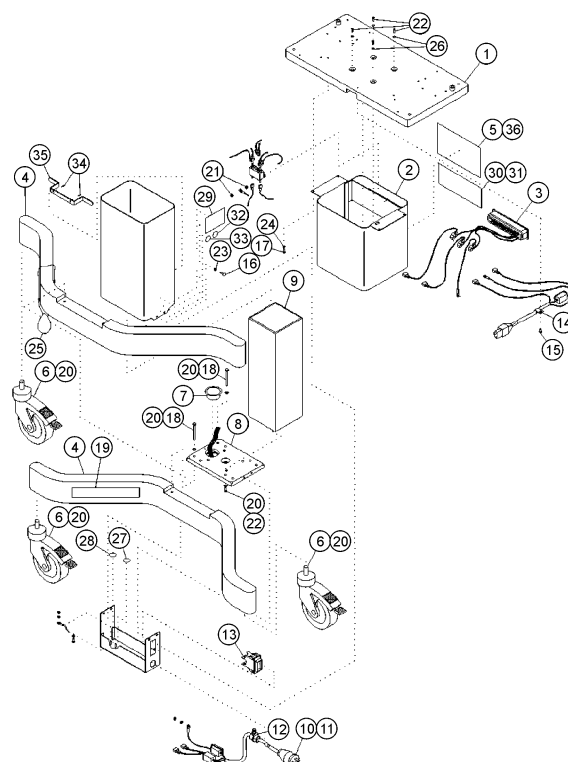


fig 5-027/mv48515-01

| Item No. | Part No. | Description                     | Qty.  | Qty. unit | Remark                                  |
|----------|----------|---------------------------------|-------|-----------|-----------------------------------------|
| 4        | MU12746  | LEG,BASE,MACHINED               | 2.000 | St        |                                         |
| 6        | MU12751  | CASTER,SWIVEL,5.00 DIA,W/BK     | 4.000 | St        |                                         |
| 7        | MU09737  | BUSHING,SHLDR,PLSTC,1.25ID      | 1.000 | St        |                                         |
| 10       | MU02502  | CABLE ASSY,AC PWR CORD,GRA,15A  | 1.000 | St        |                                         |
| 11       | MU02504  | CABLE ASSY,AC PWR,VDE, GRA, 15A | 1.000 | St        |                                         |
| 12       | MU03529  | STRAIN RLF,STR,ADJ UP TO .400D  | 1.000 | St        |                                         |
| 13       | MU02609  | CKT BRKR,DPST/SF 15.0A 250/28V  | 1.000 | St        |                                         |
| 14       | MU02892  | CLAMP,CABLE,LOOP TY,NYL,.25ID   | 1.000 | St        |                                         |
| 15       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK     | 1.000 | St        |                                         |
| 16       | MU15185  | SCR,8-32X3/8 TR PH SS NYLOK     | 4.000 | St        |                                         |
| 20       | MU15779  | LOCTITE                         | 0.000 | St        | Menge nach Bedarf/Quantity as required; |
| 21       | MU15422  | NUT,HEX,6-32 KEPS S ZI          | 6.000 | St        |                                         |
| 23       | MU15554  | WSHR,LK,EXT,                    | 4.000 | St        |                                         |
| 24       | MU15567  | WSHR,LK,EXT,                    | 4.000 | St        |                                         |

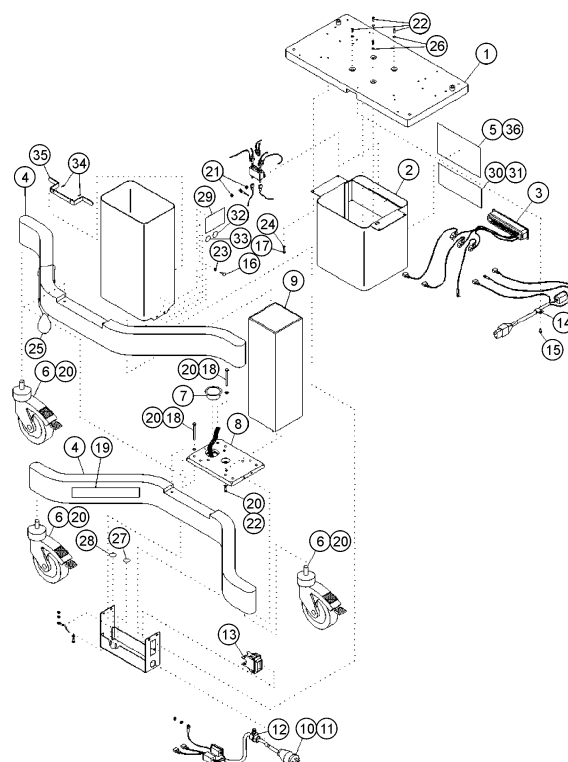
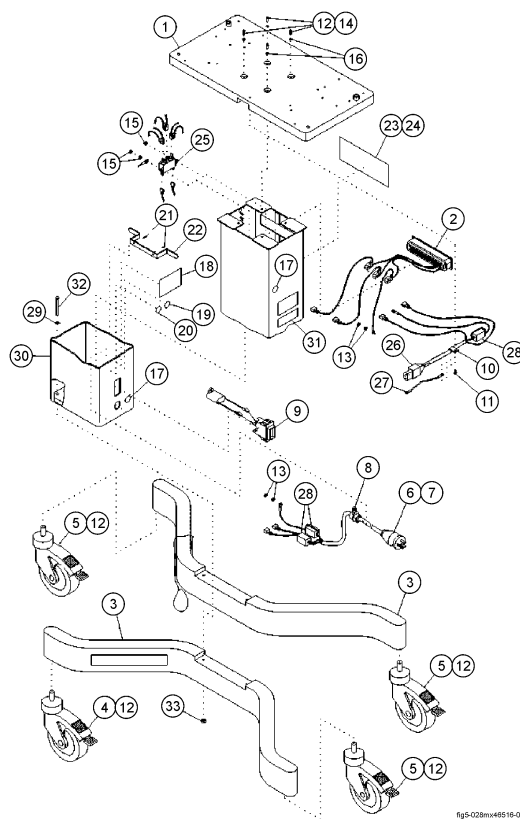


fig5-027mm48515-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 26       | MU15587  | WSHR,LK,INT,1/4 SS             | 4.000 | St        |        |
| 27       | MU06964  | LABEL,GROUND SYMBOL,PROTECTIVE | 1.000 | St        |        |
| 28       | MU06965  | LABEL,GROUND SYMBOL,FUNCTIONAL | 1.000 | St        |        |
| 33       | MU06845  | LABEL,MANUAL REFERENCE SYMBOL  | 1.000 | St        |        |
| 34       | MU15113  | SCR,6-32X5/16 TR PH SS NYLOK   | 2.000 | St        |        |
| 35       | MU12758  | CLEAT,POWER CORD               | 1.000 | St        |        |



| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 1        | MU12805  | PLATE,UPPER TRANSITION,MACH    | 1.000 | St        |                                         |
| 3        | MU12746  | LEG,BASE,MACHINED              | 2.000 | St        |                                         |
| 4        | MU12761  | CASTER,SWVL,4.92 DIA,DIR LK    | 1.000 | St        |                                         |
| 5        | MU12762  | CASTER,SWVL,4.92 DIA,TOTAL LK  | 3.000 | St        |                                         |
| 6        | MU02502  | CABLE ASSY,AC PWR CORD,GRA,15A | 1.000 | St        |                                         |
| 7        | MU02504  | CABLE ASSY,AC PWR,VDE,GRA,15A  | 1.000 | St        |                                         |
| 8        | MU03529  | STRAIN RLF,STR,ADJ UP TO .400D | 1.000 | St        |                                         |
| 9        | MU02609  | CKT BRKR,DPST/SF 15.0A 250/28V | 1.000 | St        |                                         |
| 10       | MU03536  | CLAMP,CABLE,LOOP TY,AL/CSH,.25 | 1.000 | St        |                                         |
| 11       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 1.000 | St        |                                         |
| 12       | MU15779  | LOCTITE                        | 1.000 | St        | Menge nach Bedarf/Quantity as required; |
| 13       | MU15422  | NUT,HEX,6-32 KEPS S ZI         | 4.000 | St        |                                         |
| 14       | MU15305  | SCR,1/4-20X3/4 CP SK S ZI      | 4.000 | St        |                                         |
| 15       | MU15427  | NUT,HEX,6-32 KEPS S ZI SM PATT | 3.000 | St        |                                         |

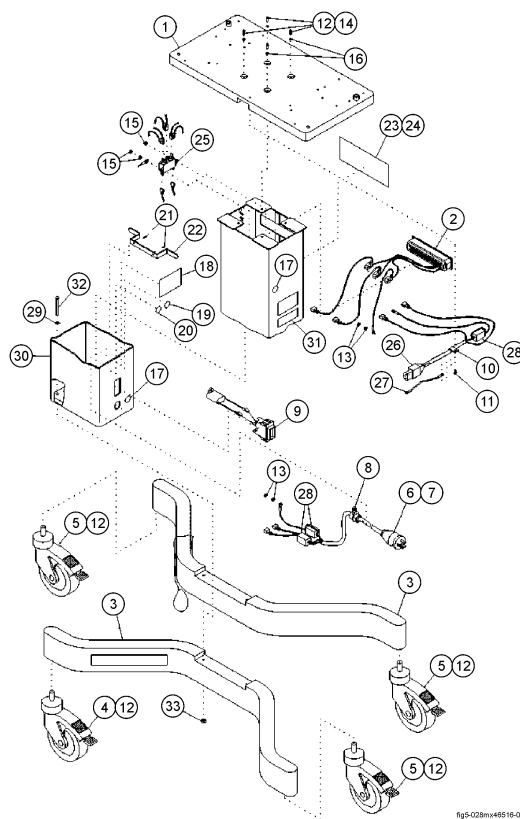


fig 5-028mm48516-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                         |
|----------|----------|--------------------------------|-------|-----------|--------------------------------|
| 16       | MU15587  | WSHR,LK,INT,1/4 SS             | 4.000 | St        |                                |
| 17       | MU06964  | LABEL,GROUND SYMBOL,PROTECTIVE | 3.000 | St        |                                |
| 20       | MU13016  | LABEL,MANUAL REFERENCE SYMBOL  | 1.000 | St        |                                |
| 21       | MU15113  | SCR,6-32X5/16 TR PH SS NYLOK   | 2.000 | St        |                                |
| 22       | MU12758  | CLEAT,POWER CORD               | 1.000 | St        |                                |
| 25       | MU03057  | FILTER,LINE,115-250VAC         | 1.000 | St        |                                |
| 26       | MU02505  | CABLE ASSY,CONT PWR,VDE,FIXED  | 1.000 | St        |                                |
| 27       | MU12783  | CABLE ASSY,GND,6.25" GRN       | 1.000 | St        |                                |
| 28       | MU03069  | FERRITE SUPPRESSOR,.280 ID     | 3.000 | St        |                                |
| 29       | MU15586  | WSHR,LK,SP,1/4 SS              | 4.000 | St        |                                |
| 32       | MU15344  | SCR,1/4-20X3.50 CP HX S ZI GR5 | 4.000 | St        |                                |
| 33       | MU15446  | NUT,1/4-20 ES SS               | 4.000 | St        |                                |
| 34       | MU15330  | SCR,1/4-20X1.50 CP HX SS NYLOK | 1.000 | St        | ohne Abbildung/item not shown; |

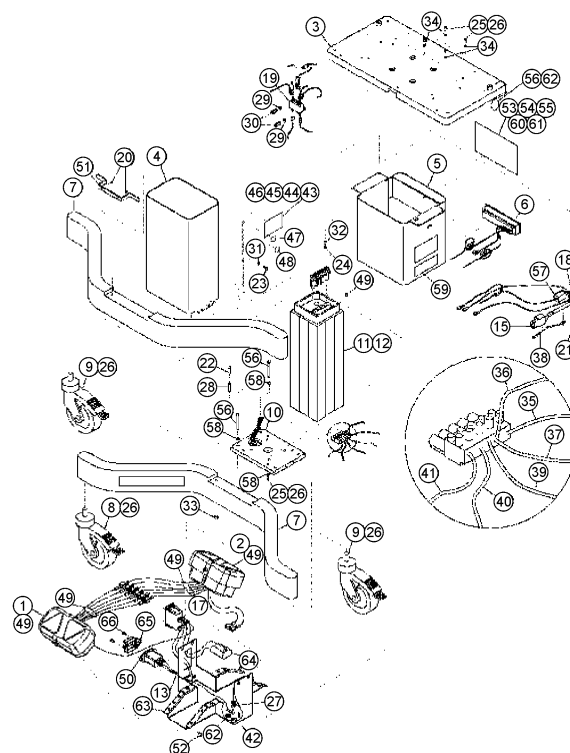


fig5-023mm48517-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                         |
|----------|----------|--------------------------------|-------|-----------|--------------------------------|
| 1        | MU12813  | FOOT SWITCH ASSY FRONT         | 1.000 | St        |                                |
| 2        | MU12815  | FOOT SWITCH ASSY REAR          | 1.000 | St        |                                |
| 3        | MU12805  | PLATE,UPPER TRANSITION,MACH    | 1.000 | St        |                                |
| 7        | MU12746  | LEG,BASE,MACHINED              | 2.000 | St        |                                |
| 8        | MU12761  | CASTER,SWVL,4.92 DIA,DIR LK    | 1.000 | St        |                                |
| 9        | MU12762  | CASTER,SWVL,4.92 DIA,TOTAL LK  | 3.000 | St        |                                |
| 13       | MU02502  | CABLE ASSY,AC PWR CORD,GRA,15A | 1.000 | St        |                                |
| 14       | MU02504  | CABLE ASSY,AC PWR,VDE,GRA,15A  | 1.000 | St        | ohne Abbildung/item not shown; |
| 15       | MU02503  | CABLE ASSY,CONT PWR,VDE,VHA    | 1.000 | St        |                                |
| 16       | MU03529  | STRAIN RLF,STR,ADJ UP TO .400D | 1.000 | St        | ohne Abbildung/item not shown; |
| 17       | MU02609  | CKT BRKR,DPST/SF 15.0A 250/28V | 1.000 | St        |                                |
| 18       | MU03536  | CLAMP,CABLE,LOOP TY,AL/CSH,.25 | 1.000 | St        |                                |
| 19       | MU03057  | FILTER,LINE,115-250VAC         | 1.000 | St        |                                |
| 20       | MU15113  | SCR,6-32X5/16 TR PH SS NYLOK   | 2.000 | St        |                                |

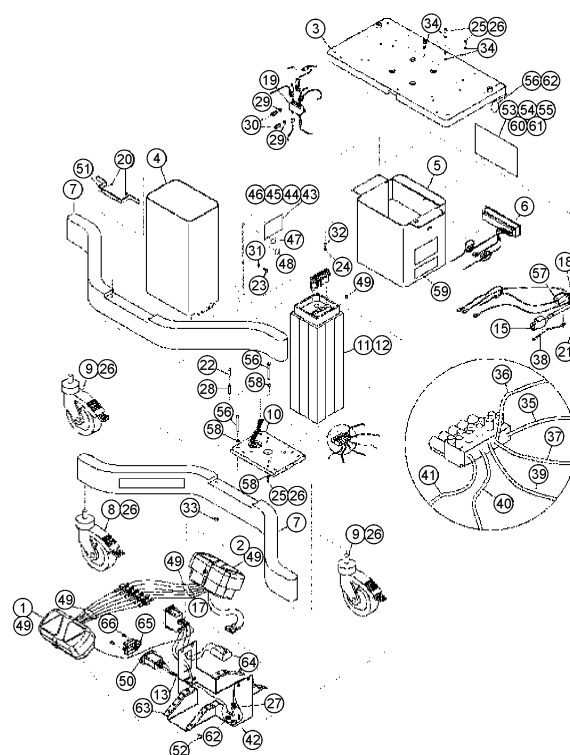


fig 5-023mm48517-01

| Item No. | Part No. | Description                    | Qty.   | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|--------|-----------|-----------------------------------------|
| 21       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 1.000  | St        |                                         |
| 22       | MU15158  | SCR,6-32X1.12 TR PH SS NYLOK   | 1.000  | St        |                                         |
| 23       | MU15185  | SCR,8-32X3/8 TR PH SS NYLOK    | 4.000  | St        |                                         |
| 25       | MU15896  | SCR,M6X1.0X25LG,CP SK SS       | 8.000  | St        |                                         |
| 26       | MU15779  | LOCTITE                        | 0.000  | St        | Menge nach Bedarf/Quantity as required; |
| 27       | MU15422  | NUT,HEX,6-32 KEPS S ZI         | 4.000  | St        |                                         |
| 29       | MU15427  | NUT,HEX,6-32 KEPS S ZI SM PATT | 2.000  | St        |                                         |
| 30       | MU15490  | STANDOFF,6-32ID .25HX .56L NYL | 2.000  | St        |                                         |
| 31       | MU15554  | WSHR,LK,EXT,                   | 4.000  | St        |                                         |
| 32       | MU15568  | WSHR,LK,SP,                    | 4.000  | St        |                                         |
| 33       | MU15595  | WSHR,LK,EXT,1/4 SS             | 6.000  | St        |                                         |
| 34,58    | MU15586  | WSHR,LK,SP,1/4 SS              | 10.000 | St        |                                         |
| 35       | MU12769  | CABLE ASSY,BRKR,17" WHT/BRN    | 1.000  | St        |                                         |
| 36       | MU12770  | CABLE ASSY,BRKR,17" WHT/BLU    | 1.000  | St        |                                         |

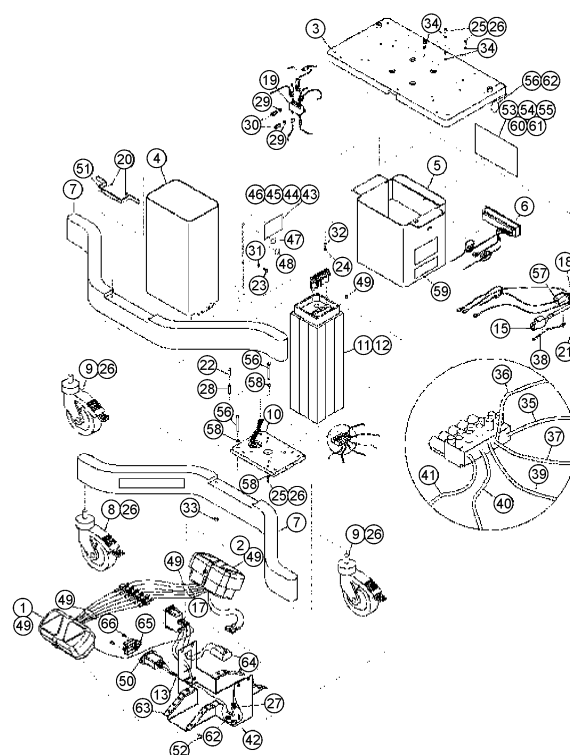


fig 5-023mm48517-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 37       | MU12777  | CABLE ASSY,BRKR,17" WHT/BLU    | 1.000 | St        |                                         |
| 38       | MU12783  | CABLE ASSY,GND,6.25" GRN       | 1.000 | St        |                                         |
| 39       | MU12782  | CABLE ASSY,GND,14" GRN/YEL     | 1.000 | St        |                                         |
| 40       | MU12790  | CABLE ASSY,MTR TO FS,17",ORN   | 1.000 | St        |                                         |
| 41       | MU12789  | CABLE ASSY,MTR TO FS,17",RED   | 1.000 | St        |                                         |
| 42       | MU06964  | LABEL,GROUND SYMBOL,PROTECTIVE | 2.000 | St        |                                         |
| 48       | MU06845  | LABEL,MANUAL REFERENCE SYMBOL  | 1.000 | St        |                                         |
| 49       | MU01975  | WIRE TIE (4.50 LG)             | 0.000 | St        | Menge nach Bedarf/Quantity as required; |
| 50       | MU03623  | CONN,RCPT,MALE,10A 250V,RFI    | 1.000 | St        |                                         |
| 51       | MU12758  | CLEAT,POWER CORD               | 1.000 | St        |                                         |
| 52       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 4.000 | St        |                                         |
| 56       | MU15330  | SCR,1/4-20X1.50 CP HX SS NYLOK | 2.000 | St        |                                         |
| 57       | MU03069  | FERRITE SUPPRESSOR,.280 ID     | 1.000 | St        |                                         |
| 67       | MU15446  | NUT,1/4-20 ES SS               | 4.000 | St        | ohne Abbildung/item not shown;          |

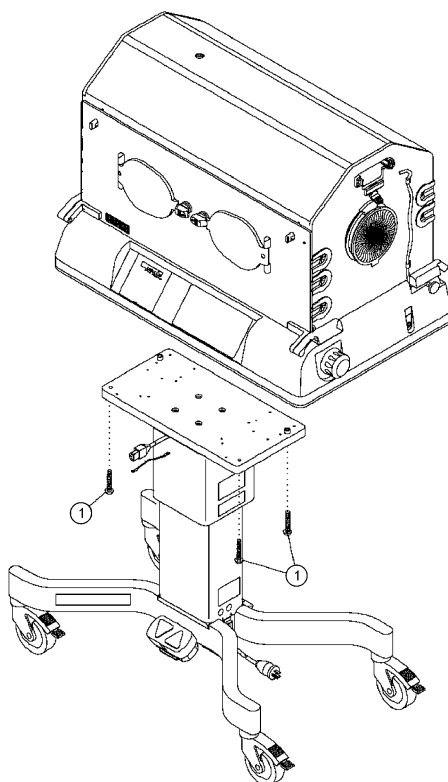


fig5-030m48515-01

| Item No. | Part No. | Description                     | Qty.  | Qty.u nit | Remark |
|----------|----------|---------------------------------|-------|-----------|--------|
| 1        | MU15330  | SCR, 1/4-20X1.50 CP HX SS NYLOK | 4.000 | St        | C2000  |

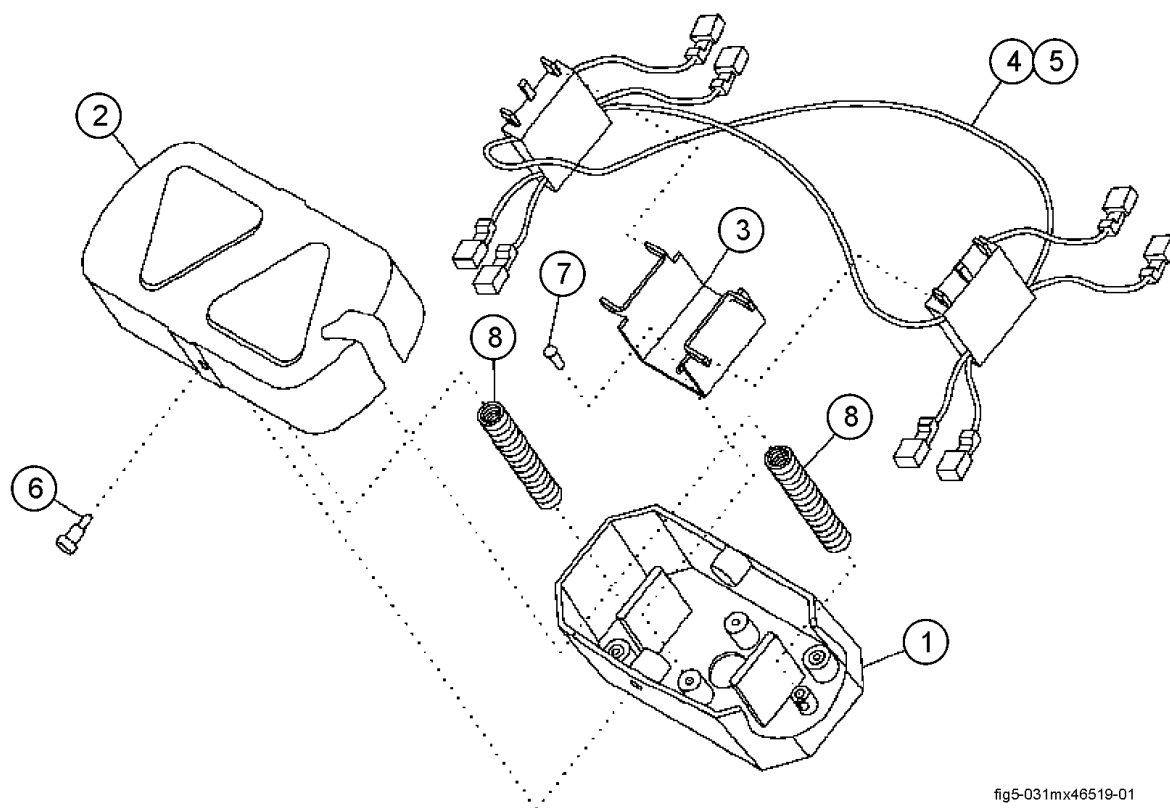


fig5-031mx46519-01

| Item No. | Part No. | Description                         | Qty.  | Qty. unit | Remark |
|----------|----------|-------------------------------------|-------|-----------|--------|
| 4        | MU12810  | WIRING ASSY, FOOT SWITCH, FRONT     | 1.000 | St        |        |
| 5        | MU12811  | WIRING ASSY, FOOT SWITCH, REAR      | 1.000 | St        |        |
| 6        | MU15730  | SCR, SHLDR., .187D .18L, 8-32, NYLK | 2.000 | St        |        |
| 8        | MU12750  | SPRING, CPRS., .42OD .051W 2.50LG   | 2.000 | St        |        |

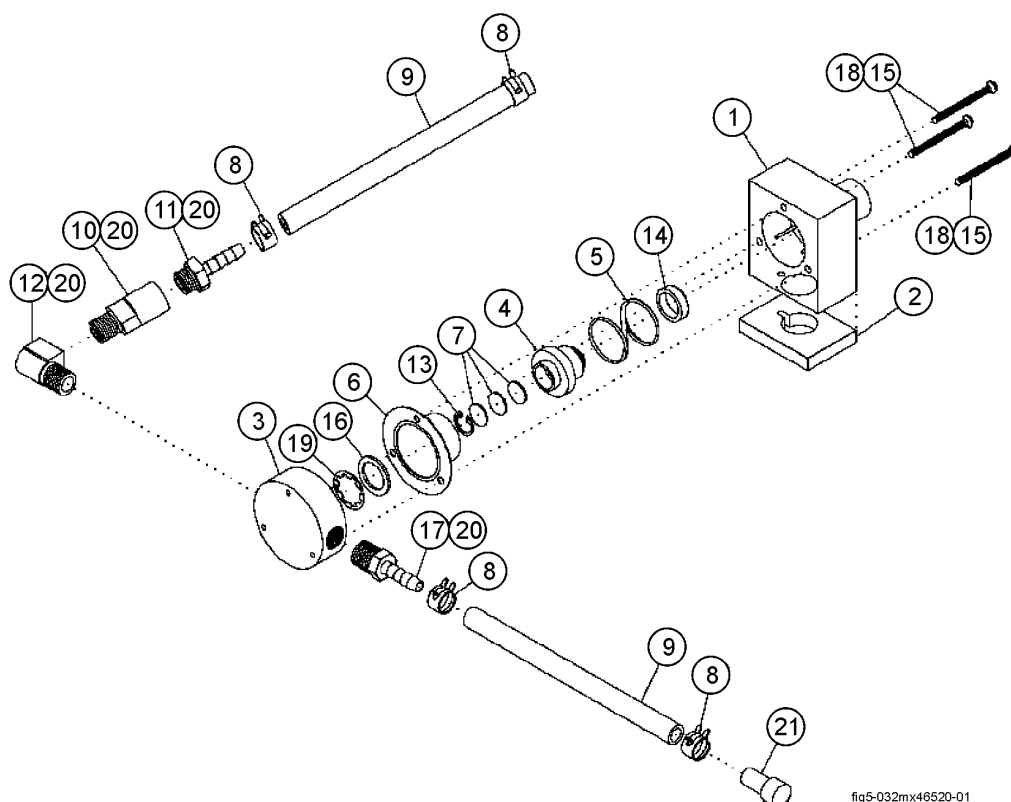


fig5-032mx46520-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 2        | MU12586  | Gasket, Body, Check Valve      | 1.000 | St        |                                         |
| 4        | MU12584  | PISTON,CHECK VALVE             | 1.000 | St        |                                         |
| 5        | MU12583  | SPRING,CPRS,1.04OD .040W 1.00L | 1.000 | St        |                                         |
| 6        | MU06679  | DIAPHRAGM                      | 1.000 | St        |                                         |
| 7        | MU01958  | FILTER DISC                    | 3.000 | St        |                                         |
| 8        | MU13252  | CLAMP,HOSE,.460 - .545 I.D.    | 4.000 | St        |                                         |
| 9        | MU13256  | SOUND COAT,MOUNTING PLATE      | 0.460 | St        |                                         |
| 10       | MU10486  | CHECK VALVE,1/4NPT F IN,M OUT  | 1.000 | St        |                                         |
| 13       | MU15719  | RING,RTNG,INT,0.500 DIA SS     | 1.000 | St        |                                         |
| 14       | MU12585  | Seal, Piston, Check Valve      | 1.000 | St        |                                         |
| 15       | MU15165  | SCR,6-32X1.75 FL PH SS         | 3.000 | St        |                                         |
| 16       | MU06675  | WSHR,FL,.628ID .88OD .06T ACTL | 1.000 | St        |                                         |
| 17       | MU01647  | CONN,BARB,1/4HOSE X 1/8NPT(M)  | 1.000 | St        |                                         |
| 18       | MU15772  | LOCTITE,SCREWLOCK NO.222       | 0.000 | St        | Menge nach Bedarf/Quantity as required; |

