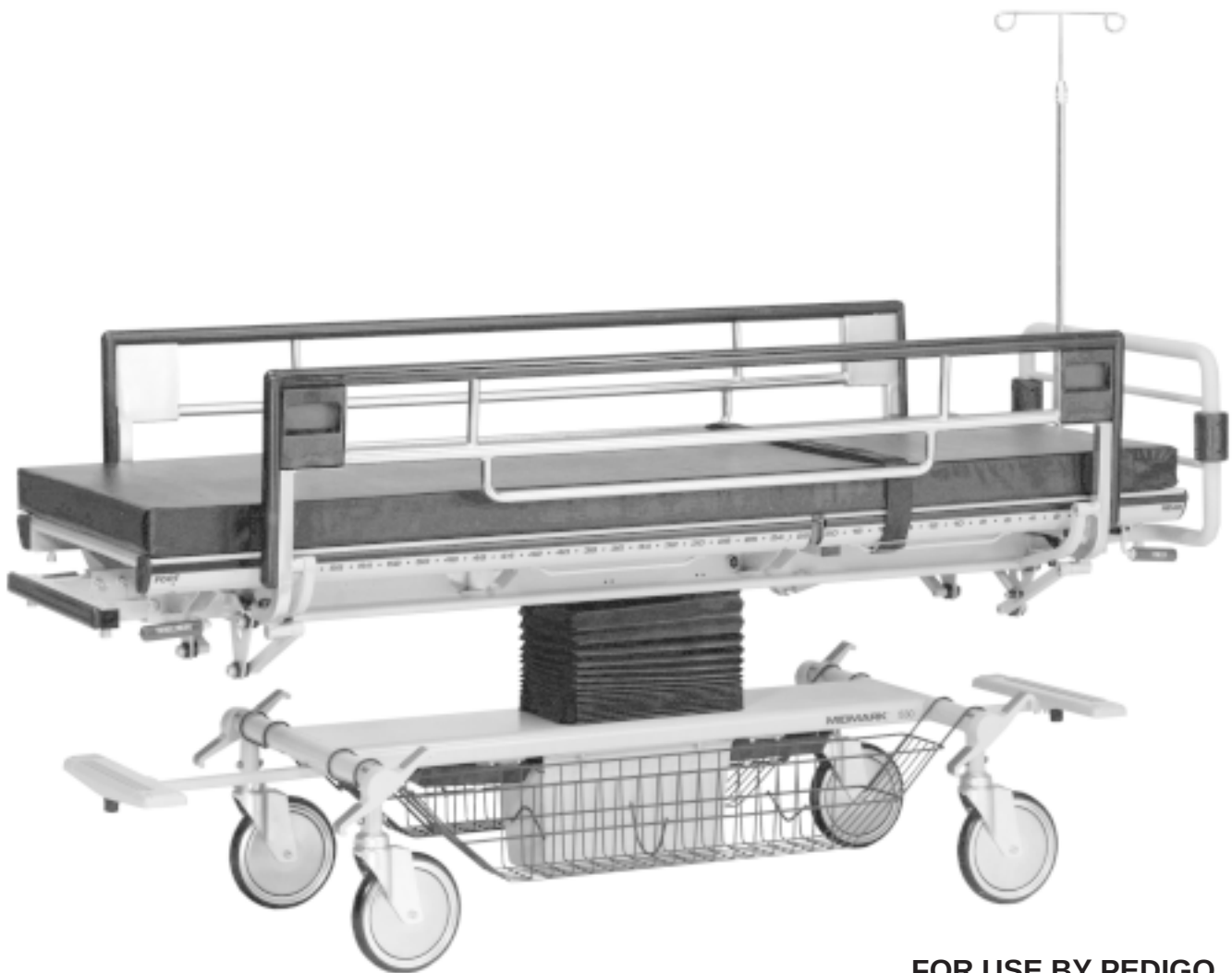


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ED/Trauma Stretchers

Service and Parts Manual



**FOR USE BY PEDIGO
TRAINED TECHNICIANS
ONLY**

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(*) Indicates that there has been a serial number break for the illustration and that there are additional point page(s) following the original page.

IMPORTANT INSTRUCTIONS

General Safety Instructions

Safety First: The primary concern of Pedigo Products is that this stretcher is maintained with the safety of the patient and staff in mind. To assure that services and repairs are completed safely and correctly, proceed as follows:

- (1) Read this entire manual before performing any services or repairs on this stretcher.
- (2) Be sure you understand the instructions contained in this manual before attempting to service or repair this stretcher.

Warnings

Throughout this manual are Note, Caution, and Danger paragraphs that call attention to particular procedures. These items are used as follows:

NOTE

A note is used to amplify an operating procedure, practice or condition.



CAUTION

A CAUTION is used for an operating procedure, practice, or condition which, if not correctly followed, could result in equipment damage.



DANGER

A DANGER is used for an operating procedure, practice, or condition which, if not correctly followed, could result in loss of life or serious personal injury.

Warranty Instructions

Refer to the Pedigo “Limited Warranty” printed on the back cover of the Installation and Operation Manual for warranty information. Failure to follow the guidelines listed below will void the warranty and/or render the stretcher unsafe for operation.

- In the event of a malfunction, do not attempt to operate the stretcher until necessary repairs have been made.
- Do not attempt to disassemble stretcher, replace malfunctioning or damaged components, or perform adjustments unless you are one of Pedigo’s authorized service technicians.
- Do not substitute parts of another manufacturer when replacing inoperative or damaged components. Use only Pedigo replacement parts.

SECTION I

GENERAL INFORMATION

1.1 Scope of Manual

This manual contains detailed troubleshooting, scheduled maintenance, maintenance, and service instructions for the 530 and 535 Stretcher. This manual is intended to be used by Pedigo's authorized service technicians.

1.2 How to Use Manual

- A. Manual Use When Performing Scheduled Maintenance.
- (1) Perform inspections and services listed in Scheduled Maintenance Chart (Refer to para 3.1).
 - (2) If a component is discovered to be faulty or out of adjustment, replace or adjust component in accordance with maintenance/service instructions (Refer to para 4.1).
- B. Manual Use When Stretcher Is Malfunctioning And Cause Is Unknown.
- (1) Perform an operational test on stretcher (Refer to para 2.1).
 - (2) Perform troubleshooting procedures listed in Troubleshooting Guide (Refer to para 2.2).
 - (3) If a component is discovered to be faulty or out of adjustment, replace or adjust component in accordance with maintenance/service instructions (Refer to para 4.1).
- C. Manual Use When Damaged Component Is Known.
- (1) Replace or adjust component in accordance with maintenance/service instructions (Refer to para 4.1).

1.3 Description of 530 and 535 Stretcher.

- A. General Description (See Figure 1-1).

The 530 stretcher was designed to be used in the emergency department and for trauma cases. The 535 stretcher was designed to be used for the recovery room and as a stretcher / bed.

The major serviceable components of the 530 / 535 stretcher consist of a side rail latch assembly, caster brakes, casters, Fowler cylinder (gas spring), Trendelenburg cylinder (gas spring), foot pedal, pump assembly, reservoir check valve, pump check valve, manual release valve, elevation cylinder, and restrictor seat & ball.

- B. Theory of Operation (See Figure 5-1).

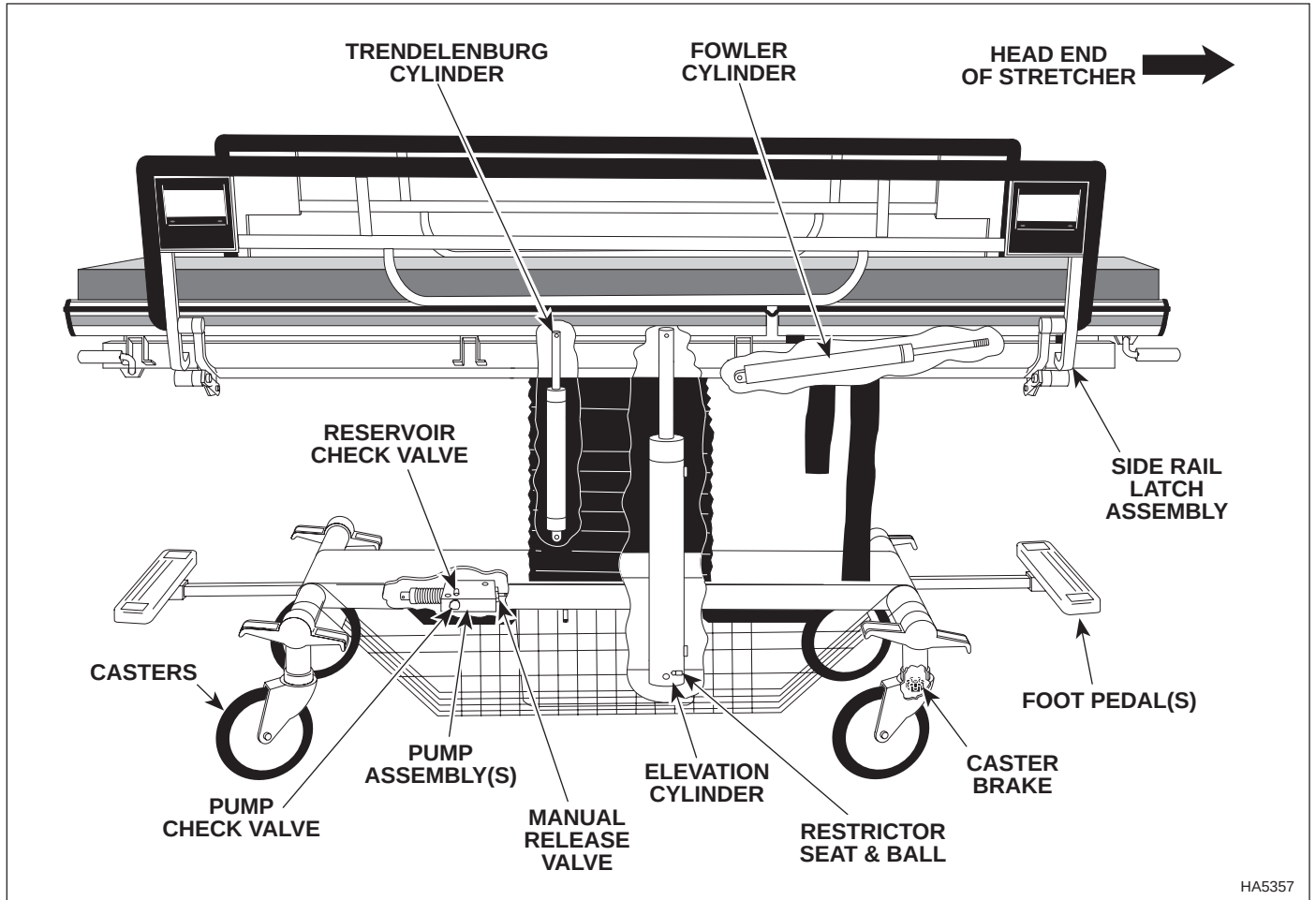
When pump pedal is going upward (preparing for the next pump stroke):

The pump pedal is released at the bottom of its stroke by the operator, and it is automatically returned to the up position by a spring. When this happens, the pump piston in the pump is pulled outward, creating a cavity in the pump and thereby creating suction. The force of the suction pulls the reservoir check valve open, allowing oil to be suctioned in the piston cavity created by the retreating pump piston. When the pump pedal is all of the way up, the piston cavity is full of oil. The oil comes from the top port of the elevation cylinder which is the reservoir of the elevation cylinder. The pump check valve and the manual release valve are held closed by springs at this time, not allowing oil to enter the piston cavity through the discharge port. If the valves did not stay closed at this time, the elevation rod would drift downward.

When the pump pedal is going downward (raising the litter top):

The pump pedal is depressed by the operator, until it reaches the bottom of its stroke, and is then released. When the pump pedal is being depressed, the pump piston forces oil out of the piston cavity. The force of the oil opens the pump check valve, allowing oil to be pushed into the elevation cylinder, causing the elevation rod to extend, which raises the litter top. The reservoir check valve is forced closed by the force of the oil, which keeps oil from escaping back into the reservoir. The manual release valve is held closed by the force of a spring and also keeps oil from escaping back into the reservoir. If the reservoir check valve and the manual release valve did not stay closed, the oil would escape back into the reservoir, and the litter top would not raise or would raise slowly.

SECTION I GENERAL INFORMATION



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Figure 1-1. Major Components

When the pump pedal is held all the way down (lowering the litter top):

The pump pedal is depressed and held all of the way down at the bottom of its travel. When this happens, the manual release valve is pulled open. This opens a path for oil to flow from the bottom of the elevation rod thru the restrictor seat & ball to the reservoir, which causes the elevation rod (litter top) to descend. The restrictor seat & ball meters the flow of oil, causing the elevation rod (litter top) to descend at a fixed descent rate. The weight of the litter top provides the force to push the oil out of the elevation cylinder.

1.4 SPECIFICATIONS

Factual data for the stretchers is provided in Table 1-1.

Table 1-1. Specifications

Description	Data
Dimensions (Model 530):	
Length	84 in (213.4 cm)
Width	29 in (73.7 cm)
Height (Adjustable)	25.75 in to 35.75 in (65.4 cm to 90.8 cm)
Mattress	78 in x 25.5 in (198.1 cm x 64.8 cm)

Table 1-1. Specifications - Continued

Description	Data
Dimensions (Model 535):	
Length	84 in (213.4 cm)
Width	33 in (83.8 cm)
Height (Adjustable)	25.75 in to 35.75 in (65.4 cm to 90.8 cm)
Mattress	78 in x 29.5 in (198.1 cm x 74.9 cm)
Siderails:	12 in (30.5 cm) high above litter top x 63.75 in (161.9 cm) length
Casters:	8 in (20.3 cm) Central locking of the brakes and steering may be accomplished from all four corners of the stretcher.
Fowler:	0° to 90°, pneumatic assisted
Trendelenburg:	12°, pneumatic assisted
Reverse Trendelenburg:	-7°, pneumatic assisted
Oil used in pump system (530 / 535 Models):	Light grade mineral oil [clear], Dexron II transmission fluid [red], or power steering fluid [light amber] (Use the same type of oil presently used in the stretcher pump - Do not mix oils.)
Maximum Patient Load:	350 lbs (158.7 kgs)
Shipping Carton (All Models):	88 in x 33 in x 38 in (223.5 cm x 83.8 cm x 96.5 cm)
Weight (530 Model):	
Normal	266 lb (120.6 kg)
With Shipping Carton	360 lb (163.3 kg)
Weight (535 Model):	
Normal	268 lb (121.6 kg)
With Shipping Carton	370 lb (167.8 kg)

1.5 Parts Replacement Ordering

If a part replacement is required, order the part directly from the factory as follows:

- (1) Refer to Figure 1-2 to determine the location of the model number and serial number of the stretcher and record this data.

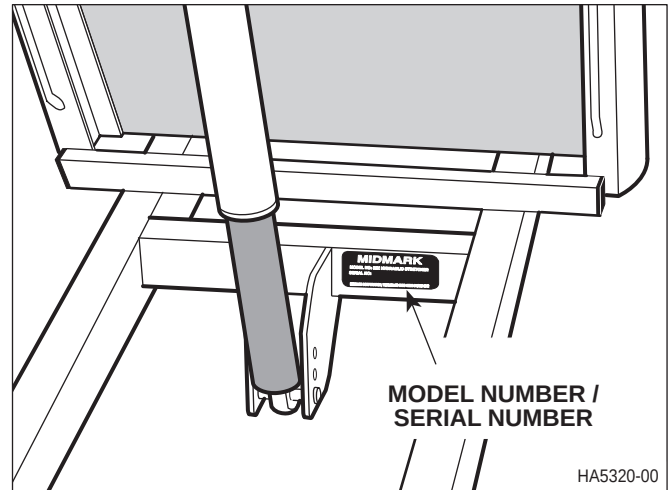


Figure 1-2. Model Number / Serial Number Location

- (2) Refer to the Parts List to determine the item numbers of the parts, part numbers of the parts, descriptions of the parts, and quantities of parts needed and record this data (Refer to para 6.1).

NOTE

Ask the Purchasing Department of the company that owns the unit for this information. Otherwise, this information may be obtained from the dealer that sold the unit.

- (3) Determine the installation date of the unit and record this data.
- (4) Call Pedigo with the recorded information and ask for the Hospital Products Service Department.

1.6 Special Tools

Table 1-2 lists all the special tools needed to repair and/or service the stretcher, describes how to obtain the special tools, and describes the purpose of each special tool.

SECTION I GENERAL INFORMATION

Table 1-2. Special Tools List

Description of Special Tool	Manufacturer's Name / Address / Phone	Manufacturer's Part Number	Purpose of Special Tool
3/8-16 x 2.5" bolt and nut (This bolt and nut are supplied with a new pump assembly replacement kit.)	Commercially Available	Any Type	Used to restrain spring so the pump assembly can be removed.
Squeezeable plastic bottle with flexible hose attached to bottle cap.	Commercially Available	Any Type	Used to fill the hydraulic system with fluid; it is very messy and difficult without.
Steel ball	Pedigo 4000 SE Columbia Way Vancouver, WA 98661 (800) 822-3501	516-0151-00	Used to create a seat for reservoir check ball in pump assemblies which previously used a reservoir check valve cartridge.
7/16" Allen Wrench	Commercially Available	Any Type	Used to put the caster assembly in brake mode before it is installed on the stretcher and to assist in aligning the caster assembly on the stretcher.
18 in (46 cm) long wire (thin and flexible)	Commercially Available	Any Type	Used to pull cable assembly thru siderail.

SECTION II TESTING AND TROUBLESHOOTING

2.1 Operational Test

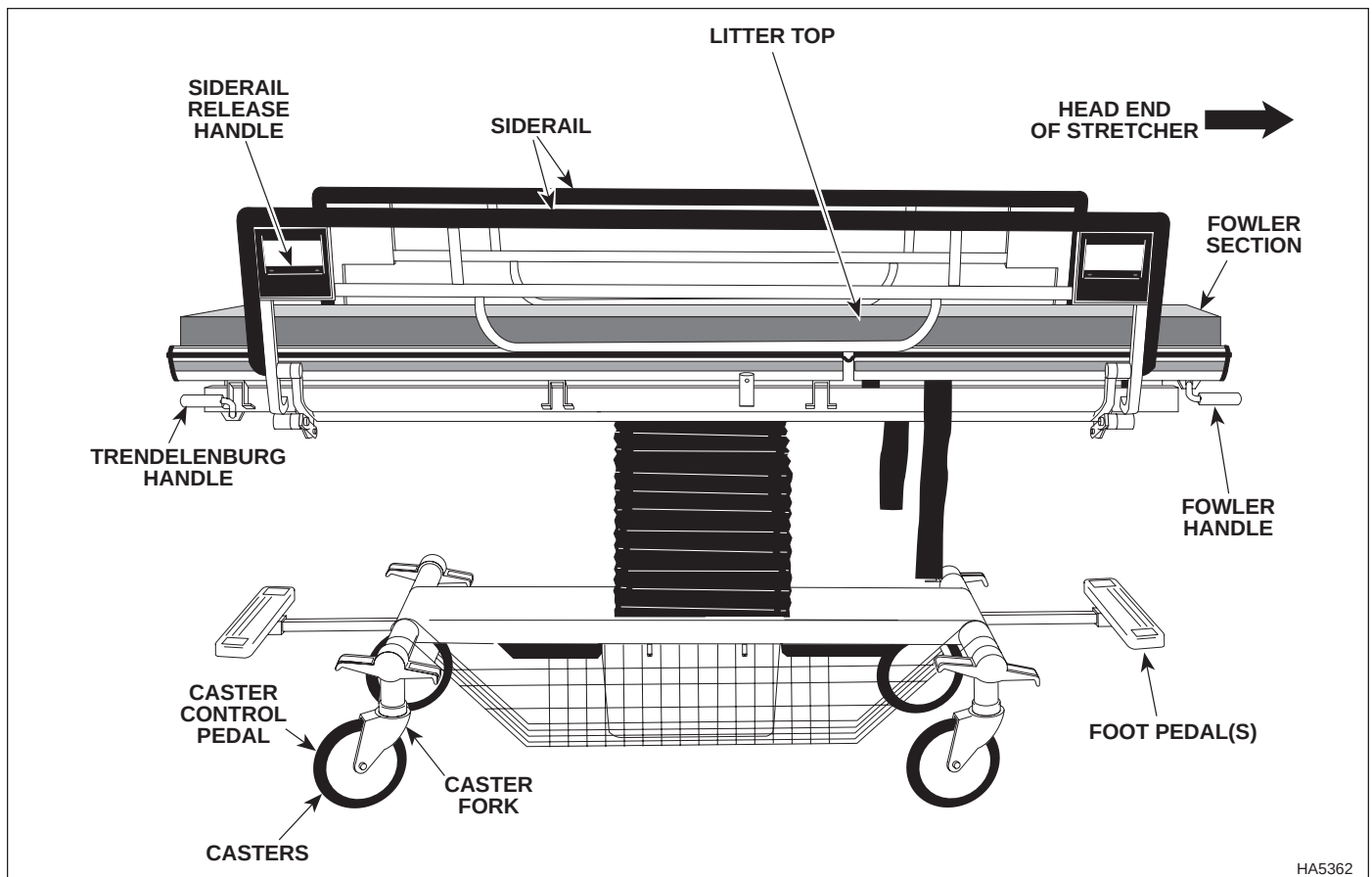
In order to effectively diagnose the malfunction of the unit, it may be necessary to perform an operational test as follows:



CAUTION

Refer to the Operator Manual for complete instructions on operating the unit. Failure to do so could result in damage to the unit.

- (1) Squeeze the Fowler handle and move the Fowler section up and down; then release the Fowler handle when the Fowler section is in halfway up position and exert pressure on the Fowler section (Refer to Figure 2-1).
- (2) Observe. The Fowler section should move up and down easily when the Fowler handle is squeezed. The movement of the Fowler section should not feel spongy. The Fowler section should not drift downward by itself when pressure is exerted on the Fowler section.
- (3) Squeeze the Trendelenburg handle and move the litter top up and down; then release the Trendelenburg handle when the litter top is in the halfway up Trendelenburg position and exert pressure on the litter top.
- (4) Observe. The litter top should move up and down easily when the Trendelenburg handle is squeezed. The movement of the litter top should not feel spongy. The litter top should not drift down by itself when pressure is exerted on the litter top.



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Figure 2-1. Operational Test

SECTION II TESTING AND TROUBLESHOOTING

- (5) Raise foot end of litter top above the level position. Then squeeze the Trendelenburg handle and lower the foot end of the litter top as far as it will go.
- (6) Observe. The litter top should be stopped in the level position by the level lock assembly.
- (7) Push down (do not squeeze) on Trendelenburg handle and attempt to lower the foot end of litter top.
- (8) Observe. The level lock assembly should release and allow the foot end of the litter top to lower all the way.
- (9) Actuate the siderail release handles. Lower and raise the siderails.
- (10) Observe. The siderails should release and latch properly. The siderails should be able to be moved up and down without using excessive force.
- (11) Depress the caster control pedal down into the "brake" position. Attempt to move stretcher. Return the caster control pedal to the "neutral" position. Attempt to move stretcher. Repeat this step for caster control pedals on the other three corners of stretcher.
- (12) Observe. The stretcher casters should not roll and the caster forks should not rotate when the caster control pedal is in the "brake" position. It should not take excessive force to depress the caster control pedal into the "brake" position. All four casters should roll and the caster forks should rotate freely when the caster control pedal is in the "neutral" position. If the stretcher has a "fifth wheel" system, its caster should be

off of the floor when caster control pedal is in the neutral or brake position.

- (13) Depress the caster control pedal down into the "steer" position. Push the stretcher around for a short distance.

NOTE

The steer caster, on a stretcher without a "fifth wheel", is usually located on the corner of the stretcher which is under the patient's right foot.

- (14) Observe. On a stretcher without a "fifth wheel", three casters should rotate normally, but the steer caster should remain straight (fork should not rotate). It should not take excessive force to depress the caster control pedal into the "steer" position. On a stretcher with a "fifth wheel", the "fifth wheel" should touch the floor providing a pivot point from which to turn the stretcher.
- (15) Pump the foot pedal until the litter top reaches its maximum height. Sit on the litter top for a minute. Get off of the litter top and depress the foot pedal as low as it will go.
- (16) Observe. The movement of the foot pedal should not feel spongy or take excessive pumping to raise the litter top. The litter top should stay raised and not drift downward by itself. The litter top should descend slowly and evenly (not in jerky movements) when the foot pedal is depressed.

2.2 Troubleshooting Procedures

Table 2-1 is a Troubleshooting Guide which is used to determine the cause of the malfunction.

Table 2-1. Troubleshooting Guide - Continued

Problem	Symptom	Probable Cause	Check	Correction
Fowler function not working correctly.	Fowler section (backrest) will not go up or down when the Fowler handle is squeezed.	Fowler gas spring out of adjustment (not turned in far enough).	Adjustment of Fowler gas spring.	Adjust Fowler gas spring. Refer to para 4.14.
	Fowler section drifts up or down without the Fowler handles being squeezed.	Gas spring out of adjustment (turned in too far).	Adjustment of gas spring.	Adjust Fowler gas spring. Refer to para 4.14.
	Fowler section feels spongy or won't go all of the way down.	Internal leak in the Fowler gas spring.	—	Replace Fowler gas spring. Refer to para 4.13.

SECTION II

TESTING AND TROUBLESHOOTING

Table 2-1. Troubleshooting Guide - Continued

Problem	Symptom	Probable Cause	Check	Correction
Trendelenburg function not working correctly.	Foot end of litter top drifts without squeezing the Trendelenburg handles.	Trendelenburg gas spring out of adjustment (turned in too far).	Adjustment of gas spring.	Adjust Trendelenburg gas spring. Refer to para 4.16.
	Foot end of litter top will not move when Trendelenburg handles are squeezed.	Trendelenburg gas spring out of adjustment (not turned in far enough).	Adjustment of gas spring.	Adjust Trendelenburg gas spring. Refer to para 4.16.
	Litter top feels spongy or won't go all of the way down.	Internal leak in the Trendelenburg gas spring.	—	Replace Trendelenburg gas spring. Refer to para 4.15.
	Litter top will not lock in level position properly when Trendelenburg function is being used.	Trendelenburg function is not being used properly (to use Trendelenburg level lock function, foot end of stretcher must be raised above the level position. Then, when Trendelenburg handle is squeezed and foot end of litter top is lowered, litter top should be stopped in level position by the Trendelenburg level lock assembly).	Check if operator has been operating function correctly or not.	Instruct operator on correct use of function.
		Trendelenburg level lock assembly needs adjusted.	Adjustment of Trendelenburg level lock assembly.	Adjust Trendelenburg level lock assembly. Refer to para 4.27.
	Trendelenburg level lock assembly does not release properly (when Trendelenburg handle is pushed downward, the level lock assembly should release from the strike plate, allowing foot end of litter top to be lowered past level lock assembly).	Trendelenburg level lock assembly needs adjusted.	Adjustment of Trendelenburg level lock assembly.	Adjust Trendelenburg level lock assembly. Refer to para 4.27.
Siderail difficult to latch or release.	Siderail won't release when the siderail release handle is pulled out and squeezed.	Siderail latch assembly out of adjustment.	Adjustment of siderail latch assembly.	Adjust siderail latch assembly. Refer to para 4.23.
	Siderail release latch won't engage when you raise the siderail	Siderail latch assembly out of adjustment.	Adjustment of siderail latch assembly.	Adjust siderail latch assembly. Refer to para 4.23.
		Weak spring or release latch components are binding.	Check spring. Check for lack of lubrication.	Lubricate release latch components. If necessary, replace spring.
	Siderail feels heavy to raise.	Lack of lubrication at pivot points.	—	Lubricate all pivot points with silicone based lubricant or white lithium grease.

SECTION II

TESTING AND TROUBLESHOOTING

Table 2-1. Troubleshooting Guide - Continued

Problem	Symptom	Probable Cause	Check	Correction
Brake caster or steer caster does not brake correctly when caster control pedal is moved to "brake" position.	When the caster control pedal is in the "brake" position, the stretcher will still roll.	Brakes are out of adjustment.	Adjustment of brakes.	Adjust caster brakes. Refer to para 4.18 or 4.19.
	With caster control pedal in the "brake" position, the caster fork still rotates, making a ratcheting noise.	Brake caster or steer caster is out of adjustment.	Check if locking ring is rubbing brake mode fork latch instead of mating with it as it should.	Adjust the fork controls of caster. Refer to para 4.20 or 4.21.
		Brake caster or steer caster is worn.	—	If adjusting the caster does not correct the problem, replace the caster. Refer to para 4.17.
Brake pedal is difficult to engage.	Excessive force is required to lock casters in the "brake" position.	Lack of lubrication in the caster stems.	Lubrication in the stem by removing the caster forks.	Apply heavy axle grease inside the cam area with a syringe or similar device.
		Caster brakes are too tight.	Adjustment of caster brakes.	Adjust caster brakes. Refer to para 4.18 or 4.19.
Stretcher does not steer correctly (stretcher without "fifth wheel").	Stretcher pulls to one side.	Caster control pedal is not engaged in the "steer" mode.	—	Depress the caster control pedal down into the "steer" position.
	Stretcher pulls back and forth from one side to the other.	Caster control pedal is in the "steer" position, but the steer caster is not in the trail position.	Check which direction the steer caster is pointing.	Depress the caster control pedal in the "neutral" position, push the stretcher a few feet in the desired direction, and then press the caster control pedal down into the "steer" position. This will ensure that the steer caster is in the trail position.
	With caster control pedal in the "steer" position, the steer caster fork (usually under patients right foot) still moves, making a ratcheting noise.	Steer caster is out of adjustment.	Check if steer mode fork latches are rubbing upper plate instead of mating with it as it should.	Adjust the fork controls of the caster. Refer to para 4.20 or 4.21.
	With caster control pedal in the "steer" position, the caster under the patient's right foot (the steer caster) does not lock parallel to the side of the stretcher.	Broken stem on caster.	Remove caster fork and inspect stem for broken parts.	Replace caster. Refer to para 4.17.
	Stretcher does not steer correctly (stretcher with "fifth wheel").	When fifth wheel caster is pushed over door threshold or other obstacle, the caster control pedal is thrown into the neutral position.	The bottom linkage of the fifth wheel is incorrectly assembled, which does not allow fifth wheel to flex when going over obstacles.	Check for correct assembly of linkage.
The linkage return spring is too strong.			—	Replace with weaker spring.

SECTION II

TESTING AND TROUBLESHOOTING

Table 2-1. Troubleshooting Guide - Continued

Problem	Symptom	Probable Cause	Check	Correction
Difficult to pump up litter top and/or litter top drifts downward on its own.	One, or both pedals (if two pump system) feel spongy and excessive strokes are required to raise the litter top.	Air in the hydraulic system or oil level low.	Check oil level.	Add oil if necessary. Refer to para 4.4. Purge air from hydraulic system. Refer to para 4.5.
	Litter top will not pump up or pumps up slowly (excessive pump strokes are required).	Pump check valve malfunctioning - stuck open.	Check pump check valve for blockage.	Replace pump check valve or pump assembly. Refer to para 4.10 or 4.7.
		Piston rings are worn or damaged.	Check piston rings for wear or damage.	Replace pump assembly. Refer to para 4.7.
		Reservoir check valve is malfunctioning - stuck open.	Check reservoir check valve for blockage.	Replace reservoir check valve or pump assembly. Refer to para 4.10 or 4.7.
		Elevation cylinder is leaking internally.	Clamp lower hose(s) from elevation cylinder when litter top is fully elevated. If litter top continues to drift, elevation cylinder is leaking internally. If drifting stops, problem is in the pump assembly.	If elevation cylinder is leaking internally, rebuild or replace elevation cylinder. Refer to para 4.12 or 4.11.
	After litter top is elevated, it drifts down by itself.	Release point of manual release valve is out of adjustment.	Check adjustment of manual release valve.	Adjust release point of manual valve release valve. Refer to para 4.8.
		Manual release valve is leaking internally.	Remove and inspect valve for blockage.	Replace manual release valve or pump assembly. Refer to para 4.9 or 4.7.
		Oil leak from loose fitting or ruptured hose.	Check for oil leaks around hoses and fittings.	Tighten fittings or replace damaged hose.
		Elevation cylinder is leaking internally.	Clamp lower hose(s) from elevation cylinder when litter top is fully elevated. If litter top continues to drift, elevation cylinder is leaking internally. If drifting stops, problem is in the elevation pump.	If elevation cylinder is leaking internally, rebuild or replace elevation cylinder. Refer to para 4.12 or 4.11.
		Pump check valve is malfunctioning - stuck open.	Check pump check valve for blockage.	Replace pump check valve or pump assembly. Refer to para 4.10 or 4.7.
	Litter top descends very quickly when released.	Restrictor ball and/or seat is missing from bottom fitting on elevation cylinder.	Remove lower fitting from elevation cylinder and check to see if the restrictor ball and/or seat is missing from the fitting.	Replace restrictor seat and ball. Refer to para 4.11.
		Oil leak from loose fitting or ruptured hose.	Check for oil leaks around hoses and fittings.	Tighten fittings or replace damaged hose.

SECTION II

TESTING AND TROUBLESHOOTING

Table 2-1. Troubleshooting Guide - Continued

Problem	Symptom	Probable Cause	Check	Correction
Difficult to pump up litter top and/or litter top drifts downward on its own.	Foot pedal will not return all the way up after being depressed.	Piston return spring weak or pedal pivot points dry.	Check condition of piston return spring and check for lubricant.	Lubricate the pedal pivot points with silicone based lubricant. If no improvement, replace piston return spring. Refer to para 4.7.
	Manual release valve will not release to allow litter top to descend.	Release point of manual release valve is out of adjustment.	Check adjustment of manual release valve.	Adjust release point of manual valve release valve. Refer to para 4.8.
	Litter top will not descend or descends too slowly.	Restrictor seat & ball is plugged.	Check for contamination in fitting which contains the restrictor seat & ball.	Clean out contamination. Refer to para 4.11.
		Manual release valve is malfunctioning.	Check condition of manual release valve.	Replace manual release valve. Refer to para 4.9.

SECTION III

SCHEDULED MAINTENANCE

3.1 Scheduled Maintenance

Table 3-1 is a Scheduled Maintenance Chart which lists the inspections and services that should be performed

periodically on the stretcher. These inspections and services should be performed as often as indicated in the chart.

Table 3-1. Scheduled Maintenance Chart

Interval	Inspection or Service	What to Do
Daily	Upholstery	Condition of upholstery should be maintained with a clean, damp cloth or sponge. A mild soap and water solution should be used for hard-to-clean areas and stained areas. If disinfectant cleaners are used, do not exceed manufacturers' recommended dilution rate or life expectancy of upholstery may be shortened.
	Obvious damage	Visually check condition of stretcher for obvious damage such as: Cracks in components, missing components, dents in components, torn upholstery, leaking fluids, or any other visible damage which would cause the stretcher to be unsafe for usage. Repair stretcher before using.
	Painted and plastic surfaces	All painted metal surfaces should be maintained by wiping clean with a soft, damp cloth.
	Unpainted or chrome surfaces	All unpainted metal surfaces should be maintained by wiping clean with a soft, damp cloth. Check all metal surfaces for dents or damage that could result in sharp edges. Replace damaged metal.
	Elevation column assembly bellows cover	Check bellows cover for rips, tears, or other obvious damage. Repair or replace bellows cover if damaged. Ensure that velcro restraints or closures are intact.
	Restraint straps	Check restraint straps for fraying, rips, and proper operation. Replace restraint straps as necessary.
	Fasteners/Hardware	Check stretcher for missing or loose fasteners/hardware. Replace any missing hardware and tighten any loose hardware as necessary using removable threadlock if applicable.
Semi-Annually	Moving parts	All moving parts should be lubricated with white lithium grease or petroleum jelly, except linkages. All linkages should be lubricated with Teflon or Silicone based lubricant.
	Caster control pedal inserts	Check green and red pedal inserts of four pedals. If pedal inserts are missing, replace as necessary.
	Warning and instructional decals	Check for missing or illegible decals. Replace decals as necessary.
	Siderail operation	Check for proper siderail operation, making sure that siderails release and latch easily. Adjust siderails if necessary. Adjust or repair latching mechanism if necessary. Refer to para 4.23.
	Siderail pivot points	Lubricate siderail pivot points with Teflon or Silicone based lubricant. Check that pivot points move freely during operation of siderails. Repair pivot points if necessary. If bolts/nuts are loose, remove bolts/nuts, apply removable threadlock and re-install bolts/nuts.
	Siderail latch assembly	Lubricate latch assembly with white lithium grease or petroleum jelly. Check that latch assembly releases and latches easily. Adjust or repair latch assembly if necessary. Refer to para 4.25 or 4.24.
	Caster stem screws	Check caster stem screws for tightness. Remove any loose screws, apply removable threadlock, and re-install screws and lockwashers.
	Caster control pedal	Check caster control pedal for proper operation. Make sure all four pedals work in the brake, neutral, and steer positions. If not adjust or replace casters. Refer to para 4.20, 4.21, 4.22, or 4.23. Brake engaged (Red side of pedal down): Check that all four wheels of stretcher will not move when brake is engaged. Neutral engaged (Pedal in horizontal position): Check that all four wheels operate in free wheel when neutral is engaged. Steer engaged (Green side of pedal down): On stretchers without "fifth wheel", check that steer caster locks in forward and reverse positions when steer is engaged. Adjust or repair any of the four pedals as necessary. On stretchers with "fifth wheel", check that fifth wheel contacts floor surface positively, providing a good steer pivot point.

SECTION III SCHEDULED MAINTENANCE

Table 3-1. Scheduled Maintenance Chart - Continued

Interval	Inspection or Service	What to Do
Semi-Annually - (Continued)	Caster tire nuts/bolts	Check caster tire nuts/bolts for tightness. If loose, replace bolts/nuts with new bolts/nuts using removable threadlock on bolt threads.
	Elevation pump foot pedal(s)	Check elevation pump foot pedal(s) for firmness. Check that foot pedal releases the stretcher when the pedal is 3/4 in. (1.9 cm) to 1 in. (2.54 cm) from floor. Adjust release point of foot pedal if necessary. Refer to para 4.8.
	Hydraulic pump, hoses, and elevation cylinder	Check hydraulic pump, hoses, and elevation cylinder for leaks. Tighten hose connections and fittings as necessary. Replace hoses and fittings if necessary. Refer to para 4.6. Check oil level of the hydraulic system. Refill hydraulic system with the same type of oil presently used in the hydraulic system (light grade mineral oil [clear], Dexron II transmission fluid [red], power steering fluid [light amber]. Refer to para 4.4. Check hydraulic system for proper operation. If stretcher does not operate correctly, have full travel, or release correctly, purge air from hydraulic system (refer to para 4.5), adjust release point of pump foot pedal (refer to para 4.8), replace pump assembly (refer to para 4.7), or replace/repair elevation cylinder (refer to 4.13 or 4.14).
	Fowler gas spring and linkage	Lubricate linkage of Fowler gas spring with Teflon or Silicone based lubricant. Check Fowler gas spring and linkage for proper operation, alignment, and engagement. Make sure Fowler gas spring releases and holds. Adjust linkage if necessary. Refer to para 4.16. Replace Fowler gas spring if it does not operate correctly. Refer to para 4.15.
	Trendelenburg gas spring and linkage	Lubricate linkage of Trendelenburg gas spring with Teflon or Silicone based lubricant. Check Trendelenburg gas spring and linkage for proper operation, alignment, and engagement. Make sure Trendelenburg gas spring releases, holds, and level locks properly. Adjust linkage if necessary. Refer to para 4.18. Replace Trendelenburg gas spring if it does not operate correctly. Refer to para 4.17.
	Trendelenburg level lock assembly	Check that the level lock function works correctly. To do this, raise the foot end of the litter top above level position. Squeeze Trendelenburg handle and lower foot end of litter top - level lock assembly should stop litter top at level position. Push down on Trendelenburg handle and lower foot end of litter top below level position - level lock assembly should release litter top. If level lock assembly is not working correctly, adjust level lock assembly. Refer to para 4.29.
	Litter top stability	Check that litter top is stable and does not have excessive side play in the column. Check for loose screws/nuts on column or pivot plate. Tighten any loose screws/nuts. If necessary, replace or adjust tire bearings. Refer to para 4.26.
	Operational Test	Perform an Operational Test to determine if the stretcher is operating within its specifications (Refer to para 2.1). Replace any malfunctioning components.

SECTION IV
MAINTENANCE / SERVICE INSTRUCTIONS

4.1 Introduction

**DANGER**

Refer to the Operator Manual for complete instructions on operating the stretcher. Failure to do so could result in personal injury.

NOTE

Perform an operational test on the stretcher after the repair is completed to confirm the repair was properly made and that all stretcher malfunctions were repaired.

The following paragraphs contain removal, installation, and adjustment procedures for the stretcher.

4.2 Lower Cover Removal / Installation

A. Removal

NOTE

If there are wire baskets on the stretcher, they must be removed before the lower cover can be removed. To remove a wire basket, use foot to apply pressure to bottom of basket. When the top edge of the basket is clear of screws, pull wire basket outside of the screws.

- (1) Remove four screws (1, Figure 4-1), spacers (2), and lower cover (3) from chassis (4).

B. Installation

- (1) Position lower cover (3) close to chassis (4) and feed ground chain (5) thru chain hole in lower cover.
- (2) Position lower cover (3) on chassis (4) and secure with four spacers (2) and screws (1).

4.3 Bellows - Raise or Lower For Access

A. Raise Bellows For Access

- (1) Pull the bottom of the bellows (1, Figure 4-2) up from four velcro strips (2).

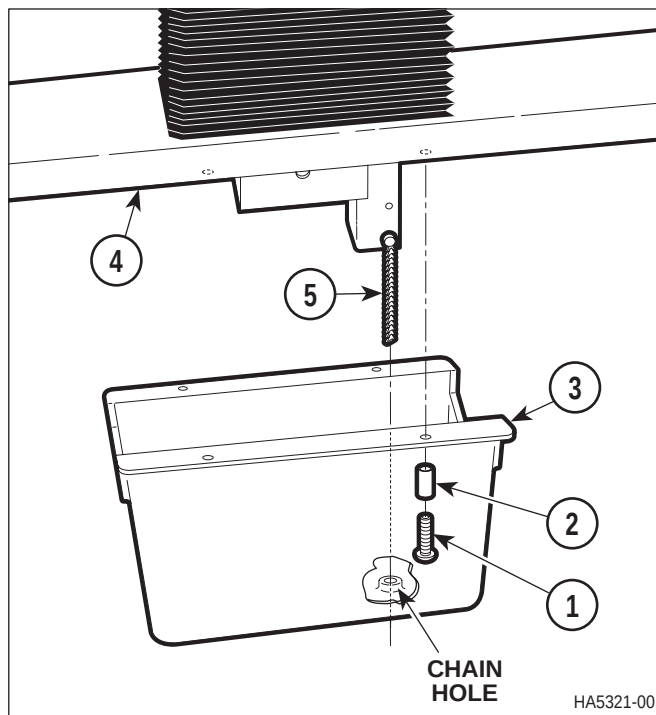


Figure 4-1. Lower Cover Removal / Installation

- (2) If necessary, tie bellows (1) up out of the way with a tie strap.

B. Return Bellows From Raised Position

- (1) If used, cut tie strap.

NOTE

Push all four sides of the bellows base firmly against the four velcro strips to ensure bellows will be held tightly in place.

- (2) Lower bellows (1) onto four velcro strips (2).

C. Lower Bellows For Access

- (1) Remove four screws (1, Figure 4-3) and lower bellows (2) from litter top (3).

D. Return Bellows From Lowered Position

- (1) Position brackets of bellows (2) on litter top (3) and secure with four screws (1).

SECTION IV MAINTENANCE / SERVICE

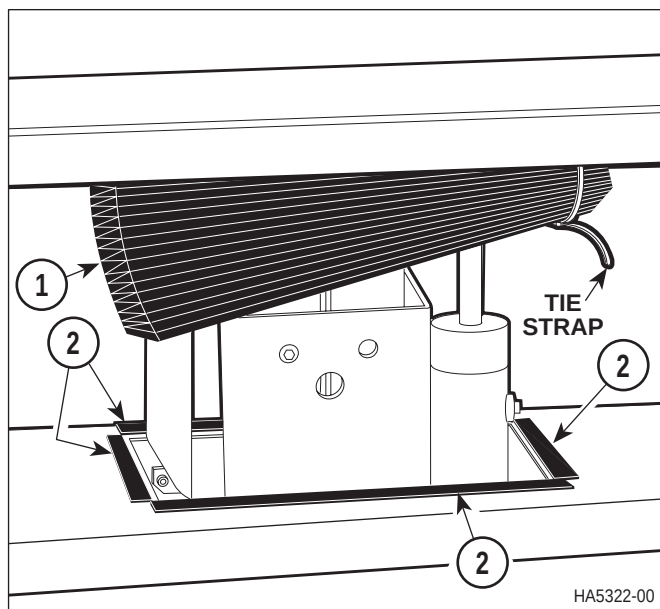


Figure 4-2. Raise Bellows For Access

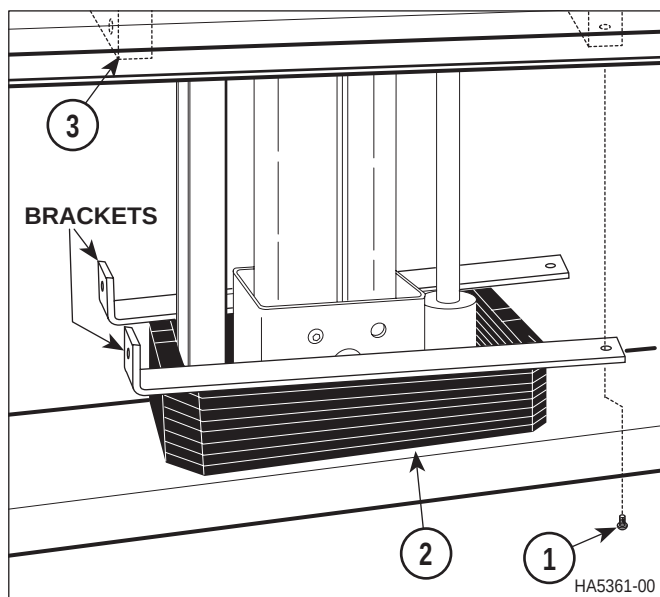


Figure 4-3. Lower Bellows For Access

4.4 Add Oil To Hydraulic System

A. Add Oil

- (1) Depress foot pedal as far as it will go to lower the stretcher to its lowest position.
- (2) Raise the bellows for access (Refer to para 4.3).

- (3) Remove plug (1, Figure 4-4) from fill port of elevation cylinder (2).



CAUTION

There are two types of oil which have been used in the hydraulic system: light grade mineral oil (clear) and Dexron II Transmission Fluid (red). Refill the hydraulic system of the stretcher with the same type of oil the stretcher had previously contained.

- (4) Using a squeezable plastic bottle, add oil to fill port until fluid level reaches height of fill port and starts to flow back out of the fill port.
- (5) Install plug (1) in elevation cylinder (2).
- (6) Return bellows from raised position (Refer to para 4.3).
- (7) Purge air from the hydraulic system (Refer to para 4.5).

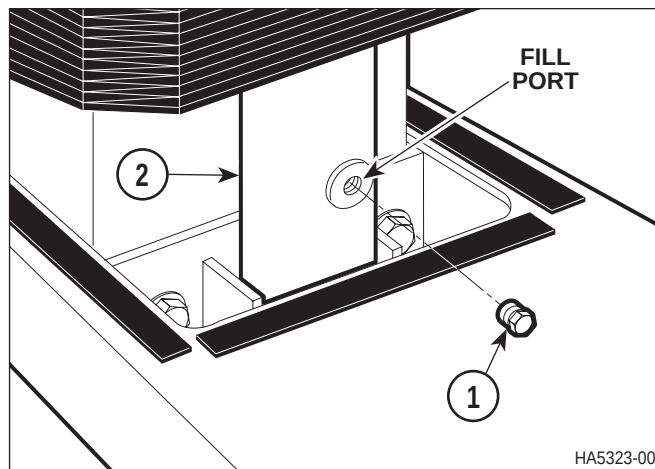


Figure 4-4. Adding Oil To Hydraulic System

4.5 Purge Air From Hydraulic System

A. Purging Air

NOTE

If the stretcher being repaired is a dual pump (two pedal) system, the procedure is still the same. Just determine which of the two pumps need purged of air and apply the following procedure to that pump. If both pumps need purged of air, perform the procedure on one pump at a time.

- (1) Remove lower cover (Refer to para 4.2).

NOTE

Older units may not have a pad. If this is the case, it is advisable to order and install one. Any oil drops will be absorbed into the pad instead of running.

- (2) Remove two nuts (1, Figure 4-5), pump cover (2), and pad (3) from two bolts (4).



CAUTION

The manual release valve stem is only meant to be pulled out approximately 1/8 in (0.32 cm). Pulling it out farther could result in damage to the valve.

Do not try to clamp the manual release valve stem in the pulled out position with a vise grips. When the foot pedal is pumped, the release bracket will put pressure on the manual release valve stem, snapping the valve stem.

NOTE

Depress the foot pedal slowly and evenly to prevent the introduction of air in the hydraulic system.

The litter top of stretcher will not raise because the manual release valve is being held in the open position. Oil is pushed through the hydraulic system, purging air from it.

- (3) While pulling outward on the manual release valve stem (5) with a pliers or vise grips, slowly pump the foot pedal (6) five to six times.

NOTE

A foot pedal is considered "spongy" if the pedal travels more than 1 in. (2.54 cm) before resistance to the foot pedal is felt.

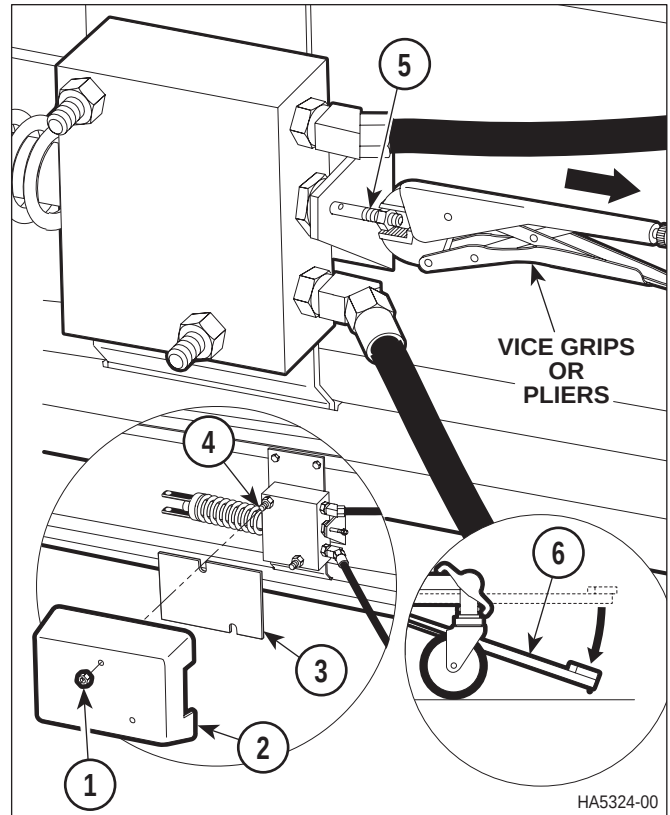


Figure 4-5. Purge Air From Hydraulic System

- (4) Remove pliers or vise grip from the manual release valve stem and test the foot pedal (6) for sponginess. Repeat step 3 until the foot pedal no longer feels spongy when pumped.

NOTE

Older units may not have a pad. If this is the case, it is advisable to order and install one. Any oil drops will be absorbed into the pad instead of running.

- (5) Install pad (3) and pump cover (2) on two bolts (4) and secure with two nuts (1).
- (6) Install lower cover (Refer to para 4.2).

4.6 Hose Removal / Installation

A. Removal

- (1) Remove lower cover (Refer to para 4.2).
- (2) Depress the foot pedal as far as it will go to lower the stretcher to it's lowest position.

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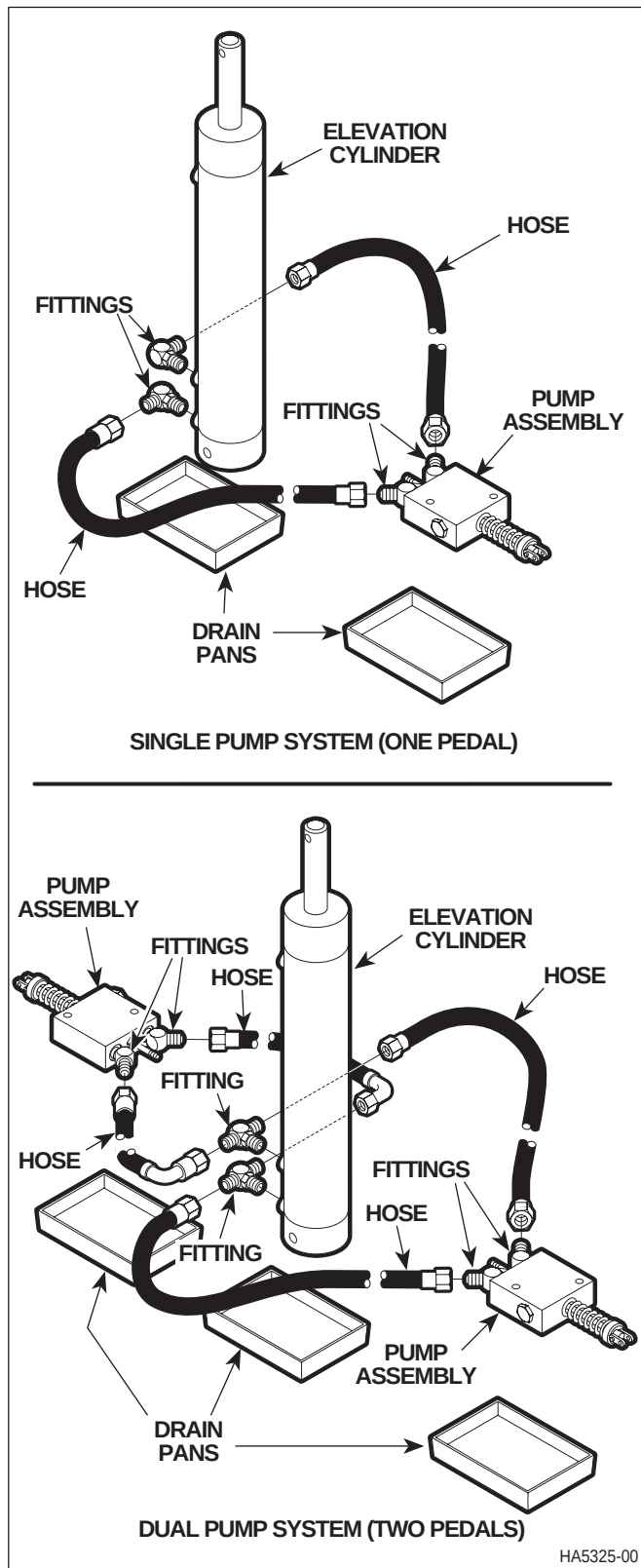


Figure 4-6. Hose Removal / Installation

- (3) Place drain pan(s) under the hose connections to catch oil. See Figure 4-6.
- (4) Disconnect one end of hose from fitting in pump assembly and the other end of the hose from fitting in elevation cylinder and remove hose.

B. Installation

- (1) Connect one end of hose to fitting in elevation cylinder and the other end of the hose to fitting in pump assembly.
- (2) Add oil to hydraulic system (Refer to para 4.4).
- (3) Purge air from the hydraulic system (Refer to para 4.5).
- (4) Install lower cover (Refer to para 4.2).
- (5) Dispose of used oil in accordance with local regulations.

4.7 Pump Assembly Removal / Installation

A. Removal

- (1) Remove lower cover (Refer to para 4.2).
- (2) Depress the caster control pedal to the "brake" position.
- (3) If possible, lower litter top as low as it will go; then lay the stretcher onto its side.

NOTE

Older units may not have a pad. If this is the case, it is advisable to order and install one. Any oil drops will be absorbed into the pad instead of running.