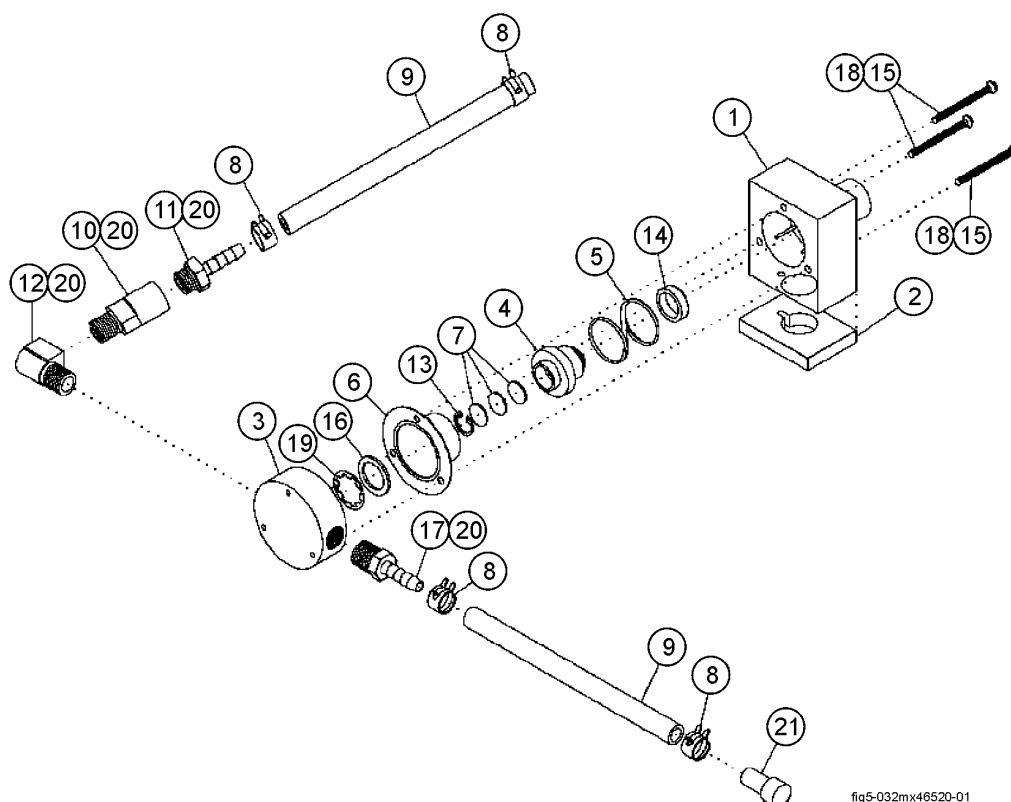
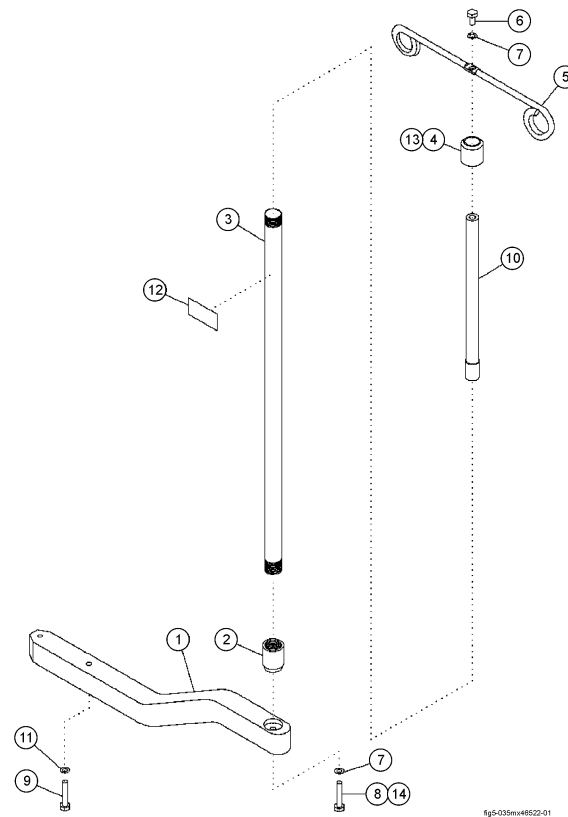


fig5-032mx46520-01

| Item No. | Part No. | Description                      | Qty.  | Qty.u nit | Remark                                  |
|----------|----------|----------------------------------|-------|-----------|-----------------------------------------|
| 19       | MU15720  | RING,RETAINING,WAL 5105-6255     | 1.000 | St        |                                         |
| 20       | MU15740  | "TAPE,PIPE JNT SEAL,TEFLON,.50"" | 0.000 | St        | Menge nach Bedarf/Quantity as required; |
| 21       | MU12580  | PLUG,1/4ID HOSE,1.00LG,DELRIN    | 1.000 | St        |                                         |



| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 1        | MU12938  | SUPPORT ARM,MONITOR/IV POLE    | 1.000 | St        |                                         |
| 2        | MU12957  | ADAPTER,I.V. POLE BASE         | 1.000 | St        |                                         |
| 3        | MU12958  | BASE,I.V. POLE                 | 1.000 | St        |                                         |
| 4        | MU03847  | NUT,LOCKING,7/8-20 SPECIAL FAB | 1.000 | St        |                                         |
| 5        | MU03848  | CROSS ARM (I.V.)               | 1.000 | St        |                                         |
| 6        | MU15352  | SCR,5/16-18X3/4 CP HX S ZI     | 1.000 | St        |                                         |
| 7        | MU15609  | WSHR,LK,SP,5/16 S CA           | 2.000 | St        |                                         |
| 8        | MU15769  | LOCTITE,NO.271-05(0.5CC TUBE)  | 0.000 | St        | Menge nach Bedarf/Quantity as required; |
| 9        | MU15268  | SCR,10-32X1.75 CP HX SS NYLOK  | 2.000 | St        |                                         |
| 10       | MU12959  | UPPER EXT,I.V. POLE,11.38 LG   | 1.000 | St        |                                         |
| 11       | MU15567  | WSHR,LK,EXT,                   | 2.000 | St        |                                         |
| 12       | MU12997  | LABEL,WEIGHT LIMIT,11 LBS      | 1.000 | St        |                                         |
| 13       | MU15760  | LUBRICANT,DOW CORNING          | 0.000 | St        | Menge nach Bedarf/Quantity as required; |
| 14       | MU15358  | SCR,5/16-18X1.38 CP HX S ZI    | 1.000 | St        |                                         |

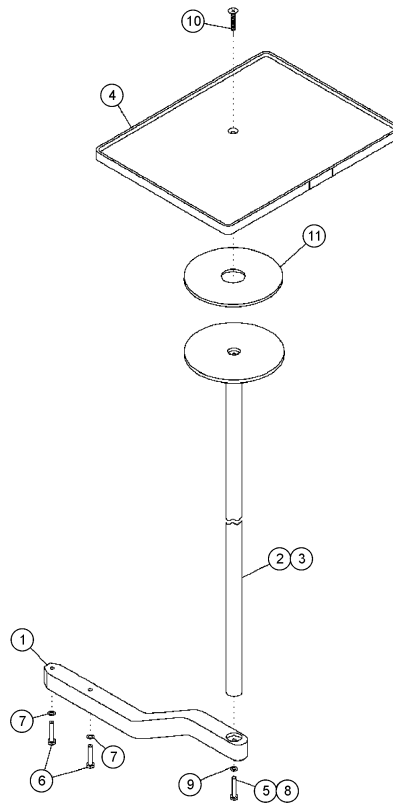


fig 5-039mm48523-21

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 1        | MU12938  | SUPPORT ARM,MONITOR/IV POLE    | 1.000 | St        |                                         |
| 2        | MU12939  | POLE,MONITOR SHELF,26.32       | 1.000 | St        |                                         |
| 3        | MU12940  | POLE,MONITOR SHELF, 8.63       | 1.000 | St        |                                         |
| 4        | MU12949  | MONITOR SHELF SUBASSY,ISOLETTE | 1.000 | St        |                                         |
| 5        | MU15769  | LOCTITE,NO.271-05(0.5CC TUBE)  | 0.000 | St        | Menge nach Bedarf/Quantity as required; |
| 6        | MU15268  | SCR,10-32X1.75 CP HX SS NYLOK  | 2.000 | St        |                                         |
| 7        | MU15567  | WSHR,LK,EXT,                   | 2.000 | St        |                                         |
| 8        | MU15358  | SCR,5/16-18X1.38 CP HX S ZI    | 1.000 | St        |                                         |
| 9        | MU15609  | WSHR,LK,SP,5/16 S CA           | 1.000 | St        |                                         |
| 10       | MU15336  | SCR,1/4-20X2.00 FL PH SS NYLOK | 1.000 | St        |                                         |
| 11       | MU12950  | WASHER,6.5X.75X.09,POLYETH     | 1.000 | St        |                                         |

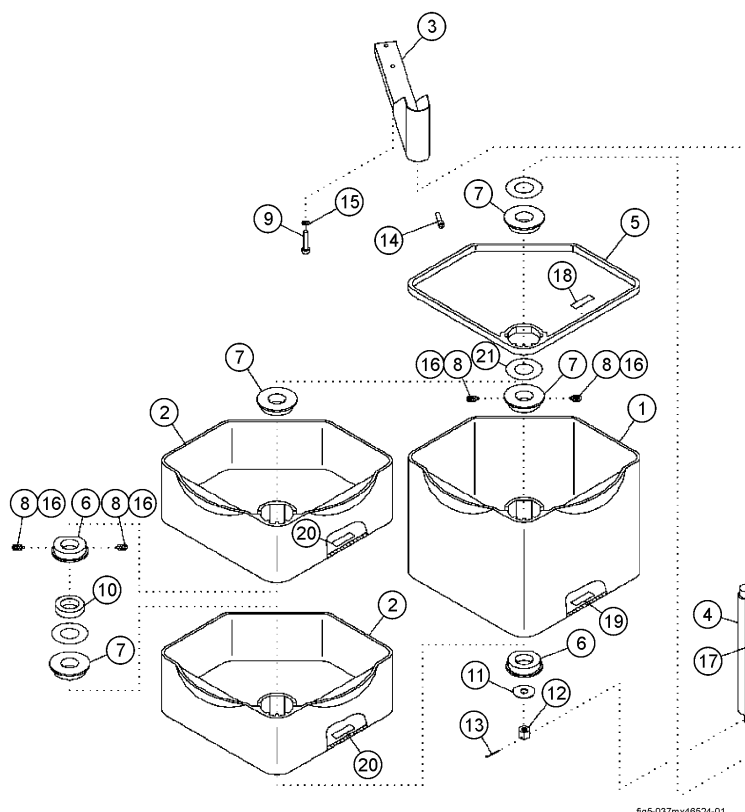
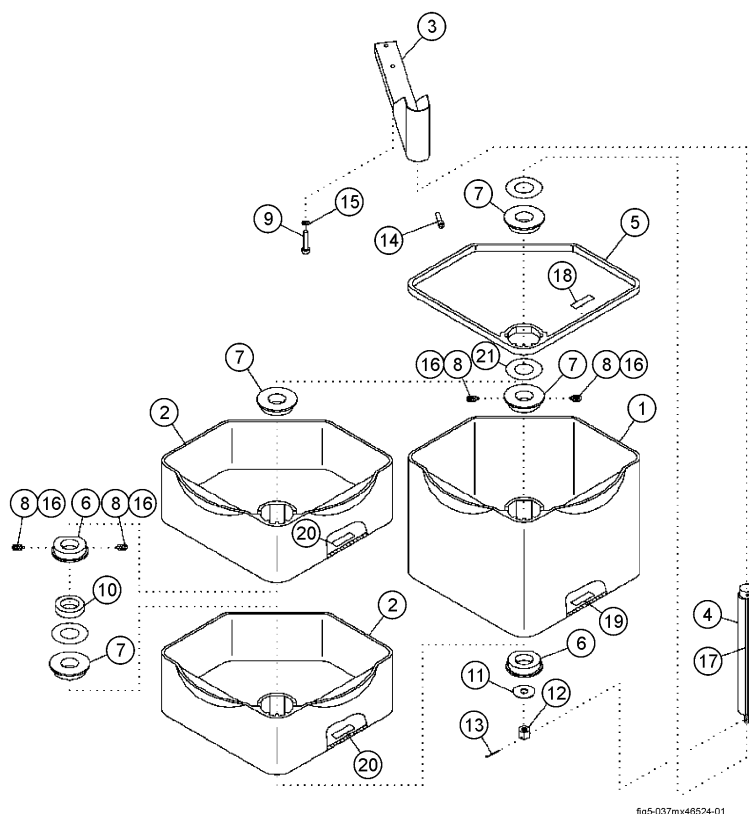


fig5-037mx46524-01

| Item No. | Part No. | Description                   | Qty.   | Qty. unit | Remark                                  |
|----------|----------|-------------------------------|--------|-----------|-----------------------------------------|
| 1        | MU12871  | SWIVEL DRAWER,LARGE           | 1.000  | St        |                                         |
| 2        | MU12881  | SWIVEL DRAWER,SMALL           | 2.000  | St        |                                         |
| 3        | MU12876  | SUPPORT ARM,SWIVEL DRAWERS    | 1.000  | St        |                                         |
| 5        | MU12872  | TRAY WRITING SURFACE          | 1.000  | St        |                                         |
| 6        | MU12878  | RING,BOTTOM,SWIVEL DRAWERS    | 2.000  | St        | Menge/Quantity 1 bzw./or 2;             |
| 7        | MU12877  | RING,TOP,SWIVEL DRAWER        | 3.000  | St        | Menge/Quantity 2 bzw./or 3;             |
| 8        | MU12879  | SPRING PLUNGER,3/8-16         | 10.000 | St        | Menge/Quantity 6 bzw./or 10;            |
| 9        | MU15313  | SCR,1/4-20X7/8 CP SK SS NYLOK | 2.000  | St        |                                         |
| 10       | MU12873  | SPACER,1.25ID 2.00OD .49T ABS | 1.000  | St        |                                         |
| 11       | MU15634  | WSHR,FL,.536ID 1.50OD .05T SS | 1.000  | St        |                                         |
| 13       | MU15662  | PIN,COTTER,.06DIA 1.00LG SS   | 1.000  | St        |                                         |
| 14       | MU15286  | SCR,1/4-20X3/8 CP SK SS NYLOK | 1.000  | St        |                                         |
| 15       | MU15595  | WSHR,LK,EXT,1/4 SS            | 2.000  | St        |                                         |
| 16       | MU15772  | LOCTITE,SCREWLOCK NO.222      | 0.000  | St        | Menge nach Bedarf/Quantity as required; |



| Item No. | Part No. | Description                   | Qty.  | Qty. unit | Remark                                  |
|----------|----------|-------------------------------|-------|-----------|-----------------------------------------|
| 17       | MU15760  | LUBRICANT,DOW CORNING         | 1.000 | St        | Menge nach Bedarf/Quantity as required; |
| 20       | MU13038  | LABEL,LOAD LIMIT,5LB/2.2KG    | 2.000 | St        |                                         |
| 21       | MU12874  | WSHR,1.25ID 2.50OD .015T UHMW | 3.000 | St        | Menge/Quantity 2 bzw./or 3;             |

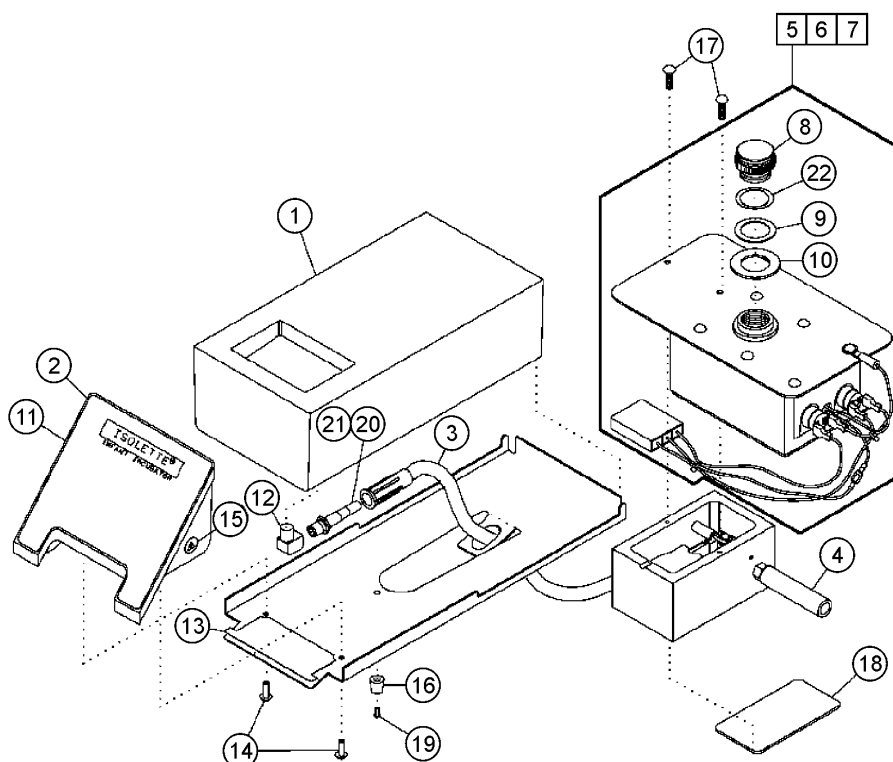


fig5-038mx46526-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 1,4      | MU13198  | MANIFOLD ASSY,HUMIDITY         | 1.000 | St        |                                         |
| 2        | MU13103  | DOOR,HUMIDITY                  | 1.000 | St        |                                         |
| 3        | MU13132  | TUBING,W/ENDS .25 ID,24.00 LG  | 1.000 | St        |                                         |
| 8        | MU13144  | CAP,EVAPORATOR                 | 1.000 | St        |                                         |
| 9        | MU13107  | WSHR,FL,1.29OD .88ID .015T SS  | 1.000 | St        |                                         |
| 10       | MU13108  | WSHR,FL,2.0OD .99ID .06 POLYPR | 1.000 | St        |                                         |
| 11       | MU12999  | OVERLAY,HUMIDITY DWR E/S/F/G/I | 1.000 | St        |                                         |
| 12       | MU13131  | ELBOW,STREET,1/8NPT BR NKL PL  | 1.000 | St        |                                         |
| 14       | MU15113  | SCR,6-32X5/16 TR PH SS NYLOK   | 2.000 | St        |                                         |
| 15       | MU13016  | LABEL,MANUAL REFERENCE SYMBOL  | 2.000 | St        |                                         |
| 16       | MU03791  | BUMPER,RUBBER,RECESSED(W/WSHR) | 1.000 | St        |                                         |
| 17       | MU15115  | SCR,6-32X5/16 PN PH SS,SEMS EX | 2.000 | St        |                                         |
| 20       | MU13130  | CONN,1/8NPTM-1/4HOSE,BR NKL PL | 1.000 | St        |                                         |
| 21       | MU15767  | PIPE SEALANT W/TFL(LOCT        | 0.000 | St        | Menge nach Bedarf/Quantity as required; |

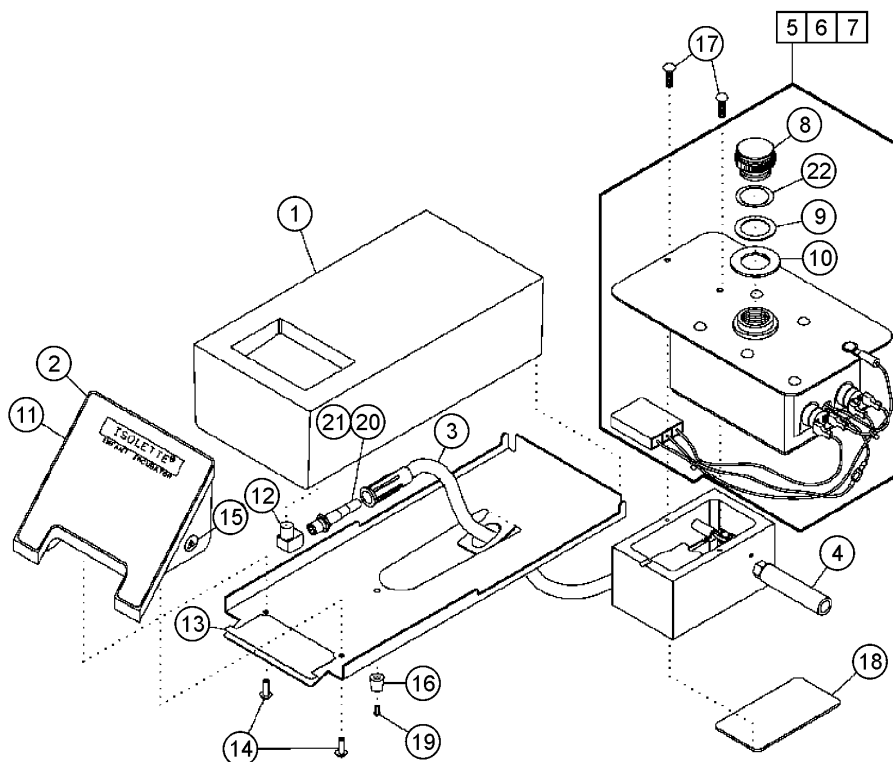


fig5-038mx46526-01

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 22       | MU15692  | O-RING,.208 X .348 X .070 VITN | 1.000 | St        |        |

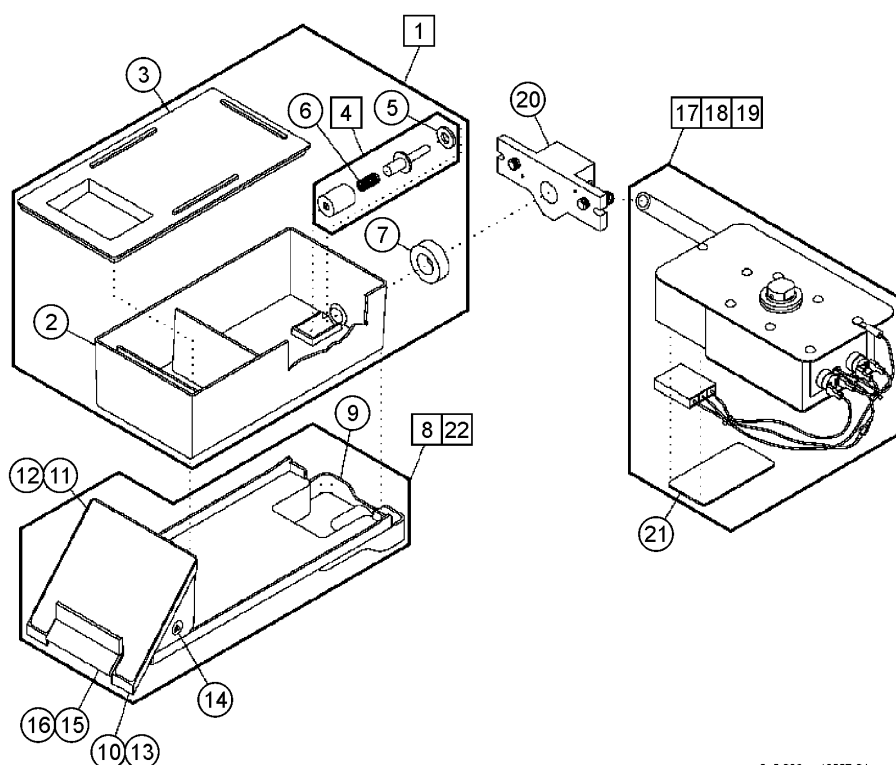


fig5-039mx46527-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 1        | MU13202  | RESERVOIR ASSY,HUMIDITY        | 1.000 | St        |        |
| 2        | MU13162  | RESERVOIR,HUMIDITY             | 1.000 | St        |        |
| 3        | MU13161  | COVER,HUMIDITY RESERVOIR       | 1.000 | St        |        |
| 4        | MU13435  | REPL KIT,SEALS AND SPRING      | 1.000 | St        |        |
| 5        | MU13167  | SEAL,SILICONE SPONGE,.75 OD    | 1.000 | St        |        |
| 6        | MU13170  | SPRING,CPRS,.360 .035W 0.812LG | 1.000 | St        |        |
| 7        | MU13174  | SEAL,SILICONE SPONGE, 1.380 OD | 1.000 | St        |        |
| 8        | MU13204  | TRAY ASSY,HUMIDITY E/S/F/G/I   | 1.000 | St        |        |
| 9        | MU13163  | TRAY,HUMIDITY RESERVOIR        | 1.000 | St        |        |
| 10       | MU13171  | DOOR,HUMIDITY                  | 1.000 | St        |        |
| 11       | MU12999  | OVERLAY,HUMIDITY DWR E/S/F/G/I | 1.000 | St        |        |
| 12       | MU13000  | OVERLAY,HUMIDITY DWR SWE-GRE   | 1.000 | St        |        |
| 13       | MU15123  | SCR,6-32X3/8 FL PH SS NYLOK    | 2.000 | St        |        |
| 14       | MU13016  | LABEL,MANUAL REFERENCE SYMBOL  | 2.000 | St        |        |

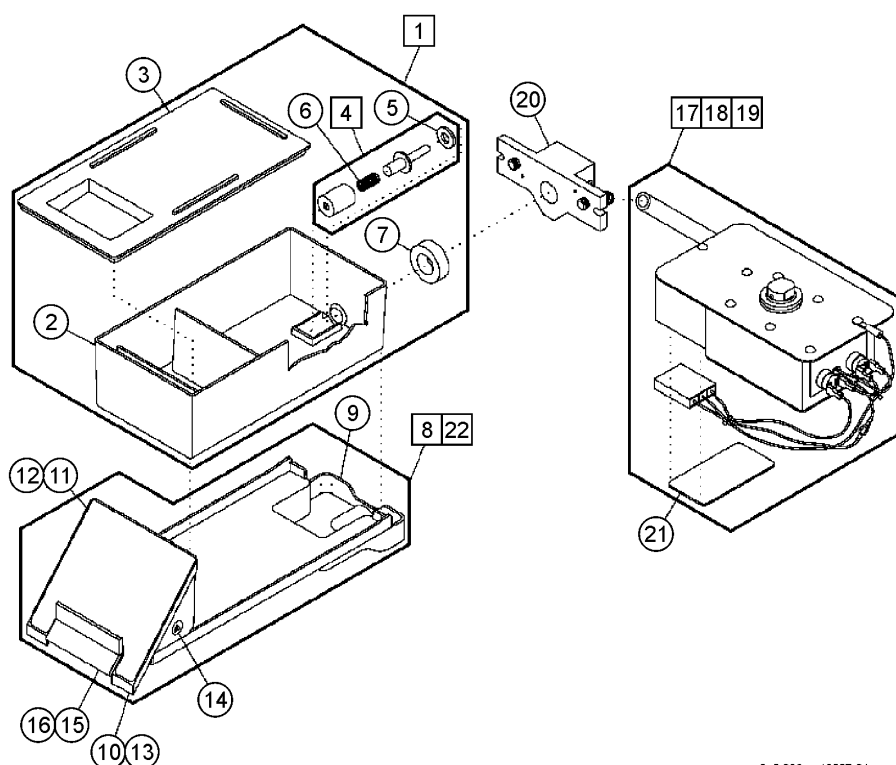


fig5-039mx46527-01

| Item No. | Part No. | Description                   | Qty.  | Qty. unit | Remark                         |
|----------|----------|-------------------------------|-------|-----------|--------------------------------|
| 15       | MU13176  | HANDLE,HUMIDITY               | 1.000 | St        |                                |
| 16       | MU13177  | PIN,3/32 DIA 2.968 LG SS      | 1.000 | St        |                                |
| 20       | MU13198  | MANIFOLD ASSY,HUMIDITY        | 1.000 | St        |                                |
| 22       | MU13206  | TRAY ASSY,HUMIDITY SWE-GRE    | 1.000 | St        | wahlweise/optional;            |
| 22       | MU16571  | TRAY ASSY,HUMID E/S/F/G/I,C2E | 1.000 | St        | wahlweise/optional;            |
| 22       | MU16572  | TRAY ASSY,HUMID,SWE-GRE,C2E   | 1.000 | St        | wahlweise/optional;            |
| 23       | MU13559  | DISTLD WATER NOTE,MULTI LANG  | 1.000 | St        | ohne Abbildung/item not shown; |