- (4) Remove two nuts (1, Figure 4-7), pump cover (2), and pad (3) from two bolts (4).
- (5) Depress foot pedal (5) down as far as it will go and use a weight or some other method to keep it down.

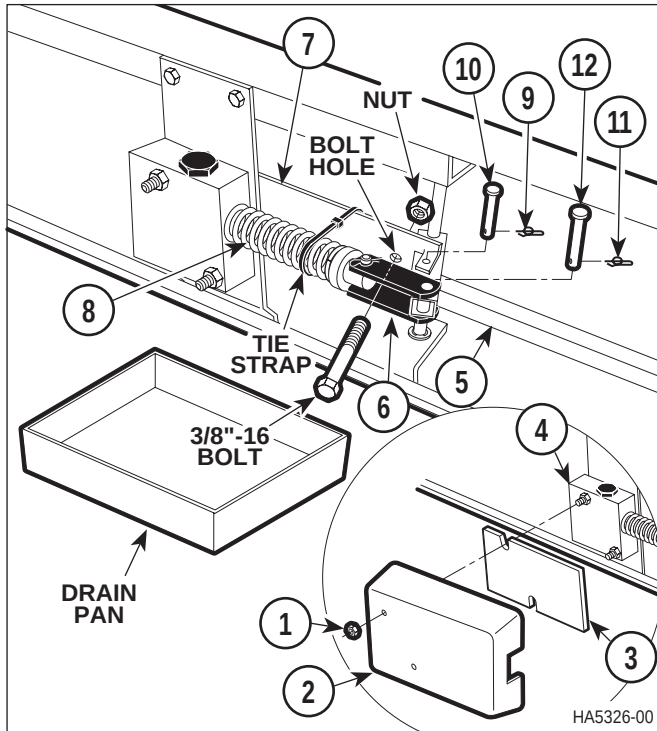


Figure 4-7. Foot Pedal Disconnection



DANGER

Spring is under compression. Failure to keep foot pedal secured for the following steps could result in severely pinched or cut fingers.

NOTE

The 3/8-16 x 2.5" bolt and nut are not supplied with the stretcher. However, if a pump assembly kit is purchased, the bolt and nut are supplied with the kit. They are used to hold the tension on the spring to allow removal of the pump assembly.

- (6) Install a 3/8-16 x 2.5" bolt between the pump pedal links (6) and thru bolt hole in release bar (7) and secure with nut.
- (7) Using a tie strap, secure the spring (8) to the release bar (7).
- (8) Disconnect release bar (7) from foot pedal (5) by removing rue ring (9) and clevis pin (10).
- (9) Disconnect pump pedal links (6) from foot pedal (5) by removing rue ring (11) and clevis pin (12).

- (10) Place a drain pan under pump assembly.

NOTE

After disconnecting hoses, position end of hoses facing upward so oil will not leak out.

- (11) Tag and disconnect hoses (1 and 2, Figure 4-8) from elbows (3 and 4).
- (12) Loosen jam nuts; then remove elbows (3 and 4) from pump assembly (5).
- (13) Remove two screws (6) and pump assembly (5) from chassis (8).
- (14) Remove two nuts (1, Figure 4-9), washers (2), screws (3), and pump plate (4) from pump assembly (5).
- (15) Remove nut (6) from manual relief valve stem (7).

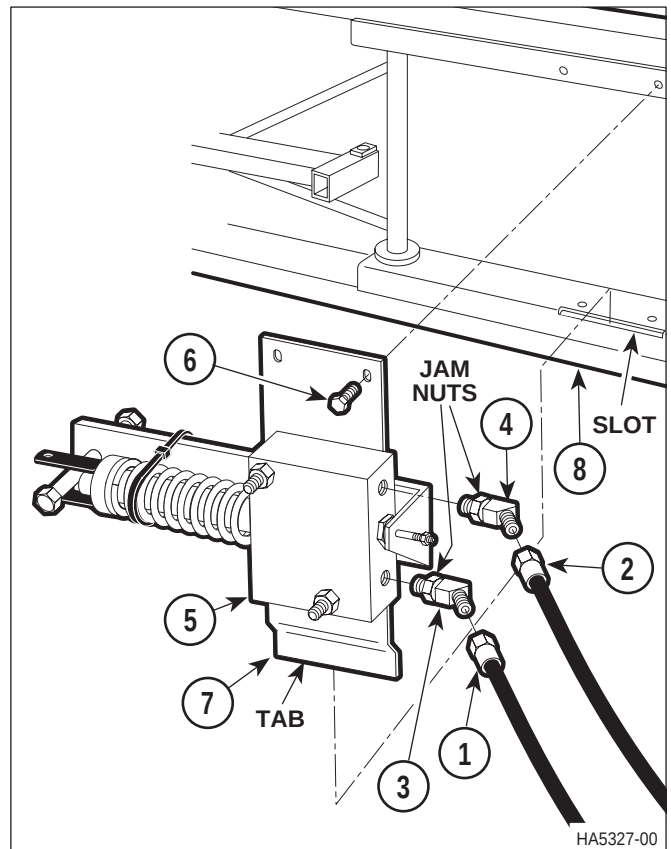


Figure 4-8. Pump Assembly Removal / Installation

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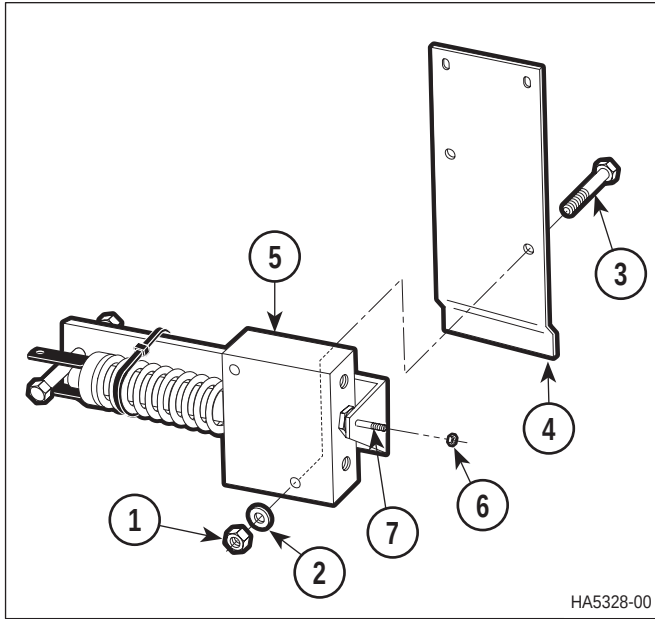


Figure 4-9. Pump Assembly Disassembly

B. Installation

- (1) Install nut (6, Figure 4-9) on manual relief valve stem (7). Tighten only one or two turns.
- (2) Install pump plate (4) on pump assembly (5) and secure with two screws (3), washers (2), and nuts (1).
- (3) Install tab of pump plate (7, Figure 4-8) in slot in chassis (8) and secure with two screws (6).



CAUTION

Make sure the O-rings are not damaged and are present on both elbows. If not, the elbows could leak, causing the stretcher to operate improperly.

- (4) Coat o-rings on elbows (3 and 4) with oil.
- (5) Install elbows (3 and 4) on pump assembly (5), making sure to tighten jam nuts of elbows *after* elbow itself has been hand tightened and positioned. Tighten jam nuts to 10 - 12 ft-lbs (13.5 - 16.2 N•m).
- (6) Connect hoses (1 and 2) to elbows (3 and 4).
- (7) Connect pump pedal links (6, Figure 4-7) to foot pedal (5) with clevis pin (12) and rue ring (11).

- (8) Cut tie strap.
- (9) Remove nut and 3/8-16 x 2.5" bolt from release bar (7).
- (10) Connect release bar (7) to foot pedal (5) with clevis pin (10) and rue ring (9).
- (11) Turn stretcher upright.
- (12) Add oil to hydraulic system (Refer to para 4.4).
- (13) Purge air from the hydraulic system (Refer to para 4.5).
- (14) Adjust the pump assembly release point (Refer to para 4.8).

NOTE

Older units may not have a pad. If this is the case, it is advisable to order and install one. Any oil drops will be absorbed into the pad instead of running.

- (15) Install pad (3) and pump cover (2) on two bolts (4) and secure with two nuts (1).
- (16) Install lower cover (Refer to para 4.2).
- (17) Dispose of used oil in accordance with local regulations.

4.8 Pump Assembly Release Point Adjustment

A. Adjustment

- (1) Remove the lower cover (Refer to para 4.2).

NOTE

Older units may not have a pad. If this is the case, it is advisable to order and install one. Any oil drops will be absorbed into the pad instead of running.

- (2) Remove two nuts (1, Figure 4-10), pump cover (2), and pad (3) from two bolts (4).
- (3) Pump foot pedal (5) five to six times to partially raise stretcher.

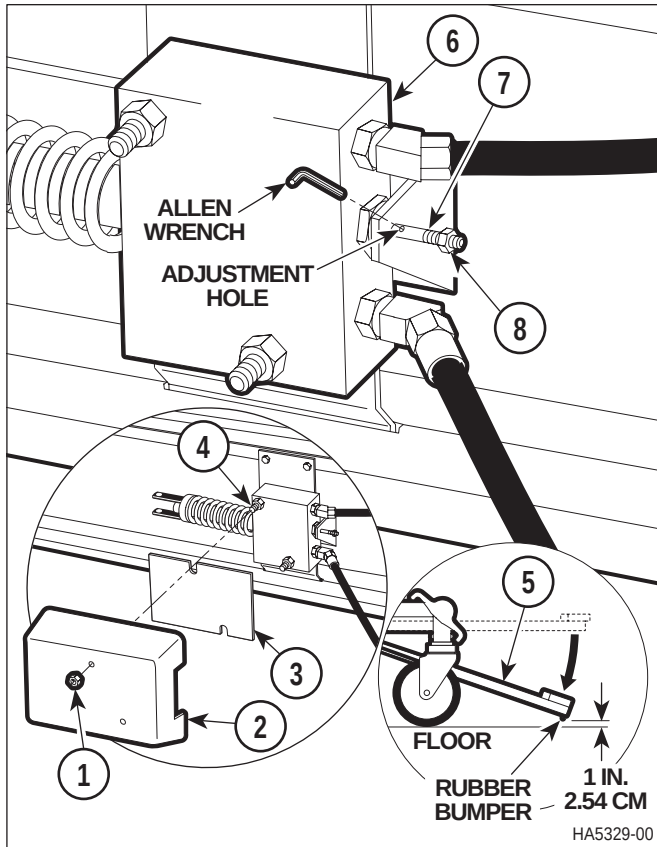


Figure 4-10. Pump Assembly Release Point Adjustment

NOTE

There is a rubber bumper on the bottom of the foot pedal. The bottom of the rubber bumper is what should be 1 in. (2.54 cm) above the floor when the pump assembly releases.

- (4) Depress foot pedal (5) down as far as it will go and observe what the height of the foot pedal is above the floor when the pump assembly (6) releases.

- (5) Insert a small Allen Wrench in the adjustment hole of the manual release valve stem (7).

NOTE

If the foot pedal releases the pump assembly higher than 1 in. (2.54 cm) above the floor, unscrew nut (8) slightly. If the foot pedal releases the pump assembly lower than 1 in. (2.54 cm) above the floor, screw nut (8) in slightly.

- (6) Using the Allen Wrench to keep the manual release valve stem (7) from rotating, turn nut (8) in the direction necessary as determined in the previous note.
- (7) Repeat steps (3 thru 6) until the foot pedal (5) is 1 in. (2.54 cm) above the floor when the pump assembly (6) releases.

NOTE

Older units may not have a pad. If this is the case, it is advisable to order and install one. Any oil drops will be absorbed into the pad instead of running.

- (8) Install pad (3) and pump cover (2) on two bolts (4) and secure with two nuts (1).
- (9) Install lower cover (Refer to para 4.2).

4.9 Manual Release Valve Removal / Installation (New Style Pump Only)

A. Removal

- (1) Remove lower cover (Refer to para 4.2).
- (2) Depress the caster control pedal to the "brake" position.
- (3) Lay the stretcher onto its side.
- (4) Remove two nuts (1, Figure 4-11), pump cover (2), and pad (3) from two bolts (4).
- (5) Place a drain pan under pump assembly (5).
- (6) Insert a small Allen Wrench into adjustment hole of manual release valve stem (6); then using Allen Wrench to hold manual release valve stem stationary, remove nut (7).
- (7) Remove rue ring (8), clevis pin (9), and disconnect release bar (10) from foot pedal (11). Slide release bar off of manual release valve stem (6).
- (8) Tag and disconnect hoses (1, Figure 4-12) from elbows (2).
- (9) Loosen jam nuts; then remove elbows (2) from pump assembly (3).

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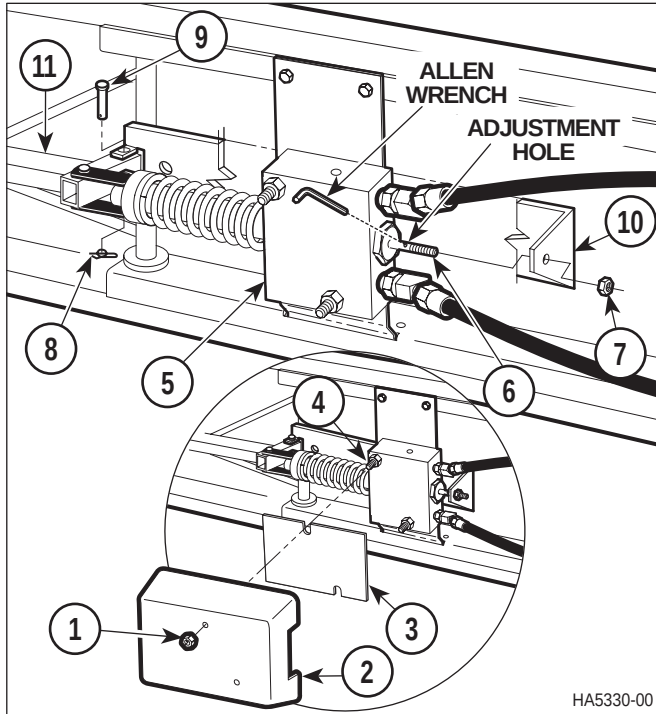


Figure 4-11. Preparation For Manual Release Valve Removal / Installation

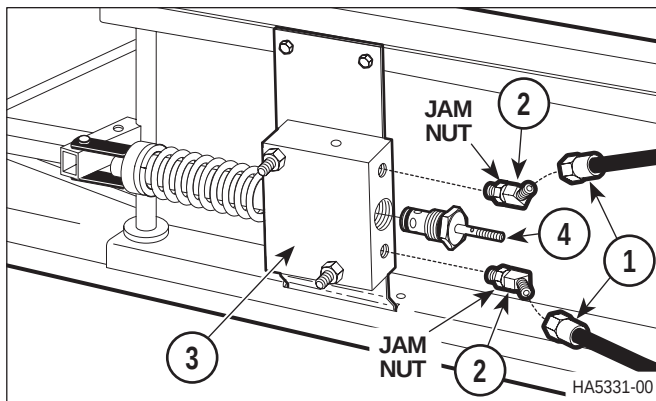


Figure 4-12. Manual Release Valve Removal / Installation

NOTE

Tapping on manual release valve sharply with a hammer makes removal of manual release valve easier.

- (10) Remove manual release valve (4) from pump assembly (3).
- (11) Clean and flush out exposed portion of pump assembly with oil.

B. Installation

- (1) Coat o-rings and threads of manual release valve (4, Figure 4-12) with Vaseline or oil.
- (2) Install manual release valve (4) in pump assembly (3) and tighten to 25 - 30 ft-lbs (33.9 - 40.7 N•m).
- (3) Coat o-rings of elbows (2) with Vaseline or oil.
- (4) Install elbows (2) on pump assembly (3), making sure to tighten jam nuts of elbows *after* elbow itself has been tightened and positioned.
- (5) Connect hoses (1) to elbows (2).
- (6) Slide release bar (10, Figure 4-11) over manual release valve stem (6). Secure other end of release bar (10) to foot pedal (11) with clevis pin (9) and ring (8).
- (7) Insert a small Allen Wrench into adjustment hole of manual release valve stem (6); then using Allen Wrench to hold manual release valve stem stationary, install nut (7). Tighten only one or two turns.
- (8) Raise stretcher to upright position.
- (9) Add oil to hydraulic system (Refer to para 4.4).
- (10) Purge air from the hydraulic system (Refer to para 4.5).
- (11) Adjust the pump assembly release point (Refer to para 4.8).

NOTE

Older units may not have a pad. If this is the case, it is advisable to order and install one. Any oil drops will be absorbed into the pad instead of running.

- (12) Install pad (3) and pump cover (2) on two bolts (4) and secure with two nuts (1).
- (13) Install lower cover (Refer to para 4.2).
- (14) Dispose of used oil in accordance with local regulations.

4.10 Pump Check Valve And Reservoir Check Valve Removal / Installation (New Style Pump Only)

A. Removal

- (1) Remove lower cover (Refer to para 4.2).
- (2) Depress the caster control pedal to the "brake" position.
- (3) Lay the stretcher onto its side.
- (4) Remove two nuts (1, Figure 4-13), pump cover (2), and pad (3) from two bolts (4).
- (5) Place a drain pan under pump assembly (5).

NOTE

Tapping on pump check valve sharply with a hammer makes removal of pump check valve easier.

- (6) Remove pump check valve (6) from pump assembly (5).

NOTE

The stretcher may need to be turned over onto its other side in order to get reservoir check valve or reservoir check ball out.

- (7) Remove spring (7), reservoir check valve (8), and o-ring (9) from pump assembly (5) **or** remove inlet check spring (10) and reservoir check ball (11) from pump assembly (5).
- (8) Clean and flush out exposed portion of pump assembly with oil.

B. Installation

- (1) Coat o-ring and threads of pump check valve (6) with Vaseline or oil.

NOTE

The following step creates a seat for the reservoir check ball.

- (2) If installing a reservoir check ball (11) in pump assembly (5) which previously had a reservoir check valve (8), perform the following step:
Place steel ball in cavity of pump assembly (5)

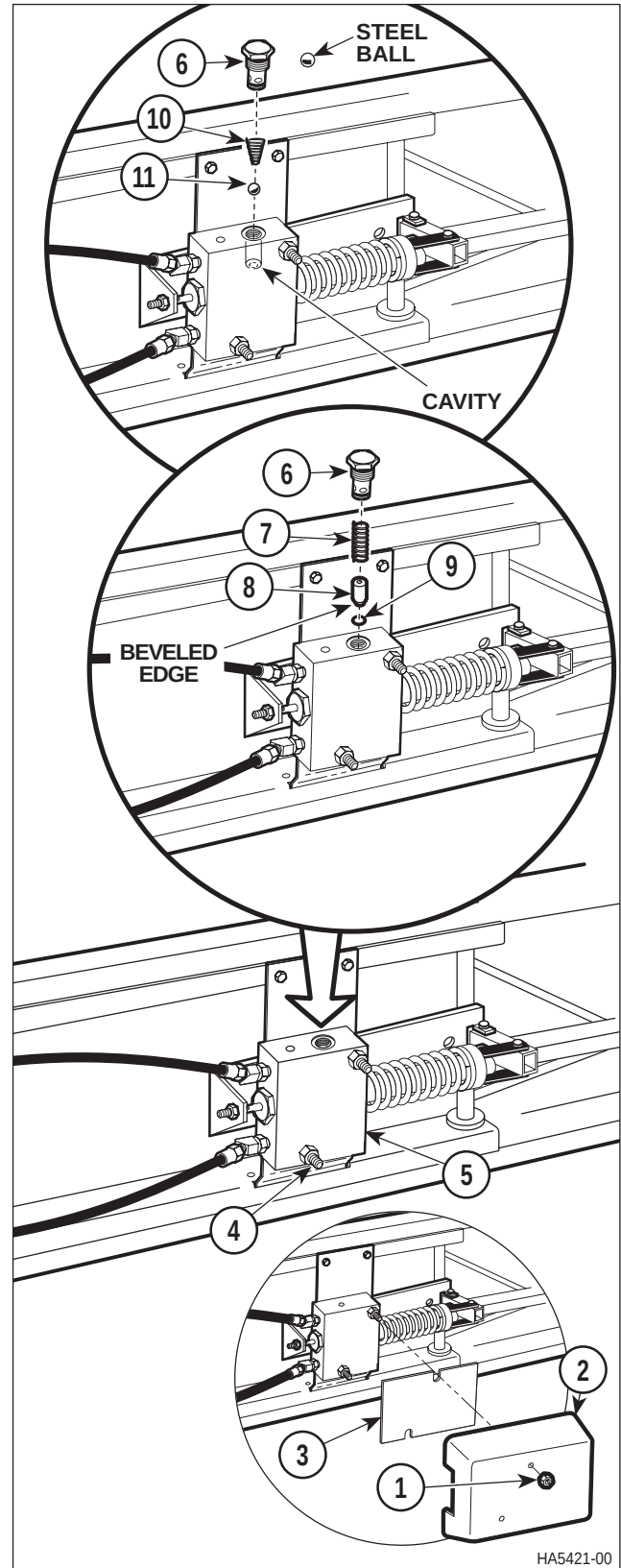


Figure 4-13. Pump Check Valve And Reservoir Check Valve Removal / Installation

SECTION IV MAINTENANCE / SERVICE

andpeen cavity with a hammer and punch.
Remove steel ball from cavity. Refer to Table 1-2 for special tool.



CAUTION

The beveled edge of reservoir check valve must be inserted facing inward, or pump assembly will malfunction.

- (3) Install reservoir check ball (11) and inlet check spring (10) in pump assembly (5) **or** o-ring (9), reservoir check valve (8), and spring (7) in pump assembly (5), making sure beveled edge of reservoir check valve faces inward.
- (4) Install pump check valve (6) in pump assembly (5) and tighten to 25 - 30 ft-lbs (33.9 - 40.7 N•m).

- (5) Raise stretcher to upright position.
- (6) Add oil to hydraulic system (Refer to para 4.4).
- (7) Purge air from the hydraulic system (Refer to para 4.5).

NOTE

Older units may not have a pad. If this is the case, it is advisable to order and install one. Any oil drops will be absorbed into the pad instead of running.

- (8) Install pad (3) and pump cover (2) on two bolts (4) and secure with two nuts (1).
- (9) Install lower cover (Refer to para 4.2).
- (10) Dispose of used oil in accordance with local regulations.

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SECTION IV MAINTENANCE / SERVICE

4.11 Elevation Cylinder Removal / Installation

A. Removal

- (1) Remove lower cover (Refer to para 4.2).
- (2) Lower bellows for access (Refer to para 4.3).
- (3) Depress the caster control pedal to the "brake" position.
- (4) Lay the stretcher onto its side.
- (5) Place a drain pan under elevation cylinder (1, Figure 4-14).

NOTE

Hoses on stretchers with a "fifth wheel" will be routed slightly different than one without. Note the differences before disconnecting hoses or removing fittings. Figure 4-14 is shown without "fifth wheel".

- (6) Tag and disconnect hoses (2) from fittings (3 and 4).

NOTE

The two fittings are different and the location they are removed from should be noted.

- (7) Loosen jam nut (5), and then remove fitting (3) from elevation cylinder (1).



CAUTION

The nylon ball is loose in fitting and will fall out when the fitting is removed. Do not lose the nylon ball. The stretcher will not operate properly without it.

NOTE

The restrictor seat will probably not come out during the following step and which elbow it is located in should be noted.

- (8) Loosen jam nut (6) and then remove fitting (4), nylon ball (7) and restrictor seat (8) from elevation cylinder (1).
- (9) Disconnect rod of elevation cylinder (1, Figure 4-15) from litter top (2) by removing rue ring (3) and clevis pin (4).
- (10) Remove rue ring (5), clevis pin (6), ground

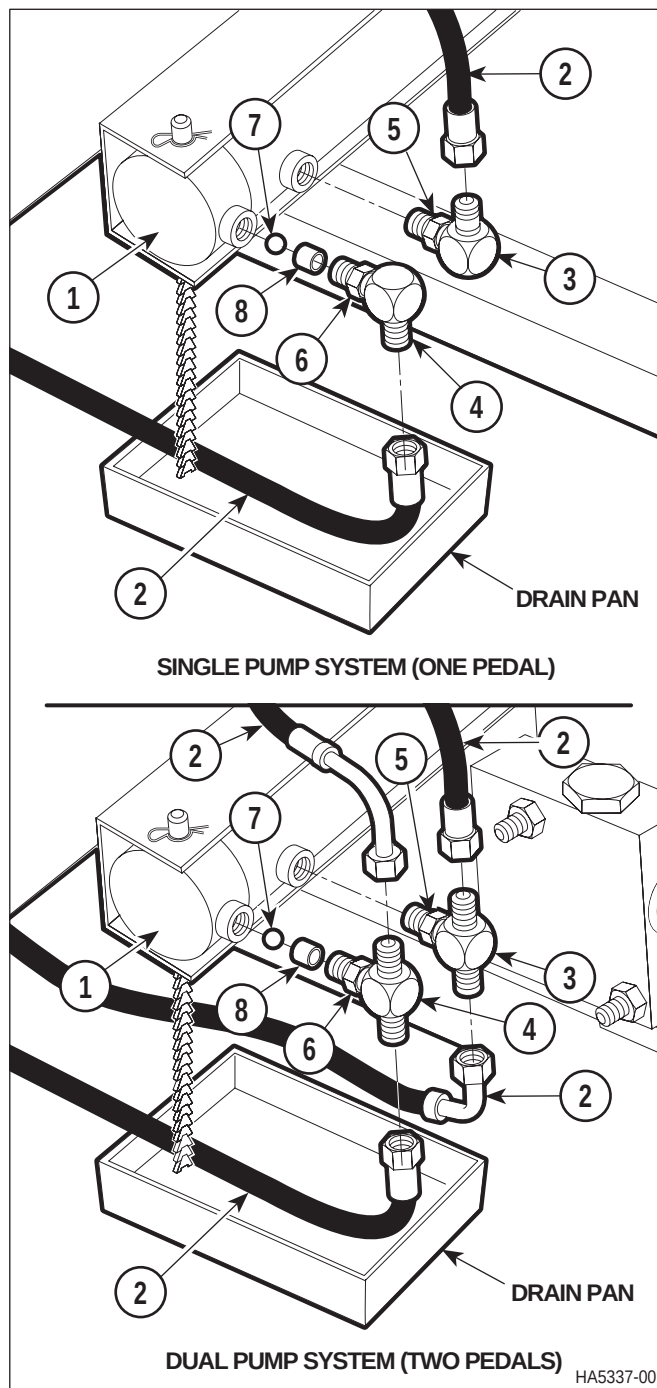


Figure 4-14. Elevation Cylinder Hose And Fittings Removal / Installation

chain assembly (7), and elevation cylinder (1) from chassis (8).

B. Installation

- (1) Install ground chain assembly (7, Figure 4-15) on clevis pin (6).

NOTE

Make sure the ground chain assembly is installed in the location shown in the illustration. Otherwise, the ground chain assembly will not hang down through the lower cover.

There are two mounting holes for the elevation cylinder, depending on whether the stretcher is a low height or standard height stretcher; mounting hole A is for low height option and mounting hole B is for standard height option.

- (2) Position elevation cylinder (1) on chassis (8) and secure with clevis pin (6) and rue ring (5).

NOTE

The litter top may need to be pulled or pushed in order to get the rod of the elevation cylinder to align with the litter top.

- (3) Position rod of elevation cylinder (1) on litter top (2) and secure with clevis pin (4) and rue ring (3).