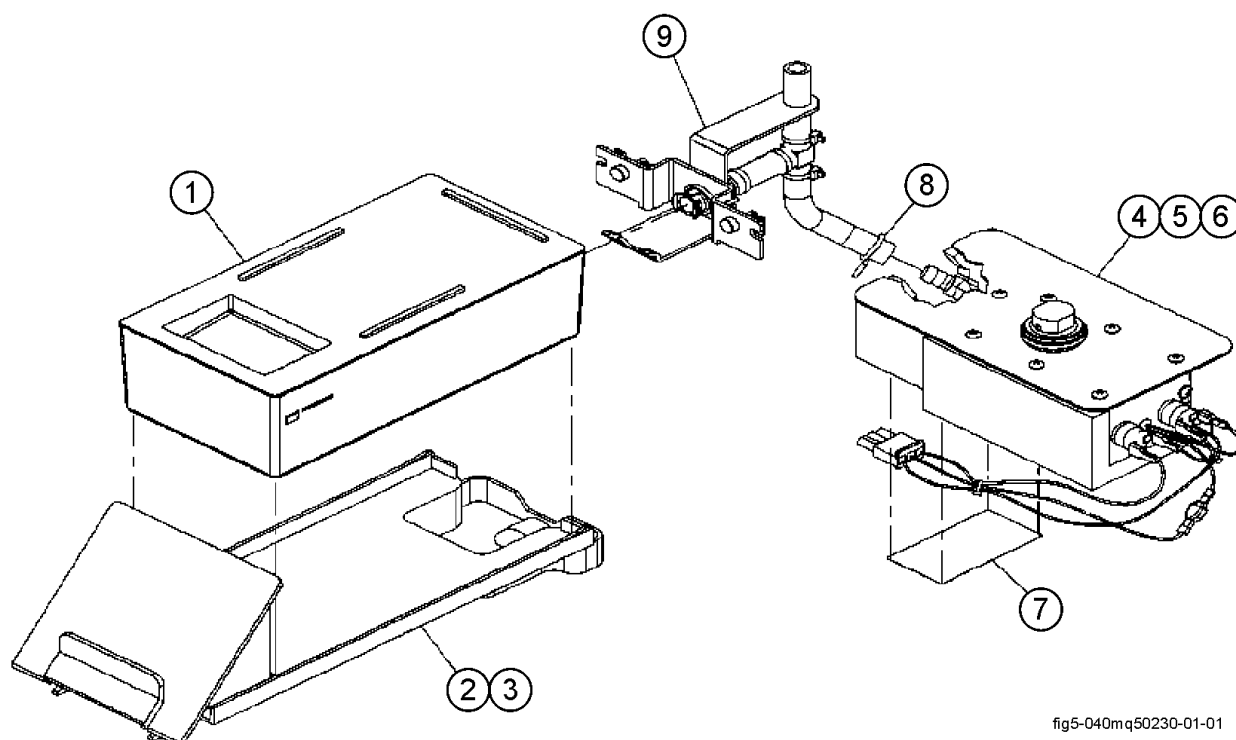


fig5-040mq50230-01-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                         |
|----------|----------|--------------------------------|-------|-----------|--------------------------------|
| 1        | MU17191  | RESERVOIR ASSY,HUM,CPC FITTING | 1.000 | St        |                                |
| 2        | MU13204  | TRAY ASSY,HUMIDITY E/S/F/G/I   | 1.000 | St        | wahlweise/optional;            |
| 2        | MU16571  | TRAY ASSY,HUMID E/S/F/G/I,C2E  | 1.000 | St        | wahlweise/optional;            |
| 2        | MU16572  | TRAY ASSY,HUMID,SWE-GRE,C2E    | 1.000 | St        | wahlweise/optional;            |
| 3        | MU13206  | TRAY ASSY,HUMIDITY SWE-GRE     | 1.000 | St        |                                |
| 9        | MU18655  | MANIFOLD ASSY,HUMIDITY,CPC FIT | 1.000 | St        |                                |
| 10       | MU13559  | DISTLD WATER NOTE,MULTI LANG   | 1.000 | St        | ohne Abbildung/item not shown; |

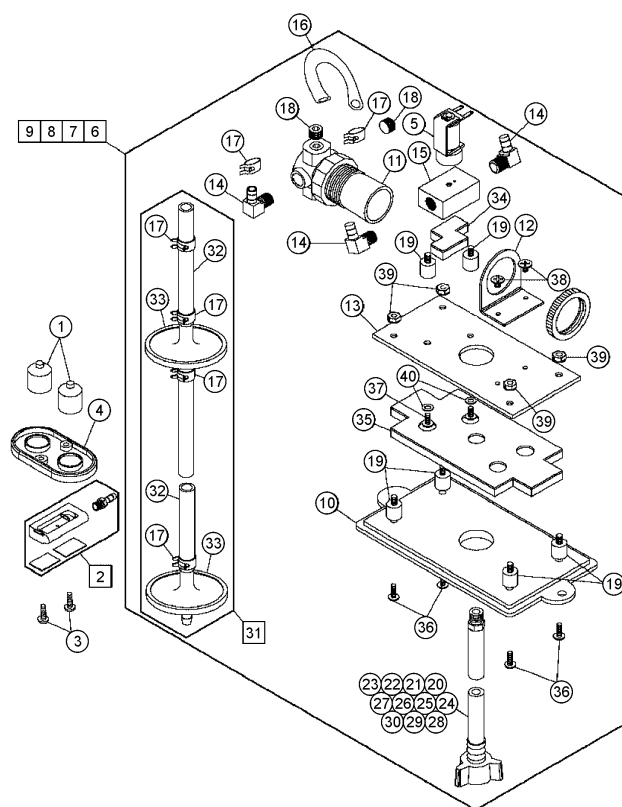
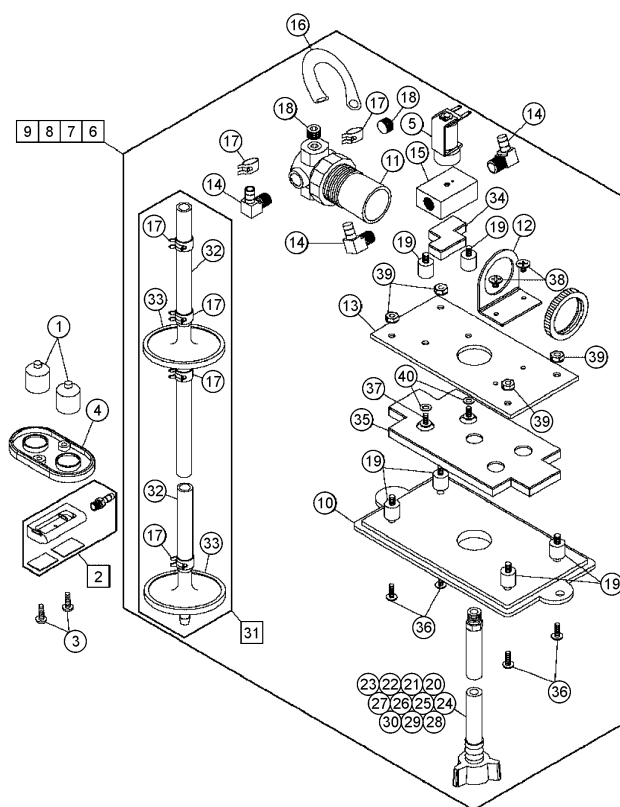
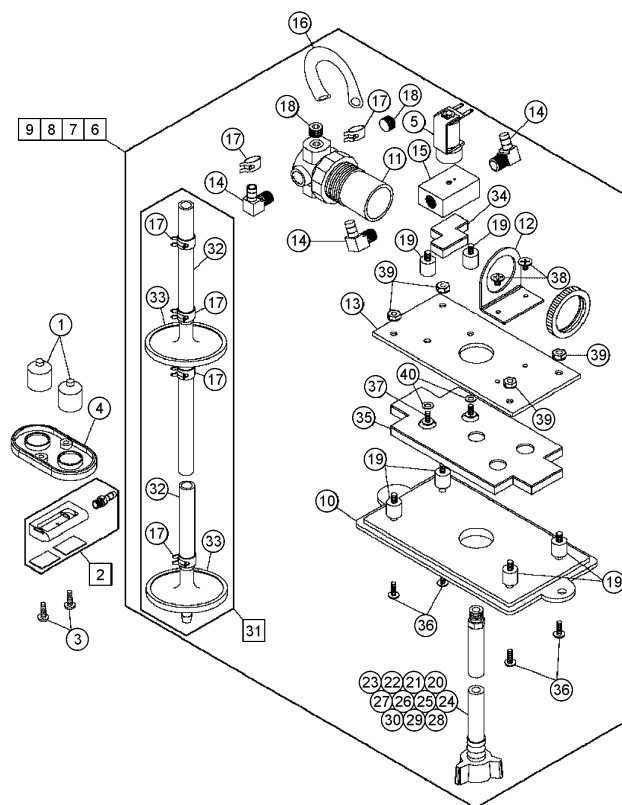


fig5-042mva46529-01

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 1        | MU13223  | CELL,OXYGEN                    | 2.000 | St        |        |
| 2        | MU13260  | OXYGEN CALIB. FIX ASSY,LOCKING | 1.000 | St        |        |
| 3        | MU15193  | SCR,8-32X1/2, TR PH SS NYLOK   | 2.000 | St        |        |
| 4        | MU13232  | PLATE,OXYGEN CELL MOUNTING     | 1.000 | St        |        |
| 5        | MU03664  | VALVE,SOLENOID,12VDC,70PSI,O2  | 1.000 | St        |        |
| 6,9      | MU16672  | OXY CNTL VALVE ASSY,DISS MALE  | 1.000 | St        |        |
| 7        | MU16673  | OXY CNTL VLV ASSY,DISS FEMALE  | 1.000 | St        |        |
| 8        | MU16720  | OXY CNTL VALVE ASSY,NIST MALE  | 1.000 | St        |        |
| 10       | MU12449  | DOOR,ACCESS,PNEUMATIC MODULE   | 1.000 | St        |        |
| 11       | MU13249  | REGULATOR,PRESSURE,40 PSI      | 1.000 | St        |        |
| 14       | MU03746  | ELBOW,90DEG,1/4HOSE-1/8NPT(M)  | 3.000 | St        |        |
| 15       | MU13255  | BLOCK,SOLENOID MOUNT           | 1.000 | St        |        |
| 16       | MU13257  | HOSE,BRAIDED,PVC,CLR,1/4 ID    | 0.150 | m         |        |
| 17       | MU13252  | CLAMP,HOSE, .460 - .545 I.D.   | 6.000 | St        |        |



| Item No. | Part No. | Description                      | Qty.  | Qty. unit | Remark                                  |
|----------|----------|----------------------------------|-------|-----------|-----------------------------------------|
| 18       | MU15740  | "TAPE,PIPE JNT SEAL,TEFLON,.50"" | 0.000 | St        | Menge nach Bedarf/Quantity as required; |
| 19       | MU07138  | ISOLATOR,VIB,.44OD .44LG 4LB     | 6.000 | St        |                                         |
| 20       | MU13227  | OXYGEN HOSE,GREEN DISS           | 1.000 | St        |                                         |
| 21       | MU16945  | OXYGEN ASSY,DISS MALE,C2000      | 1.000 | St        |                                         |
| 22,24    | MU16946  | OXYGEN ASSY,DISS FEMALE,C2000    | 2.000 | St        |                                         |
| 23       | MU16947  | OXYGEN ASSY,NIST MALE,C2000      | 1.000 | St        |                                         |
| 25,29    | MU16950  | OXYGEN ASSY,NIST MALE,C2000E     | 2.000 | St        |                                         |
| 26,27    | MU16948  | OXYGEN ASSY,DISS MALE,C2000E     | 2.000 | St        |                                         |
| 28,30    | MU16949  | OXYGEN ASSY,DISS FEMALE,C2000E   | 2.000 | St        |                                         |
| 31       | MU13404  | RETRO KIT,DUAL FLTR,OXY CONT V   | 1.000 | St        |                                         |
| 33       | MU13244  | FILTER,SUCTION,DISPOS,RECT       | 2.000 | St        |                                         |
| 34       | MU13254  | SOUND COAT,SOLENOID MTG BLOCK    | 1.000 | St        |                                         |
| 35       | MU13256  | SOUND COAT,MOUNTING PLATE        | 1.000 | St        |                                         |
| 36       | MU15185  | SCR,8-32X3/8 TR PH SS NYLOK      | 4.000 | St        |                                         |



| Item No. | Part No. | Description                 | Qty.  | Qty. unit | Remark                         |
|----------|----------|-----------------------------|-------|-----------|--------------------------------|
| 37       | MU15174  | SCR,8-32X5/16 TR PH SS      | 2.000 | St        |                                |
| 38       | MU15171  | SCR,8-32X1/4 TR PH SS NYLOK | 2.000 | St        |                                |
| 39       | MU15433  | NUT,HEX,8-32 KEPS S ZI      | 4.000 | St        |                                |
| 40       | MU15553  | WSHR,LK,INT,                | 2.000 | St        |                                |
| 41       | MU13243  | HOOK,OXYGEN HOSE            | 1.000 | St        | ohne Abbildung/item not shown; |

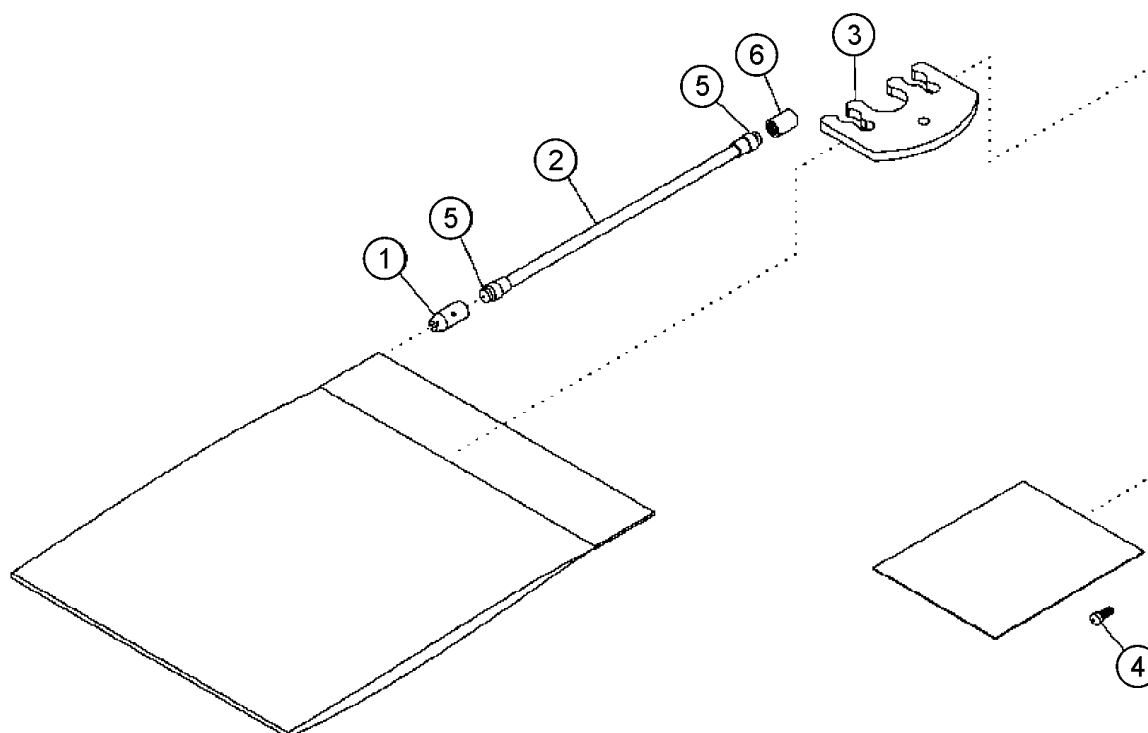


fig5-043mx46530-01

| Item No. | Part No. | Description                  | Qty.  | Qty. unit | Remark                                  |
|----------|----------|------------------------------|-------|-----------|-----------------------------------------|
| 3        | MU07295  | TUBING, HANGER               | 1.000 | St        |                                         |
| 4        | MU15193  | SCR,8-32X1/2, TR PH SS NYLOK | 1.000 | St        |                                         |
| 5        | MU15779  | LOCTITE                      | 0.000 | St        | Menge nach Bedarf/Quantity as required; |

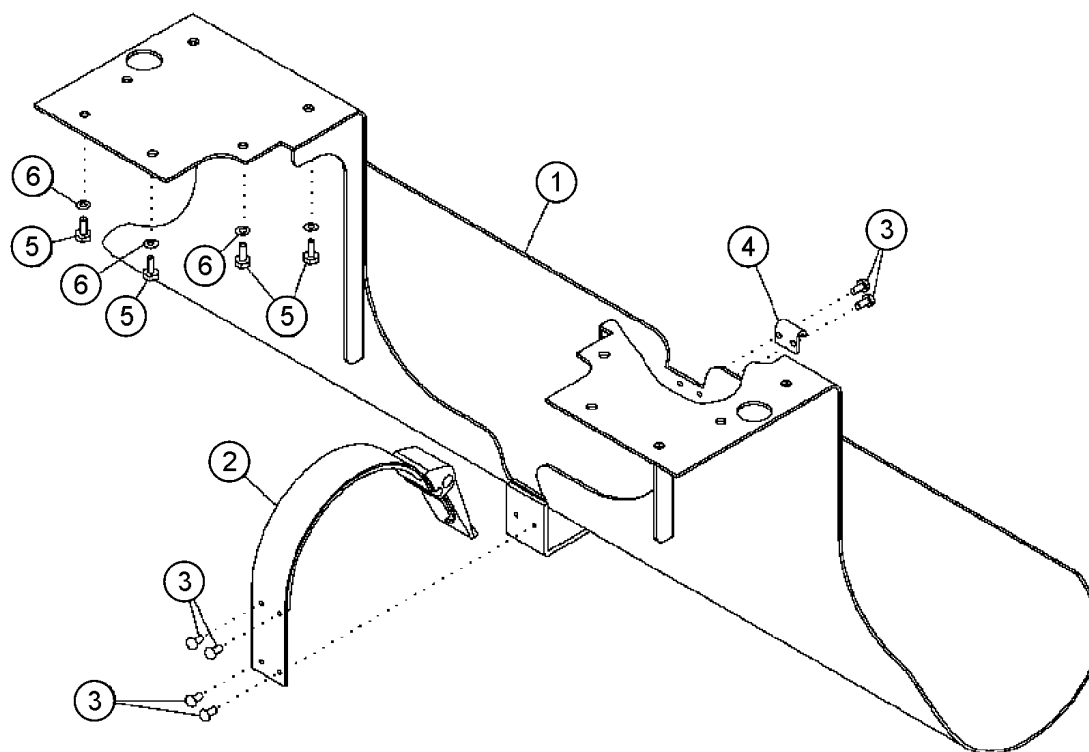


fig5-044mx46531-01

| Item No. | Part No. | Description                   | Qty.   | Qty. unit | Remark |
|----------|----------|-------------------------------|--------|-----------|--------|
| 2        | MU12954  | CLAMP ASSY,TANK               | 1.000  | St        |        |
| 3        | MU15105  | SCR,6-32X1/4 PN PH SS,SEMS EX | 6.000  | St        |        |
| 4        | MU03758  | HOOK,LATCH,MODIFIED           | 1.000  | St        |        |
| 5        | MU15237  | SCR,10-32X1/2 CP HX SS        | 12.000 | St        |        |
| 6        | MU15566  | WSHR,LK,INT,                  | 12.000 | St        |        |

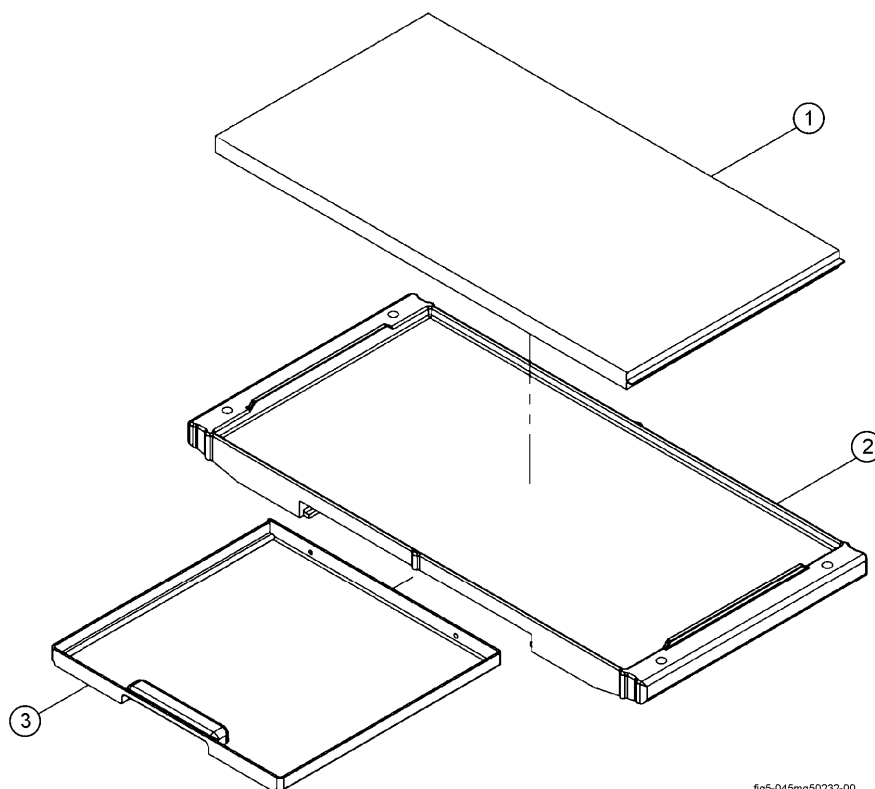


fig5-045mq50232-00

| Item No. | Part No. | Description         | Qty.  | Qty.u nit | Remark |
|----------|----------|---------------------|-------|-----------|--------|
| 1        | MU12249  | MATTRESS,FOAM,C2000 | 1.000 | St        |        |
| 2        | MU12250  | TRAY,MATTRESS       | 1.000 | St        |        |
| 3        | MU12252  | TRAY,X-RAY          | 1.000 | St        |        |

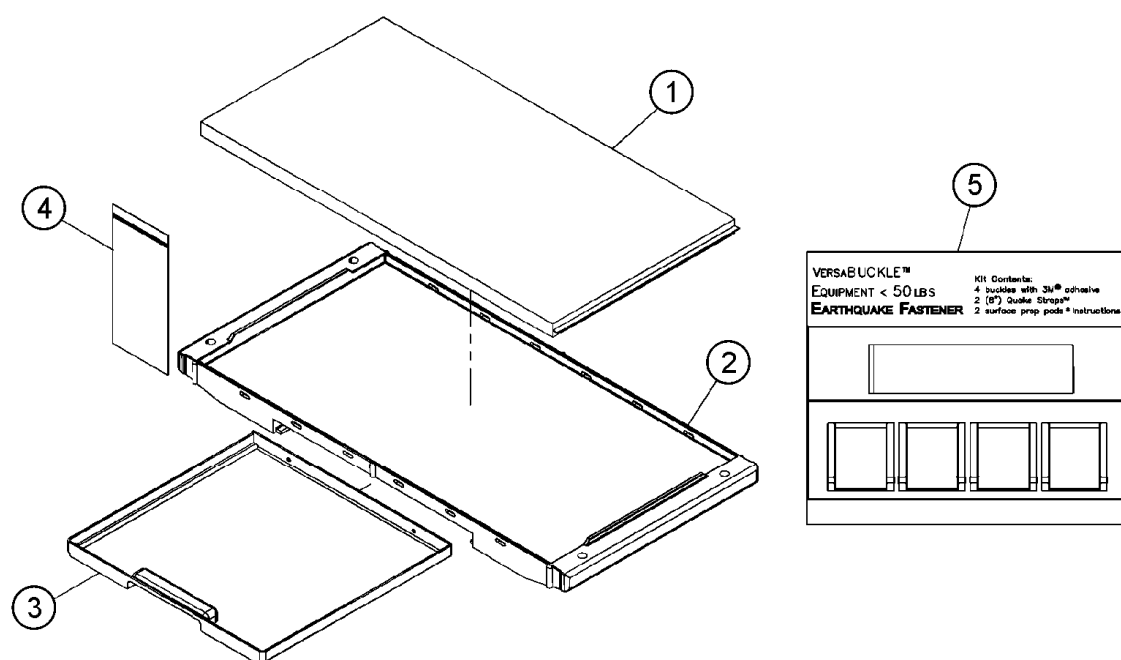


fig5-046mq50233-00

| Item No. | Part No. | Description                  | Qty.  | Qty.u nit | Remark |
|----------|----------|------------------------------|-------|-----------|--------|
| 1        | MU12249  | MATTRESS,FOAM,C2000          | 1.000 | St        |        |
| 2        | MU12253  | TRAY,MATTRESS,FOR RESTRAINTS | 1.000 | St        |        |
| 3        | MU12252  | TRAY,X-RAY                   | 1.000 | St        |        |

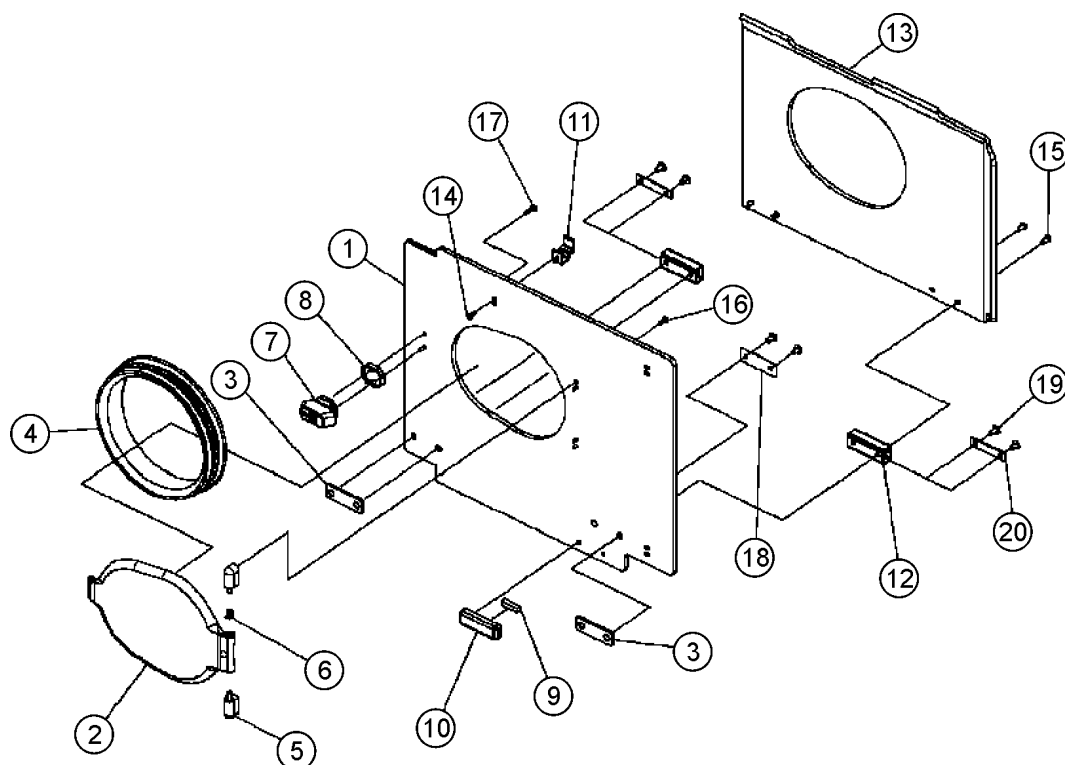


fig5-047mq50234-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 2        | MU12677  | DOOR,ACCESS                    | 1.000 | St        |        |
| 3        | MU12675  | PLATE,HINGE MTG,HEATSHIELD     | 2.000 | St        |        |
| 4        | MU12679  | GASKET,ACCESS DOOR             | 1.000 | St        |        |
| 5        | MU08163  | PIVOT,HINGE,ACCESS DOOR        | 2.000 | St        |        |
| 6        | MU08164  | SPRING,TRSN,.27OD .030W .365LG | 1.000 | St        |        |
| 8        | MU12687  | LATCH MOUNT,ACCESS DOOR        | 1.000 | St        |        |
| 9        | MU12697  | MAGNET,.25SQ 1.00LG ALNICO     | 1.000 | St        |        |
| 10       | MU12479  | PLATE,HINGE & MAGNET           | 1.000 | St        |        |
| 11       | MU12681  | LATCH,HEAT SHIELD              | 1.000 | St        |        |
| 12       | MU12682  | HINGE,HEAT SHIELD              | 2.000 | St        |        |
| 14       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 1.000 | St        |        |
| 15       | MU15401  | SCR,SLFTPG,8X3/8 PN PH SZ,48-2 | 4.000 | St        |        |
| 16       | MU15131  | SCR,6-32X7/16 TR PH SS NYLOK   | 4.000 | St        |        |
| 17       | MU15142  | SCR,6-32X9/16 TR PH SS NYLOK   | 2.000 | St        |        |

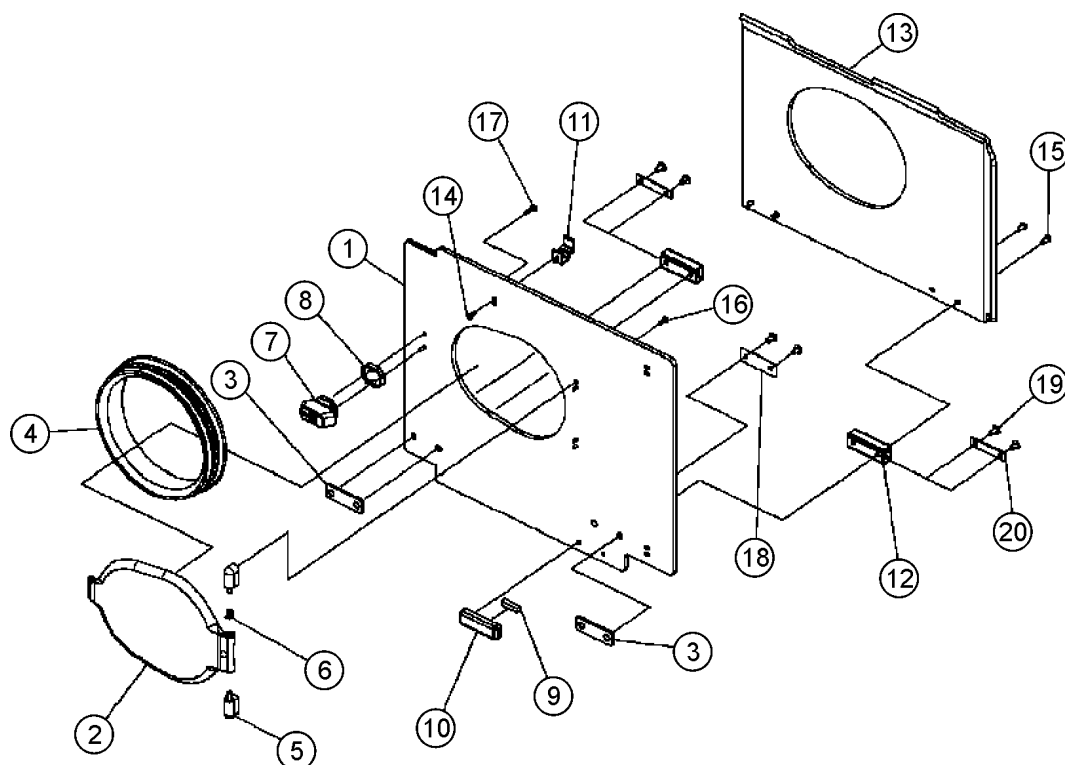


fig5-047mq50234-00

| Item No. | Part No. | Description                  | Qty.  | Qty.u nit | Remark |
|----------|----------|------------------------------|-------|-----------|--------|
| 19       | MU15229  | SCR,10-32X3/8 TR PH SS NYLOK | 6.000 | St        |        |