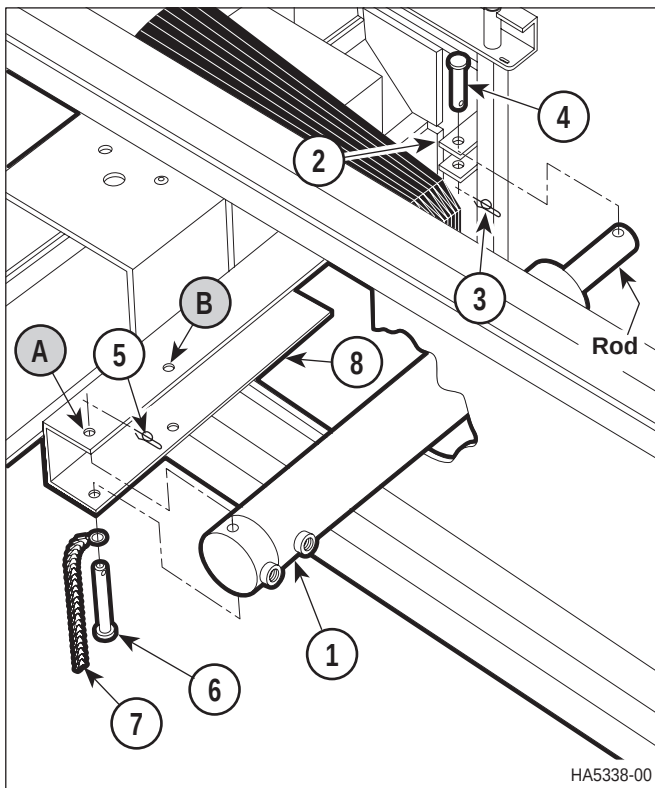


Figure 4-15. Elevation Cylinder Removal / Installation

- (4) Install restrictor seat (8, Figure 4-14) and nylon ball (7) in fitting (4).



CAUTION

Make sure the o-rings are not damaged and are present on both fittings. If not, the fittings could leak, causing the stretcher to operate improperly.

- (5) Coat o-rings on fittings (3 and 4) with Vaseline or oil.



DANGER

Make sure nylon ball (7) is installed when installing fitting. If nylon ball is not installed, the stretcher will descend much too quickly, possibly endangering a patient.

- (6) Install fitting (4) in elevation cylinder (1). Secure fitting in place by tightening jam nut (6) to 10 - 12 ft-lbs (13.5 - 16.2 N•m).
- (7) Install fitting (3) in elevation cylinder (1). Secure fitting in place by tightening jam nut (5) to 10 - 12 ft-lbs (13.5 - 16.2 N•m).
- (8) Connect hoses (2) to fittings (3 and 4).
- (9) Turn stretcher upright.
- (10) Add oil to hydraulic system (Refer to para 4.4).
- (11) Purge air from the hydraulic system (Refer to para 4.5).
- (12) Install lower cover (Refer to para 4.2).
- (13) Dispose of used oil in accordance with local regulations.

4.12 Elevation Cylinder Rebuild (New Style Elevation Cylinder Only)

A. Disassembly

- (1) Remove elevation cylinder (Refer to para 4.11).

NOTE

Slowly sliding cylinder rod assembly all the way up and down will help make sure all oil has been removed and may prevent a mess.

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- (2) Remove plug (1, Figure 4-16) and allow oil to drain into a drain pan.
- (3) Extend cylinder rod assembly (2) approximately 4 in. (10 cm) by pulling on it.
- (4) Unscrew rod end cap (3) from cylinder tube (4), but *do not* remove rod end cap off of top of cylinder rod assembly (2).
- (5) Pull cylinder rod assembly (2) out of cylinder tube (4).
- (6) Remove reservoir tube (1, Figure 4-17) from end cap (2).

NOTE

Magnetic washer (2A) is only in newer cylinders.

- (7) Remove magnetic washer (2A) from cylinder tube (3).

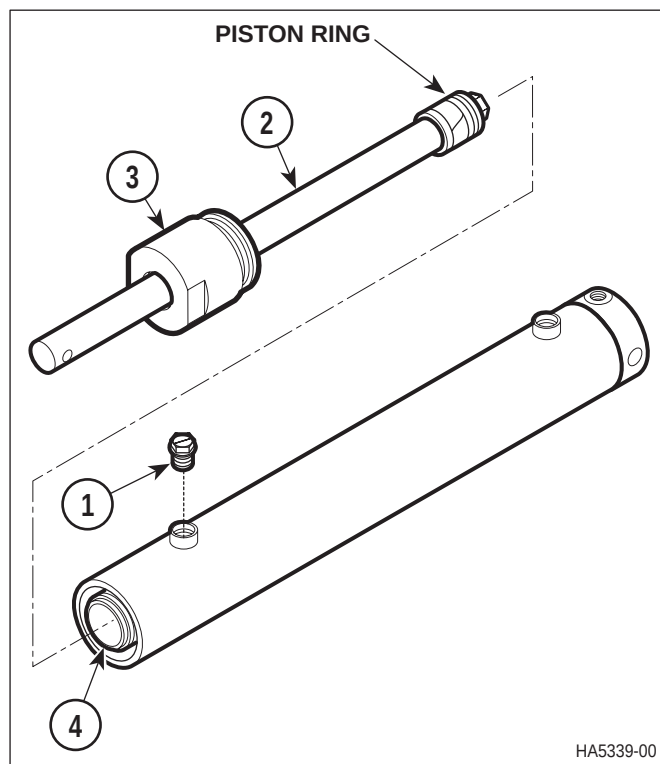


Figure 4-16. Cylinder Rod Assembly Removal / Installation

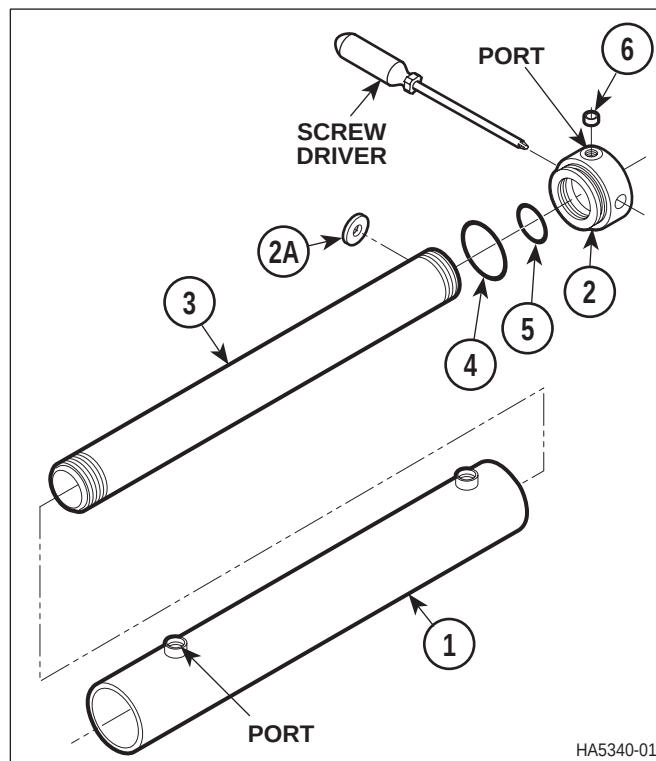


Figure 4-17. End Cap Removal / Installation

- (8) Using a screwdriver to hold end cap (2) stationary, remove cylinder tube (3) from end cap.
- (9) Remove o-rings (4 and 5) from end cap (2). Discard o-rings.
- (10) Remove ball retainer (6) from end cap (2). Discard ball retainer.
- (11) Using a screwdriver to hold cylinder rod assembly (1, Figure 4-18) stationary, remove jam nut (2), piston assembly (3), and o-ring (4) from cylinder rod assembly (1). Discard jam nut, piston assembly, and o-ring.
- (12) Slide rod end cap (5) off of *bottom* of cylinder rod assembly (1). Discard rod end cap.
- (13) Clean all metal components with a cleaning solvent. Dry components thoroughly.

B. Assembly

- (1) Coat o-rings (6 and 7, Figure 4-18) with Vaseline or oil.

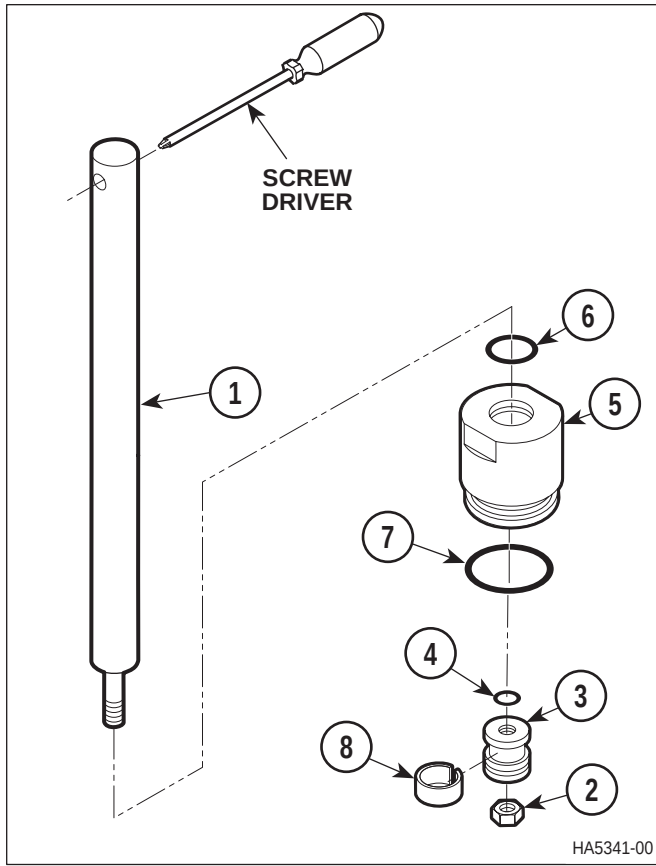


Figure 4-18. Cylinder Rod Assembly Disassembly / Assembly

- (2) Install o-rings (6 and 7) on rod end cap (5).



CAUTION

The rod end cap must be installed on the bottom end of the cylinder rod assembly; not the top end. Failure to do so will result in damage to o-ring (6) and brass flange bearing in rod end cap.

- (3) Slide rod end cap (5) onto bottom end of cylinder rod assembly (1).
- (4) Install piston bearing (8) on piston assembly (3).
- (5) Coat o-ring (4) with Vaseline or oil.

NOTE

Using tape on threads of cylinder rod assembly can prevent damage to o-ring (4) during installation.

- (6) Using screwdriver to hold cylinder rod assembly (1) stationary, install o-ring (4) and piston assembly (3) on cylinder rod assembly (1) and secure with jam nut (2).
- (7) Install ball retainer (6, Figure 4-17) in end cap (2). Push ball retainer in as far as it will go.
- (8) Coat o-rings (4 and 5) with Vaseline or oil.
- (9) Install o-rings (4 and 5) on end cap (2).
- (10) Using a screwdriver to hold end cap (2) stationary, install cylinder tube (3) on end cap (2).

NOTE

Magnetic washer (2A) is only in newer cylinders.

- (11) Install magnetic washer (2A) on cylinder tube (3).
- (12) Install reservoir tube (1) on end cap (2), making sure both ports are aligned with each other. Make sure reservoir tube is firmly seated against end cap.
- (13) Coat piston ring with Vaseline or oil. See Figure 4-16.
- (14) Using care not to damage piston ring, install cylinder rod assembly (2, Figure 4-16) into cylinder tube (4).
- (15) Screw rod end cap (3) onto cylinder tube (4).
- (16) Install plug (1).
- (17) Install elevation cylinder (Refer to para 4.13).
- (18) Dispose of used oil in accordance with local regulations.

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4.13 Fowler Gas Spring Removal / Installation

A. Removal

- (1) Raise the Fowler section (1, Figure 4-19) to the "up" position if possible.

NOTE

Older stretchers do not have a gas spring tube unless they have been retrofitted with one. Stretchers with S/N TAE-10085 thru present and TAF-8872 thru present will have a gas spring tube.

- (2) Unscrew gas spring tube (2) from actuator tube (3).

NOTE

If possible, hold the Fowler in the "up" position while removing the Fowler gas spring. Otherwise, the Fowler gas spring will have to be removed with the Fowler in the "down" position, which is more difficult.

- (3) Remove rue ring (4), clevis pin (5), two spacers (6), and the bottom of the Fowler gas spring (7) from Fowler bracket (8).
- (4) Loosen jam nut (9).

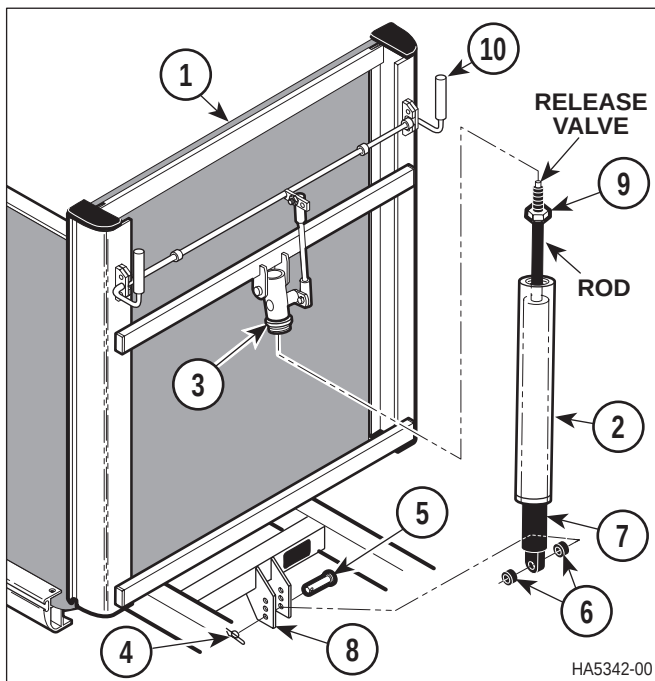


Figure 4-19. Fowler Gas Spring Removal / Installation

NOTE

Count the number of turns that it takes to unscrew the Fowler gas spring from the actuator. This is necessary so that the new Fowler gas spring can be installed easily and quickly.

- (5) Unscrew rod of Fowler gas spring (7) from actuator tube (3).

B. Installation

- (1) Extend rod of new Fowler gas spring (7) by firmly pressing the release valve on the rod end of the Fowler gas spring against the floor.
- (2) Hold the Fowler section (1) in an upright position and screw rod of Fowler gas spring (7) into actuator tube (3) the same number of turns it took to remove the Fowler gas spring.
- (3) Position bottom of Fowler gas spring (7) on Fowler bracket (8) and secure with two spacers (6), clevis pin (5), and rue ring (4).
- (4) Squeeze the Fowler handle (10). The Fowler gas spring (7) should release when the handle is squeezed - meaning the Fowler section (1) should be able to be raised and lowered. Release the Fowler handle. Put pressure on the Fowler section. The Fowler section should not "drift" downward.



CAUTION

Vise grips and a soft cloth must be placed on rod of Fowler gas spring directly under jam nut to prevent damage to rod. If the rod is scratched or scarred, the gas spring will malfunction.

- (5) If the Fowler gas spring (7) does not release when the Fowler handle (10) is squeezed, adjust as follows: Using vise grips and cloth, *screw* rod of Fowler gas spring *in* 1/2 turn. Repeat steps (4) and (5) until the Fowler gas spring releases properly.
- (6) If the Fowler gas spring (7) "drifts" downward when pressure is applied to the Fowler section (1), adjust as follows: Using vise grips and cloth, *unscrew* rod of Fowler gas spring (7) 1/2 turn. Repeat steps (4) and (6) until the Fowler gas spring does not "drift".

- (7) Using vise grips and cloth to hold rod of Fowler gas spring (7) from rotating, tighten jam nut (9). Tighten jam nut to 12 - 17 ft-lbs (16 - 23 N•m).

NOTE

Older stretchers do not have a gas spring tube unless they have been retrofitted with one. Stretchers with S/N TAE-10085 thru present and TAF-8872 thru present will have a gas spring tube.

- (8) Screw gas spring tube (2) onto actuator tube (3).

4.14 Fowler Gas Spring Adjustment**A. Adjustment**

- (1) Squeeze the Fowler handle (1, Figure 4-20). The Fowler gas spring (2) should release when the handle is squeezed - meaning the Fowler section (3) should be able to be raised and lowered. Release the Fowler handle. Put pressure on the Fowler section. The Fowler section should not "drift" downward.

NOTE

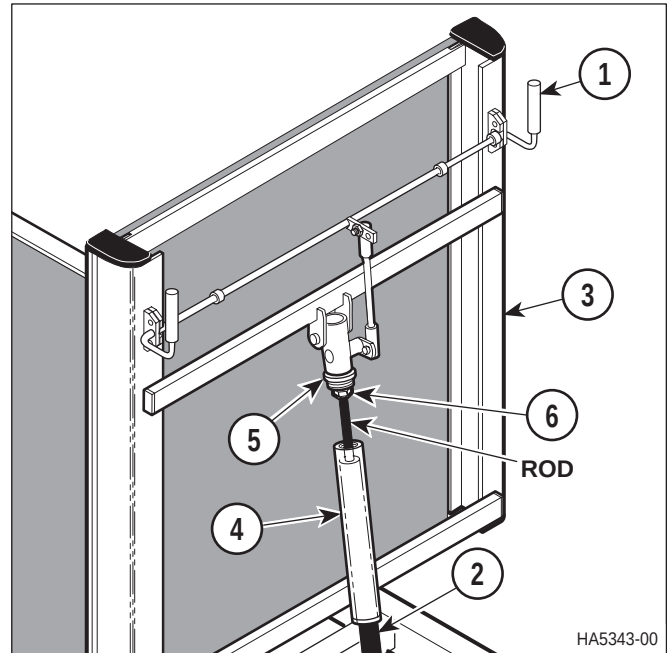
Older stretchers do not have a gas spring tube unless they have been retrofitted with one. Stretchers with S/N TAE-10085 thru present and TAF-8872 thru present will have a gas spring tube.

- (2) Unscrew gas spring tube (4) from actuator tube (5).
- (3) Loosen jam nut (6).

**CAUTION**

Vise grips and a soft cloth must be placed on rod of Fowler gas spring directly under jam nut to prevent damage to rod. If the rod is scratched or scarred, the gas spring will malfunction.

- (4) If the Fowler gas spring (2) does not release when the Fowler handle (1) is squeezed, adjust as follows: Using vise grips and cloth, *screw* rod of Fowler gas spring *in* 1/2 turn. Repeat steps 1 and 4 until the Fowler gas spring releases properly.
- (5) If the Fowler gas spring (2) "drifts" downward when pressure is applied to the Fowler section (3), adjust as follows: Using vise grips and cloth, *unscrew* rod of Fowler gas spring (2) 1/2

**Figure 4-20. Fowler Gas Spring Adjustment**

turn. Repeat steps 1 and 5 until the Fowler gas spring does not "drift".

- (6) Using vise grips and cloth to hold rod of Fowler gas spring (2) from rotating, tighten jam nut (6). Tighten jam nut to 12 - 17 ft-lbs (16 - 23 N•m).

NOTE

Older stretchers do not have a gas spring tube unless they have been retrofitted with one. Stretchers with S/N TAE-10085 thru present and TAF-8872 thru present will have a gas spring tube.

- (7) Screw gas spring tube (4) onto actuator tube (5).

4.15 Trendelenburg Gas Spring Removal / Installation**A. Removal**

- (1) Raise the litter top of the stretcher as high as it will go.

NOTE

Using a tie strap to compress the top and bottom of the bellows together allows for easier access to remove Trendelenburg gas spring.

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- (2) Lower *and* raise bellows for access (Refer to para 4.3).
- (3) Depress a caster control pedal to the "brake" position.
- (4) Lay the stretcher onto its side.
- (5) Drive spiral pin (1, Figure 4-21) out of pivot plate (2) and separate bottom of Trendelenburg gas spring (3) from pivot plate.
- (6) Loosen jam nut (4).

NOTE

Count the number of turns that it takes to unscrew the Trendelenburg gas spring from the actuator. This is necessary so that the new Trendelenburg gas spring can be installed easily and quickly.

- (7) Unscrew rod of Trendelenburg gas spring (3) from actuator (5).

B. Installation

- (1) Extend rod of new Trendelenburg gas spring (3) by firmly pressing the release valve on the rod end of the Trendelenburg gas spring against the floor.
- (2) Screw the rod of Trendelenburg gas spring (3) into actuator (5) the same number of turns it took to remove the Trendelenburg gas spring.

NOTE

To align the bottom of the Trendelenburg gas spring with pivot plate, simply move the litter top up or down.

- (3) Position bottom of Trendelenburg gas spring (3) on pivot plate (2) and secure with spiral pin (1).
- (4) Raise the stretcher to an upright position.
- (5) Squeeze the Trendelenburg handle (6). The Trendelenburg gas spring (3) should release when the handle is squeezed - meaning the litter top (7) should be able to be raised and lowered. Release the Trendelenburg handle. Put pressure on one end of the litter top and then on the other end. The litter top should not "drift" upward or downward.

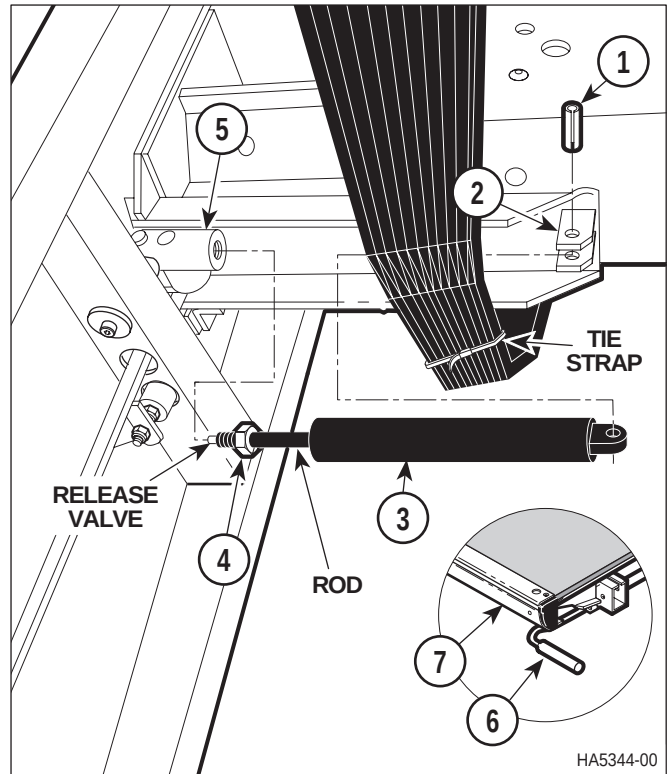


Figure 4-21. Trendelenburg Gas Spring Removal / Installation



DANGER

The Trendelenburg gas spring could release when it is being adjusted, allowing the litter top to lower. Have an assistant support the litter top or block the litter top up before adjusting the Trendelenburg gas spring. Failure to do so could result in personal injury.



CAUTION

Vise grips and a soft cloth must be placed on rod of Trendelenburg gas spring directly under jam nut to prevent damage to rod. If the rod is scratched or scarred, the gas spring will malfunction.

- (6) If the Trendelenburg gas spring (3) does not release when the Trendelenburg handle (6) is squeezed, adjust as follows: Using vise grips and cloth, screw rod of Trendelenburg gas spring *in* 1/2 turn. Repeat steps (5) and (6) until the Trendelenburg gas spring releases properly.

- (7) If the Trendelenburg gas spring (3) "drifts" downward when pressure is applied to either end of the litter top (7), adjust as follows:
Using vise grips and cloth, *unscrew* rod of Trendelenburg gas spring (3) 1/2 turn. Repeat steps (5) and (7) until the Trendelenburg gas spring does not "drift".
- (8) Using vise grips and cloth to hold rod of Trendelenburg gas spring (3) from rotating, tighten jam nut (4). Tighten jam nut to 12 - 17 ft-lbs (16 - 23 N•m).
- (9) Return bellows from lowered and raised positions (Refer to para 4.3).

4.16 Trendelenburg Gas Spring Adjustment

A. Adjustment

- (1) Squeeze the Trendelenburg handle (1, Figure 4-22). The Trendelenburg gas spring (2) should release when the handle is squeezed - meaning the litter top (3) should be able to be raised and lowered. Release the Trendelenburg handle. Put pressure on one end of the litter top and then the other end. The litter top should not "drift" upward or downward.
- (2) Lower bellows for access (Refer to para 4.3).
- (3) Loosen jam nut (4).



DANGER

The Trendelenburg gas spring could release when it is being adjusted, allowing the litter top to lower. Have an assistant support the litter top or block the litter top up before adjusting the Trendelenburg gas spring. Failure to do so could result in personal injury.



CAUTION

Vise grips and a soft cloth must be placed on rod of Trendelenburg gas spring directly under jam nut to prevent damage to rod. If the rod is scratched or scarred, the gas spring will malfunction.

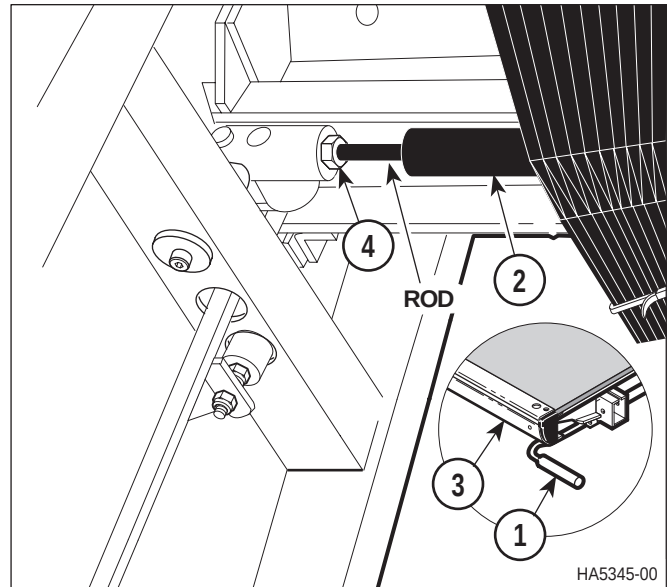


Figure 4-22. Trendelenburg Gas Spring Adjustment

- (4) If the Trendelenburg gas spring (2) does not release properly when the Trendelenburg handle (1) is squeezed, adjust as follows:
Using a vise grips, screw rod of Trendelenburg gas spring *in* 1/2 turn. Repeat steps 1 and 4 until the Trendelenburg gas spring releases properly.
- (5) If the Trendelenburg gas spring (2) "drifts" downward when pressure is applied to either end of the litter top (3), adjust as follows:
Using a vise grips, *unscrew* rod of Trendelenburg gas spring (2) 1/2 turn. Repeat steps 1 and 5 until the Trendelenburg gas spring does not "drift".
- (6) Using vise grips and cloth to hold the rod of Trendelenburg gas spring (2) from rotating, tighten jam nut (4). Tighten jam nut to 12 - 17 ft-lbs (16 - 23 N•m).
- (7) Return bellows from raised position (Refer to para 4.3).

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4.17 Caster Assembly Removal / Installation

A. Removal

NOTE

Determine if the caster assembly you are removing is a steer caster or standard caster. This is important to remember, especially if removing more than one caster at a time. Make sure you replace the caster assembly that you remove with the same type of caster assembly. The steer caster is typically located under the patient's right foot.

- (1) Depress a caster control pedal (1, Figure 4-23) to the brake position.
- (2) Elevate end of stretcher from which caster is being removed at least 6 in. (15.2 cm) and secure with blocks.
- (3) Loosen setscrew (2) and remove caster control pedal (1) from actuator bar (3).
- (4) Loosen setscrew (4) which secures transfer lever (5) to actuator bar (3).

NOTE

On stretchers with S/N TAE-1000 thru TAE-2678, TAE-2750 thru TAE-2999, and TAF-1000 thru TAF-2369, screws (6) will be located 90° from what is shown in Figure 4-23 (difference is because of old style casters).

- (5) Remove two screws (6) and lockwashers (7) from chassis (8).



CAUTION

Do not hit end of actuator bar with steel hammer. The end of the actuator bar will make installation difficult or impossible.

NOTE

The caster control pedal on the other end of the actuator bar may be pushed on to assist in driving the actuator bar into the chassis.

- (6) Using a soft faced mallet, drive actuator bar (3) into chassis (8) until the caster assembly (9) is able to be removed from the chassis.