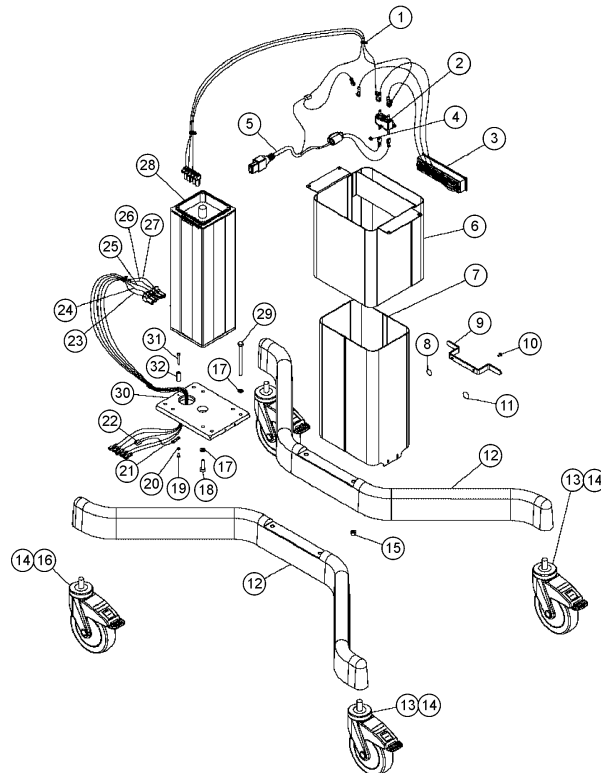


fig 5-048mm50236-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 1        | MU01975  | WIRE TIE (4.50 LG)             | 4.000 | St        |                                         |
| 2        | MU03057  | FILTER,LINE,115-250VAC         | 1.000 | St        |                                         |
| 4        | MU15427  | NUT,HEX,6-32 KEPS S ZI SM PATT | 2.000 | St        |                                         |
| 5        | MU02503  | CABLE ASSY,CONT PWR,VDE,VHA    | 1.000 | St        |                                         |
| 9        | MU15113  | SCR,6-32X5/16 TR PH SS NYLOK   | 2.000 | St        |                                         |
| 10       | MU12758  | CLEAT,POWER CORD               | 1.000 | St        |                                         |
| 11       | MU13016  | LABEL,MANUAL REFERENCE SYMBOL  | 1.000 | St        |                                         |
| 12       | MU14711  | LEG,BASE,EXTENDED,MACHINING    | 2.000 | St        |                                         |
| 13       | MU12762  | CASTER,SWVL,4.92 DIA,TOTAL LK  | 3.000 | St        |                                         |
| 14       | MU15779  | LOCTITE                        | 0.000 | St        | Menge nach Bedarf/quantity as required; |
| 15       | MU15446  | NUT,1/4-20 ES SS               | 4.000 | St        |                                         |
| 16       | MU12761  | CASTER,SWVL,4.92 DIA,DIR LK    | 1.000 | St        |                                         |
| 17       | MU15586  | WSHR,LK,SP,1/4 SS              | 8.000 | St        |                                         |
| 18       | MU15896  | SCR,M6X1.0X25LG,CP SK SS       | 4.000 | St        |                                         |

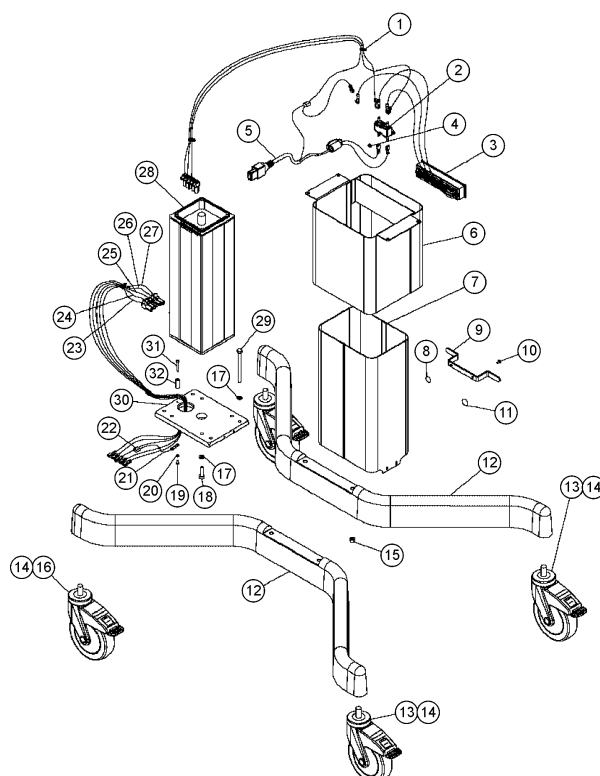


fig 5-048mm50236-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 19       | MU15101  | SCR,6-32X1/4 TR PH SS          | 1.000 | St        |        |
| 20       | MU15530  | WSHR,LK,EXT,                   | 1.000 | St        |        |
| 22       | MU02331  | CONN,ELEC TAP WIRE SPLC,20-18  | 1.000 | St        |        |
| 23       | MU12769  | CABLE ASSY,BRKR,17" WHT/BRN    | 1.000 | St        |        |
| 24       | MU12770  | CABLE ASSY,BRKR,17" WHT/BLU    | 1.000 | St        |        |
| 25       | MU12782  | CABLE ASSY,GND,14" GRN/YEL     | 1.000 | St        |        |
| 26       | MU12790  | CABLE ASSY,MTR TO FS,17",ORN   | 1.000 | St        |        |
| 27       | MU12789  | CABLE ASSY,MTR TO FS,17",RED   | 1.000 | St        |        |
| 28       | MU12808  | ACTUATOR,120V,HIGH THRUST      | 1.000 | St        |        |
| 29       | MU15344  | SCR,1/4-20X3.50 CP HX S ZI GR5 | 4.000 | St        |        |
| 31       | MU15158  | SCR,6-32X1.12 TR PH SS NYLOK   | 1.000 | St        |        |

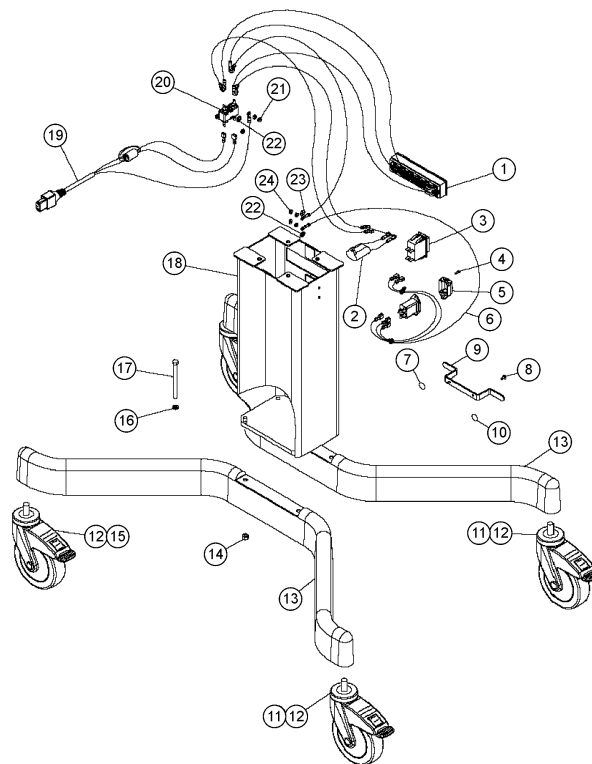


fig5-048mq50237-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 2        | MU12785  | CAP ASSY,ISOLETTE STANDS       | 1.000 | St        |                                         |
| 3        | MU02609  | CKT BRKR,DPST/SF 15.0A 250/28V | 1.000 | St        |                                         |
| 4        | MU15084  | SCR,4-40X3/8 RD PH SS NYLOK    | 2.000 | St        |                                         |
| 5        | MU03546  | CORD LOCK ADAPTER              | 1.000 | St        |                                         |
| 8        | MU15113  | SCR,6-32X5/16 TR PH SS NYLOK   | 2.000 | St        |                                         |
| 9        | MU12758  | CLEAT,POWER CORD               | 1.000 | St        |                                         |
| 10       | MU13016  | LABEL,MANUAL REFERENCE SYMBOL  | 1.000 | St        |                                         |
| 11       | MU12762  | CASTER,SWVL,4.92 DIA,TOTAL LK  | 3.000 | St        |                                         |
| 12       | MU15779  | LOCTITE                        | 0.000 | St        | Menge nach Bedarf/quantity as required; |
| 13       | MU14711  | LEG,BASE,EXTENDED,MACHINING    | 2.000 | St        |                                         |
| 14       | MU15446  | NUT,1/4-20 ES SS               | 4.000 | St        |                                         |
| 15       | MU12761  | CASTER,SWVL,4.92 DIA,DIR LK    | 1.000 | St        |                                         |
| 16       | MU15586  | WSHR,LK,SP,1/4 SS              | 4.000 | St        |                                         |
| 17       | MU15344  | SCR,1/4-20X3.50 CP HX S ZI GR5 | 4.000 | St        |                                         |

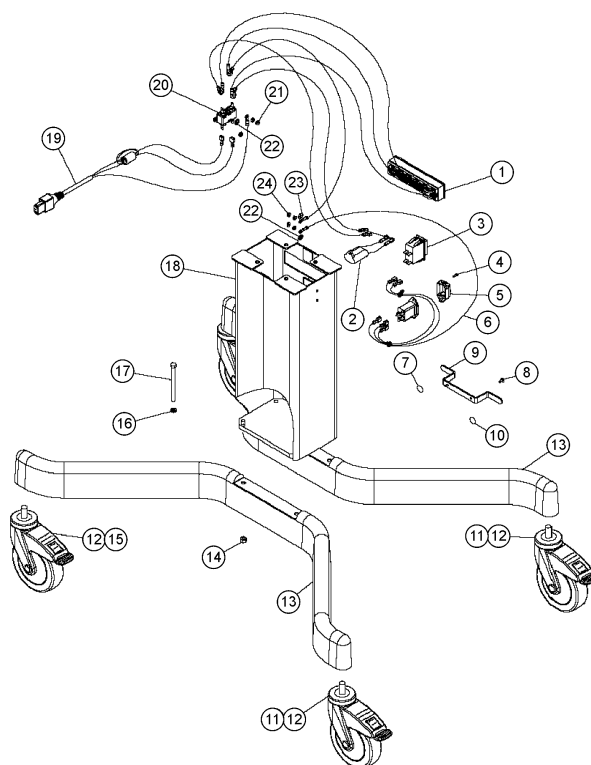


fig5-049mq50237-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 19       | MU02505  | CABLE ASSY,CONT PWR,VDE,FIXED  | 1.000 | St        |        |
| 20       | MU03057  | FILTER,LINE,115-250VAC         | 1.000 | St        |        |
| 21       | MU15427  | NUT,HEX,6-32 KEPS S ZI SM PATT | 3.000 | St        |        |
| 22       | MU06964  | LABEL,GROUND SYMBOL,PROTECTIVE | 1.000 | St        |        |
| 23       | MU06965  | LABEL,GROUND SYMBOL,FUNCTIONAL | 1.000 | St        |        |
| 24       | MU15422  | NUT,HEX,6-32 KEPS S ZI         | 4.000 | St        |        |

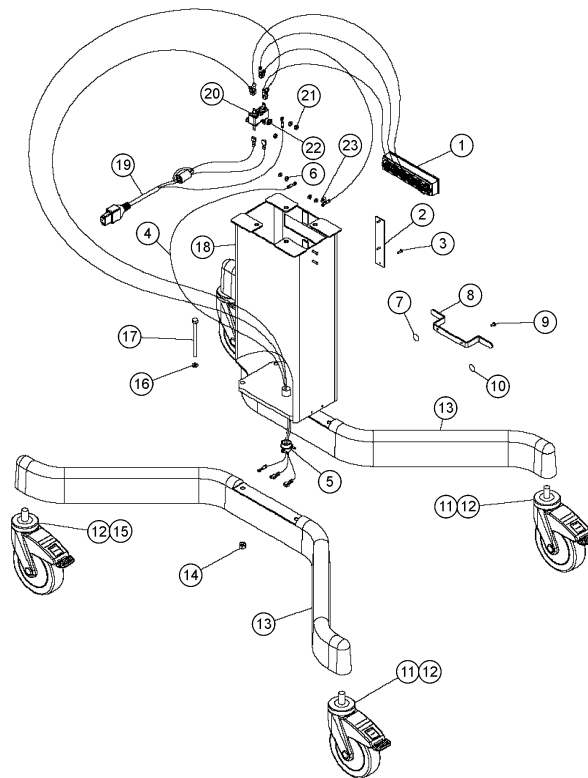


fig5-050mq50238-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 3        | MU15080  | SCR,4-40X3/8, TR PH SS         | 3.000 | St        |                                         |
| 6        | MU15422  | NUT,HEX,6-32 KEPS S ZI         | 4.000 | St        |                                         |
| 8        | MU15113  | SCR,6-32X5/16 TR PH SS NYLOK   | 2.000 | St        |                                         |
| 9        | MU12758  | CLEAT,POWER CORD               | 1.000 | St        |                                         |
| 10       | MU13016  | LABEL,MANUAL REFERENCE SYMBOL  | 1.000 | St        |                                         |
| 11       | MU12762  | CASTER,SWVL,4.92 DIA,TOTAL LK  | 3.000 | St        |                                         |
| 12       | MU15779  | LOCTITE                        | 0.000 | St        | Menge nach Bedarf/quantity as required; |
| 13       | MU14711  | LEG,BASE,EXTENDED,MACHINING    | 2.000 | St        |                                         |
| 14       | MU15446  | NUT,1/4-20 ES SS               | 4.000 | St        |                                         |
| 15       | MU12761  | CASTER,SWVL,4.92 DIA,DIR LK    | 1.000 | St        |                                         |
| 16       | MU15586  | WSHR,LK,SP,1/4 SS              | 4.000 | St        |                                         |
| 17       | MU15344  | SCR,1/4-20X3.50 CP HX S ZI GR5 | 4.000 | St        |                                         |
| 19       | MU02505  | CABLE ASSY,CONT PWR,VDE,FIXED  | 1.000 | St        |                                         |
| 20       | MU03057  | FILTER,LINE,115-250VAC         | 1.000 | St        |                                         |

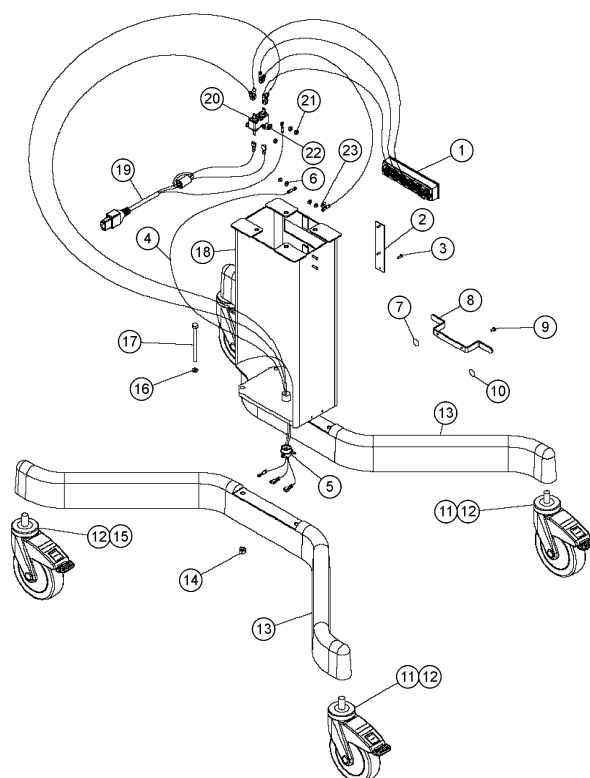


fig5-050mq50238-00

| Item No. | Part No. | Description                    | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------------------------|-------|-----------|--------|
| 21       | MU15427  | NUT,HEX,6-32 KEPS S ZI SM PATT | 3.000 | St        |        |
| 22       | MU06964  | LABEL,GROUND SYMBOL,PROTECTIVE | 1.000 | St        |        |
| 23       | MU06965  | LABEL,GROUND SYMBOL,FUNCTIONAL | 1.000 | St        |        |

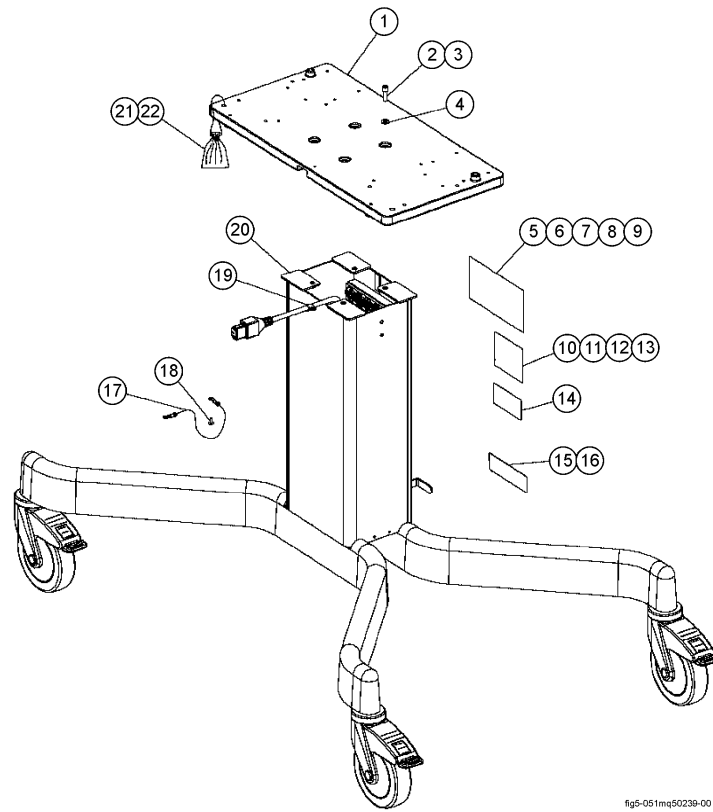


fig5-051mq50239-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 1        | MU12805  | PLATE,UPPER TRANSITION,MACH    | 1.000 | St        |                                         |
| 2        | MU15305  | SCR,1/4-20X3/4 CP SK S ZI      | 4.000 | St        |                                         |
| 3        | MU15779  | LOCTITE                        | 0.000 | St        | Menge nach Bedarf/quantity as required; |
| 4        | MU15586  | WSHR,LK,SP,1/4 SS              | 4.000 | St        |                                         |
| 17       | MU12783  | CABLE ASSY,GND,6.25" GRN       | 1.000 | St        |                                         |
| 18       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 1.000 | St        |                                         |
| 19       | MU03536  | CLAMP,CABLE,LOOP TY,AL/CSH,.25 | 1.000 | St        |                                         |
| 22       | MU15330  | SCR,1/4-20X1.50 CP HX SS NYLOK | 4.000 | St        |                                         |

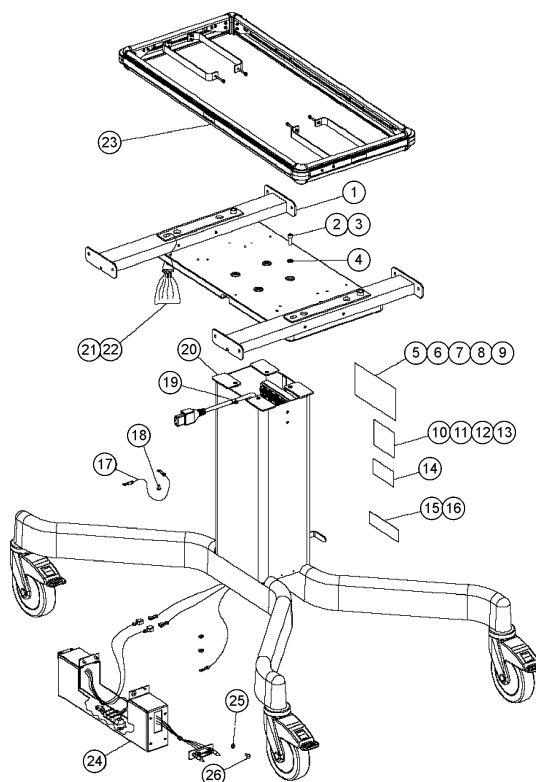


fig5-052mg50240-00

| Item No. | Part No. | Description                    | Qty.  | Qty. unit | Remark                                  |
|----------|----------|--------------------------------|-------|-----------|-----------------------------------------|
| 2        | MU15305  | SCR,1/4-20X3/4 CP SK S ZI      | 4.000 | St        |                                         |
| 3        | MU15779  | LOCTITE                        | 0.000 | St        | Menge nach Bedarf/quantity as required; |
| 4        | MU15586  | WSHR,LK,SP,1/4 SS              | 4.000 | St        |                                         |
| 17       | MU12783  | CABLE ASSY,GND,6.25" GRN       | 1.000 | St        |                                         |
| 18       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK    | 1.000 | St        |                                         |
| 19       | MU03536  | CLAMP,CABLE,LOOP TY,AL/CSH,.25 | 1.000 | St        |                                         |
| 25       | MU15554  | WSHR,LK,EXT,                   | 4.000 | St        |                                         |
| 26       | MU15185  | SCR,8-32X3/8 TR PH SS NYLOK    | 4.000 | St        |                                         |

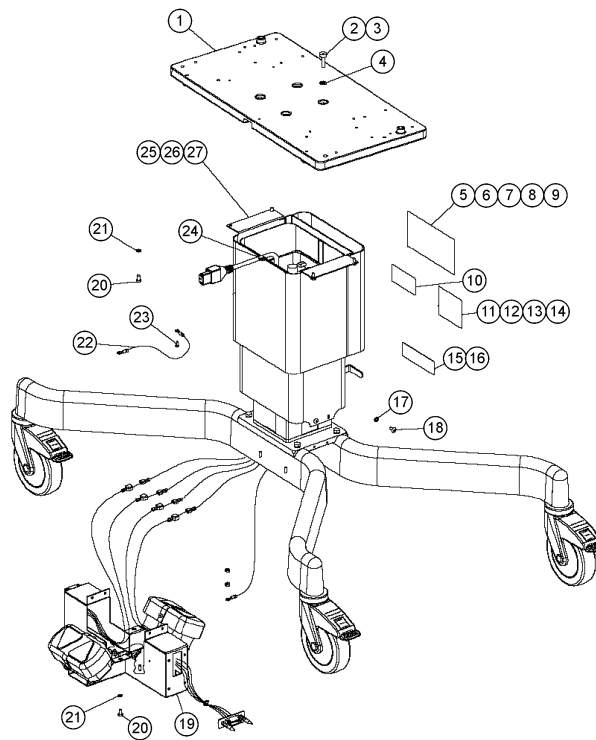


fig 5-053mg00241-00

| Item No. | Part No. | Description                     | Qty.  | Qty. unit | Remark                                  |
|----------|----------|---------------------------------|-------|-----------|-----------------------------------------|
| 1        | MU12805  | PLATE,UPPER TRANSITION,MACH     | 1.000 | St        |                                         |
| 2        | MU15896  | SCR,M6X1.0X25LG,CP SK SS        | 4.000 | St        |                                         |
| 3        | MU15779  | LOCTITE                         | 0.000 | St        | Menge nach Bedarf/quantity as required; |
| 4        | MU15586  | WSHR,LK,SP,1/4 SS               | 4.000 | St        |                                         |
| 17       | MU15554  | WSHR,LK,EXT,                    | 4.000 | St        |                                         |
| 18       | MU15185  | SCR,8-32X3/8 TR PH SS NYLOK     | 4.000 | St        |                                         |
| 21       | MU15568  | WSHR,LK,SP,                     | 8.000 | St        |                                         |
| 22       | MU12783  | CABLE ASSY,GND,6.25" GRN        | 1.000 | St        |                                         |
| 23       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK     | 1.000 | St        |                                         |
| 24       | MU03536  | CLAMP,CABLE,LOOP TY,AL/CSH, .25 | 1.000 | St        |                                         |
| 29       | MU15330  | SCR,1/4-20X1.50 CP HX SS NYLOK  | 4.000 | St        | ohne Abbildung/item not shown;          |

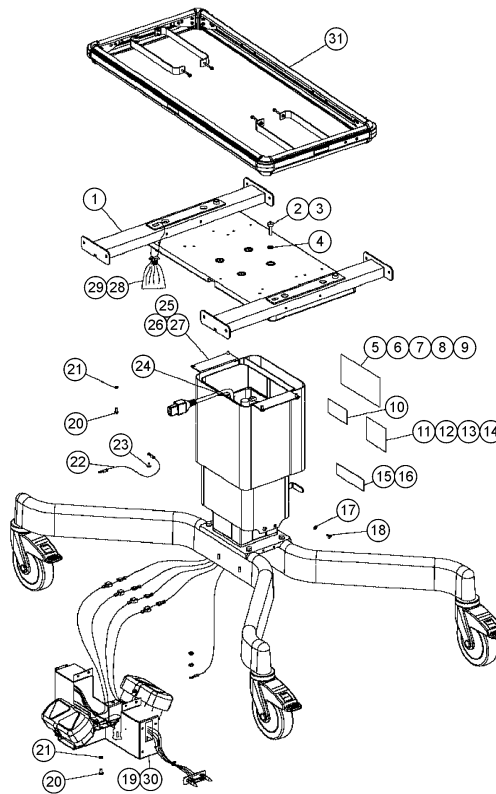


fig-054mp00242-00

| Item No. | Part No. | Description                     | Qty.  | Qty. unit | Remark                                  |
|----------|----------|---------------------------------|-------|-----------|-----------------------------------------|
| 1        | MU12805  | PLATE,UPPER TRANSITION,MACH     | 1.000 | St        |                                         |
| 2        | MU15896  | SCR,M6X1.0X25LG,CP SK SS        | 4.000 | St        |                                         |
| 3        | MU15779  | LOCTITE                         | 0.000 | St        | Menge nach Bedarf/quantity as required; |
| 4        | MU15586  | WSHR,LK,SP,1/4 SS               | 4.000 | St        |                                         |
| 17       | MU15554  | WSHR,LK,EXT,                    | 4.000 | St        |                                         |
| 18       | MU15185  | SCR,8-32X3/8 TR PH SS NYLOK     | 4.000 | St        |                                         |
| 21       | MU15568  | WSHR,LK,SP,                     | 8.000 | St        |                                         |
| 22       | MU12783  | CABLE ASSY,GND,6.25" GRN        | 1.000 | St        |                                         |
| 23       | MU15127  | SCR,6-32X3/8 TR PH SS NYLOK     | 1.000 | St        |                                         |
| 24       | MU03536  | CLAMP,CABLE,LOOP TY,AL/CSH, .25 | 1.000 | St        |                                         |

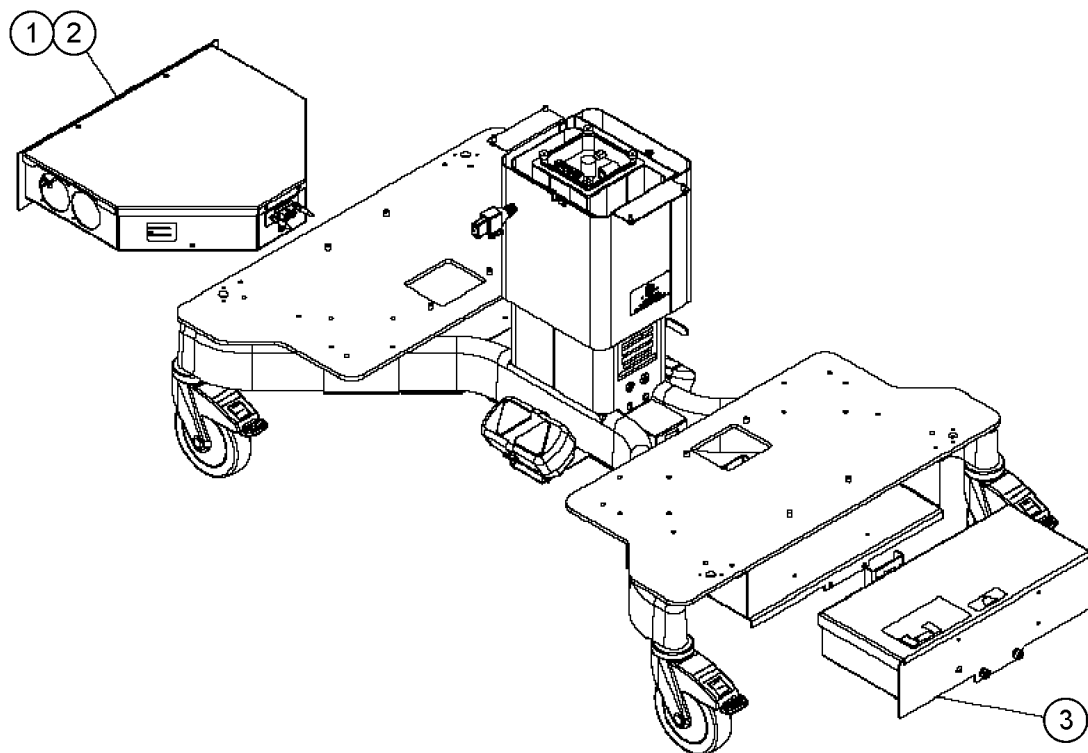


fig5-055mq50243-01-01

| Item No. | Part No. | Description  | Qty.  | Qty.u nit | Remark |
|----------|----------|--------------|-------|-----------|--------|
| 1        | MU16577  | UPS,120V,C2E | 1.000 | St        |        |
| 2        | MU16578  | UPS,230V,C2E | 1.000 | St        |        |

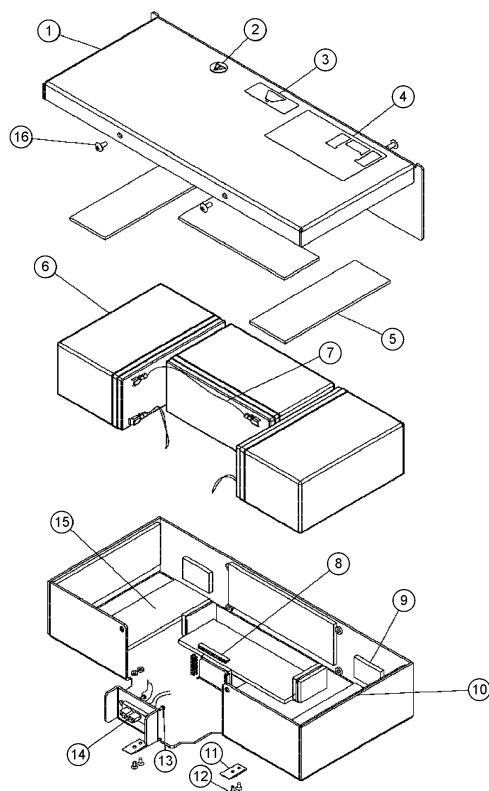


Fig. 0559mg050244-00

| Item No. | Part No. | Description                   | Qty.  | Qty. unit | Remark |
|----------|----------|-------------------------------|-------|-----------|--------|
| 2        | MU06845  | LABEL,MANUAL REFERENCE SYMBOL | 1.000 | St        |        |
| 6        | MU16051  | BATTERY,3PK,MKD,RECHG,12V,7A  | 1.000 | St        |        |
| 16       | MU15185  | SCR,8-32X3/8 TR PH SS NYLOK   | 6.000 | St        |        |

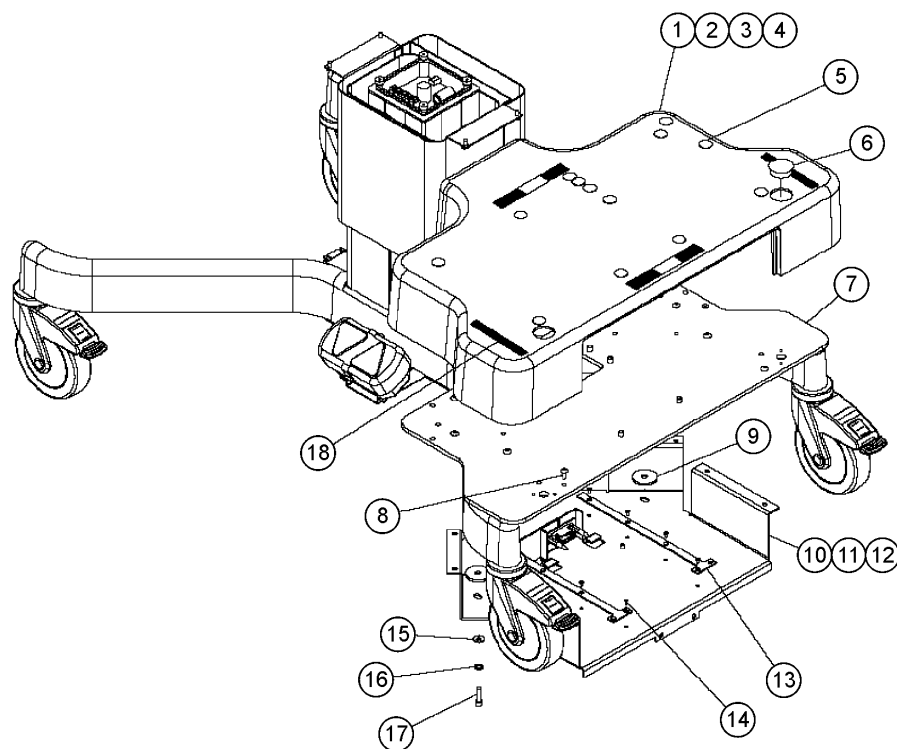


fig5-057mq50245-00

| Item No. | Part No. | Description                  | Qty.   | Qty.u nit | Remark |
|----------|----------|------------------------------|--------|-----------|--------|
| 5        | MU12858  | COVER,HOLE,.63DIA.           | 13.000 | St        |        |
| 8        | MU15238  | SCR,10-32X1/2 TR PH SS NYLOK | 8.000  | St        |        |
| 16       | MU15587  | WSHR,LK,INT,1/4 SS           | 2.000  | St        |        |
| 18       | MU13852  | PAD,LOCKING 2.00 X .50       | 4.000  | St        |        |

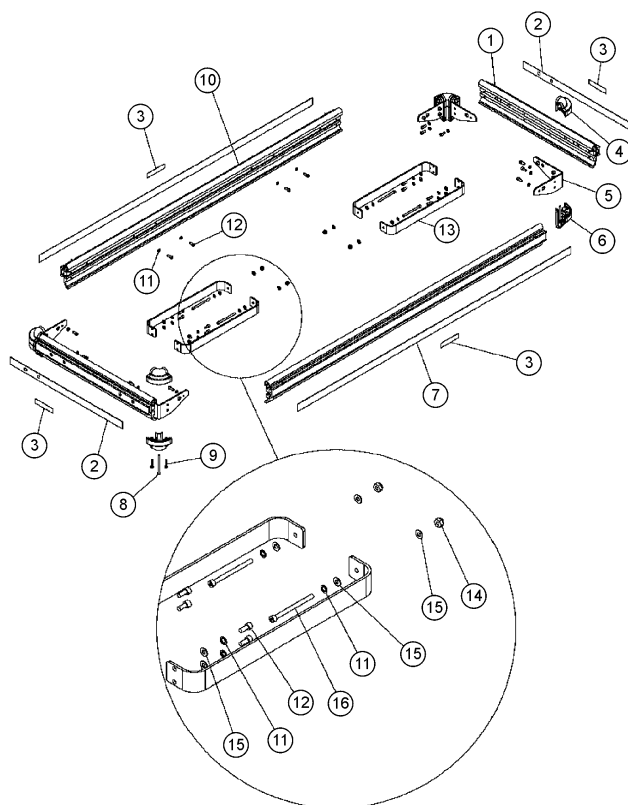


fig5-058mq50246-00

| Item No. | Part No. | Description            | Qty.   | Qty.u nit | Remark |
|----------|----------|------------------------|--------|-----------|--------|
| 9        | MU15154  | SCR,6-32X1.00,TR PH SS | 8.000  | St        |        |
| 11       | MU15566  | WSHR,LK,INT,           | 44.000 | St        |        |

## Assembly

| Description                        | Part No. |
|------------------------------------|----------|
| <b>Access Panel Assy High Rear</b> |          |
| ACCESS PANEL,HIGH                  | MU12673  |
| ACS DOOR CUFF,DISP,REPL,BX/100     | MU12683  |
| BRACKET,HEAT SHIELD,REAR           | MU12685  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10     | MU12702  |
| DOOR,ACCESS                        | MU12677  |
| GASKET,ACCESS DOOR                 | MU12679  |
| HEAT SHIELD,ACCESS PANEL,HIGH      | MU12256  |
| HINGE,ACCESS PANEL,LEFT REAR       | MU12698  |
| HINGE,ACCESS PANEL,RIGHT REAR      | MU12699  |
| HINGE,HEAT SHIELD                  | MU12682  |
| LATCH MOUNT,ACCESS DOOR            | MU12687  |
| LATCH,HEAT SHIELD                  | MU12681  |
| LOWER BODY,ACCESS PANEL LATCH      | MU12691  |
| MAGNET, .25SQ 1.00LG ALNICO        | MU12697  |
| PIVOT,HINGE,ACCESS DOOR            | MU08163  |
| PLATE,BACKUP,HINGE,HEAT SHIELD     | MU12676  |
| REPL KIT,ACCESS DOOR LATCH         | MU13393  |
| REPL KIT,ACCESS PANEL LATCH        | MU13392  |
| SCR,10-32X5/8 TR PH SS NYLOK       | MU15248  |
| SCR,6-32X3/8 TR PH SS NYLOK        | MU15127  |
| SCR,6-32X7/16 TR PH SS             | MU15130  |
| SCR,6-32X7/16 TR PH SS NYLOK       | MU15131  |
| SCR,6-32X9/16 TR PH SS NYLOK       | MU15142  |
| SCR,SLFTPG,8X3/8 PN PH SZ,48-2     | MU15401  |
| SPACER,6-32ID .31OD .50L ACTL      | MU12717  |
| SPRING,CPRS,.18OD .014W 1.50LG     | MU12693  |
| SPRING,TRSN,.27OD .030W .365LG     | MU08164  |
| UPPER BODY,ACCESS PANEL LATCH      | MU12690  |

## Assembly

| Description                          | Part No. |
|--------------------------------------|----------|
| <b>Access Panel Assy High, Front</b> |          |
| ACCESS PANEL,HIGH                    | MU12673  |
| ACS DOOR CUFF,DISP,REPL,BX/100       | MU12683  |
| BRACKET,HEAT SHIELD,FRONT            | MU12684  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10       | MU12702  |
| DOOR,ACCESS                          | MU12677  |
| GASKET,ACCESS DOOR                   | MU12679  |
| HEAT SHIELD,ACCESS PANEL,HIGH        | MU12256  |
| HINGE,ACCESS PANEL,LEFT FRONT        | MU12695  |
| HINGE,ACCESS PANEL,RIGHT FRONT       | MU12694  |
| HINGE,HEAT SHIELD                    | MU12682  |
| LATCH MOUNT,ACCESS DOOR              | MU12687  |
| LATCH,HEAT SHIELD                    | MU12681  |
| LOWER BODY,ACCESS PANEL LATCH        | MU12691  |
| MAGNET, .25SQ 1.00LG ALNICO          | MU12697  |
| PIVOT,HINGE,ACCESS DOOR              | MU08163  |
| PLATE,BACKUP,HINGE,HEAT SHIELD       | MU12676  |
| REPL KIT,ACCESS DOOR LATCH           | MU13393  |
| REPL KIT,ACCESS PANEL LATCH          | MU13392  |
| SCR,10-32X5/8 TR PH SS NYLOK         | MU15248  |
| SCR,6-32X3/8 TR PH SS NYLOK          | MU15127  |
| SCR,6-32X7/16 TR PH SS               | MU15130  |
| SCR,6-32X7/16 TR PH SS NYLOK         | MU15131  |
| SCR,6-32X9/16 TR PH SS NYLOK         | MU15142  |
| SCR,SLFTPG,#6X3/8 B PN PH SS         | MU15393  |
| SPACER,6-32ID .31OD .50L ACTL        | MU12717  |
| SPRING,CPRS,.18OD .014W 1.50LG       | MU12693  |
| SPRING,TRSN,.27OD .030W .365LG       | MU08164  |
| UPPER BODY,ACCESS PANEL LATCH        | MU12690  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>Access Panel front+rear door</b> |          |
| Access Panel front+rear door        | MQ50234  |
| DOOR,ACCESS                         | MU12677  |
| GASKET,ACCESS DOOR                  | MU12679  |
| HINGE,HEAT SHIELD                   | MU12682  |
| LATCH MOUNT,ACCESS DOOR             | MU12687  |
| LATCH,HEAT SHIELD                   | MU12681  |
| MAGNET, .25SQ 1.00LG ALNICO         | MU12697  |
| PIVOT,HINGE,ACCESS DOOR             | MU08163  |
| PLATE,HINGE & MAGNET                | MU12479  |
| PLATE,HINGE MTG,HEATSHIELD          | MU12675  |
| SCR,10-32X3/8 TR PH SS NYLOK        | MU15229  |
| SCR,6-32X3/8 TR PH SS NYLOK         | MU15127  |
| SCR,6-32X7/16 TR PH SS NYLOK        | MU15131  |
| SCR,6-32X9/16 TR PH SS NYLOK        | MU15142  |
| SCR,SLFTPG,8X3/8 PN PH SZ,48-2      | MU15401  |
| SPRING,TRSN,.27OD .030W .365LG      | MU08164  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>Accessories/Consumables</b>      |          |
| ACS DOOR CUFF, DISP, REPL, BX/100   | MU12683  |
| ACS PORT CUFFS, OV, REPL, BOX/100   | MU06570  |
| ADPTR, PROBE 4, SKIN TEMP, REUSE    | MU12520  |
| CELL, OXYGEN                        | MU13223  |
| CONN, PLUG, MALE, RTANG, AC, 10A250 | MU04774  |
| COVER, HUMIDITY RESERVOIR           | MU13161  |
| COVER, PROBE, CAREFORME, Box/100    | MU06944  |
| COVER, PROBE, CAREFORME, Box/100    | MU06943  |
| COVER, PROBE, CAREFORME, Box/25     | MU06947  |
| COVER, PROBE, CAREFORME, Box/25     | MU06948  |
| COVER, PROBE, CAREFORME, Box/500    | MU06945  |
| COVER, PROBE, CAREFORME, Box/500    | MU06946  |
| CRITTER COVERS, BOX/100             | MU06942  |
| CRITTER COVERS, BOX/600             | MU06941  |
| CUFF, ACS DOOR, REUSE, ISO, BOX/10  | MU12702  |
| FILTER, REPL, ISOLETTE, BOX/ 4      | MU12504  |
| GROMMET, ACCESS                     | MU12609  |
| HUMIDITY SYS ASSY, 230, SWE-GRE     | MU13209  |
| HUMIDITY SYSASSY, 120,              | MU17605  |
| HUMIDITY SYSASSY, 230, E/S/F/G/I    | MU13208  |
| HUMIDITY SYSTEM ASSY, 100V          | MU13210  |
| I.V. POLE ASSY, ISOLETTE            | MU12955  |
| IRIS PORT CUFFS, DISP, SOFT, 100    | MU06571  |
| IRIS PORT SLEEVE, BOX/100           | MU03876  |
| KLEENASEPTIC B, TRIGSPR, 24OZ, 12   | MU10832  |
| MATTRESS, FOAM, C2000               | MU12249  |
| MONITOR SHELF ASSY, HI, ISOLETTE    | MU12937  |
| MONITOR SHELF ASSY, LO, ISOLETTE    | MU12948  |
| NEAT-CLIPS, 0.38 DIA, BOX/100       | MU06562  |
| NEAT-CLIPS, 1.00 DIA, BOX/50        | MU06563  |
| OXYGEN ASSEMBLY, BLUE               | MU13239  |
| OXYGEN ASSEMBLY, GREEN DISS         | MU13236  |
| OXYGEN ASSEMBLY, NIST FTG           | MU13221  |
| OXYGEN ASSEMBLY, WHITE              | MU13238  |
| OXYGEN ASSEMBLY, WHITE DISS         | MU13240  |
| OXYGEN ASSY, DISS MALE, C2000       | MU16945  |
| OXYGEN TANK BRKT ASSY, ISOLETTE     | MU12952  |
| PROBE 4, SKNTMP, DSP, ISO, BX/10    | MU12525  |
| PROBE 5, LG, SKIN TMP, YSI, BOX/10  | MU12551  |
| PROBE 5, SKIN TEMP, REUSABLE        | MU12533  |
| RESERVOIR ASSY, HUMIDITY            | MU13202  |
| RESERVOIR, HUMIDITY                 | MU13162  |
| SCALE ASSEMBLY, ISOLETTE            | MU13060  |

**Assembly**

| Description                    | Part No. |
|--------------------------------|----------|
| SLEEVE,IRIS PORT,DISPOS,SOFT   | MU06566  |
| SWIVEL DRAWER ASSY,LARGE       | MU12870  |
| SWIVEL DRAWER ASSY,SMALL       | MU12880  |
| VENTILATOR TUBE SUPPORT,ISOLET | MU12254  |
| X-RAY TRAY LABEL/NON SLIP      | MU13413  |

**Attachment Shell/Pedest.Stand**

|                                |         |
|--------------------------------|---------|
| SCR,1/4-20X1.50 CP HX SS NYLOK | MU15330 |
|--------------------------------|---------|

**Base Column Assies (Overview)**

|                               |         |
|-------------------------------|---------|
| Base Column Assies (Overview) | MQ50235 |
| Leg,Base+Column Assembly VHA  | MQ50236 |
| Leg,Base+Column Fixed Height  | MQ50237 |
| Leg,Base+Column Fixed Height  | MQ50238 |

**Base Cover+Support C2000e**

|                              |         |
|------------------------------|---------|
| Base Cover+Support C2000e    | MQ50245 |
| COVER,HOLE,.63DIA.           | MU12858 |
| PAD,LOCKING 2.00 X .50       | MU13852 |
| SCR,10-32X1/2 TR PH SS NYLOK | MU15238 |
| WSHR,LK,INT,1/4 SS           | MU15587 |

**Basic Unit**

|                               |         |
|-------------------------------|---------|
| Access Panel front+rear door  | MQ50234 |
| Base Column Assies (Overview) | MQ50235 |
| Base Cover+Support C2000e     | MQ50245 |
| Battery Pack/UPS              | MQ50244 |
| Fixed Height Stand (C2000)    | MQ50239 |
| Fixed Height Stand (C2000e)   | MQ50240 |
| Incubator Hood and Shell Assy | MQ50227 |
| Mattress Tray (Overview)      | MQ50231 |
| Rail System for C2000e        | MQ50246 |
| Uninterruptible Power Supply  | MQ50243 |
| VHA Stand (C2000)             | MQ50241 |
| VHA Stand (C2000e)            | MQ50242 |

**Battery Pack/UPS**

|                               |         |
|-------------------------------|---------|
| Battery Pack/UPS              | MQ50244 |
| BATTERY,3PK,MKD,RECHG,12V,7A  | MU16051 |
| LABEL,MANUAL REFERENCE SYMBOL | MU06845 |
| SCR,8-32X3/8 TR PH SS NYLOK   | MU15185 |

**Controller Assembly C2C-2**

|                            |         |
|----------------------------|---------|
| CONTROLLER ASSEMBLY        | MU16972 |
| CONTROLLER ASSEMBLY C2000e | MU16974 |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Fix.-Height Pedest. Stand Assy</b> |          |
| BUSHING,SHLDR,PLSTC,1.25ID            | MU09737  |
| CABLE ASSY,AC PWR CORD,GRA,15A        | MU02502  |
| CABLE ASSY,AC PWR,VDE,GRA,15A         | MU02504  |
| CABLE ASSY,CONT PWR,VDE,FIXED         | MU02505  |
| CABLE ASSY,GND,6.25" GRN              | MU12783  |
| CASTER,SWIVEL,5.00 DIA,W/BK           | MU12751  |
| CASTER,SWVL,4.92 DIA,DIR LK           | MU12761  |
| CASTER,SWVL,4.92 DIA,TOTAL LK         | MU12762  |
| CKT BRKR,DPST/SF 15.0A 250/28V        | MU02609  |
| CLAMP,CABLE,LOOP TY,AL/CSH,.25        | MU03536  |
| CLAMP,CABLE,LOOP TY,NYL,.25ID         | MU02892  |
| CLEAT,POWER CORD                      | MU12758  |
| FERRITE SUPPRESSOR,.280 ID            | MU03069  |
| FILTER,LINE,115-250VAC                | MU03057  |
| LABEL,GROUND SYMBOL,FUNCTIONAL        | MU06965  |
| LABEL,GROUND SYMBOL,PROTECTIVE        | MU06964  |
| LABEL,MANUAL REFERENCE SYMBOL         | MU13016  |
| LABEL,MANUAL REFERENCE SYMBOL         | MU06845  |
| LEG,BASE,MACHINED                     | MU12746  |
| LOCTITE #242                          | MU15779  |
| NUT,1/4-20 ES SS                      | MU15446  |
| NUT,HEX,6-32 KEPS S ZI                | MU15422  |
| NUT,HEX,6-32 KEPS S ZI SM PATT        | MU15427  |
| PLATE,UPPER TRANSITION,MACH           | MU12805  |
| SCR,1/4-20X1.50 CP HX SS NYLOK        | MU15330  |
| SCR,1/4-20X3.50 CP HX S ZI GR5        | MU15344  |
| SCR,1/4-20X3/4 CP SK S ZI             | MU15305  |
| SCR,6-32X3/8 TR PH SS NYLOK           | MU15127  |
| SCR,6-32X5/16 TR PH SS NYLOK          | MU15113  |
| SCR,8-32X3/8 TR PH SS NYLOK           | MU15185  |
| STRAIN RLF,STR,ADJ UP TO .400D        | MU03529  |
| WSHR,LK,EXT,#10 SS                    | MU15567  |
| WSHR,LK,EXT,#8 SS                     | MU15554  |
| WSHR,LK,INT,1/4 SS                    | MU15587  |
| WSHR,LK,SP,1/4 SS                     | MU15586  |

## Assembly

| Description                        | Part No. |
|------------------------------------|----------|
| <b>Fixed Height Stand (C2000)</b>  |          |
| CABLE ASSY,GND,6.25" GRN           | MU12783  |
| CLAMP,CABLE,LOOP TY,AL/CSH,.25     | MU03536  |
| Fixed Height Stand (C2000)         | MQ50239  |
| LOCTITE #242                       | MU15779  |
| PLATE,UPPER TRANSITION,MACH        | MU12805  |
| SCR,1/4-20X1.50 CP HX SS NYLOK     | MU15330  |
| SCR,1/4-20X3/4 CP SK S ZI          | MU15305  |
| SCR,6-32X3/8 TR PH SS NYLOK        | MU15127  |
| WSHR,LK,SP,1/4 SS                  | MU15586  |
| <b>Fixed Height Stand (C2000e)</b> |          |
| CABLE ASSY,GND,6.25" GRN           | MU12783  |
| CLAMP,CABLE,LOOP TY,AL/CSH,.25     | MU03536  |
| Fixed Height Stand (C2000e)        | MQ50240  |
| LOCTITE #242                       | MU15779  |
| SCR,1/4-20X3/4 CP SK S ZI          | MU15305  |
| SCR,6-32X3/8 TR PH SS NYLOK        | MU15127  |
| SCR,8-32X3/8 TR PH SS NYLOK        | MU15185  |
| WSHR,LK,EXT,#8 SS                  | MU15554  |
| WSHR,LK,SP,1/4 SS                  | MU15586  |
| <b>Front and Rear Foot Switch</b>  |          |
| SCR,SHLDR,.187D .18L,8-32,NYLK     | MU15730  |
| SPRING,CPRS,.42OD .051W 2.50LG     | MU12750  |
| WIRING ASSY,FOOT SWITCH,FRONT      | MU12810  |
| WIRING ASSY,FOOT SWITCH,REAR       | MU12811  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>Height Adjust. Pedest. Stand</b> |          |
| CABLE ASSY,AC PWR CORD,GRA,15A      | MU02502  |
| CABLE ASSY,AC PWR,VDE,GRA,15A       | MU02504  |
| CABLE ASSY,BRKR,17" WHT/BLU         | MU12770  |
| CABLE ASSY,BRKR,17" WHT/BLU         | MU12777  |
| CABLE ASSY,BRKR,17" WHT/BRN         | MU12769  |
| CABLE ASSY,CONT PWR,VDE,VHA         | MU02503  |
| CABLE ASSY,GND,14" GRN/YEL          | MU12782  |
| CABLE ASSY,GND,6.25" GRN            | MU12783  |
| CABLE ASSY,MTR TO FS,17",ORN        | MU12790  |
| CABLE ASSY,MTR TO FS,17",RED        | MU12789  |
| CASTER,SWVL,4.92 DIA,DIR LK         | MU12761  |
| CASTER,SWVL,4.92 DIA,TOTAL LK       | MU12762  |
| CKT BRKR,DPST/SF 15.0A 250/28V      | MU02609  |
| CLAMP,CABLE,LOOP TY,AL/CSH,.25      | MU03536  |
| CLEAT,POWER CORD                    | MU12758  |
| CONN,RCPT,MALE,10A 250V,RFI         | MU03623  |
| FERRITE SUPPRESSOR,.280 ID          | MU03069  |
| FILTER,LINE,115-250VAC              | MU03057  |
| FOOT SWITCH ASSY FRONT              | MU12813  |
| FOOT SWITCH ASSY REAR               | MU12815  |
| LABEL,GROUND SYMBOL,PROTECTIVE      | MU06964  |
| LABEL,MANUAL REFERENCE SYMBOL       | MU06845  |
| LEG,BASE,MACHINED                   | MU12746  |
| LOCTITE #242                        | MU15779  |
| NUT,1/4-20 ES SS                    | MU15446  |
| NUT,HEX,6-32 KEPS S ZI              | MU15422  |
| NUT,HEX,6-32 KEPS S ZI SM PATT      | MU15427  |
| PLATE,UPPER TRANSITION,MACH         | MU12805  |
| SCR,1/4-20X1.50 CP HX SS NYLOK      | MU15330  |
| SCR,6-32X1.12 TR PH SS NYLOK        | MU15158  |
| SCR,6-32X3/8 TR PH SS NYLOK         | MU15127  |
| SCR,6-32X5/16 TR PH SS NYLOK        | MU15113  |
| SCR,6-32X7/16 TR PH SS NYLOK        | MU15131  |
| SCR,8-32X3/8 TR PH SS NYLOK         | MU15185  |
| SCR,M6X1.0X25LG,CP SK SS            | MU15896  |
| STANDOFF,6-32ID .25HX .56L NYL      | MU15490  |
| STRAIN RLF,STR,ADJ UP TO .400D      | MU03529  |
| WIRE TIE (4.50 LG)                  | MU01975  |
| WSHR,LK,EXT,#8 SS                   | MU15554  |
| WSHR,LK,EXT,1/4 SS                  | MU15595  |
| WSHR,LK,SP,#10 S4                   | MU15568  |
| WSHR,LK,SP,1/4 SS                   | MU15586  |