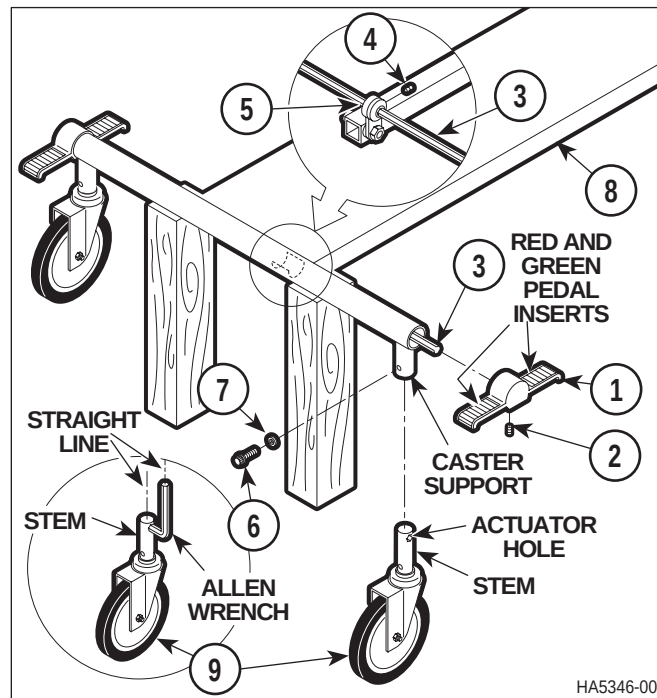


Figure 4-23. Caster Removal / Installation

B. Installation

NOTE

Steps 1 thru 5 describe how to prepare and orient the caster assembly for proper installation.

- (1) Insert a 7/16 inch Allen Wrench in actuator hole of new caster assembly (9) and turn Allen Wrench in one direction as far as it will go. Check if the caster assembly brake is engaged (If the caster assembly brake is engaged, the caster fork will not rotate and caster wheel will not turn). If it is determined that the caster assembly brake is not engaged, turn the Allen Wrench in the opposite direction as far as it will go; this will be the brake position.
- (2) Turn the Allen Wrench back one "click". This is the caster assembly's (9) neutral position. Remove the Allen Wrench and re-insert it so the long end of the Allen Wrench is in a straight line with the stem of the caster assembly (See Figure 4-23).
- (3) Return the caster assembly (9) to the brake position (the Allen Wrench should be at an angle now).

- (4) With the Allen Wrench still inserted in the caster assembly (9), partially install the caster assembly in caster support of chassis (8) so that the long end of the Allen Wrench is pointing in same direction as the red pedal inserts in the caster control pedals. If not, remove the caster assembly, rotate it 180° and re-install caster assembly. Now the long end of the Allen Wrench should be pointing in same direction as the red pedal inserts, indicating the caster assembly is oriented properly.
- (5) Remove Allen Wrench from caster assembly (9) and install caster assembly in caster support of chassis (8).

**CAUTION**

Make sure the caster control pedals are completely in the "brake" position before performing step 6 or the caster assembly will not operate properly when installation procedure is completed.

- (6) Push the actuator bar (3) through the actuator hole of the caster assembly (9).
- (7) Coat threads of two screws (6) with removable threadlocking adhesive (Loctite 242).

NOTE

On stretchers with S/N TAE-1000 thru TAE-2678, TAE-2750 thru TAE-2999, and TAF-1000 thru TAF-2369, screws (6) will be located 90° from what is shown in Figure 4-23 (difference is because of old style casters).

- (8) Install two new lockwashers (7) and screws (6) to secure caster assembly (9) in chassis (8).
- (9) Install caster control pedal (1) on end of the actuator bar (3) and secure by tightening setscrew (2).
- (10) Making sure the transfer lever (5) is not binding, secure in position by tightening set-screw (4).
- (11) Check the newly installed caster assembly (9) for proper operation.

4.18 Caster Brake Adjustment (New Style Caster)

NOTE

A new style caster has a plastic brake shoe; an old style caster has a metal brake shoe.

A. Adjustment

- (1) Depress the caster control pedal (1, Figure 4-24) to the neutral position.
- (2) If the brake needs tightened, use a punch to *unscrew* the plastic brake shoe (2) 1/4 turn, which moves the plastic brake shoe downward.
- (3) If the brake needs loosened, use a punch to *screw in* the plastic brake shoe (2) 1/4 turn, which moves the plastic brake shoe upward.
- (4) Depress the caster control pedal (1) to the brake position and check the braking action of the caster assembly (3).
- (5) Repeat steps 1 thru 4 until brakes are adjusted properly.

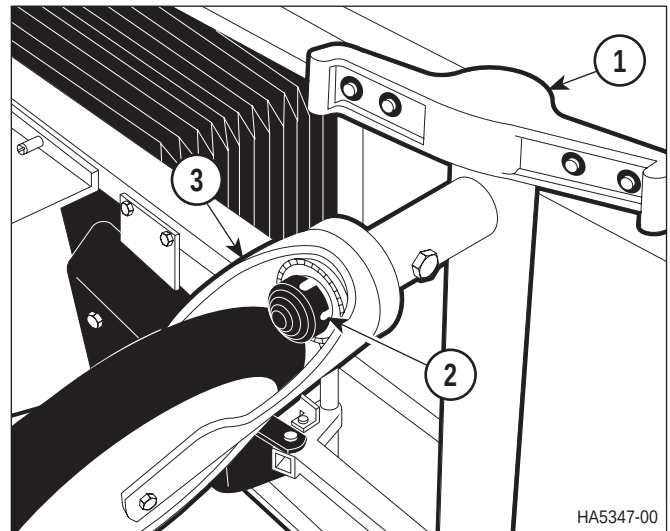


**Figure 4-24. Caster Brake Adjustment
(New Style Caster)**

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4.19 Caster Brake Adjustment (Old Style Caster)

NOTE

A new style caster has a plastic brake shoe; an old style caster has a metal brake shoe.

A. Adjustment



CAUTION

Do not adjust brakes on an old style *steer* caster. If steer caster brake is out of adjustment, replace caster.

- (1) Move caster control pedal (1, Figure 4-25) to "brake" position.
- (2) Raise caster assembly (2), which is going to be adjusted, off of floor, and support chassis (3) at that height with a block.

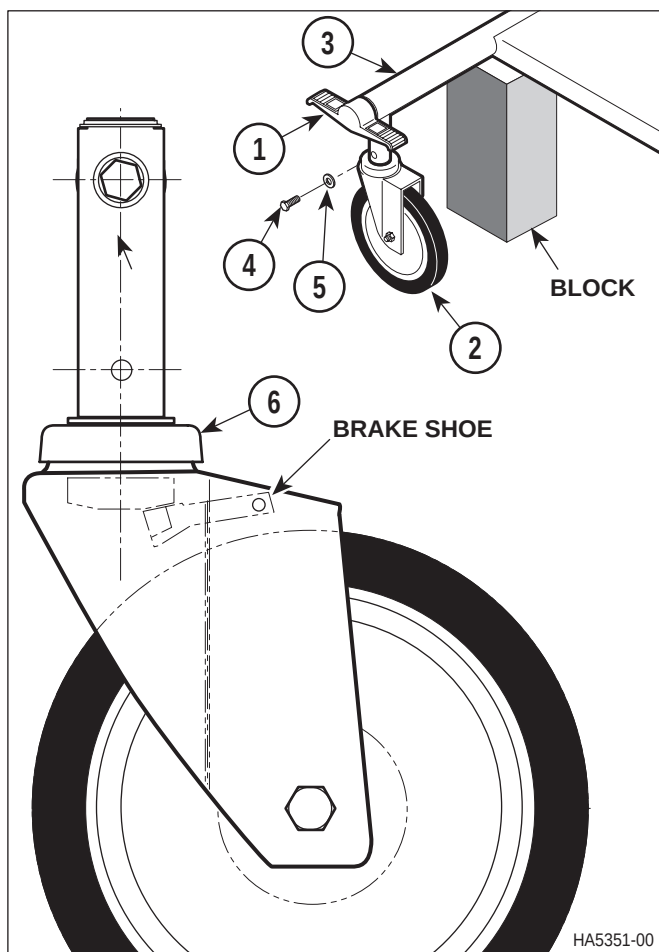


Figure 4-25. Caster Brake Adjustment
(Old Style Caster)

- (3) Remove two screws (4) and lockwashers (5) from chassis (3).

NOTE

If caster fork rotates when caster control pedal is in "brake" position and brake shoe has been properly adjusted, the internal components of caster assembly are worn out and the caster assembly must be replaced.

- (4) If caster brake shoe needs to be tightened, lower brake shoe by turning adjusting ring (6) 1/2 turn in clockwise direction (as viewed from top side of caster assembly).

If caster brake shoe needs to be loosened, raise brake shoe by turning adjusting ring (6) 1/2 turn in counter-clockwise direction (as viewed from top side of caster assembly).

- (5) Check braking power of caster assembly (2). Also, check that caster fork does not rotate. If further adjustment is needed, repeat step 4 as necessary.
- (6) Coat threads of two screws (4) with removeable threadlocking adhesive (Loctite 242).
- (7) Install two lockwashers (5) and screws (4) in chassis (3).
- (8) Remove block from under chassis (3) and lower chassis to floor.

4.20 Caster Fork Controls Adjustment (New Style Caster)

NOTE

A new style caster has a plastic brake shoe; an old style caster has a metal brake shoe.

There are two similar versions of the new style caster. The adjustment is the same for both versions. The illustration shows both versions.

A. Adjustment

- (1) Lift caster (1, Figure 4-26) which needs adjusted, off of the floor approximately 1 in. (2.5 cm). Place a support under chassis (2) to hold caster at that height.

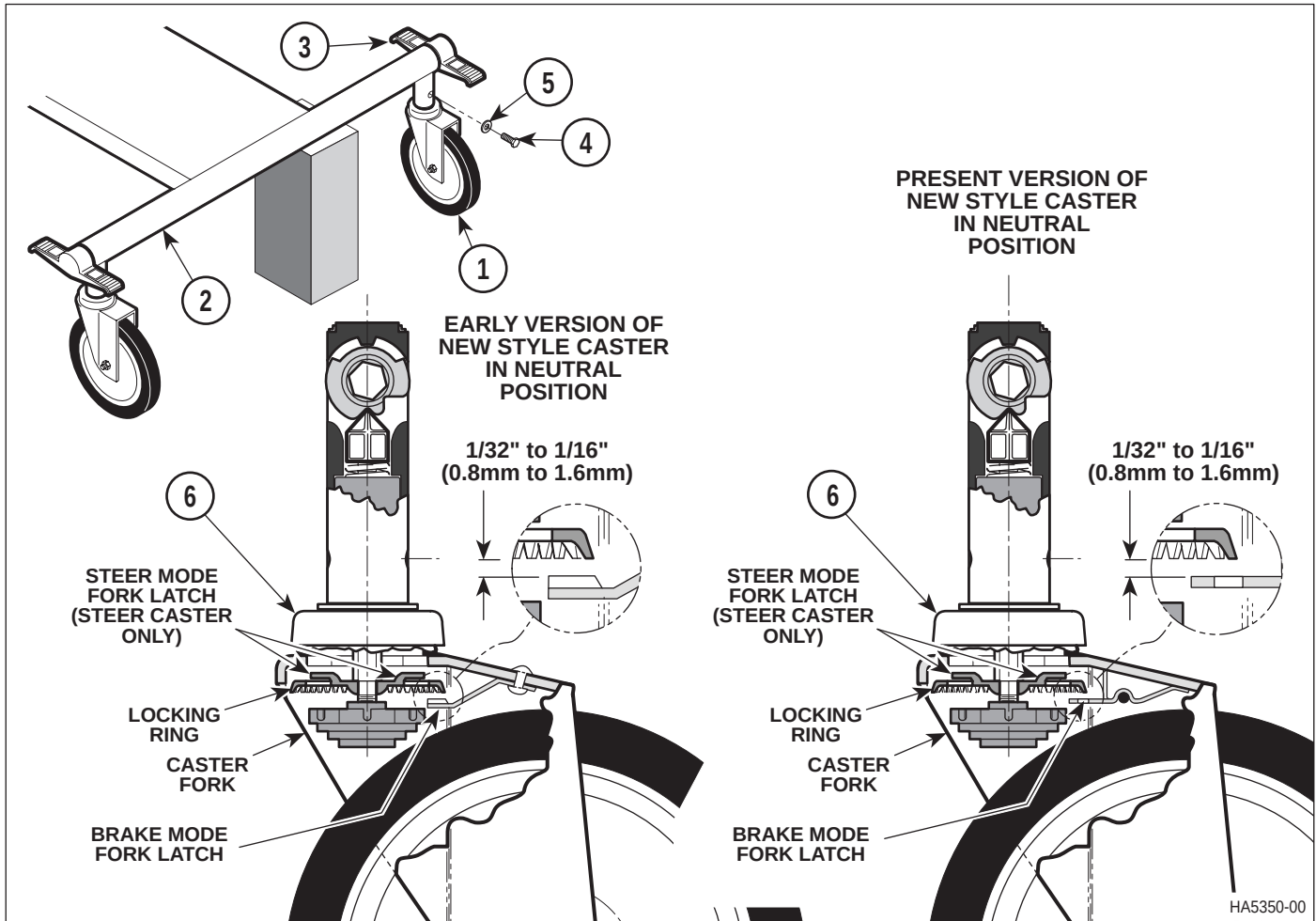


Figure 4-26. Caster Fork Controls Adjustment (New Style Caster Only)

- (2) Move caster control pedal (3) to "neutral" position.
- (3) Remove two screws (4) and lockwashers (5) from chassis (2).

NOTE

Turning adjusting ring in a counter-clockwise direction raises locking ring while turning adjusting ring in a clockwise direction lowers locking ring (as viewed from top side of caster).

If brake mode fork latch is bent, the caster must be replaced.

- (4) Looking up from bottom side of caster fork, rotate adjusting ring (6) until teeth of locking ring are approximately 1/32 to 1/16 in. (0.8 to 1.6 mm) from the brake mode fork latch.

- (5) Install two screws (4) in chassis (2).
- (6) Attempt to rotate caster fork (one way to check is to align casters and then lean stretcher over onto two casters to see if they ratchet). Caster fork **should** rotate freely and no ratcheting noise should be heard. If caster fork does not rotate freely and/or a ratcheting noise is heard, repeat steps 2 thru 4.
- (7) Move caster control to "brake" position. Attempt to rotate caster fork. Caster fork should **not** rotate freely and no ratcheting noise should be heard. If caster fork rotates and/or a ratcheting noise is heard, perform the following steps:

- a. Remove two screws (4) from chassis (2).

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- b. Rotate adjusting ring (6) 1/2 turn in a clockwise direction (as viewed from top of caster).
- c. Install two screws (4) in chassis (2).
- d. Repeat step 7 until caster fork does **not** rotate freely and no racheting noise is heard.

NOTE

Step 8 applies only to steer caster.

- (8) Move caster control pedal to "steer" position. Attempt to rotate caster fork. The steer mode fork latches should lock into one of two sets of locking holes in caster fork, causing caster fork to lock into one of two steer positions with no racheting noise heard. If caster fork rotates and/or a racheting noise is heard, perform the following steps:
 - a. Remove two screws (4) from chassis (2).
 - b. Rotate adjusting ring (6) 1/2 turn in a counter-clockwise direction (as viewed from top of caster).
 - c. Install two screws (4) in chassis (2).
 - d. Repeat step 7 until caster fork **locks** into one of two steer positions and no racheting noise is heard.
- (9) Move caster control pedal to the "brake", "neutral", and "steer" positions and check that the caster works properly in each mode.
- (10) Remove two screws (4) from chassis (2). Coat threads of two screws with removeable threadlocking adhesive (Loctite 242). Install two lockwashers (5) and screws (4) in chassis (2).
- (11) Remove block from under chassis (2) and lower chassis to floor.

4.21 Steer Caster Fork Controls Adjustment (Old Style Caster)

NOTE

A new style caster has a plastic brake shoe; an old style caster has a metal brake shoe.

A. Adjustment

- (1) Move caster control pedal (1, Figure 4-27) to "neutral" position.
- (2) Raise caster assembly (2), which is going to be adjusted, off of floor, and support chassis (3) at that height with a block.
- (3) Remove two screws (4) and lockwashers (5) from chassis (3).

NOTE

If caster fork rotates when caster control pedal is in "steer" position and fork controls have been properly adjusted, the internal components of caster assembly are worn out and the caster assembly must be replaced.

- (4) If caster fork does not lock into one of the two steer positions and/or makes a racheting noise when caster control pedal is in "steer" position, turn adjusting ring (6) 1/2 turn in counter-clockwise direction (as viewed from top side of caster assembly).

If caster fork stays locked in steer position and/or makes a racheting noise when caster control pedal is in "neutral" position, turn adjusting ring (6) 1/2 turn in clockwise direction (as viewed from top side of caster assembly).

- (5) Check steer mode of caster assembly (2). If further adjustment is needed, repeat step 4 as necessary.
- (6) Coat threads of two screws (4) with removeable threadlocking adhesive (Loctite 242).

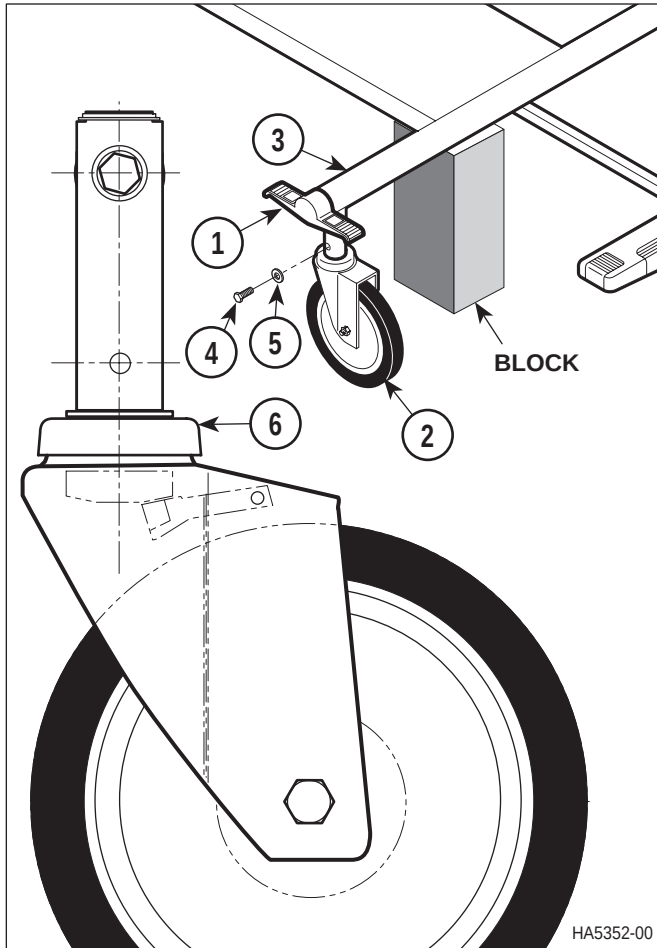


Figure 4-27. Steer Caster Fork Control Adjustment (Old Style Caster)

- (7) Install two lockwashers (5) and screws (4) in chassis (3).
- (8) Remove block from under chassis (3) and lower chassis to floor.

4.22 Siderail Latch Assembly Removal / Installation

A. Removal

- (1) Remove screw (1, Figure 4-28) from handle (2).
- (2) Remove screw (3), three screws (4), end cap (5) and two spacers (6) from siderail (7).

NOTE

The bumper is present only on foot end of stretcher.

- (3) Remove two screws (8) and bumper (9) which secures lockout body of cable assembly (10) in siderail (7).
- (4) While pulling down on handle (2), remove cable nut of cable assembly (10) from slot in handle.

NOTE

If necessary, remove handle from release shaft by pulling it outward while simultaneously tapping on it with a mallet

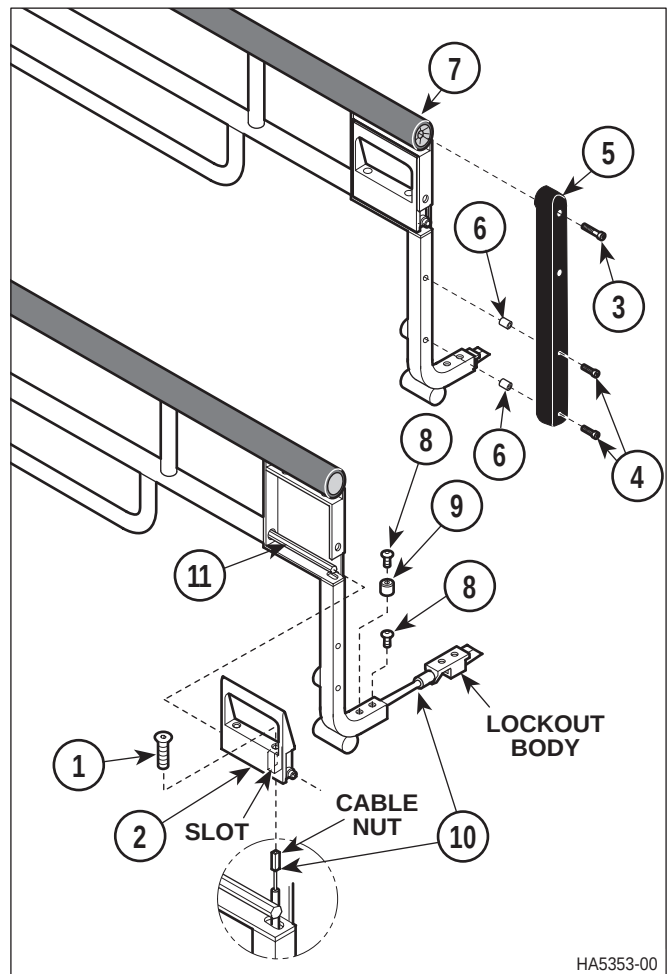


Figure 4-28. Siderail Latch Assembly Removal / Installation

SECTION IV MAINTENANCE / SERVICE

- (5) Pull outward on handle (2) to flex release shaft (11) outward enough so that cable nut can be pushed down past handle.
- (6) Pull cable assembly (10) out of siderail (7).

B. Installation

- (1) Install screw (1) in end of cable nut.
- (2) Run a thin wire, approximately 18 in (45.7 cm) in length, thru siderail. Then wrap the wire around screw (1).
- (3) While pulling outward on handle (2) to flex release shaft (11) outward enough so that cable nut can be pulled past handle, use wire to pull cable assembly (10) thru siderail (7).
- (4) If removed, install handle (2) on release shaft (11).
- (5) Coat threads of two screws (8) with removable threadlocking adhesive (Loctite 242).

NOTE

The bumper is present only on foot end of stretcher.

- (6) Secure lockout body of cable assembly (10) to inside of siderail (7) with bumper (9) and two screws (8).
- (7) Remove screw (1) from cable nut.
- (8) Insert cable nut in slot of handle (2) and secure with screw (1).
- (9) Install spacers (6) and end cap (5) on siderail (7) and secure with three screws (4) and screw (3).
- (10) Adjust siderail latches (Refer to para 4.25).

4.23 Siderail Latch Adjustment

A. Adjustment



DANGER

Make sure siderail releases and latches properly after being adjusted. Make sure the 3/16 in. (4.8 mm) engagement is met. Failure to do so could result in serious personal injury or death to patient.

NOTE

If while adjusting one of the screws (1) in steps 1 or 2, the screw runs out of adjustment, back screw off two to three turns. Then loosen two screws (5) and slide latch plate (3) outward until latch bolt (2) has a minimum of 3/16 in. (4.8 mm) engagement with latch plate (3). Then tighten two screws (5) and return back to step 1.

- (1) Turn screw (1, Figure 4-29) until latch bolt (2) has a minimum of 3/16 in. (4.8 mm) engagement with latch plate (3).
- (2) Repeat step 1 for other siderail latch; then adjust both screws (1) until pulling handle (4) causes both latch bolts (2) to release from their latch plates (3) simultaneously.

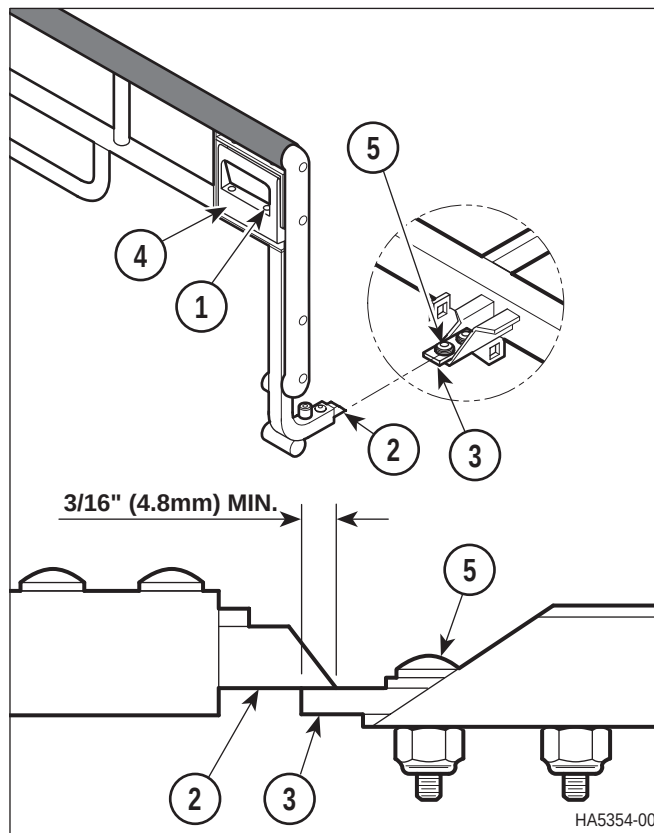


Figure 4-29. Siderail Latch Adjustment

4.24 Tire Bearing Replacement / Adjustment**A. Concentric Tire Bearing Adjustment**

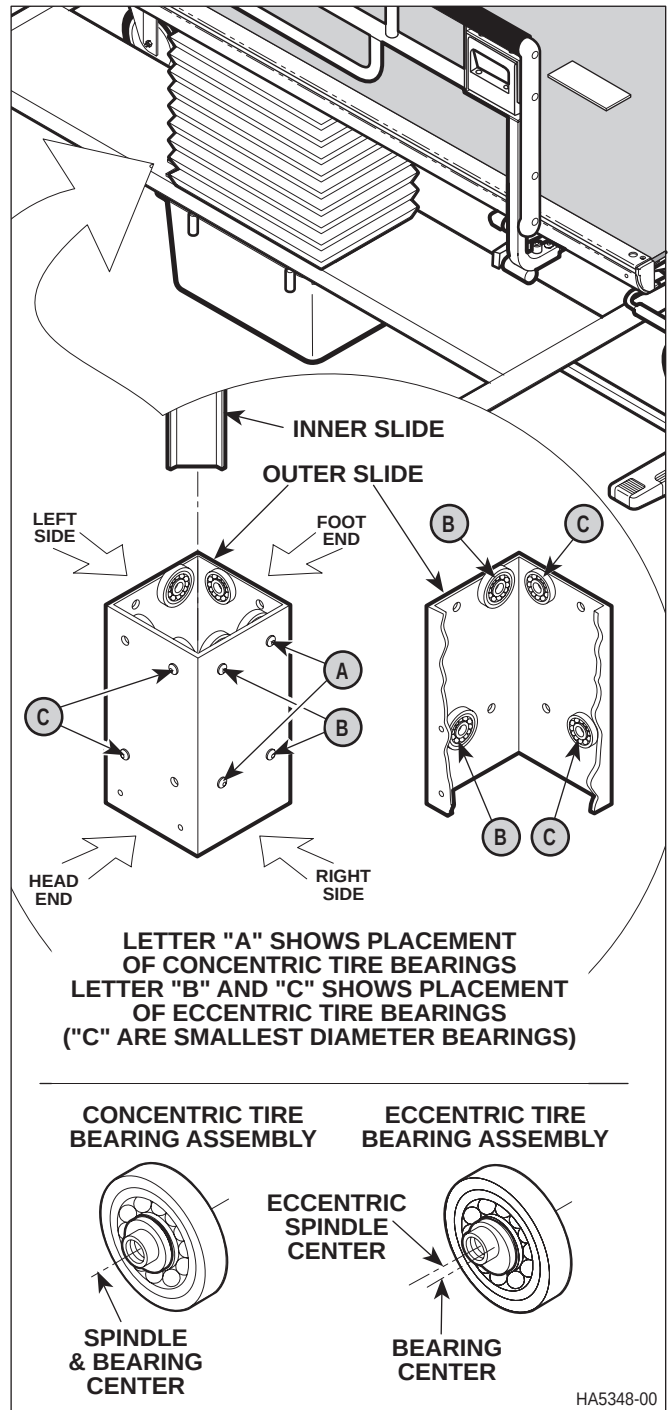
- (1) There is no adjustment for concentric tire bearings (see letter "A" for location of concentric tire bearings). Their center spindle is concentric (round) and does not affect the tightness of the column. See Figure 4-30.