## Assembly

| Description                        | Part No. |
|------------------------------------|----------|
| <b>High Monitor Shelf Assembly</b> |          |
| LOCTITE,NO.271-05(0.5CC TUBE)      | MU15769  |
| MONITOR SHELF SUBASSY,ISOLETTE     | MU12949  |
| POLE,MONITOR SHELF, 8.63           | MU12940  |
| POLE,MONITOR SHELF,26.32           | MU12939  |
| SCR,1/4-20X2.00 FL PH SS NYLOK     | MU15336  |
| SCR,10-32X1.75 CP HX SS NYLOK      | MU15268  |
| SCR,5/16-18X1.38 CP HX S ZI        | MU15358  |
| SUPPORT ARM,MONITOR/IV POLE        | MU12938  |
| WASHER,6.5X.75X.09,POLYETH         | MU12950  |
| WSHR,LK,EXT,#10 SS                 | MU15567  |
| WSHR,LK,SP,5/16 S CA               | MU15609  |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Hood Assy,HI,Dual Acs,1door+ip</b> |          |
| ACS DOOR CUFF,DISP,REPL,BX/100        | MU12683  |
| BASE,SCREW,1/4-20 PN                  | MU05563  |
| CLAMP,CABLE,SPR TY,NYL .38ID          | MU11061  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10        | MU12702  |
| DOOR,ACCESS                           | MU12677  |
| GASKET,ACCESS DOOR                    | MU12679  |
| GROMMET,ACCESS                        | MU12609  |
| HINGE,HOOD/ACCESS PNL,LEFT FR         | MU12601  |
| HINGE,HOOD/ACCESS PNL,RIGHT FR        | MU12600  |
| HINGE,HOOD/ACS PNL,LEFT REAR          | MU12602  |
| HINGE,HOOD/ACS PNL,RIGHT REAR         | MU12603  |
| IRIS PORT CUFFS,DISP,SOFT,100         | MU06571  |
| KEEPER,ACCESS PANEL LATCH             | MU12604  |
| LATCH MOUNT,ACCESS DOOR               | MU12687  |
| NUT,ACORN,6-32 AL                     | MU15421  |
| NUT,HEX,6-32 SS                       | MU15417  |
| PIVOT,HINGE,ACCESS DOOR               | MU08163  |
| PLATE,BACKUP,HINGE,LF & RR            | MU12607  |
| PLATE,BACKUP,HINGE,LR & RF            | MU12608  |
| PLATE,COVER,NO CAL. FIXT.             | MU12622  |
| REPL KIT,ACCESS DOOR LATCH            | MU13393  |
| REPL KIT,DUAL ACS,IPL ADR,PAWL        | MU13438  |
| RING ASSY,IRIS PORT,LG FLANGE         | MU06573  |
| RING,RETAINING,IRIS PORT,CLEAR        | MU06545  |
| SCR,10-32X3/4 TR PH SS,NY STP         | MU15254  |
| SCR,6-32X5/8 PN PH SS NYLOK           | MU15147  |
| SCR,6-32X9/16 TR PH SS                | MU15141  |
| SCR,6-32X9/16 TR PH SS NYLOK          | MU15142  |
| SLEEVE,IRIS PORT,REUSABLE             | MU01962  |
| SLIDE ASSY,SENSOR MODULE              | MU12626  |
| SPRING,TRSN,.27OD .030W .365LG        | MU08164  |
| STANDOFF,6-32ID .38OD .44L ACT        | MU07188  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>Hood Assy,HI,Dual Acs,AD I+r</b> |          |
| ACS DOOR CUFF,DISP,REPL,BX/100      | MU12683  |
| BASE,SCREW,1/4-20 PN                | MU05563  |
| CLAMP,CABLE,SPR TY,NYL .38ID        | MU11061  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10      | MU12702  |
| DOOR,ACCESS                         | MU12677  |
| GASKET,ACCESS DOOR                  | MU12679  |
| GROMMET,ACCESS                      | MU12609  |
| HINGE,HOOD/ACCESS PNL,LEFT FR       | MU12601  |
| HINGE,HOOD/ACCESS PNL,RIGHT FR      | MU12600  |
| HINGE,HOOD/ACS PNL,LEFT REAR        | MU12602  |
| HINGE,HOOD/ACS PNL,RIGHT REAR       | MU12603  |
| LATCH MOUNT,ACCESS DOOR             | MU12687  |
| NUT,ACORN,6-32 AL                   | MU15421  |
| NUT,HEX,6-32 SS                     | MU15417  |
| PIVOT,HINGE,ACCESS DOOR             | MU08163  |
| PLATE,BACKUP,HINGE,LF & RR          | MU12607  |
| PLATE,BACKUP,HINGE,LR & RF          | MU12608  |
| PLATE,COVER,SLIDE FIXTURE           | MU12667  |
| REPL KIT,ACCESS DOOR LATCH          | MU13393  |
| SCR,10-32X3/4 TR PH SS,NY STP       | MU15254  |
| SCR,6-32X5/8 PN PH SS NYLOK         | MU15147  |
| SCR,6-32X7/16,FL PH SS              | MU15129  |
| SCR,6-32X9/16 TR PH SS              | MU15141  |
| SCR,6-32X9/16 TR PH SS NYLOK        | MU15142  |
| SLIDE ASSY,SENSOR MODULE            | MU12626  |
| SLIDE LOCK,SENSOR MODULE            | MU12670  |
| SPACER,6-32ID .31OD .38L ACTL       | MU12716  |
| SPRING,TRSN,.27OD .030W .365LG      | MU08164  |
| STANDOFF,6-32ID .38OD .44L ACT      | MU07188  |
| WASHER,CRV SPR MOD-SLIDE LOCK       | MU12669  |
| WSHR,FL,.150ID .31OD .06T NYL       | MU15525  |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Hood Assy,HI,Dual Acs,door l+r</b> |          |
| ACS DOOR CUFF,DISP,REPL,BX/100        | MU12683  |
| BASE,SCREW,1/4-20 PN                  | MU05563  |
| CLAMP,CABLE,SPR TY,NYL .38ID          | MU11061  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10        | MU12702  |
| DOOR,ACCESS                           | MU12677  |
| GASKET,ACCESS DOOR                    | MU12679  |
| GROMMET,ACCESS                        | MU12609  |
| HINGE,HOOD/ACCESS PNL,LEFT FR         | MU12601  |
| HINGE,HOOD/ACCESS PNL,RIGHT FR        | MU12600  |
| HINGE,HOOD/ACS PNL,LEFT REAR          | MU12602  |
| HINGE,HOOD/ACS PNL,RIGHT REAR         | MU12603  |
| KEEPER,ACCESS PANEL LATCH             | MU12604  |
| LATCH MOUNT,ACCESS DOOR               | MU12687  |
| NUT,ACORN,6-32 AL                     | MU15421  |
| NUT,HEX,6-32 SS                       | MU15417  |
| PIVOT,HINGE,ACCESS DOOR               | MU08163  |
| PLATE,BACKUP,HINGE,LF & RR            | MU12607  |
| PLATE,BACKUP,HINGE,LR & RF            | MU12608  |
| PLATE,COVER,NO CAL. FIXT.             | MU12622  |
| REPL KIT,ACCESS DOOR LATCH            | MU13393  |
| SCR,10-32X3/4 TR PH SS,NY STP         | MU15254  |
| SCR,6-32X5/8 PN PH SS NYLOK           | MU15147  |
| SCR,6-32X9/16 TR PH SS                | MU15141  |
| SCR,6-32X9/16 TR PH SS NYLOK          | MU15142  |
| SLIDE ASSY,SENSOR MODULE              | MU12626  |
| SPRING,TRSN,.27OD .030W .365LG        | MU08164  |
| STANDOFF,6-32ID .38OD .44L ACT        | MU07188  |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Hood Assy,HI,Dual Acs,ip l,d r</b> |          |
| ACS DOOR CUFF,DISP,REPL,BX/100        | MU12683  |
| BASE,SCREW,1/4-20 PN                  | MU05563  |
| CLAMP,CABLE,SPR TY,NYL .38ID          | MU11061  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10        | MU12702  |
| DOOR,ACCESS                           | MU12677  |
| GASKET,ACCESS DOOR                    | MU12679  |
| GROMMET,ACCESS                        | MU12609  |
| HINGE,HOOD/ACCESS PNL,LEFT FR         | MU12601  |
| HINGE,HOOD/ACCESS PNL,RIGHT FR        | MU12600  |
| HINGE,HOOD/ACS PNL,LEFT REAR          | MU12602  |
| HINGE,HOOD/ACS PNL,RIGHT REAR         | MU12603  |
| IRIS PORT CUFFS,DISP,SOFT,100         | MU06571  |
| LATCH MOUNT,ACCESS DOOR               | MU12687  |
| NUT,ACORN,6-32 AL                     | MU15421  |
| NUT,HEX,6-32 SS                       | MU15417  |
| PIVOT,HINGE,ACCESS DOOR               | MU08163  |
| PLATE,BACKUP,HINGE,LF & RR            | MU12607  |
| PLATE,BACKUP,HINGE,LR & RF            | MU12608  |
| PLATE,COVER,SLIDE FIXTURE             | MU12667  |
| REPL KIT,ACCESS DOOR LATCH            | MU13393  |
| REPL KIT,DUAL ACS,IPL ADR,PAWL        | MU13438  |
| RING ASSY,IRIS PORT,LG FLANGE         | MU06573  |
| RING,RETAINING,IRIS PORT,CLEAR        | MU06545  |
| SCR,10-32X3/4 TR PH SS,NY STP         | MU15254  |
| SCR,6-32X5/8 PN PH SS NYLOK           | MU15147  |
| SCR,6-32X7/16,FL PH SS                | MU15129  |
| SCR,6-32X9/16 TR PH SS                | MU15141  |
| SCR,6-32X9/16 TR PH SS NYLOK          | MU15142  |
| SLEEVE,IRIS PORT,REUSABLE             | MU01962  |
| SLIDE ASSY,SENSOR MODULE              | MU12626  |
| SLIDE LOCK,SENSOR MODULE              | MU12670  |
| SPACER,6-32ID .31OD .38L ACTL         | MU12716  |
| SPRING,TRSN,.27OD .030W .365LG        | MU08164  |
| STANDOFF,6-32ID .38OD .44L ACT        | MU07188  |
| WASHER,CRV SPR MOD-SLIDE LOCK         | MU12669  |
| WSHR,FL,.150ID .31OD .06T NYL         | MU15525  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>Hood Assy,HI,Dual Acs,ip l+r</b> |          |
| BASE,SCREW,1/4-20 PN                | MU05563  |
| CLAMP,CABLE,SPR TY,NYL .38ID        | MU11061  |
| GROMMET,ACCESS                      | MU12609  |
| HINGE,HOOD/ACCESS PNL,LEFT FR       | MU12601  |
| HINGE,HOOD/ACCESS PNL,RIGHT FR      | MU12600  |
| HINGE,HOOD/ACS PNL,LEFT REAR        | MU12602  |
| HINGE,HOOD/ACS PNL,RIGHT REAR       | MU12603  |
| IRIS PORT CUFFS,DISP,SOFT,100       | MU06571  |
| NUT,ACORN,6-32 AL                   | MU15421  |
| NUT,HEX,6-32 SS                     | MU15417  |
| PLATE,BACKUP,HINGE,LF & RR          | MU12607  |
| PLATE,BACKUP,HINGE,LR & RF          | MU12608  |
| PLATE,COVER,SLIDE FIXTURE           | MU12667  |
| REPL KIT,DUAL ACS,IP L&R,PAWL       | MU13436  |
| RING ASSY,IRIS PORT,LG FLANGE       | MU06573  |
| RING,RETAINING,IRIS PORT,CLEAR      | MU06545  |
| SCR,10-32X3/4 TR PH SS,NY STP       | MU15254  |
| SCR,6-32X5/8 PN PH SS NYLOK         | MU15147  |
| SCR,6-32X7/16,FL PH SS              | MU15129  |
| SCR,6-32X9/16 TR PH SS              | MU15141  |
| SCR,6-32X9/16 TR PH SS NYLOK        | MU15142  |
| SLEEVE,IRIS PORT,REUSABLE           | MU01962  |
| SLIDE ASSY,SENSOR MODULE            | MU12626  |
| SLIDE LOCK,SENSOR MODULE            | MU12670  |
| SPACER,6-32ID .31OD .38L ACTL       | MU12716  |
| STANDOFF,6-32ID .38OD .44L ACT      | MU07188  |
| WASHER,CRV SPR MOD-SLIDE LOCK       | MU12669  |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Hood Assy,HI,FrontAcs,2d,ipl+r</b> |          |
| ACS DOOR CUFF,DISP,REPL,BX/100        | MU12683  |
| BASE,SCREW,1/4-20 PN                  | MU05563  |
| BRACKET,HEAT SHIELD,REAR              | MU12685  |
| CLAMP,CABLE,SPR TY,NYL .38ID          | MU11061  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10        | MU12702  |
| DOOR,ACCESS                           | MU12677  |
| GASKET,ACCESS DOOR                    | MU12679  |
| GROMMET,ACCESS                        | MU12609  |
| HEAT SHIELD,ACCESS PANEL,HIGH         | MU12256  |
| HINGE,ACCESS PANEL,LEFT REAR          | MU12698  |
| HINGE,ACCESS PANEL,RIGHT REAR         | MU12699  |
| HINGE,HEAT SHIELD                     | MU12682  |
| HINGE,HOOD/ACCESS PNL,LEFT FR         | MU12601  |
| HINGE,HOOD/ACCESS PNL,RIGHT FR        | MU12600  |
| HINGE,HOOD/ACS PNL,LEFT REAR          | MU12602  |
| HINGE,HOOD/ACS PNL,RIGHT REAR         | MU12603  |
| HOOD HI FR ACS 2AD RR IP L&R          | MU12647  |
| IRIS PORT CUFFS,DISP,SOFT,100         | MU06571  |
| KEEPER,ACCESS PANEL LATCH             | MU12604  |
| LATCH MOUNT,ACCESS DOOR               | MU12687  |
| LATCH,HEAT SHIELD                     | MU12681  |
| MAGNET,.25SQ 1.00LG ALNICO            | MU12697  |
| NUT,ACORN,6-32 AL                     | MU15421  |
| NUT,HEX,6-32 SS                       | MU15417  |
| PIVOT,HINGE,ACCESS DOOR               | MU08163  |
| PLATE,BACKUP,HINGE,HEAT SHIELD        | MU12676  |
| PLATE,BACKUP,HINGE,LF & RR            | MU12607  |
| PLATE,BACKUP,HINGE,LR & RF            | MU12608  |
| PLATE,COVER,NO CAL. FIXT.             | MU12622  |
| PLATE,COVER,SLIDE FIXTURE             | MU12667  |
| PLATE,HINGE & MAGNET                  | MU12479  |
| REPL HEAT SHIELD,ACS PNL,PAWL         | MU12258  |
| REPL KIT,ACCESS DOOR LATCH            | MU13393  |
| REPL KIT,FR ACS,IP L&R,PAWL           | MU13437  |
| REPL KIT,L.REAR HINGE/BRACKET         | MU13452  |
| REPL KIT,R.REAR HINGE/BRKT,LKG        | MU13451  |
| RING ASSY,IRIS PORT,LG FLANGE         | MU06573  |
| RING,RETAINING,IRIS PORT,CLEAR        | MU06545  |
| SCR,10-32X3/4 TR PH SS,NY STP         | MU15254  |
| SCR,10-32X5/8 TR PH SS NYLOK          | MU15248  |
| SCR,6-32X3/8 TR PH SS NYLOK           | MU15127  |
| SCR,6-32X5/8 PN PH SS NYLOK           | MU15147  |
| SCR,6-32X7/16 TR PH SS NYLOK          | MU15131  |

**Assembly**

| <b>Description</b>              | <b>Part No.</b> |
|---------------------------------|-----------------|
| SCR,6-32X7/16,FL PH SS          | MU15129         |
| SCR,6-32X9/16 TR PH SS          | MU15141         |
| SCR,6-32X9/16 TR PH SS NYLOK    | MU15142         |
| SCR,SLFTPG,8X3/8 PN PH SZ,48-2  | MU15401         |
| SLEEVE,IRIS PORT,REUSABLE       | MU01962         |
| SLIDE ASSY,SENSOR MODULE        | MU12626         |
| SLIDE LOCK,SENSOR MODULE        | MU12670         |
| SPACER,6-32ID .31OD .38L ACTL   | MU12716         |
| SPRING,TRSN, .27OD .030W .365LG | MU08164         |
| STANDOFF,6-32ID .38OD .44L ACT  | MU07188         |
| WASHER,CRV SPR MOD-SLIDE LOCK   | MU12669         |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Hood Assy,HI,FrontAcs,door l+r</b> |          |
| ACS DOOR CUFF,DISP,REPL,BX/100        | MU12683  |
| BASE,SCREW,1/4-20 PN                  | MU05563  |
| BRACKET,HEAT SHIELD,REAR              | MU12685  |
| CLAMP,CABLE,SPR TY,NYL .38ID          | MU11061  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10        | MU12702  |
| DOOR,ACCESS                           | MU12677  |
| GASKET,ACCESS DOOR                    | MU12679  |
| GROMMET,ACCESS                        | MU12609  |
| HEAT SHIELD,ACCESS PANEL,HIGH         | MU12256  |
| HINGE,ACCESS PANEL,LEFT REAR          | MU12698  |
| HINGE,ACCESS PANEL,RIGHT REAR         | MU12699  |
| HINGE,HEAT SHIELD                     | MU12682  |
| HINGE,HOOD/ACCESS PNL,LEFT FR         | MU12601  |
| HINGE,HOOD/ACCESS PNL,RIGHT FR        | MU12600  |
| HINGE,HOOD/ACS PNL,LEFT REAR          | MU12602  |
| HINGE,HOOD/ACS PNL,RIGHT REAR         | MU12603  |
| KEEPER,ACCESS PANEL LATCH             | MU12604  |
| LATCH MOUNT,ACCESS DOOR               | MU12687  |
| LATCH,HEAT SHIELD                     | MU12681  |
| MAGNET, .25SQ 1.00LG ALNICO           | MU12697  |
| NUT,ACORN,6-32 AL                     | MU15421  |
| NUT,HEX,6-32 SS                       | MU15417  |
| PIVOT,HINGE,ACCESS DOOR               | MU08163  |
| PLATE,BACKUP,HINGE,HEAT SHIELD        | MU12676  |
| PLATE,BACKUP,HINGE,LF & RR            | MU12607  |
| PLATE,BACKUP,HINGE,LR & RF            | MU12608  |
| PLATE,COVER,NO CAL. FIXT.             | MU12622  |
| PLATE,COVER,SLIDE FIXTURE             | MU12667  |
| PLATE,HINGE & MAGNET                  | MU12479  |
| REPL HEAT SHIELD,ACS PNL,PAWL         | MU12258  |
| REPL KIT,ACCESS DOOR LATCH            | MU13393  |
| REPL KIT,L.REAR HINGE/BRACKET         | MU13452  |
| REPL KIT,R.REAR HINGE/BRKT,LKG        | MU13451  |
| SCR,10-32X3/4 TR PH SS,NY STP         | MU15254  |
| SCR,10-32X5/8 TR PH SS NYLOK          | MU15248  |
| SCR,6-32X3/8 TR PH SS NYLOK           | MU15127  |
| SCR,6-32X5/8 PN PH SS NYLOK           | MU15147  |
| SCR,6-32X7/16 TR PH SS NYLOK          | MU15131  |
| SCR,6-32X7/16,FL PH SS                | MU15129  |
| SCR,6-32X9/16 TR PH SS                | MU15141  |
| SCR,6-32X9/16 TR PH SS NYLOK          | MU15142  |
| SCR,SLFTPG,8X3/8 PN PH SZ,48-2        | MU15401  |
| SLIDE ASSY,SENSOR MODULE              | MU12626  |

**Assembly**

| Description                    | Part No. |
|--------------------------------|----------|
| SLIDE LOCK,SENSOR MODULE       | MU12670  |
| SPACER,6-32ID .31OD .38L ACTL  | MU12716  |
| SPRING,TRSN,.27OD .030W .365LG | MU08164  |
| STANDOFF,6-32ID .38OD .44L ACT | MU07188  |
| WASHER,CRV SPR MOD-SLIDE LOCK  | MU12669  |
| WSHR,FL,.150ID .31OD .06T NYL  | MU15525  |

**Humidity System Assemblies**

|                          |         |
|--------------------------|---------|
| Humidity System Assembly | MQ50230 |
|--------------------------|---------|

## Assembly

| Description                       | Part No. |
|-----------------------------------|----------|
| <b>Humidity System Assembly</b>   |          |
| BUMPER,RUBBER,RECESSED(W/WSHR)    | MU03791  |
| CAP,EVAPORATOR                    | MU13144  |
| CONN,1/8NPTM-1/4HOSE,BR NKL PL    | MU13130  |
| COVER,HUMIDITY RESERVOIR          | MU13161  |
| DISTLD WATER NOTE,MULTI LANG      | MU13559  |
| DOOR,HUMIDITY                     | MU13103  |
| DOOR,HUMIDITY                     | MU13171  |
| ELBOW,STREET,1/8NPT BR NKL PL     | MU13131  |
| HANDLE,HUMIDITY                   | MU13176  |
| Humidity System Assembly          | MQ50230  |
| LABEL,MANUAL REFERENCE SYMBOL     | MU13016  |
| MANIFOLD ASSY,HUMIDITY            | MU13198  |
| MANIFOLD ASSY,HUMIDITY,CPC FIT    | MU18655  |
| O-RING,.208 X .348 X .070 VITN    | MU15692  |
| OVERLAY,HUMIDITY DWR E/S/F/G/I    | MU12999  |
| OVERLAY,HUMIDITY DWR SWE-GRE      | MU13000  |
| PIN,3/32 DIA 2.968 LG SS          | MU13177  |
| PIPE SEALANT W/TFL(LOCT#592)      | MU15767  |
| REPL KIT,SEALS AND SPRING         | MU13435  |
| RESERVOIR ASSY,HUM,CPC FITTING    | MU17191  |
| RESERVOIR ASSY,HUMIDITY           | MU13202  |
| RESERVOIR,HUMIDITY                | MU13162  |
| SCR,6-32X3/8 FL PH SS NYLOK       | MU15123  |
| SCR,6-32X5/16 PN PH SS,SEMS EX    | MU15115  |
| SCR,6-32X5/16 TR PH SS NYLOK      | MU15113  |
| SEAL,SILICONE SPONGE, 1.380 OD    | MU13174  |
| SEAL,SILICONE SPONGE,.75 OD       | MU13167  |
| SPRING,CPRS,.360 .035W 0.812LG    | MU13170  |
| TRAY ASSY,HUMID E/S/F/G/I,C2E     | MU16571  |
| TRAY ASSY,HUMID,SWE-GRE,C2E       | MU16572  |
| TRAY ASSY,HUMIDITY E/S/F/G/I      | MU13204  |
| TRAY ASSY,HUMIDITY SWE-GRE        | MU13206  |
| TRAY,HUMIDITY RESERVOIR           | MU13163  |
| TUBING,W/ENDS .25 ID,24.00 LG     | MU13132  |
| WSHR,FL,1.29OD .88ID .015T SS     | MU13107  |
| WSHR,FL,2.00OD .99ID .06 POLYPR   | MU13108  |
| <b>Impeller Movement Detector</b> |          |
| PROBE,IMPELLER MOVEMENT DETECT    | MU12541  |

## Assembly

| Description                          | Part No. |
|--------------------------------------|----------|
| <b>Incubator Hood and Shell Assy</b> |          |
| ACCESS PANEL ASSY HIGH REAR          | MU12726  |
| BEARING,.251ID .29OD .41FLG NY       | MU12267  |
| CONTROLLER ASSEMBLY                  | MU16972  |
| CONTROLLER ASSEMBLY C2000e           | MU16974  |
| COVER,SCREW,LT GREY,1/4-20 PN        | MU05562  |
| HEATER ASSEMBLY,100V                 | MU12517  |
| HEATER ASSEMBLY,120V                 | MU12510  |
| HEATER ASSEMBLY,240V                 | MU12514  |
| HOOD ASSY HI DUAL ACS ADL&R          | MU12664  |
| HOOD ASSY,HI,DUAL ACS,IPL&R          | MU12660  |
| HOOD ASSY,HI,FR ACS,2AD ADL&R        | MU12666  |
| Incubator Hood and Shell Assy        | MQ50227  |
| LABEL,HOT SURFACE SYMBOL             | MU13018  |
| LABEL,OXY CONC & WARNINGS,ENG        | MU13027  |
| LABEL,OXY CONC & WARNINGS,FIN        | MU13041  |
| LABEL,OXY CONC & WARNINGS,GER        | MU13030  |
| MATTRESS,FOAM,C2000                  | MU12249  |
| NUT,WING,6-32,SS                     | MU15420  |
| OVERLAY,HUMIDITY PANEL               | MU12998  |
| RADIATOR,HEATER,MACHINING            | MU12500  |
| REPL ACCESS PANEL ASSY,HI,FRNT       | MU12732  |
| REPL ACCESS PANEL ASSY,HI,REAR       | MU12734  |
| REPL KIT,DUAL ACS,IPL ADR,PAWL       | MU13438  |
| REPL KIT,FR ACS,IP L&R,PAWL          | MU13437  |
| SCR,6-32X9/16 TR PH SS NYLOK         | MU15142  |
| SCR,SHLDR,.25D.38L 10-24SS NLK       | MU15729  |
| SENSOR MODULE ASSEMBLY               | MU12301  |
| TRAY,MATTRESS                        | MU12250  |
| TRAY,X-RAY                           | MU12252  |
| WIRING HARNESS ASSEMBLY,AC           | MU12488  |
| WSHR,FL,.20ID .50OD .04T BR NI       | MU15547  |
| WSHR,FL,.257ID .38OD .02T NYL        | MU15580  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>IV Pole Assembly</b>             |          |
| ADAPTER,I.V. POLE BASE              | MU12957  |
| BASE,I.V. POLE                      | MU12958  |
| CROSS ARM (I.V.)                    | MU03848  |
| LABEL,WEIGHT LIMIT,11 LBS           | MU12997  |
| LOCTITE,NO.271-05(0.5CC TUBE)       | MU15769  |
| LUBRICANT,DOW CORNING #111          | MU15760  |
| NUT,LOCKING,7/8-20 SPECIAL FAB      | MU03847  |
| SCR,10-32X1.75 CP HX SS NYLOK       | MU15268  |
| SCR,5/16-18X1.38 CP HX S ZI         | MU15358  |
| SCR,5/16-18X3/4 CP HX S ZI          | MU15352  |
| SUPPORT ARM,MONITOR/IV POLE         | MU12938  |
| UPPER EXT,I.V. POLE,11.38 LG        | MU12959  |
| WSHR,LK,EXT,#10 SS                  | MU15567  |
| WSHR,LK,SP,5/16 S CA                | MU15609  |
| <b>Leg,Base+Column Assembly VHA</b> |          |
| ACTUATOR,120V,HIGH THRUST           | MU12808  |
| CABLE ASSY,BRKR,17" WHT/BLU         | MU12770  |
| CABLE ASSY,BRKR,17" WHT/BRN         | MU12769  |
| CABLE ASSY,CONT PWR,VDE,VHA         | MU02503  |
| CABLE ASSY,GND,14" GRN/YEL          | MU12782  |
| CABLE ASSY,MTR TO FS,17",ORN        | MU12790  |
| CABLE ASSY,MTR TO FS,17",RED        | MU12789  |
| CASTER,SWVL,4.92 DIA,DIR LK         | MU12761  |
| CASTER,SWVL,4.92 DIA,TOTAL LK       | MU12762  |
| CLEAT,POWER CORD                    | MU12758  |
| CONN,ELEC TAP WIRE SPLC,20-18       | MU02331  |
| FILTER,LINE,115-250VAC              | MU03057  |
| LABEL,MANUAL REFERENCE SYMBOL       | MU13016  |
| LEG,BASE,EXTENDED,MACHINING         | MU14711  |
| Leg,Base+Column Assembly VHA        | MQ50236  |
| LOCTITE #242                        | MU15779  |
| NUT,1/4-20 ES SS                    | MU15446  |
| NUT,HEX,6-32 KEPS S ZI SM PATT      | MU15427  |
| SCR,1/4-20X3.50 CP HX S ZI GR5      | MU15344  |
| SCR,6-32X1.12 TR PH SS NYLOK        | MU15158  |
| SCR,6-32X1/4 TR PH SS               | MU15101  |
| SCR,6-32X5/16 TR PH SS NYLOK        | MU15113  |
| SCR,M6X1.0X25LG,CP SK SS            | MU15896  |
| WIRE TIE (4.50 LG)                  | MU01975  |
| WSHR,LK,EXT,#6 SS                   | MU15530  |
| WSHR,LK,SP,1/4 SS                   | MU15586  |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Leg,Base+Column Fixed Height</b>   |          |
| CABLE ASSY,CONT PWR,VDE,FIXED         | MU02505  |
| CAP ASSY,ISOLETTE STANDS              | MU12785  |
| CASTER,SWVL,4.92 DIA,DIR LK           | MU12761  |
| CASTER,SWVL,4.92 DIA,TOTAL LK         | MU12762  |
| CKT BRKR,DPST/SF 15.0A 250/28V        | MU02609  |
| CLEAT,POWER CORD                      | MU12758  |
| CORD LOCK ADAPTER                     | MU03546  |
| FILTER,LINE,115-250VAC                | MU03057  |
| LABEL,GROUND SYMBOL,FUNCTIONAL        | MU06965  |
| LABEL,GROUND SYMBOL,PROTECTIVE        | MU06964  |
| LABEL,MANUAL REFERENCE SYMBOL         | MU13016  |
| LEG,BASE,EXTENDED,MACHINING           | MU14711  |
| Leg,Base+Column Fixed Height          | MQ50238  |
| Leg,Base+Column Fixed Height          | MQ50237  |
| LOCTITE #242                          | MU15779  |
| NUT,1/4-20 ES SS                      | MU15446  |
| NUT,HEX,6-32 KEPS S ZI                | MU15422  |
| NUT,HEX,6-32 KEPS S ZI SM PATT        | MU15427  |
| SCR,1/4-20X3.50 CP HX S ZI GR5        | MU15344  |
| SCR,4-40X3/8 RD PH SS NYLOK           | MU15084  |
| SCR,4-40X3/8, TR PH SS                | MU15080  |
| SCR,6-32X5/16 TR PH SS NYLOK          | MU15113  |
| WSHR,LK,SP,1/4 SS                     | MU15586  |
| <b>Maintenance parts/Service kits</b> |          |
| BATTERY,3PK,MKD,RECHG,12V,7A          | MU16051  |
| CELL,OXYGEN                           | MU13223  |
| FILTER DISC                           | MU01958  |
| FILTER,REPL,ISOLETTE,BOX/ 4           | MU12504  |
| LATCH,HEAT SHIELD                     | MU12681  |
| REPL KIT,SEALS AND SPRING             | MU13435  |
| VALVE,SOLENOID,12VDC,70PSI,O2         | MU03664  |
| <b>Manuals/Techn. Documentation</b>   |          |
| MANUAL,OPER,ISOLETTE,ENG              | MU01367  |
| MANUAL,OPER,ISOLETTE,FRN              | MU13557  |
| MANUAL,OPER,ISOLETTE,GER              | MU13561  |
| MANUAL,OPER,ISOLETTE,ITL              | MU13564  |
| MANUAL,OPER,ISOLETTE,SPN              | MU13554  |
| OPER MANUAL ASSY,ISOLETTE,FRN         | MU13556  |
| OPER MANUAL ASSY,ISOLETTE,ITL         | MU13563  |

## Assembly

| Description                     | Part No. |
|---------------------------------|----------|
| <b>Mattress Tray</b>            |          |
| Mattress Tray                   | MQ50233  |
| Mattress Tray                   | MQ50232  |
| MATTRESS,FOAM,C2000             | MU12249  |
| TRAY,MATTRESS                   | MU12250  |
| TRAY,MATTRESS,FOR RESTRAINTS    | MU12253  |
| TRAY,X-RAY                      | MU12252  |
| <b>Mattress Tray (Overview)</b> |          |
| Mattress Tray                   | MQ50233  |
| Mattress Tray                   | MQ50232  |
| Mattress Tray (Overview)        | MQ50231  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>Oxygen System Assembly</b>       |          |
| "TAPE,PIPE JNT SEAL,TEFLON,.50""    | MU15740  |
| BLOCK,SOLENOID MOUNT                | MU13255  |
| CELL,OXYGEN                         | MU13223  |
| CLAMP,HOSE,.460 - .545 I.D.         | MU13252  |
| DOOR,ACCESS,PNEUMATIC MODULE        | MU12449  |
| ELBOW,90DEG,1/4HOSE-1/8NPT(M)       | MU03746  |
| FILTER,SUCTION,DISPOS,RECT          | MU13244  |
| HOOK,OXYGEN HOSE                    | MU13243  |
| HOSE,BRAIDED,PVC,CLR,1/4 ID         | MU13257  |
| ISOLATOR,VIB,.44OD .44LG 4LB        | MU07138  |
| NUT,HEX,8-32 KEPS S ZI              | MU15433  |
| OXY CNTL VALVE ASSY,DISS MALE       | MU16672  |
| OXY CNTL VALVE ASSY,NIST MALE       | MU16720  |
| OXY CNTL VLV ASSY,DISS FEMALE       | MU16673  |
| OXYGEN ASSY,DISS FEMALE,C2000       | MU16946  |
| OXYGEN ASSY,DISS FEMALE,C2000E      | MU16949  |
| OXYGEN ASSY,DISS MALE,C2000         | MU16945  |
| OXYGEN ASSY,DISS MALE,C2000E        | MU16948  |
| OXYGEN ASSY,NIST MALE,C2000         | MU16947  |
| OXYGEN ASSY,NIST MALE,C2000E        | MU16950  |
| OXYGEN CALIB. FIX ASSY,LOCKING      | MU13260  |
| OXYGEN HOSE,GREEN DISS              | MU13227  |
| PLATE,OXYGEN CELL MOUNTING          | MU13232  |
| REGULATOR,PRESSURE,40 PSI           | MU13249  |
| RETRO KIT,DUAL FLTR,OXY CONT V      | MU13404  |
| SCR,8-32X1/2, TR PH SS NYLOK        | MU15193  |
| SCR,8-32X1/4 TR PH SS NYLOK         | MU15171  |
| SCR,8-32X3/8 TR PH SS NYLOK         | MU15185  |
| SCR,8-32X5/16 TR PH SS              | MU15174  |
| SOUND COAT,MOUNTING PLATE           | MU13256  |
| SOUND COAT,SOLENOID MTG BLOCK       | MU13254  |
| VALVE,SOLENOID,12VDC,70PSI,O2       | MU03664  |
| WSHR,LK,INT,#8 SS                   | MU15553  |
| <b>Oxygen Tank Bracket Assembly</b> |          |
| CLAMP ASSY,TANK                     | MU12954  |
| HOOK,LATCH,MODIFIED                 | MU03758  |
| SCR,10-32X1/2 CP HX SS              | MU15237  |
| SCR,6-32X1/4 PN PH SS,SEMS EX       | MU15105  |
| WSHR,LK,INT,#10 SS                  | MU15566  |
| <b>Products concerned</b>           |          |
| C2000 ISOLETTE                      | MU20500  |
| C2000e ISOLETTE                     | MU20501  |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Rail System for C2000e</b>         |          |
| Rail System for C2000e                | MQ50246  |
| SCR,6-32X1.00,TR PH SS                | MU15154  |
| WSHR,LK,INT,#10 SS                    | MU15566  |
| <b>Repl Access Panel Assy,HI,Frnt</b> |          |
| ACCESS PANEL,HIGH                     | MU12673  |
| ACS DOOR CUFF,DISP,REPL,BX/100        | MU12683  |
| BRACKET,HEAT SHIELD,FRONT             | MU12684  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10        | MU12702  |
| DOOR,ACCESS                           | MU12677  |
| GASKET,ACCESS DOOR                    | MU12679  |
| HEAT SHIELD,ACCESS PANEL,HIGH         | MU12256  |
| HINGE,ACCESS PANEL,LEFT FRONT         | MU12695  |
| HINGE,ACCESS PANEL,RIGHT FRONT        | MU12694  |
| HINGE,HEAT SHIELD                     | MU12682  |
| KNOB & LATCH REPL KIT,ACS PNL         | MU08534  |
| LATCH MOUNT,ACCESS DOOR               | MU12687  |
| LATCH,HEAT SHIELD                     | MU12681  |
| MAGNET, .25SQ 1.00LG ALNICO           | MU12697  |
| PIVOT,HINGE,ACCESS DOOR               | MU08163  |
| PLATE,BACKUP,HINGE,HEAT SHIELD        | MU12676  |
| REPL KIT,ACCESS DOOR LATCH            | MU13393  |
| SCR,10-32X5/8 TR PH SS NYLOK          | MU15248  |
| SCR,6-32X3/8 TR PH SS NYLOK           | MU15127  |
| SCR,6-32X7/16 TR PH SS                | MU15130  |
| SCR,6-32X7/16 TR PH SS NYLOK          | MU15131  |
| SCR,6-32X9/16 TR PH SS NYLOK          | MU15142  |
| SCR,SLFTPG,8X3/8 PN PH SZ,48-2        | MU15401  |
| SPACER,6-32ID .31OD .50L ACTL         | MU12717  |
| SPRING,TRSN,.27OD .030W .365LG        | MU08164  |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Repl Access Panel Assy,HI,Rear</b> |          |
| ACS DOOR CUFF,DISP,REPL,BX/100        | MU12683  |
| BRACKET,HEAT SHIELD,REAR              | MU12685  |
| CUFF,ACS DOOR,REUSE,ISO,BOX/10        | MU12702  |
| DOOR,ACCESS                           | MU12677  |
| GASKET,ACCESS DOOR                    | MU12679  |
| HINGE,ACCESS PANEL,LEFT REAR          | MU12698  |
| HINGE,ACCESS PANEL,RIGHT REAR         | MU12699  |
| HINGE,HEAT SHIELD                     | MU12682  |
| KNOB & LATCH REPL KIT,ACS PNL         | MU08534  |
| LATCH MOUNT,ACCESS DOOR               | MU12687  |
| LATCH,HEAT SHIELD                     | MU12681  |
| MAGNET,.25SQ 1.00LG ALNICO            | MU12697  |
| PIVOT,HINGE,ACCESS DOOR               | MU08163  |
| PLATE,BACKUP,HINGE,HEAT SHIELD        | MU12676  |
| REPL ACCESS PANEL,HIGH                | MU12715  |
| REPL HEAT SHIELD,ACS PNL,PAWL         | MU12258  |
| REPL KIT,ACCESS DOOR LATCH            | MU13393  |
| SCR,10-32X5/8 TR PH SS NYLOK          | MU15248  |
| SCR,6-32X3/8 TR PH SS NYLOK           | MU15127  |
| SCR,6-32X7/16 TR PH SS                | MU15130  |
| SCR,6-32X7/16 TR PH SS NYLOK          | MU15131  |
| SCR,6-32X9/16 TR PH SS NYLOK          | MU15142  |
| SCR,SLFTPG,8X3/8 PN PH SZ,48-2        | MU15401  |
| SPACER,6-32ID .31OD .50L ACTL         | MU12717  |
| SPRING,TRSN,.27OD .030W .365LG        | MU08164  |
| <b>Repl Kit, Check Valve Assembly</b> |          |
| "TAPE,PIPE JNT SEAL,TEFLON,.50""      | MU15740  |
| CHECK VALVE,1/4NPT F IN,M OUT         | MU10486  |
| CLAMP,HOSE,.460 - .545 I.D.           | MU13252  |
| CONN,BARB,1/4HOSE X 1/8NPT(M)         | MU01647  |
| DIAPHRAGM                             | MU06679  |
| FILTER DISC                           | MU01958  |
| Gasket, Body, Check Valve             | MU12586  |
| LOCTITE,SCREWLOCK NO.222              | MU15772  |
| PISTON,CHECK VALVE                    | MU12584  |
| PLUG,1/4ID HOSE,1.00LG,DELTRIN        | MU12580  |
| RING,RETAINING,WAL 5105-6255          | MU15720  |
| RING,RTNG,INT,0.500 DIA SS            | MU15719  |
| SCR,6-32X1.75 FL PH SS                | MU15165  |
| Seal, Piston, Check Valve             | MU12585  |
| SOUND COAT,MOUNTING PLATE             | MU13256  |
| SPRING,CPRS,1.04OD .040W 1.00L        | MU12583  |
| WSHR,FL,.628ID .88OD .06T ACTL        | MU06675  |

## Assembly

| Description                        | Part No. |
|------------------------------------|----------|
| <b>Scale Assemblies (Overview)</b> |          |
| Scale Assemblies (Overview)        | MQ50228  |
| <b>Scale Assembly (EU)</b>         |          |
| Scale Assembly (EU)                | MQ50229  |
| <b>Shell Assembly</b>              |          |
| "TAPE,PIPE JNT SEAL,TEFLON,.50""   | MU15740  |
| BEAD CHAIN ASSY                    | MU12493  |
| BRACKET,PIVOT,LEFT,PAINTED         | MU12454  |
| BRACKET,PIVOT,RIGHT                | MU12453  |
| BRACKET,PIVOT/HOOD LOCK ASSY       | MU12539  |
| CAP,TUBING,1.00 OD,WHITE ABS       | MU12564  |
| CLAMP,HOSE (FOR 3/8 OD)            | MU03732  |
| CLIP,CORD RETAINING                | MU03409  |
| CONN,BARB,1/4HOSE X 1/8NPT(M)      | MU01647  |
| COVER,SCROLL                       | MU12444  |
| DECK,ISOLETTE                      | MU12443  |
| DOOR,ACCESS,FILTER                 | MU12448  |
| DOOR,ACCESS,PNEUMATIC MODULE       | MU12449  |
| DOOR,HUMIDITY COVER                | MU12475  |
| EXTRUSION,BUMPER                   | MU12459  |
| FILTER,REPL,ISOLETTE,BOX/ 4        | MU12504  |
| HOSE,CORR,22MM ID X 12.00 LG       | MU12460  |
| IMPELLER ASSY                      | MU12543  |
| LABEL,GROUND SYMBOL,FUNCTIONAL     | MU06965  |
| LIFT BAR KIT,ISOLETTE              | MU13395  |
| MANIFOLD,OXYGEN                    | MU12463  |
| REPL KIT,CHECK VALVE ASSEMBLY      | MU13399  |
| REPL KIT,SCROLL COVER,ISOLETTE     | MU13396  |
| REPL KIT,SHELL TOP,ENG             | MU13385  |
| REPL KIT,SHELL TOP,FRN             | MU13387  |
| REPL KIT,SHELL TOP,GER             | MU13388  |
| SCR,1/4-20X1/2 TR PH S ZI NYLK     | MU15296  |
| SCR,10-32X1/2 PN PH SS NYLOK       | MU15241  |
| SCR,10-32X1/2 TR PH SS NYLOK       | MU15238  |
| SCR,6-32X1/4 PN PH SS,SEMS EX      | MU15105  |
| SCR,8-32X5/8, TR PH SS NYLOK       | MU15197  |
| SCREW,PNL,8-32 X .875 LG SS        | MU12485  |
| SHELL,BOTTOM                       | MU12442  |
| SPRING,FORMED,HUMIDITY DOOR        | MU12476  |
| WSHR,FL,.150ID .31OD .06T NYL      | MU15525  |

## Assembly

| Description                           | Part No. |
|---------------------------------------|----------|
| <b>Swivel Drawer Assy small+large</b> |          |
| LABEL,LOAD LIMIT,5LB/2.2KG            | MU13038  |
| LOCTITE,SCREWLOCK NO.222              | MU15772  |
| LUBRICANT,DOW CORNING #111            | MU15760  |
| PIN,COTTER,.06DIA 1.00LG SS           | MU15662  |
| RING,BOTTOM,SWIVEL DRAWERS            | MU12878  |
| RING,TOP,SWIVEL DRAWER                | MU12877  |
| SCR,1/4-20X3/8 CP SK SS NYLOK         | MU15286  |
| SCR,1/4-20X7/8 CP SK SS NYLOK         | MU15313  |
| SPACER,1.25ID 2.00OD .49T ABS         | MU12873  |
| SPRING PLUNGER,3/8-16                 | MU12879  |
| SUPPORT ARM,SWIVEL DRAWERS            | MU12876  |
| SWIVEL DRAWER,LARGE                   | MU12871  |
| SWIVEL DRAWER,SMALL                   | MU12881  |
| TRAY WRITING SURFACE                  | MU12872  |
| WSHR,1.25ID 2.50OD .015T UHMW         | MU12874  |
| WSHR,FL,.536ID 1.50OD .05T SS         | MU15634  |
| WSHR,LK,EXT,1/4 SS                    | MU15595  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>Top Shell and Barn Door Assy</b> |          |
| CABLE ASSY,AC HARNESS TO CONTR      | MU12482  |
| CABLE ASSY,SENSOR MDL TO CONTR      | MU12483  |
| CLIP,CORD RETAINING                 | MU03409  |
| FERRITE SUPPRESSOR,.280 ID          | MU03069  |
| HANDLE,LEFT                         | MU12450  |
| HANDLE,RIGHT                        | MU12451  |
| HOSE,CORR,22MM ID X 12.00 LG        | MU12460  |
| KNOB,MATTRESS TILT                  | MU12568  |
| NUT,HEX,4-40 KEPS S ZI              | MU15411  |
| NUT,HEX,6-32 KEPS S ZI              | MU15422  |
| PROBE,IMPELLER MOVEMENT DETECT      | MU12541  |
| RETRO KIT,TILT MECHANISM            | MU13406  |
| RING,RTNG,EXT"E",SS                 | MU15715  |
| SCR,10-32X3/4 TR PH SS              | MU15250  |
| SCR,10-32X5/16 PN PH S ZI NYLK      | MU15222  |
| SCR,4-40X7/16,TR PH SS              | MU15086  |
| SCR,6-32X9/16 TR PH SS NYLOK        | MU15142  |
| SCR,8-32X3/8 CP SK SS NYLOK         | MU15186  |
| SCR,8-32X5/16 TR PH SS              | MU15174  |
| SHAFT,KNOB                          | MU12569  |
| SHAFT,KNOB,RH                       | MU12571  |
| SWITCH,SPST,NC,MAGNETIC REED        | MU03319  |
| WIRING HARNESS ASSEMBLY,AC          | MU12488  |
| WSHR,FL,.516ID .88OD .010T NYL      | MU15635  |
| WSHR,LK,EXT,#10 SS                  | MU15567  |
| WSHR,LK,INT,#8 SS                   | MU15553  |

## Assembly

| Description                         | Part No. |
|-------------------------------------|----------|
| <b>Top Shell Assembly</b>           |          |
| CABLE ASSY,AC HARNESS TO CONTR      | MU12482  |
| CABLE ASSY,SENSOR MDL TO CONTR      | MU12483  |
| CLIP,CORD RETAINING                 | MU03409  |
| HANDLE,LEFT                         | MU12450  |
| HANDLE,RIGHT                        | MU12451  |
| HOSE,CORR,22MM ID X 12.00 LG        | MU12460  |
| ISOLATOR,VIB,.44OD .44LG 4LB        | MU07138  |
| KNOB,MATTRESS TILT                  | MU12568  |
| NUT,HEX,6-32 KEPS S ZI              | MU15422  |
| PROBE,IMPELLER MOVEMENT DETECT      | MU12541  |
| RETRO KIT,TILT MECHANISM            | MU13406  |
| RING,RTNG,EXT"E",SS                 | MU15715  |
| SCR,10-32X3/4 TR PH SS              | MU15250  |
| SCR,10-32X5/16 PN PH S ZI NYLK      | MU15222  |
| SCR,6-32X1/2, FL PH SS              | MU15137  |
| SCR,8-32X3/8 CP SK SS NYLOK         | MU15186  |
| SCR,8-32X5/16 TR PH SS              | MU15174  |
| SHAFT,KNOB                          | MU12569  |
| SHAFT,KNOB,RH                       | MU12571  |
| SWITCH,SPST,NC,MAGNETIC REED        | MU03319  |
| WIRING HARNESS ASSEMBLY,AC          | MU12488  |
| WSHR,FL,.516ID .88OD .010T NYL      | MU15635  |
| WSHR,LK,EXT,#10 SS                  | MU15567  |
| WSHR,LK,INT,#8 SS                   | MU15553  |
| <b>Uninterruptible Power Supply</b> |          |
| Uninterruptible Power Supply        | MQ50243  |
| UPS,120V,C2E                        | MU16577  |
| UPS,230V,C2E                        | MU16578  |
| <b>Ventilator Tube Support</b>      |          |
| LOCTITE #242                        | MU15779  |
| SCR,8-32X1/2, TR PH SS NYLOK        | MU15193  |
| TUBING, HANGER                      | MU07295  |

## Assembly

| Description                    | Part No. |
|--------------------------------|----------|
| <b>VHA Stand (C2000)</b>       |          |
| CABLE ASSY,GND,6.25" GRN       | MU12783  |
| CLAMP,CABLE,LOOP TY,AL/CSH,.25 | MU03536  |
| LOCTITE #242                   | MU15779  |
| PLATE,UPPER TRANSITION,MACH    | MU12805  |
| SCR,1/4-20X1.50 CP HX SS NYLOK | MU15330  |
| SCR,6-32X3/8 TR PH SS NYLOK    | MU15127  |
| SCR,8-32X3/8 TR PH SS NYLOK    | MU15185  |
| SCR,M6X1.0X25LG,CP SK SS       | MU15896  |
| VHA Stand (C2000)              | MQ50241  |
| WSHR,LK,EXT,#8 SS              | MU15554  |
| WSHR,LK,SP,#10 S4              | MU15568  |
| WSHR,LK,SP,1/4 SS              | MU15586  |
| <b>VHA Stand (C2000e)</b>      |          |
| CABLE ASSY,GND,6.25" GRN       | MU12783  |
| CLAMP,CABLE,LOOP TY,AL/CSH,.25 | MU03536  |
| LOCTITE #242                   | MU15779  |
| PLATE,UPPER TRANSITION,MACH    | MU12805  |
| SCR,6-32X3/8 TR PH SS NYLOK    | MU15127  |
| SCR,8-32X3/8 TR PH SS NYLOK    | MU15185  |
| SCR,M6X1.0X25LG,CP SK SS       | MU15896  |
| VHA Stand (C2000e)             | MQ50242  |
| WSHR,LK,EXT,#8 SS              | MU15554  |
| WSHR,LK,SP,#10 S4              | MU15568  |
| WSHR,LK,SP,1/4 SS              | MU15586  |



## Test list (TL)

### Incubator Isolette® C 2000 / C 2000e

This test list can be processed with standard commercially available test aids and tools, but does not replace the inspections and maintenance work carried out by the manufacturer.

Notes on field of application:

Tests marked with a "check" symbol are listed in the test report. The test results are to be documented in the test report.

Isolette C 2000



Isolette C 2000 e



## Table of contents

|          |                                                       |
|----------|-------------------------------------------------------|
| <b>1</b> | <b>Unit configuration</b>                             |
| 1. 1     | Serial numbers (SN)                                   |
| 1. 2     | Software version                                      |
| 1. 3     | Operating hours and heater thermoelement value        |
| 1. 4     | General condition                                     |
| 1. 5     | Accompanying documents                                |
| 1. 6     | Labeling                                              |
| 1. 7     | Hood and latch pin                                    |
| 1. 8     | Front and rear access doors                           |
| 1. 9     | Cuffs of IRIS arm entry ports                         |
| 1.10     | Sensor module with cable and clamp                    |
| 1.11     | Mattress tray                                         |
| 1.12     | X-ray drawer                                          |
| 1.13     | Mattress tray tilt mechanism                          |
| 1.14     | Air filter "USP" (Isolette® C 2000e)                  |
| 1.15     | Air filter (air inlet) on the incubator               |
| <b>2</b> | <b>Electrical safety</b>                              |
| 2. 1     | Visual check                                          |
| 2. 2     | Electrical safety check according to VDE 0751         |
| 2. 3     | Electrical safety test as per IEC 60601-1/ UL 60601-1 |
| <b>3</b> | <b>Functional tests</b>                               |
| 3. 1     | Power-on test                                         |
| 3. 2     | Display for open front and rear access doors          |
| 3. 3     | Trolley height adjustment (VHA option)                |
| 3. 4     | Power failure alarm                                   |
| 3. 5     | Air/oxygen system                                     |
| 3. 6     | Air temperature setting                               |
| 3. 7     | Skin-temperature monitoring                           |
| 3. 8     | Skin-temperature sensor 1 and sensor 2 alarm          |
| 3. 9     | High-temperature limit/switch-off                     |
| 3.10     | Standard scale (option)                               |
| 3.11     | OIML scale (option)                                   |
| 3.12     | Sensor module position alarm                          |
| 3.13     | Oxygen control module                                 |
| 3.14     | Humidifier (option)                                   |
| 3.15     | Uninterruptible power supply "USP" (Isolette® C2000e) |
| 3.16     | Metrological check (applicable in Germany)            |
| <b>4</b> | <b>Annex</b>                                          |
| 4. 1     | Test equipment                                        |

## 1 Unit configuration

### 1.1 Serial numbers (SN)

☒ **1.1.1 Incubator Isolette® C2000 / C2000e** [\_\_\_\_\_.txt]

Enter the serial number (SN) of the incubator Isolette® C2000.  
(Note: The serial number is located on the rating plate on the rear of the basic housing.)

☒ **1.1.2 Sensor module** [\_\_\_\_\_.txt]

Enter the serial number (SN) of the sensor module.  
(Note: The serial number is located on the rating plate on underside of the basic housing.)

☒ **1.1.3 Scale (option)** [\_\_\_\_\_.txt]

Enter the serial number (SN) of the scale.  
(Note: The serial number is located on the rating plate underneath the scale.)

☒ **1.2 Software version** [\_\_\_\_\_.txt]

Precondition: The unit is connected to the AC power supply.

1.) Switch on unit.

The device completes its self-test. The software version is displayed during the self test.

2.) Read and record the software version.

☒ **1.3 Operating hours and heater thermoelement value** [\_\_\_\_\_.h]

Precondition: The unit is connected to the AC power supply.

1.) Press and hold the "alarm silence" button and, at the same time, switch the unit on and keep the "alarm silence" button pressed until the "System Configuration" menu appears on the display.

2.) Press the "Diag Info" softkey.

The "DIAG INFO" menu is displayed.

3.) Read the operating hours from the "Total Unit Run Time" line and record them.

4.) Press the "Data summary" softkey.

5.) Press the "display selection" button.

Within 5 minutes, the "heater thermoelement" value increases from approx. zero (cold heater) to approx. 5-25 mV.

[Check function]

6.) Switch off the device.

☒ **1.4** **General condition** [\_\_\_\_\_]OK]

The following devices/parts and accessories as well as their connections and switches (etc.) are not contaminated or damaged. Device parts and accessories are complete as specified in the Instructions for Use manual.

Note:

If applicable, clean contaminated devices/parts using the specified cleaning agents.

- Incubator Isolette® C2000 / Isolette® C2000e
- Sensor module (options: O2 sensors)
- Skin-temperature sensor
- Hood
- Mattress tray
- Blanking plug on the basic housing (if no humidifier is installed)
- Mattress
- Height stand, multiple socket outlet, cable holders
- external additional O2

Options:

- Height-adjustable stand (VHA)
  - Compressed-gas hose "O2"
  - Compressed-gas cylinder (O2) and holder, pressure regulator, flowmeter
  - Drawer(s)
  - Ventilator hoses support
  - Monitor shelf
  - IV pole
  - Oxygen module
  - Scales
  - Air humidity module
  - UPS with battery block (only on Isolette® C2000e)
  - Accessory rail and latch (only on Isolette® C2000e)
- [Check condition]

☒ **1.5** **Accompanying documents** [\_\_\_\_\_]OK]

Instructions for Use are available according to user (Note: Comply with national laws and standards!).

[Check condition]

Applies to "Germany" region only:

Medical product log (where applicable) is available (according to user).

[Check condition]

☒ **1.6** **Labeling** [\_\_\_\_\_]OK]

Check the following labeling for completeness and legibility. Perform the test according to the test step below (whichever is applicable).

incubator:

- 1 data label – back of the incubator
- 1 oxygen label – rear underside of the incubator
- 2 transport labels – left side and right side of the incubator
- 2 "hot surface" labels – on top side and underside of heater/impeller cover

Applies to 230V devices only:

"S" mark label – back of the incubator

Applies to French version only:  
French warning label – on top of hood

VHA and FIX stands  
1 data label  
1 “reliable grounding” label  
1 auxiliary socket-outlet label

Applies to ETL version only:  
1 ETL label

Version with OIML scale:  
OIML scale identification label – back of the incubator

☒ **1.7 Hood and latch pin** [\_\_\_\_\_]OK]

The hood and the latch pin are neither contaminated nor damaged. The hood engages in the end position. The hood can be closed again when the hood latch pin is pulled.  
[Check condition, function]

☒ **1.8 Front and rear access doors** [\_\_\_\_\_]OK]

INFORMATION:

The following test applies to the front access door. Repeat the test for the rear access door using the same method.

- 1.) Unlock the latches (2x) of the front access door by moving them to an horizontal position.
- 2.) Open the front access door a little bit.

The catches (2x) on the front access door are not damaged. The heat shield, the latches, and the hinges are neither contaminated nor damaged.  
[Check condition]

- 3.) Fold the front access door all the way down.

The front access door can be folded down smoothly and is suspended vertically.  
[Check condition]

- 4.) Close the front access door.
- 5.) Lock the latches of the front access door by moving them to a vertical position.
- 6.) Repeat these tests on the rear access door, if applicable.

☒ **1.8.1 Access door with accessories** [\_\_\_\_\_]OK]

- 1.) Press on the latches of all access doors.

The access doors spring open.  
[Check function]

- 2.) Check the cuffs, if applicable.

The cuffs are fitted and are neither contaminated nor damaged. Replace the cuffs with new ones, if necessary.  
[Check condition]

- 3.) Check the large access door gaskets on the front and rear, if applicable, for damage and proper seating.

The gaskets are not contaminated, porous or torn. The gaskets are fitted properly; adjust position

as necessary.  
[Check condition]

- 4.) Close all access doors.
- 5.) Pull with fingers on outer edge of access doors while moving hand ports up and down:

The access doors must not open.  
[Check function]

☒ **1.9 Cuffs of IRIS arm entry ports** [\_\_\_\_\_]OK]

- 1.) Check the cuffs of the IRIS arm entry ports, if applicable.

The cuffs of the IRIS arm entry ports on the sides of the hood are neither contaminated nor damaged; if necessary, clean or replace the cuffs.  
[Check condition]

- 2.) Rotate the outer rings of the IRIS arm entry ports.

The cuffs of the IRIS arm entry ports open and close during the rotation.  
[Check function]

☒ **1.10 Sensor module with cable and clamp** [\_\_\_\_\_]OK]

- 1.) Disconnect the skin-temperature sensor(s) from the sensor module connectors.
- 2.) Disconnect the connector of the scale (option) from the sensor module.
- 3.) Pull down the latch of the sensor module.
- 4.) Pull the sensor module out of the hood as far as it will go.
- 5.) Disconnect the sensor module connector from the basic housing.
- 6.) Press both latches on the sides of the sensor module outwards and, at the same time, pull the sensor module including its connecting line out of the hood.

- 7.) Check the sensor module.

The sensor module can be easily pulled out of the hood. The sensor module, the connections, the cable, the connector, and the socket on the incubator are neither contaminated nor damaged. The air inlet nozzle is dust-free. If the device is equipped with the O2 module, then the two O2 cells are located inside the sensor module.  
[Check condition]

- 8.) Check the cable clamps (scale) and the cable clamps of the sensor module.

The clamps are undamaged.  
[Check condition]

- 9.) Refit the sensor module to the unit.

☒ **1.11 Mattress tray** [\_\_\_\_\_]OK]

- 1.) Check the mattress tray.

The mattress tray is neither contaminated nor damaged.  
[Check condition]

- 2.) Pull the mattress tray out of the unit as far as it will go.
- 3.) Carefully exert pressure (downwards) on the mattress tray.

The mattress tray can only be pulled out of the unit as far as the mechanical stop. The mattress

tray is supported properly.  
[Check function]

4.) Slide the mattress tray back into the unit.

☒ **1.12 X-ray drawer** [\_\_\_\_\_]OK]

- 1.) Open the front access door.
- 2.) Pull the X-ray drawer out of the mattress tray as far as it will go.

The X-ray drawer can only be pulled out of the mattress tray as far as the mechanical stop.  
[Check function]

- 3.) Push the X-ray drawer back into the mattress tray.
- 4.) Close the access door.

☒ **1.13 Mattress tray tilt mechanism** [\_\_\_\_\_]OK]

- 1.) Check the mattress tray tilt mechanism (mattress tray adjusting linkage and both mattress tray tilt actuators).

The mattress tray tilt mechanism is neither contaminated nor damaged.  
[Check condition]

- 2.) Turn the right-hand mattress tray tilting actuator counter-clockwise as far as it will go.

The right-hand end of the mattress tray is tilted.  
[Check function]

- 3.) Turn the right-hand mattress tray tilting actuator clockwise as far as it will go.

The mattress tray is back to horizontal position.

- 4.) Turn the left-hand mattress tray tilting actuator clockwise as far as it will go.

The left-hand end of the mattress tray is tilted.  
[Check function]

- 5.) Turn the left-hand mattress tray tilting actuator counter-clockwise as far as it will go.

The mattress tray is back to horizontal position.  
[Check function]

☒ **1.14 Air filter “USP” (Isolette® C 2000e)** [\_\_\_\_\_]OK]

- 1.) Check the air filter of the uninterruptible power supply. Note: The air filter is located at the bottom of the stand near the uninterruptible power supply.

The air filter is neither contaminated by dirt nor damaged. If necessary, carefully clean the air filter with clean compressed air or, if damaged, replace it with a new one.  
[Check condition]

☒ **1.15 Air filter (air inlet) on the incubator** [\_\_\_\_\_]OK]

- 1.) Loosen the screws on the air filter cover. Note: The cover is installed on the back, at the bottom of the basic unit.
- 2.) Remove the air filter cover.
- 3.) Remove and check the air filter.

The air filter is neither contaminated nor damaged. Labeling is legible.  
(Recommendation: The air filter should be replaced with a new one every 3 months)  
[Check condition]

If the air filter labeling is no longer legible or if the air filter is contaminated or damaged, replace the air filter.