B. Eccentric Tire Bearing Replacement / Adjustment

- (1) Lower bellows for access (Refer to para 4.3).
- (2) If necessary, remove lower cover (Refer to para 4.2).
- (3) Install / adjust any concentric tire bearings being installed / adjusted first.
- (4) Loosen screw and rotate eccentric spindle of eccentric tire bearing (see letter "B" and "C" for location of eccentric tire bearings), needing adjusted, in direction shown (clockwise direction as viewed from outside of outer slide) until the eccentric tire bearing becomes harder to rotate - meaning the eccentric spindle in the bearing is forcing the outer race of the tire bearing against the inner slide as desired. Secure eccentric tire bearing in this position by tightening screw.
- (5) Return bellows from lowered position (Refer to para 4.3).
- (6) If removed, install lower cover (Refer to para 4.2).

4.25 Siderail Bumpers Removal / Installation**A. Removal**

- (1) Remove mattress from litter top.
- (2) Remove screw (1, Figure 4-31) and end bumper (2) from litter frame (3).
- (3) Slide side bumper (4) out of litter frame (3).
- (4) If necessary, repeat step 2 and 3 for three remaining corners of litter frame (3).

**Figure 4-30. Tire Bearing Adjustment****B. Installation****NOTE**

If necessary, coat back side of side bumper with water to ease installation.

- (1) Slide side bumper (4) in litter frame (3).

SECTION IV MAINTENANCE / SERVICE

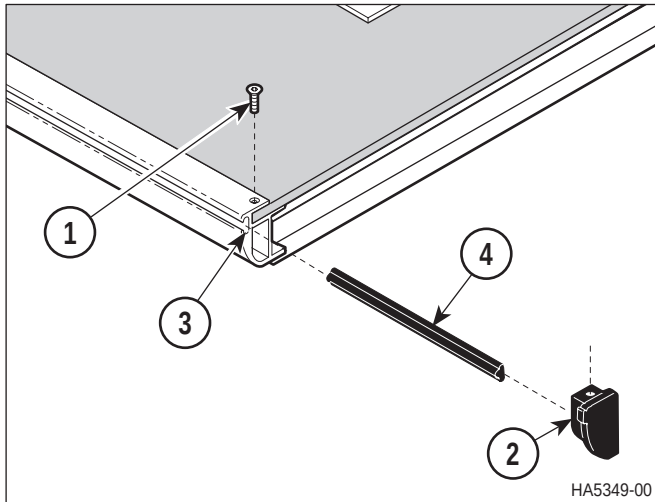


**Figure 4-31. Siderail Bumpers
Removal / Installation**

- (2) Install end bumper (2) on litter frame (3) and secure with screw (1).
- (3) If necessary, repeat step 2 and 3 for three remaining corners of litter frame (3).
- (4) Install mattress on litter top.

4.26 Litter Top Removal / Installation

A. Removal



DANGER

Failure to lower litter top as far as it will go before attempting removal could result in personal injury.

- (1) Lower litter top (1, Figure 4-32) as far as it will go.
- (2) Lower bellows for access (Refer to para 4.3).
- (3) Remove rue ring (2) and clevis pin (3) which attaches litter top (1) to rod of elevation cylinder (4).



DANGER

Litter top weighs approximately 147 lbs (66.7 kg). Use an assistant and proper lifting techniques when lifting litter top. Failure to do so could result in serious personal injury.

NOTE

Note the location of the head end of the litter top and the head end of the chassis for proper installation.

- (4) With the help of an assistant, lift evenly at each end of the litter top (1) until the inner slide is free of the outer slide.

B. Installation

NOTE

Make sure that the head end of the litter top is installed toward the head end of the chassis.

- (1) With the help of an assistant, position the litter top over outer slide and then, lowering evenly at each end of the litter top (1), insert the inner slide of the litter top (1) into the outer slide, and lower litter top down gently as far as it will go.
- (2) Position rod of elevation cylinder (4) on litter top (1) and secure with clevis pin (3) and rue ring (2).
- (3) Return bellows from lowered position (Refer to para 4.3).

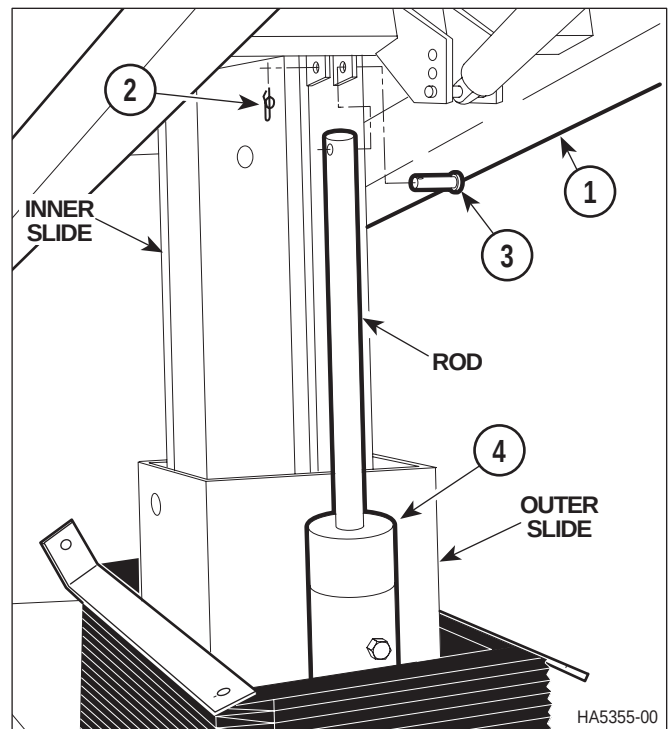


Figure 4-32. Litter Top Removal / Installation

4.27 Trendelenburg Level Lock Adjustment

A. Adjustment

- (1) Lower bellows for access (Refer to para 4.3).
- (2) Tighten or loosen nut (1, Figure 4-33) until lockout bolt (2) is 1/4 in (6.3 mm) from sleeve (3).
- (3) Loosen two screws (4); then slide lockout strike (5) in or out until it has a minimum engagement of 3/16 in. (4.8 mm) with lockout bolt (2).

NOTE

Lockout bolt only releases from lockout strike when Trendelenburg handle is pushed downward. When Trendelenburg handle is squeezed, nothing happens.

- (4) If lockout bolt is not releasing from lockout strike properly when Trendelenburg handle is pushed downward, tighten nut (6) a few turns. Repeat step until lockout bolt is releasing properly.
- (5) Return bellows from lowered position (Refer to para 4.3).

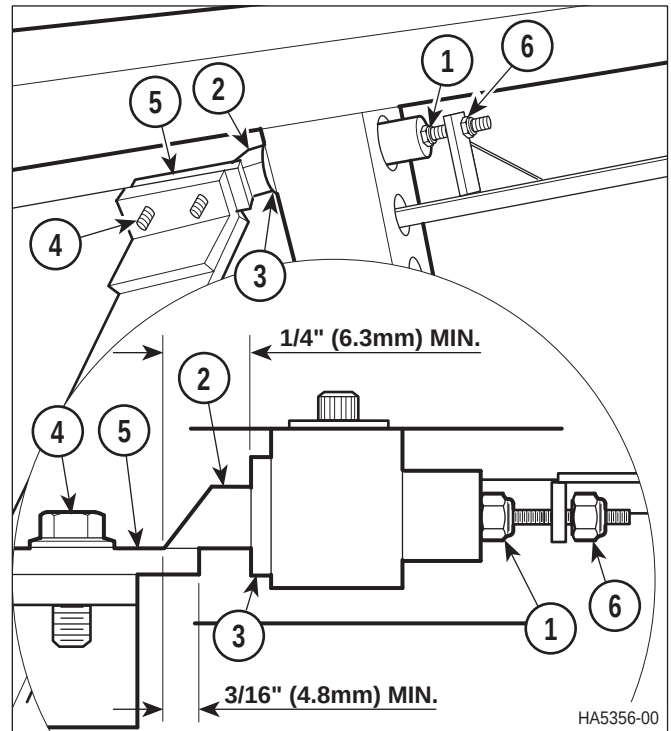


Figure 4-33. Trendelenburg Level Lock Adjustment

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SECTION V
SCHEMATICS AND DIAGRAMS

5.1 Hydraulic Flow Diagram

Figure 5-1, sheets 1 thru 3, illustrates the flow of oil

through the pump assembly and elevation cylinder during the different phases of raising or lowering the litter top.

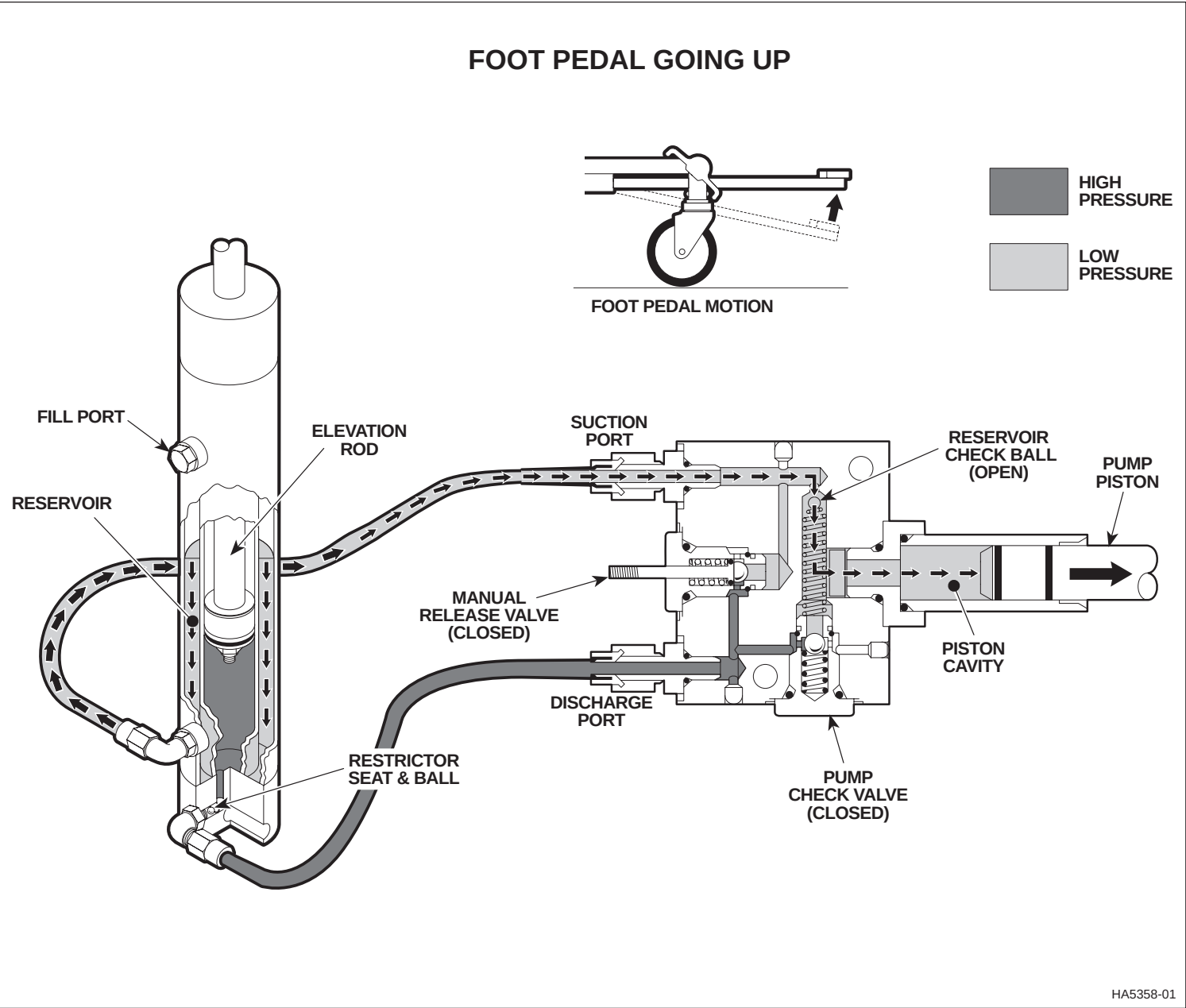


Figure 5-1. Hydraulic Flow Diagram (Sheet 1 of 3)

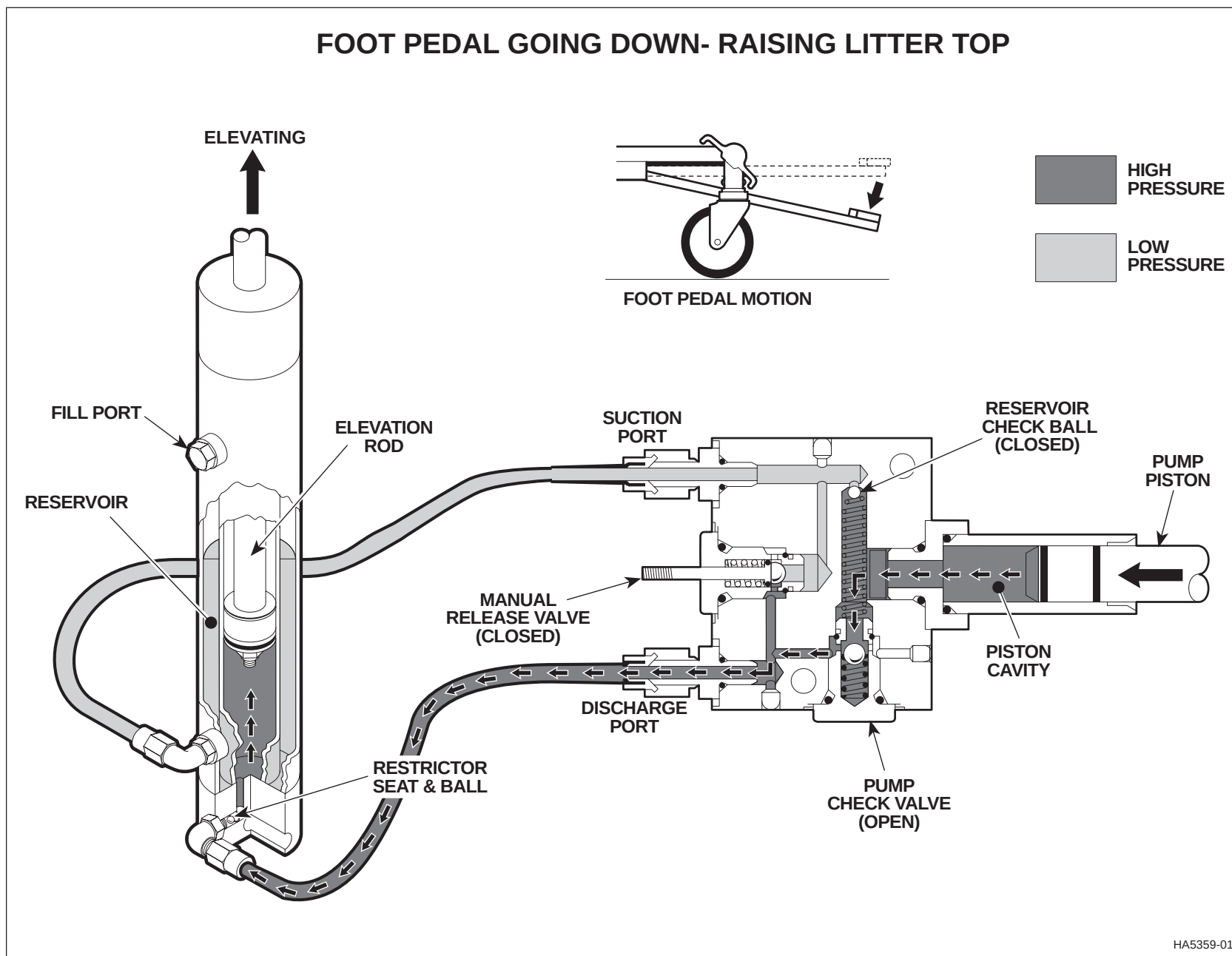


Figure 5-1. Hydraulic Flow Diagram (Sheet 2 of 3)

FOOT PEDAL TO THE FLOOR - RELEASING - LITTER TOP GOING DOWN

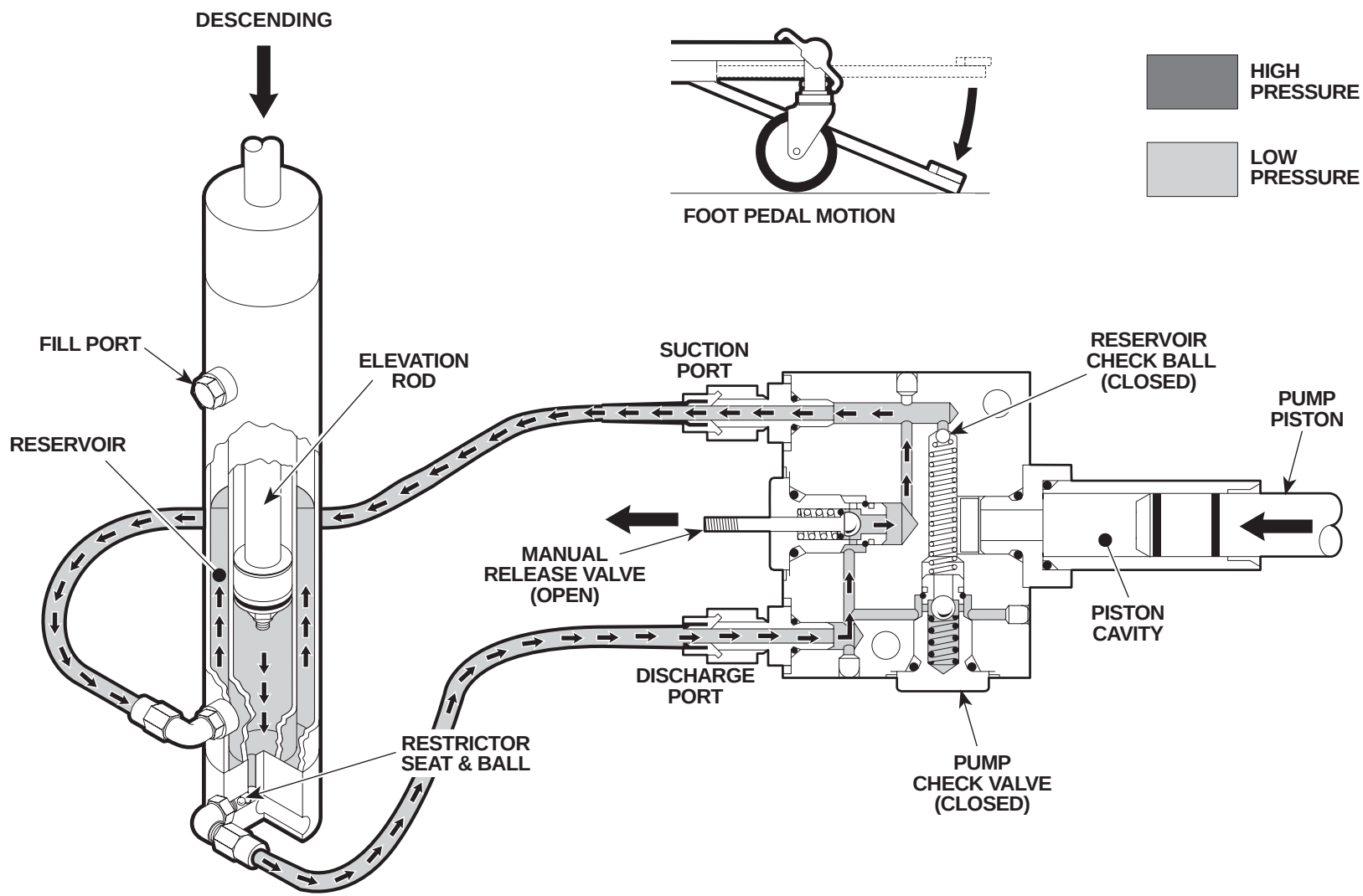


Figure 5-1. Hydraulic Flow Diagram (Sheet 3 of 3)

SECTION V
SCHEMATICS AND DIAGRAMS

HA5360-01

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SECTION VI
PARTS LIST

6.1 Introduction

The illustrated parts list provides information for identifying and ordering the parts necessary to maintain the unit in peak operating condition. Refer to paragraph 1.5 for parts ordering information.

The parts list also illustrates disassembly and assembly relationships of parts.

6.2 Description of Columns

The *Item* column of the parts list gives a component its own unique number. The same number is given to the component in the parts illustration. This allows a part number of a component to be found if the technician can visually spot the part on the illustration. The technician simply finds the component in question on the illustration and notes the item number of that component. Then, he finds that item number in the parts list. The row corresponding to the item number gives the technician the part number, a description of the component, and quantity of parts per subassembly. Also, if a part number is known, the location of that component can be determined by looking for the item number of the component on the illustration.

The *Part No.* column lists the Pedigo part number for that component.

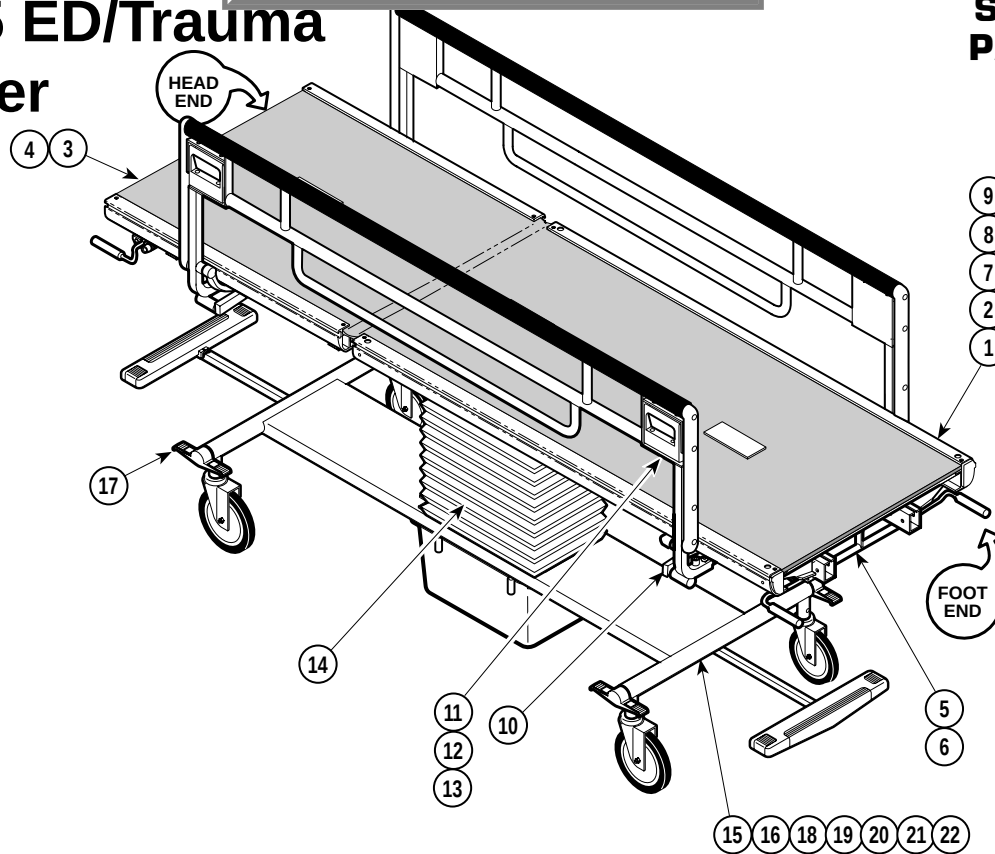
The *Description* column provides a physical description of the component.

The *Qty.* column lists the number of units of a particular component that is required for the subassembly. The letters "AR" denote "as required" when quantities of a particular component cannot be determined, such as: adhesive.

Bullets [•] in the *Part No.* column and the *Description* column show the indenture level of a component. If a component does not have a bullet, it is a main component of that illustration. If a component has a bullet, it is a subcomponent of the next component listed higher in the parts list than itself that does not have a bullet. Likewise, if a component has two bullets, it is a subcomponent of the next component listed higher in the parts list than itself that has only one bullet.

530/535 ED/Trauma Stretcher

SECTION VI PARTS LIST



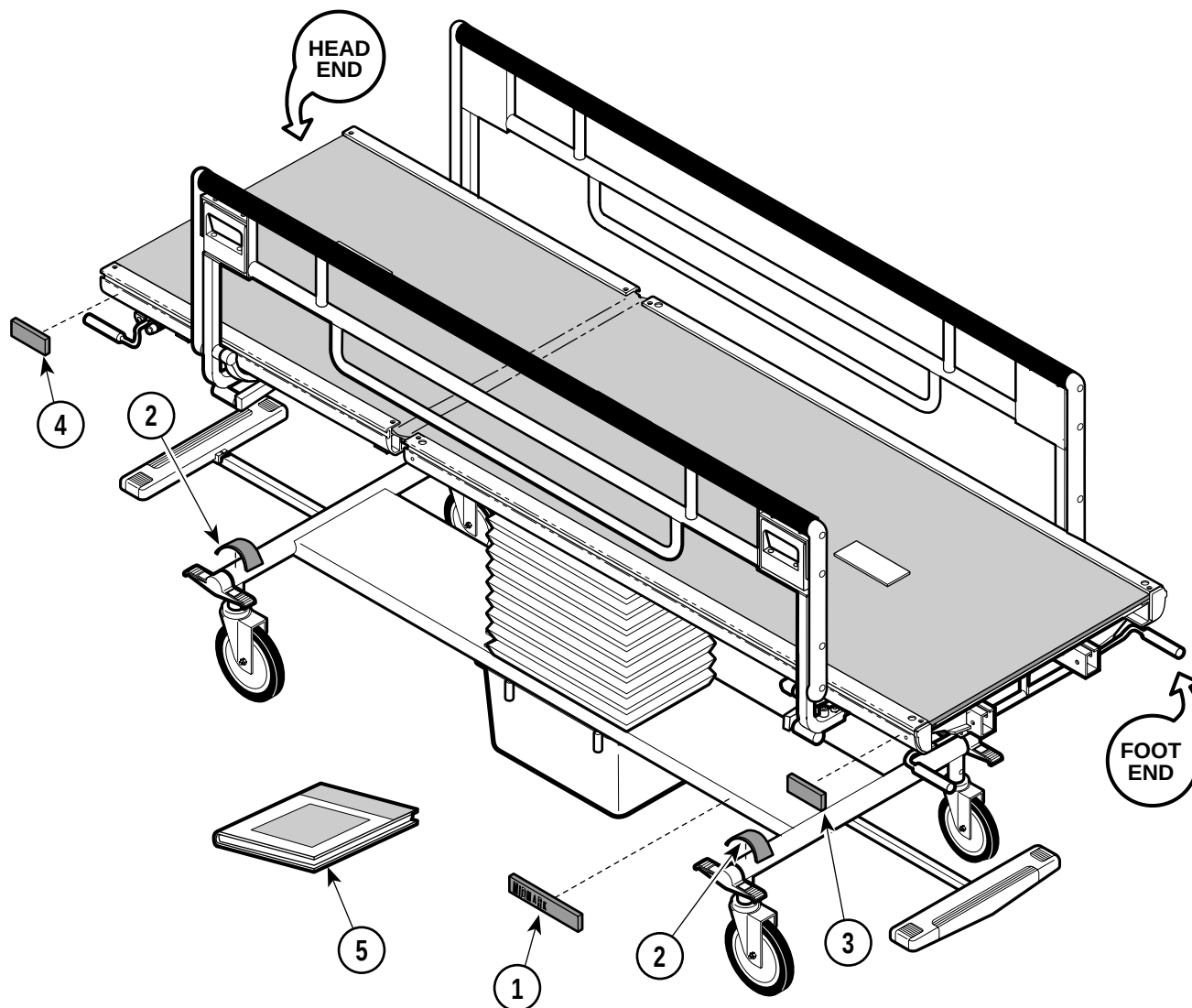
HA523000

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
		530/535 Stretcher					
1	•	• Labels 6-3		32		Restraint Strap K5903	
2	•	• Litter Components 6-4		29		Paper Roll Holder K5907	
3	•	• Fowler Components 6-5		30		Knee Crutch K5911	
4	••	•• Fowler Actuator Components 6-6		31		Stirrup K5912	
5	•	• Trendelenburg Components 6-7		32		Chart Holder K5913	
6	••	•• Trend Actuator Components 6-8		33		Fold Down I.V. K5917	
7	•	• Knee Flex Components 6-9		34		I.V. Pole Standard K5918	
8	••	•• Bail Catch Components 6-10		35		I.V. Pole K5919	
9	••	•• Knee Flex Crank Assembly 6-11		36		I.V. Pole Storage Tube K5928	
10	•	• Siderail Linkage Components 6-12		37		Monitor Tray K5929	
11	••	•• Siderail Assembly 6-13		38		X-Ray Shuttle K5931	
12	••	•• Siderail Assembly (High) 6-14		39		Fowler X-Ray Adapter K5932	
13	•	• Cover Components 6-15		40		Telescoping Rod K5933	
14	•	• Chassis Components 6-16		41		Head End Trend Release K5935	
15	••	•• Elevation Column Assembly 6-17		42		Foot Board K5939	
16	••	•• Caster Linkage Components 6-18		43		Hydraulic Descent Control K5941	
17	••	•• Hydraulic Linkage 6-19		44		Knee Crutch / Stirrup Adapter K5943	
18	••	•• Hydraulic System-Single Pump 6-20		45		End Bumper K5946	
19	••	•• Hydraulic System-Dual Pump 6-21		46		End Bumper w/I.V. Holes K5947	
20	•••	••• Elevation Cylinder Assembly 6-22		47		Arm / Foot Board K5951	
21	•••	••• Elevation Pump Kit 6-23		48		Paper Roll Holder K5952	
22	•	• Hydraulic Pump 6-24		49		Folding End Rail K5922	
23		Rite Trac Steering 6-25		50		5/8 I.V. Pole K5972	
24		True Direction Steering 6-26		51		5/8 I.V. Pole K5972.1	
25		Dual Pump-Rite Trac Steering 6-27		52		7/8 I.V. Pole K5984	
26		Caster Assembly 6-28		53		7/8 I.V. Pole K5984.1	
				54		Vertical Oxygen Tank Holder K5981	
				55		Swing-out Vertical Oxygen Holder K59168	
				56		7/8 I.V. Pole Storage K5987	
				57		Articulating Armboard K5988	
				58		Stability Bracket K5995	
				59		Metal Tray K5999	
				60		Fold Down Surelok I.V. K59106	
				61		Monitor Tray / Foot Board K59117	
				62		Disposable Stretcher Cover K59145	
OPTIONAL ACCESSORIES							
Refer to HOSPITAL ACCESSORY BOOK {004-0025-00}							
27		Siderail Pads K5701					
28		Endrail Pads K5702					
29		Mattress K5801					
30		Wire Basket / Shelf K5901					
31		Personal Storage K59161					

Always Specify Model & Serial Number

Labels

SECTION VI PARTS LIST

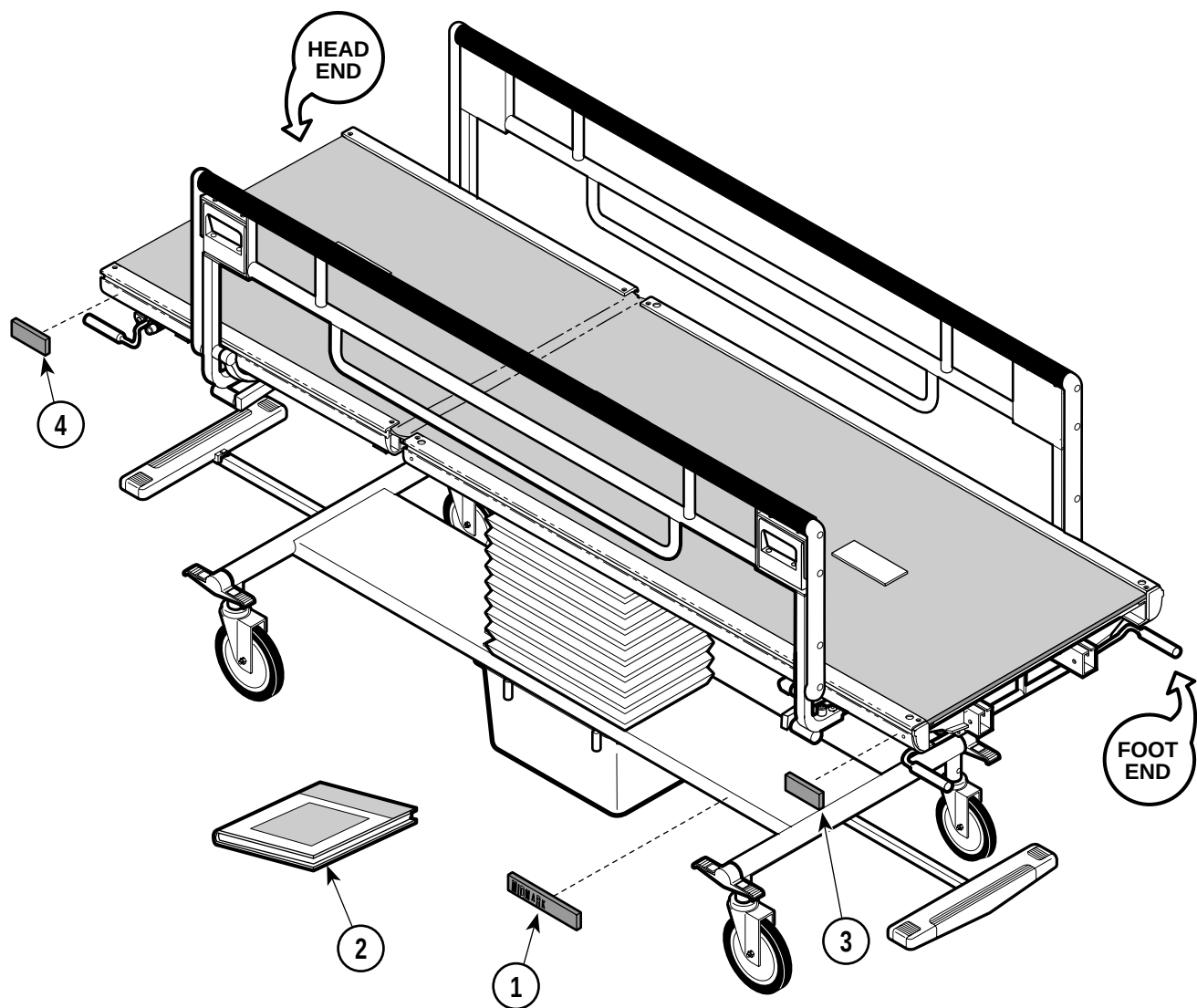


HA522600

Used on Units with Serial Numbers: TAE-1000 thru TAE-10744 TAF-1000 thru TAF-8908

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	561-0013-06	Pedigo 530 Label		4	561-0043-00	Head Decal.....	2
	561-0013-07	Pedigo 535 Label	2	5	503-0008-00	Manual (Installation / Operation)	1
2	561-0025-00	Directional Decal	4		503-0178-00	Manual (Service)	Ref
3	561-0042-00	Foot Decal	2				

Always Specify Model & Serial Number



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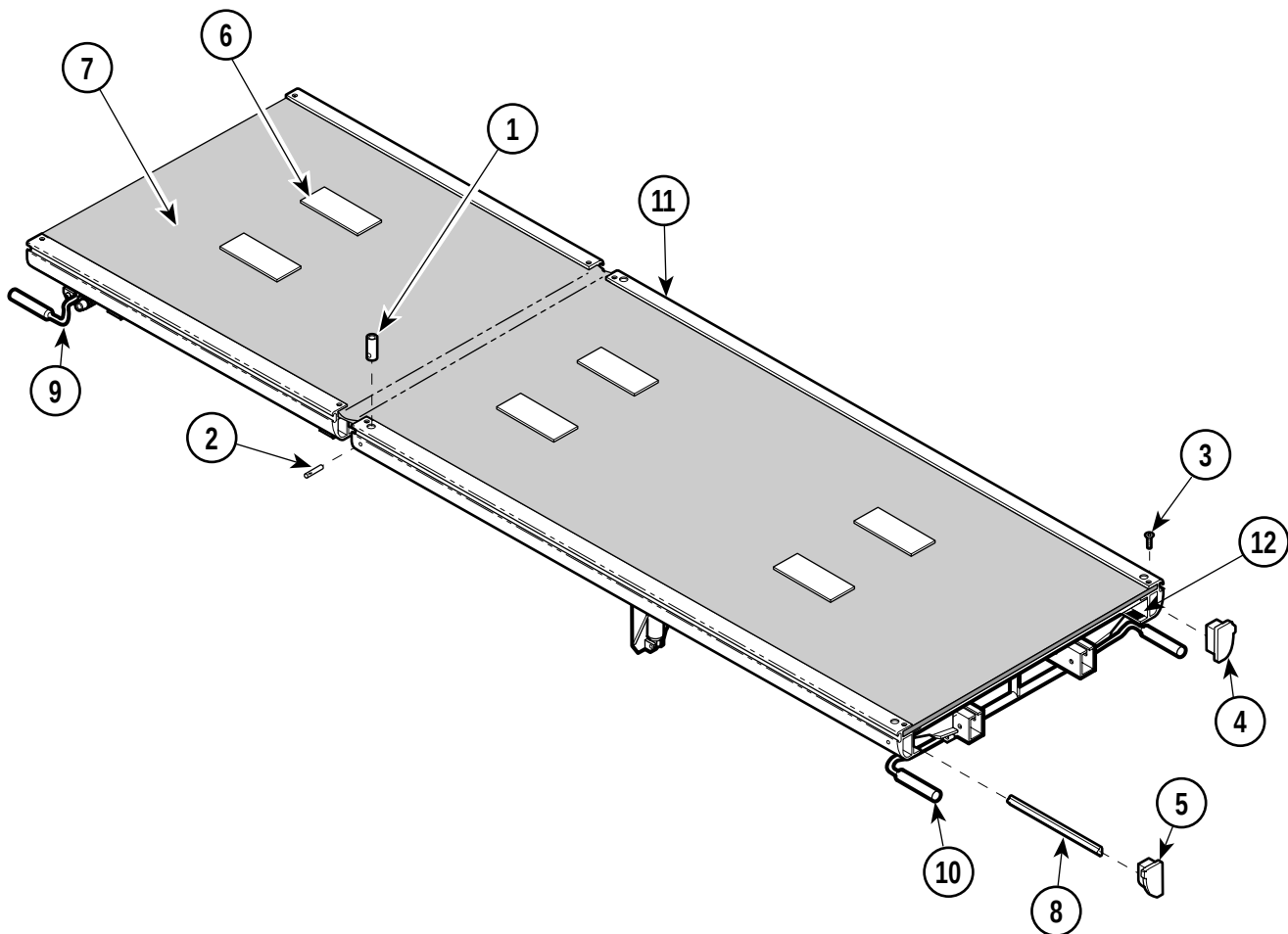
Used on Units with Serial Numbers:
TAE-10745 thru Present TAF-8909 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	561-0013-06	Pedigo 530 Label		3	561-0042-00	Foot Decal	2
	561-0013-07	Pedigo 535 Label	2	4	561-0043-00	Head Decal	2
2	503-0008-00	Manual (Installation / Operation)	1				
	503-0178-00	Manual (Service)	Ref				

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Litter Components

SECTION VI PARTS LIST



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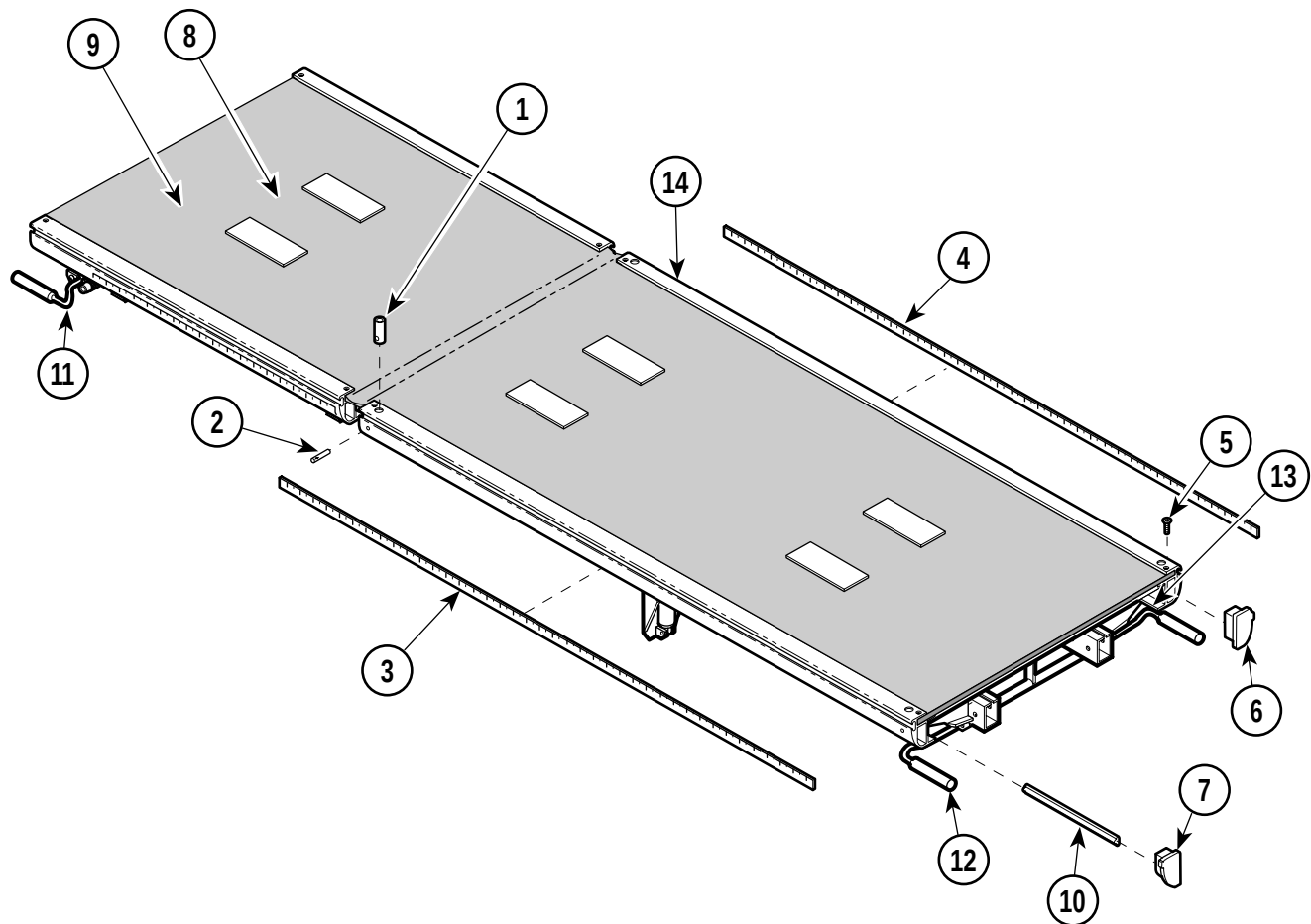
Used on Units with Serial Numbers: TAE-1000 thru TAE-2664 TAF-1000 thru TAF-2326

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	552-0063-01	I.V. Socket	2	9		Fowler Handle (Refer to "Fowler Components" Elsewhere)	Ref
2	042-0067-01	Groove Pin	2	10		Trendelenburg Handle (Refer to "Trendelenburg Components" Elsewhere)	Ref
3	040-0250-77	Screw	2	11	530-0003-00	Litter Frame Standard (530) Shown	
4	553-0100-00	End Bumper Right Hand	1		()	Litter Frame Knee Flex (530)	
5	553-0100-01	End Bumper Left Hand	1		530-0004-00	Litter Frame Standard (535)	
6	K101214-8-1/2H	Velcro	6		()	Litter Frame Knee Flex (535)	1
7	553-0008-00	Poly Top Standard (530)		12	053-0131-06	Velcro	2
	()	Poly Top Knee Flex (530)					
	553-0027-00	Poly Top Standard (535)					
	()	Poly Top Knee Flex (535)	1				
8	553-0041-03	Side Bumper Foot End L.H.	1				
	553-0041-02	Side Bumper Foot End R.H.	1				

Always Specify Model & Serial Number

Litter Components

SECTION VI PARTS LIST



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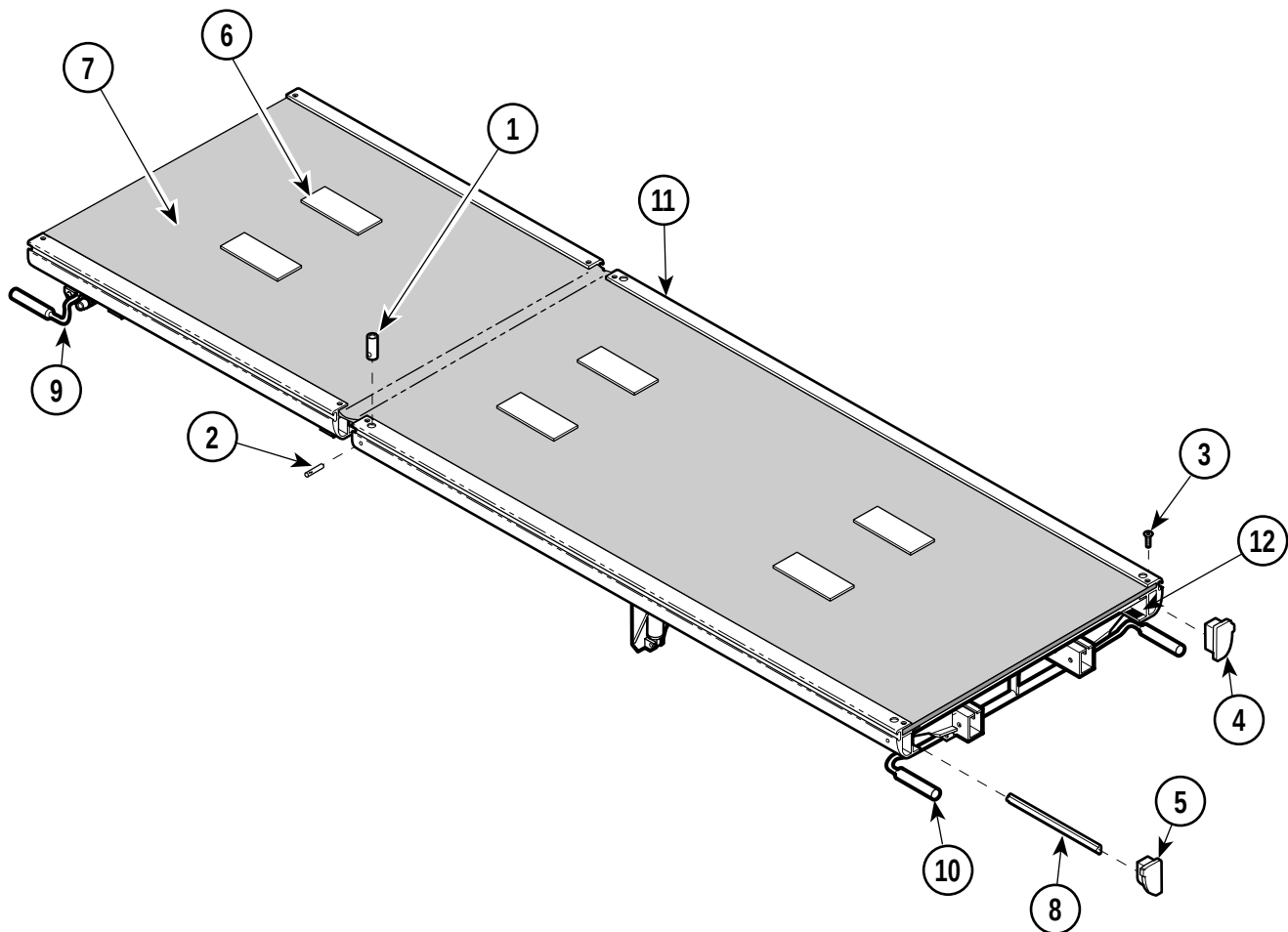
Used on Units with Serial Numbers: TAE-2665 thru TAE-2749 TAF-2327 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	552-0063-01	I.V. Socket	2	10	553-0041-05	Side Bumper Foot End	2
2	042-0067-01	Groove Pin	2	11		Fowler Handle (Refer to "Fowler Components" Elsewhere)	Ref
3	561-0046-00	X-Ray Label (right)	1	12		Trendelenburg Handle (Refer to "Trendelenburg Components" Elsewhere)	Ref
4	561-0046-01	X-Ray Label (left)	1	13	053-0131-06	Velcro	2
5	040-0250-77	Screw	2	14	530-0003-00	Litter Frame Standard (530) Shown	
6	553-0100-00	End Bumper Right Hand	1		()	Litter Frame Knee Flex (530)	
7	553-0100-01	End Bumper Left Hand	1		530-0004-00	Litter Frame Standard (535)	
8	K101214-8-1/2H	Velcro	6		()	Litter Frame Knee Flex (535)	1
9	553-0008-00	Poly Top Standard (530)					
	()	Poly Top Knee Flex (530)					
	553-0027-00	Poly Top Standard (535)					
	()	Poly Top Knee Flex (535)	1				

Always Specify Model & Serial Number

Litter Components

SECTION VI PARTS LIST



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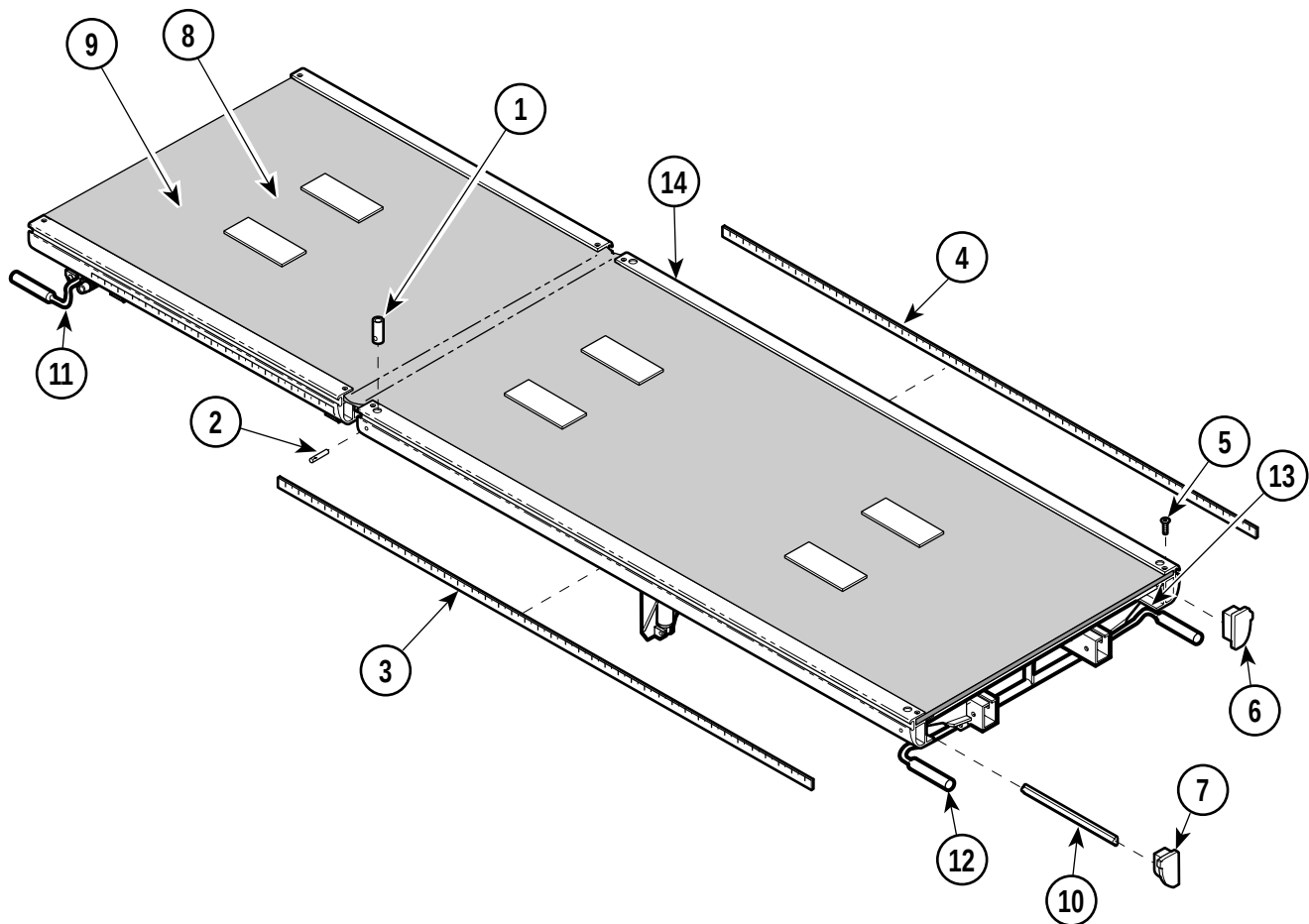
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Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	552-0063-01	I.V. Socket	2	9		Fowler Handle (Refer to "Fowler Components" Elsewhere)	Ref
2	042-0067-01	Groove Pin	2	10		Trendelenburg Handle (Refer to "Trendelenburg Components" Elsewhere)	Ref
3	040-0250-77	Screw	2	11	530-0003-00	Litter Frame Standard (530) Shown	
4	553-0100-00	End Bumper Right Hand	1		()	Litter Frame Knee Flex (530)	
5	553-0100-01	End Bumper Left Hand	1		530-0004-00	Litter Frame Standard (535)	
6	K101214-8-1/2H	Velcro	6		()	Litter Frame Knee Flex (535)	1
7	553-0008-00	Poly Top Standard (530)		12	053-0131-06	Velcro	2
	()	Poly Top Knee Flex (530)					
	553-0027-00	Poly Top Standard (535)					
	()	Poly Top Knee Flex (535)	1				
8	553-0041-03	Side Bumper Foot End L.H.	1				
	553-0041-02	Side Bumper Foot End R.H.	1				

Always Specify Model & Serial Number

Litter Components

SECTION VI PARTS LIST



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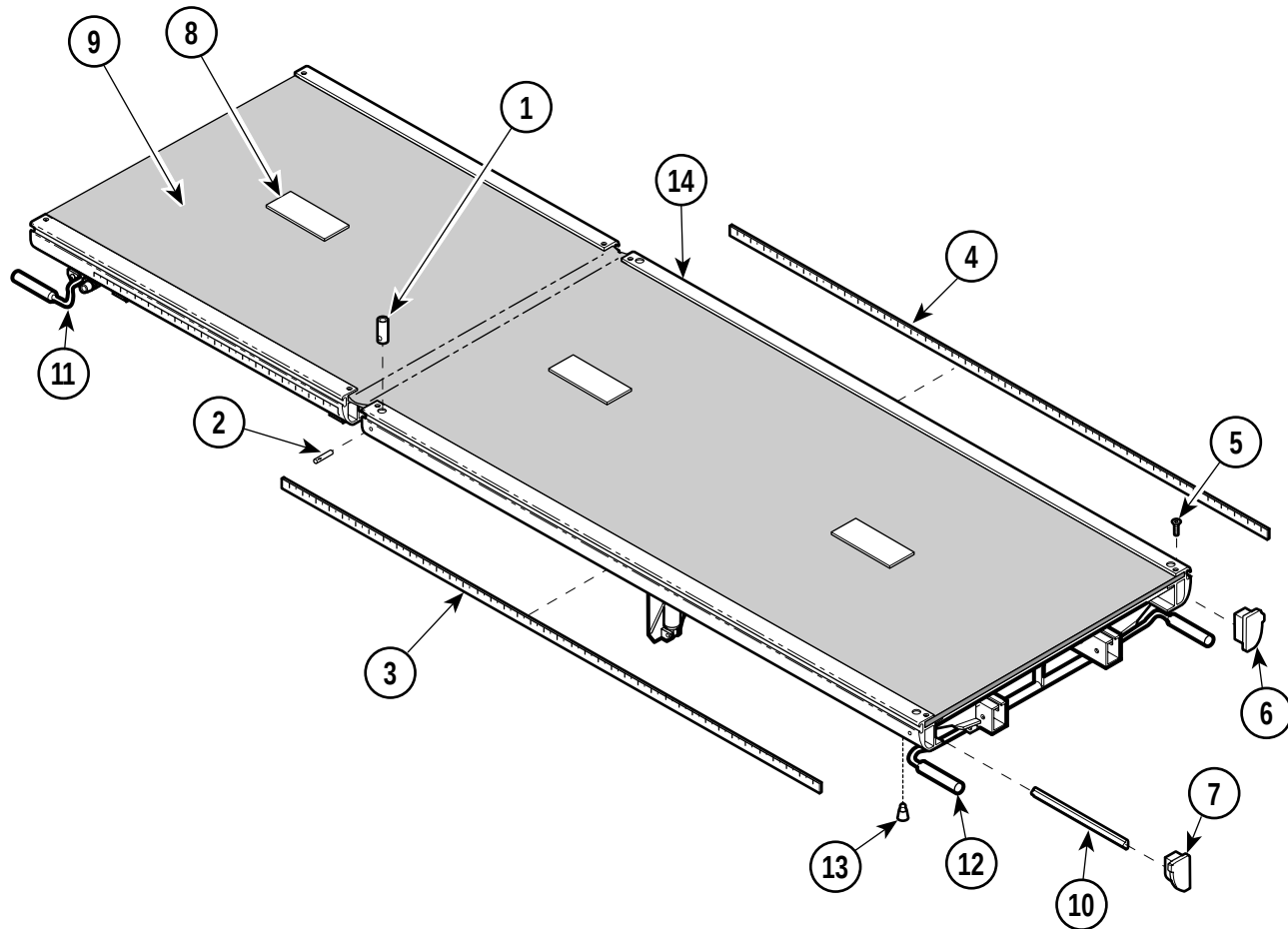
Used on Units with Serial Numbers: TAE-3000 thru TAE-3910