**INFORMATION:**

Ensure that the air filter is fitted properly (orientation is correct). The labeling of the air filter points outwards.

- 4.) Insert the air filter into the housing.
- 5.) Secure the cover to the unit using the screws.

## **2 Electrical safety**

Perform electrical safety test according to VDE 0751 or IEC 60601-1/ UL 60601-1, whichever is applicable.

### **2.1 Visual check**

#### ☒ **2.1.1 Power cable** [\_\_\_\_\_]OK]

The AC power cable, the AC power plug, and the AC power socket are not contaminated or damaged.  
[Check condition]

#### ☒ **2.1.2 Main power switch and power switch for the control unit** [\_\_\_\_\_]OK]

The main power switch and the power switch for the control unit are neither contaminated nor damaged.  
[Check condition]

### **2.2 Electrical safety check according to VDE 0751**

#### ☒ **2.2.1 PE resistance** [\_\_\_\_\_]OK]

Connect the test probe to the following test points one after the other:

- Wing nut on the control unit
- Screws on the height-adjustable column (Note: the screws are located near the main power switch)

#### ☒ **2.2.1.1 Test value** [\_\_\_\_\_]OK]

The value of the protective earth conductor resistance must not exceed 0.3 ohms in each case.  
[Check function]

#### **2.2.2 Device leakage current test**

Note:

If necessary:

- Switch on the humidity module
- Operate the height adjustment.

☒ **2.2.2.1 Initial measured value** [\_\_\_\_\_]  $\mu\text{A}$

The initial measured value must not exceed 500  $\mu\text{A}$ .

NOTE:

Each initial value must be transferred to a new test report.

☒ **2.2.2.2 Recurrent measurement** [\_\_\_\_\_]  $\mu\text{A}$

The repeat measurement must not exceed 500  $\mu\text{A}$ .

Record test value:

**2.2.3 Patient leakage current test**

Note:

Perform the test on both skin-temperature probes, and then enter the highest value.

☒ **2.2.3.1 Initial measured value (DC)** [\_\_\_\_\_]  $\mu\text{A}$

The initial measured value must not exceed 10  $\mu\text{A}$ .

NOTE:

Each initial value must be transferred to a new test report.

☒ **2.2.3.2 Initial measured value (AC)** [\_\_\_\_\_]  $\mu\text{A}$

The initial measured value must not exceed 100  $\mu\text{A}$ .

NOTE:

Each initial value must be transferred to a new test report.

☒ **2.2.3.3 Recurrent measurement (DC)** [\_\_\_\_\_]  $\mu\text{A}$

Record test value:

NOTE:

The repeat measurement must not exceed 10  $\mu\text{A}$ .

☒ **2.2.3.4 Recurrent measurement (AC)** [\_\_\_\_\_]  $\mu\text{A}$

Record test value:

NOTE:

The repeat measurement must not exceed 100  $\mu\text{A}$ .

**2.3 Electrical safety test as per IEC 60601-1/ UL 60601-1**

**2.3.1 PE resistance**

Connect the test probe to the following test points one after the other:

- Wing nut on the control unit
- Screws on the height-adjustable column (Note: the screws are located near the main power switch)

☒ **2.3.1.1 Test value** [\_\_\_\_\_]OK]

The protective earth conductor resistance is less than/equal to 0.2 ohms in each case.  
[Check function]

**2.3.2 Earth leakage current test**

Note:

If necessary:

- Switch on the humidity module
- Operate the height adjustment.

NOTE:

The earth leakage current test must be carried out with reversed and non-reversed power plug.  
Enter the highest value. This test can be implemented internally on most of the testers.

NOTE:

Make sure that power supply leads, accessories and system configuration correspond to the previous tests. Insulated installation of the devices is required.

☒ **2.3.2.1 Normal condition (N.C.)** [\_\_\_\_\_]μA]

According to IEC: The value must not exceed 500 μA.  
According to UL 2601: The value must not exceed 300 μA.

Record test value:

☒ **2.3.2.2 Single fault condition (S.F.C.)** [\_\_\_\_\_]μA]

Neutral (conductor) open = N.O. = neutral open.

According to IEC: The value must not exceed 1000 μA.  
According to UL 2601: The value must not exceed 1000 μA.

Record test value:

In the following steps the test is repeated, but with the power plug turned over.  
This condition can be established internally on some testers.

☒ **2.3.2.3 Normal condition (N.C.)** [\_\_\_\_\_]μA]

According to IEC: The value must not exceed 500 μA.  
According to UL 2601: The value must not exceed 300 μA.

Record test value:

☒ **2.3.2.4 Single fault condition (S.F.C.)** [\_\_\_\_\_]μA]

Neutral (conductor) open = N.O. = neutral open.

According to IEC: The value must not exceed 1000 μA.  
According to UL 2601: The value must not exceed 1000 μA.

Record test value:

In the following steps the test is repeated, but with the power plug turned over.  
This condition can be established internally on some testers.

### 2.3.3 Patient leakage current test

Note:

Perform the test on both skin-temperature probes, and then enter the highest value.

NOTE:

The patient leakage current test must be carried out with reversed and non-reversed power plug.  
Enter the highest value. This test can be implemented internally on most of the testers.

NOTE:

Make sure that power supply leads, accessories and system configuration correspond to the previous tests. Insulated installation of the devices is required.

- |                                     |                |                                                                            |                  |
|-------------------------------------|----------------|----------------------------------------------------------------------------|------------------|
| <input checked="" type="checkbox"/> | <b>2.3.3.1</b> | <b>Normal condition (N.C.) DC according to IEC 60601-1/UL 60601-1</b>      | [ _____ $\mu$ A] |
|                                     |                | The value must not exceed 10 $\mu$ A.                                      |                  |
| <input checked="" type="checkbox"/> | <b>2.3.3.2</b> | <b>Normal condition (N.C.) AC according to IEC 60601-1/UL 60601-1</b>      | [ _____ $\mu$ A] |
|                                     |                | The value must not exceed 100 $\mu$ A.                                     |                  |
| <input checked="" type="checkbox"/> | <b>2.3.3.3</b> | <b>Single fault condition (S.F.C.) DC according to IEC 60601-1/UL 6060</b> | [ _____ $\mu$ A] |
|                                     |                | The value must not exceed 50 $\mu$ A.                                      |                  |
| <input checked="" type="checkbox"/> | <b>2.3.3.4</b> | <b>Single fault condition (S.F.C.) AC according to IEC 60601-1/UL 6060</b> | [ _____ $\mu$ A] |
|                                     |                | The value must not exceed 500 $\mu$ A.                                     |                  |

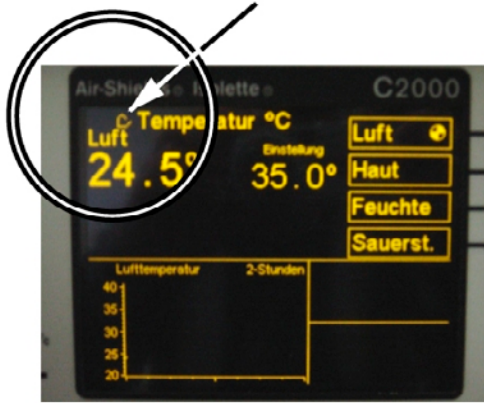
## 3 Functional tests

- |                                     |            |                                                                                                                                        |             |
|-------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------|
| <input checked="" type="checkbox"/> | <b>3.1</b> | <b>Power-on test</b>                                                                                                                   | [ _____ OK] |
|                                     |            | PRECONDITION:<br>The device is connected to the AC power supply.                                                                       |             |
|                                     |            | 1.) Switch on unit.                                                                                                                    |             |
|                                     |            | The device completes its self-test. No error messages appear on the display after completion of the self-test.<br>[Check function]     |             |
|                                     |            | NOTE:<br>If the unit fails the self-test, the audible alarm sounds and one or several "system failure" messages appear on the display. |             |
| <input checked="" type="checkbox"/> | <b>3.2</b> | <b>Display for open front and rear access doors</b>                                                                                    | [ _____ OK] |
|                                     |            | PRECONDITION:<br>The unit is connected to the mains power supply and is switched on.                                                   |             |
|                                     |            | 1.) Open the access door.                                                                                                              |             |

The display shows the “access door open” icon, see the following figure.  
[Check function]

2.) Close the front access door.

Repeat this test with the rear access door, if applicable.



### ☑ 3.3 Trolley height adjustment (VHA option)

[\_\_\_\_\_]OK]

PRECONDITION:

The unit is connected to the mains power supply and is switched on.

1.) Press and hold the right-hand pedal of the “Up/down” switch on the front until the incubator is in the highest position.

The incubator moves evenly and smoothly to the highest position.

[Check function]

2.) Press and hold the left-hand pedal of the “Up/down” switch until the incubator is in the lowest position.

The incubator moves evenly and smoothly to the lowest position.

[Check function]

3.) Repeat the tests with the pedals on the rear.

### ☑ 3.4 Power failure alarm

[\_\_\_\_\_]OK]

NOTE:

With the Isolette® C2000e the power supply from the rechargeable batteries to the Isolette must be interrupted! For interruption, loosen the two battery compartment screws and pull out the battery compartment a little.

PRECONDITION:

The unit is connected to the mains power supply and is switched on.

Note: The device must have been in operation for at least 10 minutes for the capacitor (that activates this alarm) to be charged.

1.) Take power plug out of mains socket.

The red “power failure alarm” LED is flashing. An intermittent alarm sounds.

[Check function]

2.) Plug the mains plug into the socket outlet.

The unit completes its self-test and then switches to normal operating mode.  
[Check function]

3.) Push the battery compartment back into the trolley and secure it to the trolley using the two screws.

### ☑ 3.5

#### **Air/oxygen system**

[\_\_\_\_\_]OK]

PRECONDITION:

The unit is connected to the mains power supply and is switched on.

- 1.) Supply 9 L/min "oxygen" into the external oxygen connector of the unit (inlet 1).
- 2.) Place a calibrated "oxygen analyzer" into the incubator.
- 3.) Wait until the oxygen concentration inside the incubator has stabilized.

The oxygen concentration specified in the flow table (9 L/min correspond to 45 vol.% O<sub>2</sub> to 75 vol.%O<sub>2</sub>) matches the oxygen concentration displayed on the external "oxygen analyzer". (Note: The flow table can be found on the label attached to the rear of the incubator.)  
[Check function]

### ☑ 3.6

#### **Air temperature setting**

[\_\_\_\_\_]OK]

PRECONDITION:

The unit is connected to the mains power supply and is switched on.

- 1.) Close all access doors and, if fitted, the IRIS arm entry ports.
- 2.) Using the "air" button, set the air temperature to "35 °C", and allow the unit to warm up (Note: The warm-up time is less than 1 hour).
- 3.) Place a test thermometer in the center of the mattress tray at a height of 10 cm from the surface.
- 4.) Plug the two skin-temperature sensors into their respective sockets "1" and "2" on the sensor module.

As soon as the air temperature has stabilized as indicated on the display (no value changes visible within 15 minutes), the display shows the set temperature with a tolerance of  $\pm 0.7$  °C. The value indicated on the test thermometer matches the value indicated on the air-temperature display of the control unit with a permissible deviation of  $\pm 0.8$  °C.  
[Check function]

The skin-temperature displays (skin 1 and 2) show the value of the test thermometer with a tolerance of  $\pm 0.2$  °C.  
[Check function]

### ☑ 3.7

#### **Skin-temperature monitoring**

[\_\_\_\_\_]OK]

PRECONDITION:

The unit is connected to the mains power supply and is switched on.

- 1.) Connect the skin-temperature sensor to connector "1" of the sensor module.
- 2.) Disconnect the second skin-temperature sensor from connector "2" of the sensor module.
- 3.) Position the skin-temperature sensor and the test thermometer 10 cm above the center of the mattress.
- 4.) Set the skin-temperature to "35 °C" using the "skin" button.

Once the temperature has stabilized, the display should indicate the set skin temperature with a tolerance of  $\pm 1.0$  °C.

[Check function]

5.) Open one access door.

6.) Insert skin-temperature sensor "1" through the open access door and allow it to be cooled down by the ambient air.

Within approx. 5 minutes the unit should display a "skin-temperature low" message. The audible alarm sounds. The remote indicator lamp flashes.

[Check function]

7.) Place the skin-temperature sensor back into the incubator.

8.) Close the access door.

### ☑ 3.8

#### **Skin-temperature sensor 1 and sensor 2 alarm**

[\_\_\_\_\_]OK]

PRECONDITION:

The unit is connected to the mains power supply and is switched on. Skin-temperature sensor "2" has been removed.

1.) Select the "skin-temperature" mode.

2.) Disconnect the skin-temperature sensor "1" from the connector "1" of the sensor module.

The audible alarm sounds. No measured value is shown on the display. The message „skin-temp probe disconn“ is displayed. The remote indicator lamp flashes.

[Check function]

3.) Press the "alarm silence" button.

The audible alarm is silenced.

[Check function]

4.) Plug the skin-temperature sensor "1" into connector "1" of the sensor module.

The unit returns to normal operating mode. The audible alarm is off and the error message is no longer displayed.

[Check function]

5.) Plug the skin-temperature sensor "2" into connector "2" of the sensor module.

The audible alarm sounds. The message "Remove skin-temp probe 2" is displayed. The remote indicator lamp flashes.

[Check function]

6.) Disconnect the skin-temperature sensor "2" from the connector "2" of the sensor module.

The unit returns to normal operating mode. The audible alarm is off and the error message is no longer displayed.

[Check function]

### ☑ 3.9

#### **High-temperature limit/switch-off**

[\_\_\_\_\_]OK]

PRECONDITION:

The unit is connected to the mains power supply and is switched on.

1.) Connect skin-temperature sensor "1" to connector "1" of the sensor module.

2.) Select the "skin-temperature monitoring" mode.

3.) Set the skin temperature to „38 °C“.

4.) Open one access door.

- 5.) Expose skin-temperature sensor "1" to room air through the open access door.
- 6.) Close the access door.
- 7.) Place the test thermometer about 10 cm above the center of the mattress tray.
- 8.) Allow the device to warm up until the heating capacity just begins to decrease (read the heating capacity off from the trend display).

The "skin-temperature low" alarm will possibly be triggered. As soon as the heating capacity has decreased to approx. 50%, check that the maximum temperature on the test thermometer does not exceed 40 °C. Read the heating capacity off from the trend display.

[Check function]

If necessary, press the "alarm silence" button, then switch over to "air-temperature monitoring" mode.

The "overtemperature cutout" alarm occurs within 1 minute.

[Check function]

- 9.) Power cycle (off and on again) the device, and then set the air temperature to "36 °C".

- 10.) Open the front access door and, if applicable, also the rear access door. Allow the device to cool down to "35.9 °C".

- 11.) Close all access doors and, if fitted, the IRIS arm entry ports. Allow the device to warm up to "36 °C".

- 12.) Open the front access door and, if applicable, also the rear access door.

Within approx. 5 minutes the unit should display the "air-temperature low" message. The audible alarm sounds. The alarm lamp flashes.

[Check function]

- 13.) Close all access doors and, if fitted, the IRIS arm entry ports.

The unit returns to normal operating mode. The audible alarm is off and the error message is no longer displayed.

[Check function]

Switch off the unit.

## 3.10 Standard scale (option)

### ☒ 3.10.1

#### Scale function

[\_\_\_\_\_OK]

PRECONDITION:

Remove all objects from the mattress. Make sure the mattress tray is horizontal and not in the Trendelenburg position, adjust the position of the mattress tray if necessary!

The unit is connected to the mains power supply and is switched on.

- 1.) Press the "display selection" button.
- 2.) Press the "weight" button.
- 3.) Press the "O/T" button twice in sequence.

The control unit reads the "zeroing value". The LEDs in the LED bar graph show the progress of the reading process. A beep sounds at the end of the zeroing phase.

[Check function]

4.) Place a 5-kg test weight on the center of the mattress.

A short beep sounds as soon as the scale has completed the measurement. The display shows a value between 4.995 kg and 5.005 kg.

[Check function]

NOTE:

If the display shows another value, calibrate the scale, refer to the following test step "Calibrating the scale"!).

5.) Press the „back“ button.

6.) Press the "weight" button.

The display shows the weight of the test weight.

[Check function]

7.) Remove the test weight from the mattress tray.

### ☒ 3.10.2 **Calibrating the scale** [\_\_\_\_\_]OK]

NOTE:

Ask the user whether or not the scale has been calibrated; if not, calibrate the scale.

IMPORTANT:

Before calibrating the scale, remove all objects from the mattress/mattress tray. The mattress tray must be horizontal!

1.) Select the "display selection" button.

2.) Press the "weight" button.

3.) Press the „display selection“ button (only as of SW 2.18)

4.) Press the "Cal." button.

The display shows the messages "scale" and "wait...".

5.) As soon as the "5 kg" symbol appears, place the "5-kg" test weight onto the mattress/mattress tray.

The display shows the message "scale" and the weight "4.995 kg to 5.005 kg". A beep sounds at the end of the calibration procedure.

[Check function]

6.) Remove the test weight from the mattress.

7.) Press the „back“ button.

## **3.11 OIML® scale (option)**

### ☒ 3.11.1 **Testing the "OIML®"scale** [\_\_\_\_\_]OK]

PRECONDITION:

Remove all objects from the mattress. Make sure the mattress tray is horizontal and not in the Trendelenburg position, adjust the position of the mattress tray if necessary!

The OIML scales are equipped with a water level.

1. The unit is connected to the mains power supply and is switched on.

2. Open the front panel and fold it down.
3. Check that the tray of the OIML scale moves freely (the connection cable must not be caught between the tray and the incubator housing).
4. Press the "selection" button.
5. Press the "Weight" button.
6. Place the "5 kg" test weight onto the center of the mattress.
7. Press the "zero calibration" (-> 0/T <-) button.
8. Remove the "5 kg" test weight from the mattress tray when prompted to do so.
9. After zero calibration (0.000 kg) place the "5 kg" test weight onto the center of the mattress tray.

The reading is 4.990 kg to 5.010 kg.  
[Check function]

Note: If the OIML scale needs to be calibrated, please contact DraegerService.

10. Remove the "5 kg" test weight from the mattress tray.

### ☒ **3.12**      **Sensor module position alarm** [\_\_\_\_\_]OK

PRECONDITION:

The unit is connected to the mains power supply and is switched on.

- 1.) Pull the sensor module to the calibration position.

The unit generates a visual and an audible alarm.

The remote indicator lamp flashes.

[Check function]

- 2.) Insert the sensor module into the hood.

### ☒ **3.13**      **Oxygen control module** [\_\_\_\_\_]OK

PRECONDITION:

The unit is connected to the mains power supply and is switched on.

- 1.) Place an external, calibrated oxygen analyzer inside the hood on the center of the mattress/mattress tray.
- 2.) Press the „oxygen“ button.
- 3.) Press the "ON" button.
- 4.) Set the "oxygen" concentration to 45 vol.% O<sub>2</sub>.

Within 5 minutes, the set concentration must be indicated on the display with a tolerance of +/- 2 vol.% O<sub>2</sub>.

Within 5 minutes, the value of the external oxygen analyzer must be indicated on the display of the incubator with the following tolerances:

+/- 5 vol.% O<sub>2</sub> for calibration at 21 vol.% O<sub>2</sub>.

+/-3 vol.% O<sub>2</sub> for calibration at 100 vol.% O<sub>2</sub>.

[Check function]

- 5.) Set the "oxygen" concentration to 21 vol.% O<sub>2</sub>.

### ☒ **3.14**      **Humidifier (option)** [\_\_\_\_\_]OK

PRECONDITION:

The unit is connected to the mains power supply and is switched on. The oxygen supply is not active.

- 1.) If the "humidity low" alarm has occurred in the meantime (refer to the "'humidity low' alarm" test), refill the humidifier container with distilled water.
- 2.) Allow the device to warm up to "35 °C".
- 3.) Place the humidity meter in the center of the mattress tray at a height of 10 cm from the surface.
- 4.) Press the "humidity" button.
- 5.) Press the "ON" button.
- 6.) Set the humidity to "75%".

Within 30 to 60 minutes the humidity meter must indicate the set humidity with a tolerance of +/- 8% relative humidity (RH).

Within 5 minutes the display must indicate the set humidity with a tolerance of +/- 6% relative humidity (RH).

[Check function]

### ☑ 3.15

#### **Uninterruptible power supply "USP" (Isolette® C2000e)**

[\_\_\_\_\_] OK]

PRECONDITION:

The battery is fully charged.

Warning:

Do not connect the AC power cord of the uninterruptible power supply (UPS) to one of the output socket-outlets on the incubator stand. This is dangerous and can destroy the UPS system.

1. Verify that the AC power cord is connected to the mains input socket on the UPS electronics module and to a properly grounded, hospital-grade, 3-wire socket-outlet.
2. Press and hold the "On/Off/Test" on the UPS electronics module for 1 second or until the audible system alarm sounds.
3. Press the power switch (input and control unit) on the incubator.
4. Verify that, upon first power-on, all LED displays come on, the audible alarm sounds, and the bypass LED goes off after a few seconds.
5. If the device fails the self test, the error LED will come on.
6. Shortly (<1 second) press the „On/Off/Test“ switch in mains mode, and then verify the following:
  - The unit switches over to battery mode for 10 seconds.
  - The power LED goes off for 10 seconds and then comes on again.
7. Disconnect the electronics module power cord from the AC power supply.
8. Verify that the audible alarm of the battery backup sounds twice every eight seconds (only if the "battery low" alarm does not appear).
9. Verify that the power LED goes off.
10. Shortly (<1 second) press the „On/Off/Test“ switch to silence the audible alarm.
11. Reconnect the power cord to the relevant power supply, and then check the display status:
  - The power LED comes on.
  - The Inv LED and the Load LED remain on.
  - The bypass LED goes off.

☒ **3.16 Metrological check (applicable in Germany)**

[\_\_\_\_\_]dat]

NOTE:

Perform the “metrological check” (Germany only) every 2 years.

Enter the date of the next “metrological check”:

**4 Annex**

**4.1 Test equipment**

VDE or IEC tester

Oxygen analyzer

Flowmeter

Temperature/humidity meter

Test weight, 5 kg

## Test Report TL

Institution: \_\_\_\_\_

Delivery date: \_\_\_\_\_

Serial no.: \_\_\_\_\_

Other: \_\_\_\_\_

| OK                                                       | Para    | Name                                                 | Result |
|----------------------------------------------------------|---------|------------------------------------------------------|--------|
| <b>1 Unit configuration</b>                              |         |                                                      |        |
| <b>1.1 Serial numbers (SN)</b>                           |         |                                                      |        |
| <input type="checkbox"/>                                 | 1.1.1   | Incubator Isolette® C2000 / C2000e                   |        |
| <input type="checkbox"/>                                 | 1.1.2   | Sensor module                                        |        |
| <input type="checkbox"/>                                 | 1.1.3   | Scale (option)                                       |        |
| <input type="checkbox"/>                                 | 1.2     | Software version                                     |        |
| <input type="checkbox"/>                                 | 1.3     | Operating hours and heater thermoelement value       | h      |
| <input type="checkbox"/>                                 | 1.4     | General condition                                    |        |
| <input type="checkbox"/>                                 | 1.5     | Accompanying documents                               |        |
| <input type="checkbox"/>                                 | 1.6     | Labeling                                             |        |
| <input type="checkbox"/>                                 | 1.7     | Hood and latch pin                                   |        |
| <input type="checkbox"/>                                 | 1.8     | Front and rear access doors                          |        |
| <input type="checkbox"/>                                 | 1.8.1   | Access door with accessories                         |        |
| <input type="checkbox"/>                                 | 1.9     | Cuffs of IRIS arm entry ports                        |        |
| <input type="checkbox"/>                                 | 1.10    | Sensor module with cable and clamp                   |        |
| <input type="checkbox"/>                                 | 1.11    | Mattress tray                                        |        |
| <input type="checkbox"/>                                 | 1.12    | X-ray drawer                                         |        |
| <input type="checkbox"/>                                 | 1.13    | Mattress tray tilt mechanism                         |        |
| <input type="checkbox"/>                                 | 1.14    | Air filter "USP" (Isolette® C 2000e)                 |        |
| <input type="checkbox"/>                                 | 1.15    | Air filter (air inlet) on the incubator              |        |
| <b>2 Electrical safety</b>                               |         |                                                      |        |
| <input type="checkbox"/>                                 | 2.1.1   | Power cable                                          |        |
| <input type="checkbox"/>                                 | 2.1.2   | Main power switch and power switch for the control u |        |
| <b>2.2 Electrical safety check according to VDE 0751</b> |         |                                                      |        |
| <b>2.2.1 PE resistance</b>                               |         |                                                      |        |
| <input type="checkbox"/>                                 | 2.2.1.1 | Test value                                           |        |
| <b>2.2.2 Device leakage current test</b>                 |         |                                                      |        |
| <input type="checkbox"/>                                 | 2.2.2.1 | Initial measured value                               | µA     |
| <input type="checkbox"/>                                 | 2.2.2.2 | Recurrent measurement                                | µA     |
| <b>2.2.3 Patient leakage current test</b>                |         |                                                      |        |
| <input type="checkbox"/>                                 | 2.2.3.1 | Initial measured value (DC)                          | µA     |
| <input type="checkbox"/>                                 | 2.2.3.2 | Initial measured value (AC)                          | µA     |
| <input type="checkbox"/>                                 | 2.2.3.3 | Recurrent measurement (DC)                           | µA     |
| <input type="checkbox"/>                                 | 2.2.3.4 | Recurrent measurement (AC)                           | µA     |

| OK                                                               | Para    | Name                                                  | Result |
|------------------------------------------------------------------|---------|-------------------------------------------------------|--------|
| <b>2.3 Electrical safety test as per IEC 60601-1/ UL 60601-1</b> |         |                                                       |        |
| <b>2.3.1 PE resistance</b>                                       |         |                                                       |        |
| <input type="checkbox"/>                                         | 2.3.1.1 | Test value                                            |        |
| <b>2.3.2 Earth leakage current test</b>                          |         |                                                       |        |
| <input type="checkbox"/>                                         | 2.3.2.1 | Normal condition (N.C.)                               | µA     |
| <input type="checkbox"/>                                         | 2.3.2.2 | Single fault condition (S.F.C.)                       | µA     |
| <input type="checkbox"/>                                         | 2.3.2.3 | Normal condition (N.C.)                               | µA     |
| <input type="checkbox"/>                                         | 2.3.2.4 | Single fault condition (S.F.C.)                       | µA     |
| <b>2.3.3 Patient leakage current test</b>                        |         |                                                       |        |
| <input type="checkbox"/>                                         | 2.3.3.1 | Normal condition (N.C.) DC according to IEC 60        | µA     |
| <input type="checkbox"/>                                         | 2.3.3.2 | Normal condition (N.C.) AC according to IEC 60        | µA     |
| <input type="checkbox"/>                                         | 2.3.3.3 | Single fault condition (S.F.C.) DC according to I     | µA     |
| <input type="checkbox"/>                                         | 2.3.3.4 | Single fault condition (S.F.C.) AC according to IE    | µA     |
| <b>3 Functional tests</b>                                        |         |                                                       |        |
| <input type="checkbox"/>                                         | 3.1     | Power-on test                                         |        |
| <input type="checkbox"/>                                         | 3.2     | Display for open front and rear access doors          |        |
| <input type="checkbox"/>                                         | 3.3     | Trolley height adjustment (VHA option)                |        |
| <input type="checkbox"/>                                         | 3.4     | Power failure alarm                                   |        |
| <input type="checkbox"/>                                         | 3.5     | Air/oxygen system                                     |        |
| <input type="checkbox"/>                                         | 3.6     | Air temperature setting                               |        |
| <input type="checkbox"/>                                         | 3.7     | Skin-temperature monitoring                           |        |
| <input type="checkbox"/>                                         | 3.8     | Skin-temperature sensor 1 and sensor 2 alarm          |        |
| <input type="checkbox"/>                                         | 3.9     | High-temperature limit/switch-off                     |        |
| <b>3.10 Standard scale (option)</b>                              |         |                                                       |        |
| <input type="checkbox"/>                                         | 3.10.1  | Scale function                                        |        |
| <input type="checkbox"/>                                         | 3.10.2  | Calibrating the scale                                 |        |
| <b>3.11 OIML® scale (option)</b>                                 |         |                                                       |        |
| <input type="checkbox"/>                                         | 3.11.1  | Testing the "OIML®"scale                              |        |
| <input type="checkbox"/>                                         | 3.12    | Sensor module position alarm                          |        |
| <input type="checkbox"/>                                         | 3.13    | Oxygen control module                                 |        |
| <input type="checkbox"/>                                         | 3.14    | Humidifier (option)                                   |        |
| <input type="checkbox"/>                                         | 3.15    | Uninterruptible power supply "USP" (Isolette® C2000e) |        |
| <input type="checkbox"/>                                         | 3.16    | Metrological check (applicable in Germany)            |        |
| <b>4 Annex</b>                                                   |         |                                                       |        |

Report: \_\_\_\_\_

Tested according to test list (TL).

Name: \_\_\_\_\_

Date/signature: \_\_\_\_\_



**Manufacturer:**

Draeger Medical Systems, Inc.  
3135 Quarry Road  
Telford, PA 18969  
USA

Phone: (215) 721-5400  
(800) 4DRAGER (800 437-2437)  
Fax: (215) 723-5935

**EC Representative:**

Dräger Medical AG & Co. KG  
Moislinger Allee 53 – 55  
23542 Lübeck  
Germany

Phone: (+49) (0) 1805-3723437  
Fax: (+49) 451/882 - 3779  
Web: <http://www.draeger.com>



Directive 93/42/EEC  
concerning Medical Devices

Subject to change without notice.

Will not be replaced in the event of modifications.

© Copyright by Dräger Medical AG & Co. KG, 2007, Lübeck, Germany.