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	552-0063-01	I.V. Socket	2	10	553-0041-05	Side Bumper Foot End	2
2	042-0067-01	Groove Pin	2	11		Fowler Handle (Refer to "Fowler Components" Elsewhere)	Ref
3	561-0046-00	X-Ray Label (right)	1	12		Trendelenburg Handle (Refer to "Trendelenburg Components" Elsewhere) ...	Ref
4	561-0046-01	X-Ray Label (left)	1	13	053-0131-06	Velcro	2
5	040-0250-77	Screw	2	14	530-0003-00	Litter Frame Standard (530) Shown	
6	553-0100-00	End Bumper Right Hand	1		()	Litter Frame Knee Flex (530)	
7	553-0100-01	End Bumper Left Hand	1		530-0004-00	Litter Frame Standard (535)	
8	K101214-8-1/2H	Velcro	6		()	Litter Frame Knee Flex (535)	1
9	553-0008-00	Poly Top Standard (530)					
	()	Poly Top Knee Flex (530)					
	553-0027-00	Poly Top Standard (535)					
	()	Poly Top Knee Flex (535)	1				

Always Specify Model & Serial Number

Litter Components

SECTION VI PARTS LIST



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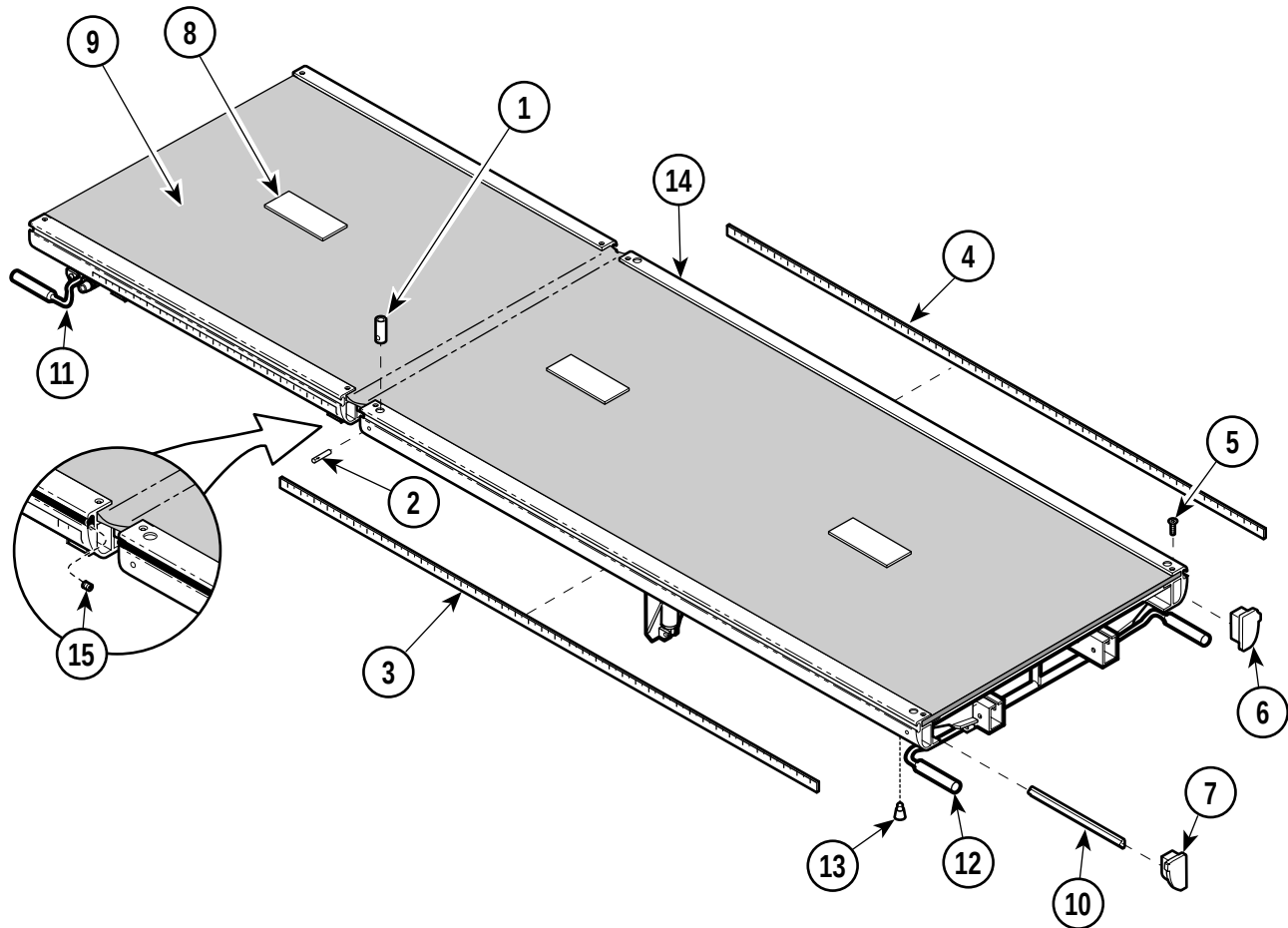
Used on Units with Serial Numbers: TAE-3911 thru 10358 TAF-2962 thru 8545

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	552-0192-00	I.V. Socket	2	10	553-0041-05	Side Bumper Foot End	2
2	042-0067-03	Groove Pin	2	11		Fowler Handle (Refer to "Fowler Components" Elsewhere)	Ref
3	561-0046-00	X-Ray Label (right)	1	12		Trendelenburg Handle (Refer to "Trendelenburg Components" Elsewhere)	Ref
4	561-0046-01	X-Ray Label (left)	1	13	516-0079-00	Spring Plunger	1
5	040-0250-97	Screw	2	14	530-0203-00	Litter Frame Standard (530) Shown	
6	553-0100-00	End Bumper Right Hand	1		530-0201-00	Litter Frame Knee Flex (530)	
7	553-0100-01	End Bumper Left Hand	1		530-0211-00	Litter Frame Standard (535)	
8	053-0131-13	Velcro	3		530-0202-00	Litter Frame Knee Flex (535)	1
9	553-0079-00	Poly Top Standard (530)					
	553-0082-00	Poly Top Knee Flex (530)					
	553-0080-00	Poly Top Standard (535)					
	553-0083-00	Poly Top Knee Flex (535)	1				

Always Specify Model & Serial Number

Litter Components

SECTION VI PARTS LIST



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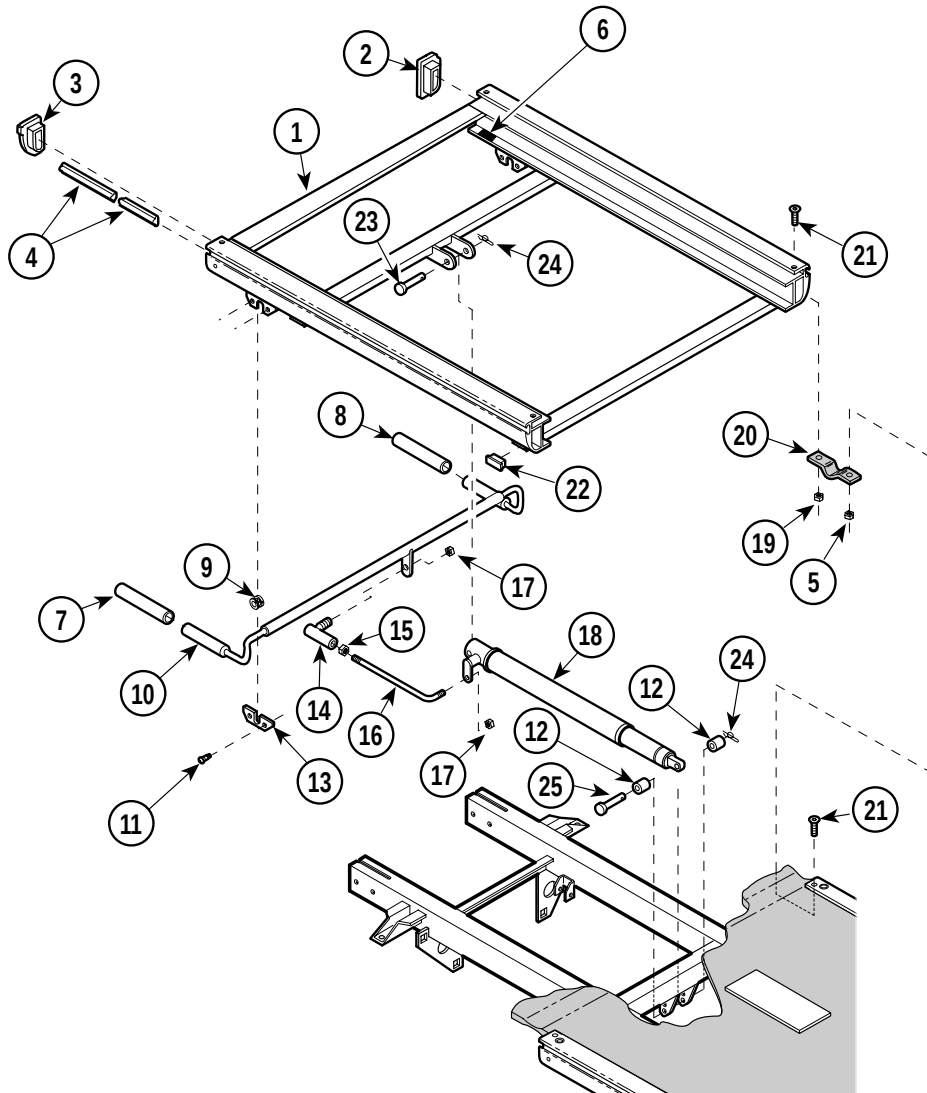
Used on Units with Serial Numbers: TAE-10359 thru Present TAF-8546 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	552-0192-00	I.V. Socket	2	10	553-0041-05	Side Bumper Foot End	2
2	042-0067-03	Groove Pin	2	11		Fowler Handle (Refer to "Fowler Components" Elsewhere)	Ref
3	561-0046-00	X-Ray Label (right)	1	12		Trendelenburg Handle (Refer to "Trendelenburg Components" Elsewhere)	Ref
4	561-0046-01	X-Ray Label (left)	1	13	516-0079-00	Spring Plunger	1
5	040-0250-97	Screw	2	14	530-0647-10	Litter Frame Standard (530) Shown	
6	553-0100-00	End Bumper Right Hand	1		530-0659-10	Litter Frame Knee Flex (530)	
7	553-0100-01	End Bumper Left Hand	1		530-0648-10	Litter Frame Standard (535)	
8	053-0131-13	Velcro	3		530-0660-10	Litter Frame Knee Flex (535)	1
9	553-0079-00	Poly Top Standard (530)		15	040-0010-14	Set Screw (Std Top)	4
	553-0082-00	Poly Top Knee Flex (530)				Set Screw (Knee-Flex Top)	12
	553-0080-00	Poly Top Standard (535)					
	553-0083-00	Poly Top Knee Flex (535)	1				

Always Specify Model & Serial Number

Fowler Components

SECTION VI PARTS LIST



HA518101

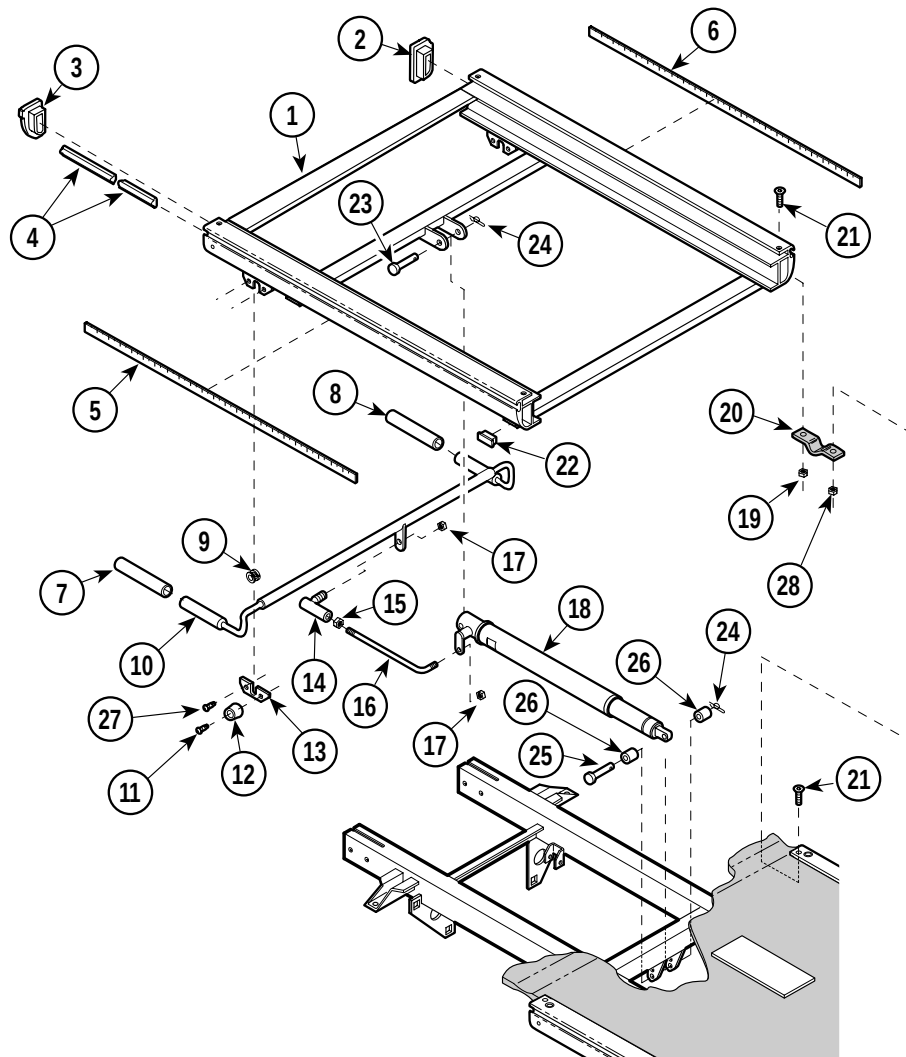
Used on Units with Serial Numbers: TAE-1000 thru TAE-2664 TAF-1000 thru TAF-2326

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	530-0015-00	(530) Fowler Frame		11	040-0010-47	Screw	2
	530-0016-00	(535) Fowler Frame	1	12	016-0138-03	Spacer	2
2	553-0100-01	End Cap (Left Hand)	1	13	551-0012-00	Pivot Bracket	2
3	553-0100-00	End Cap (Right Hand)	1	14	516-0007-00	Ball Joint	1
4	553-0041-01	Bumper L.H. (Fowler)	1	15	041-0250-07	Nut	1
	553-0041-00	Bumper R.H. (Fowler)	1	16	557-0005-00	Fowler Link	1
5	551-0050-00	Shoulder Nut	2	17	041-0250-08	Nut	2
6	053-0131-06	Velcro	2	18		Actuator (Refer to "Fowler Actuator Assembly" Elsewhere)	Ref
7	553-0036-00	Grip Right Hand (Assorted Colors)	1	19	040-0250-06	Nut	2
	• 553-0036-01	• Grip Right Hand Red	1	20	550-0076-00	Safety Strap	2
	• 553-0036-02	• Grip Right Hand Blue	1	21	040-0250-77	Screw	6
	• 553-0036-03	• Grip Right Hand Green	1	22	053-0251-00	Hole Plug	4
8	553-0037-00	Grip Left Hand (Assorted Colors)	1	23	042-0005-05	Clevis Pin	1
	• 553-0037-01	• Grip Left Hand Red	1	24	042-0063-00	Rue Ring Cotter Pin	2
	• 553-0037-02	• Grip Left Hand Blue	1	25	042-0602-05	Clevis Pin	1
	• 553-0037-03	• Grip Left Hand Green	1	26	016-0138-03	Spacer	2
9	053-0114-00	Nyliner Bearing	2	27	040-0010-47	Screw	2
10	530-0005-00	(530) Fowler Handle					
	530-0005-01	(535) Fowler Handle	1				

Always Specify Model & Serial Number

Fowler Components

SECTION VI PARTS LIST



HA518102

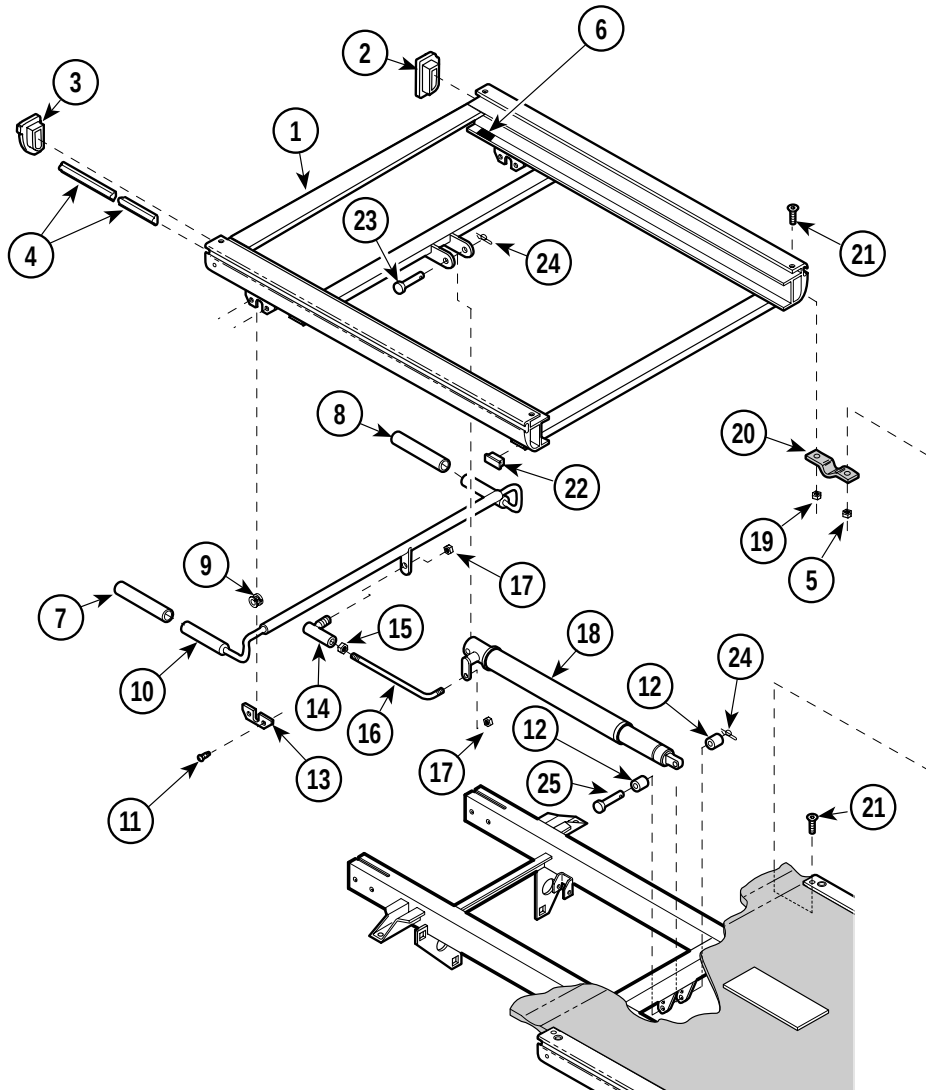
Used on Units with Serial Numbers: TAE-2665 thru TAE-2749 TAF-2327 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	530-0015-00	(530) Fowler Frame		530-0005-01	(535) Fowler Handle	1	
	530-0016-00	(535) Fowler Frame	1	11	040-0010-07	Screw	2
2	553-0100-01	End Cap (Left Hand)	1	12	516-0044-00	Bumper	2
3	553-0100-00	End Cap (Right Hand)	1	13	551-0012-00	Pivot Bracket	2
4	553-0041-04	Bumper (Fowler)	2	14	516-0007-00	Ball Joint	1
5		X-Ray Label (right) (Refer to "Litter Components" Elsewhere)	Ref	15	041-0250-07	Nut	1
6		X-Ray Label (Left) (Refer to "Litter Components" Elsewhere)	Ref	16	557-0005-00	Fowler Link	1
7	553-0036-00	Grip Right Hand (Assorted Colors)	1	17	041-0250-08	Nut	2
	• 553-0036-01	• Grip Right Hand Red	1	18		Actuator (Refer to "Fowler Actuator Assembly" Elsewhere)	Ref
	• 553-0036-02	• Grip Right Hand Blue	1	19	041-0250-06	Nut	2
	• 553-0036-03	• Grip Right Hand Green	1	20	550-0076-00	Safety Strap	2
8	553-0037-00	Grip Left Hand (Assorted Colors)	1	21	040-0250-77	Screw	6
	• 553-0037-01	• Grip Left Hand Red	1	22	053-0251-00	Hole Plug	4
	• 553-0037-02	• Grip Left Hand Blue	1	23	042-0005-05	Clevis Pin	1
	• 553-0037-03	• Grip Left Hand Green	1	24	042-0063-00	Rue Ring Cotter Pin	2
9	053-0114-00	Nyliner Bearing	2	25	042-0602-05	Clevis Pin	1
10	530-0005-00	(530) Fowler Handle		26	016-0138-03	Spacer	2
				27	040-0010-47	Screw	2
				28	K500067	Shoulder Nut	2

Always Specify Model & Serial Number

Fowler Components

SECTION VI PARTS LIST



HA518101

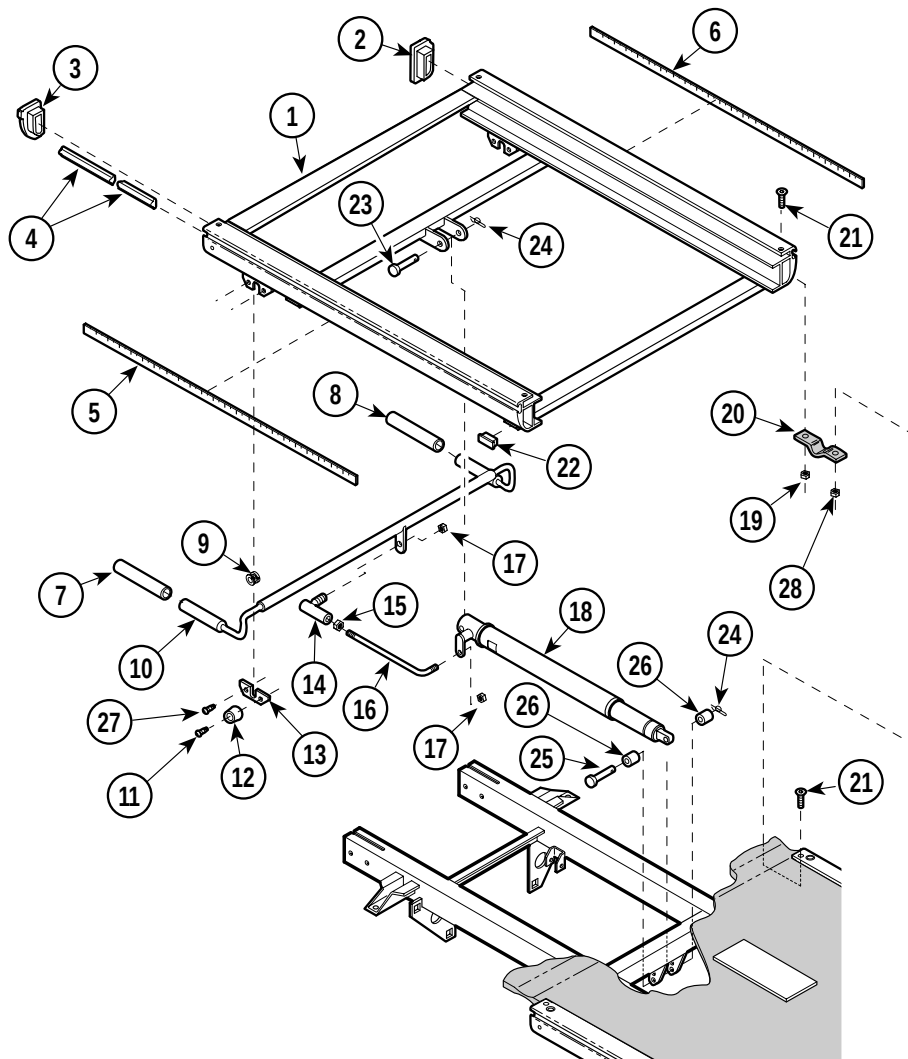
Used on Units with Serial Numbers: TAE-2750 thru TAE-2999

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	530-0015-00	(530) Fowler Frame		11	040-0010-47	Screw	2
	530-0016-00	(535) Fowler Frame	1	12	016-0138-03	Spacer	2
2	553-0100-01	End Cap (Left Hand)	1	13	551-0012-00	Pivot Bracket	2
3	553-0100-00	End Cap (Right Hand)	1	14	516-0007-00	Ball Joint	1
4	553-0041-01	Bumper L.H. (Fowler)	1	15	041-0250-07	Nut	1
	553-0041-00	Bumper R.H. (Fowler)	1	16	557-0005-00	Fowler Link	1
5	551-0050-00	Shoulder Nut	2	17	041-0250-08	Nut	2
6	053-0131-06	Velcro	2	18		Actuator (Refer to "Fowler Actuator	
7	553-0036-00	Grip Right Hand (Assorted Colors)	1			Assembly" Elsewhere)	Ref
	• 553-0036-01	• Grip Right Hand Red	1	19	040-0250-06	Nut	2
	• 553-0036-02	• Grip Right Hand Blue	1	20	550-0076-00	Safety Strap	2
	• 553-0036-03	• Grip Right Hand Green	1	21	040-0250-77	Screw	6
8	553-0037-00	Grip Left Hand (Assorted Colors)	1	22	053-0251-00	Hole Plug	4
	• 553-0037-01	• Grip Left Hand Red	1	23	042-0005-05	Clevis Pin	1
	• 553-0037-02	• Grip Left Hand Blue	1	24	042-0063-00	Rue Ring Cotter Pin	2
	• 553-0037-03	• Grip Left Hand Green	1	25	042-0602-05	Clevis Pin	1
9	053-0114-00	Nyliner Bearing	2	26	016-0138-03	Spacer	2
10	530-0005-00	(530) Fowler Handle		27	040-0010-47	Screw	2
	530-0005-01	(535) Fowler Handle	1				

Always Specify Model & Serial Number

Fowler Components

SECTION VI PARTS LIST



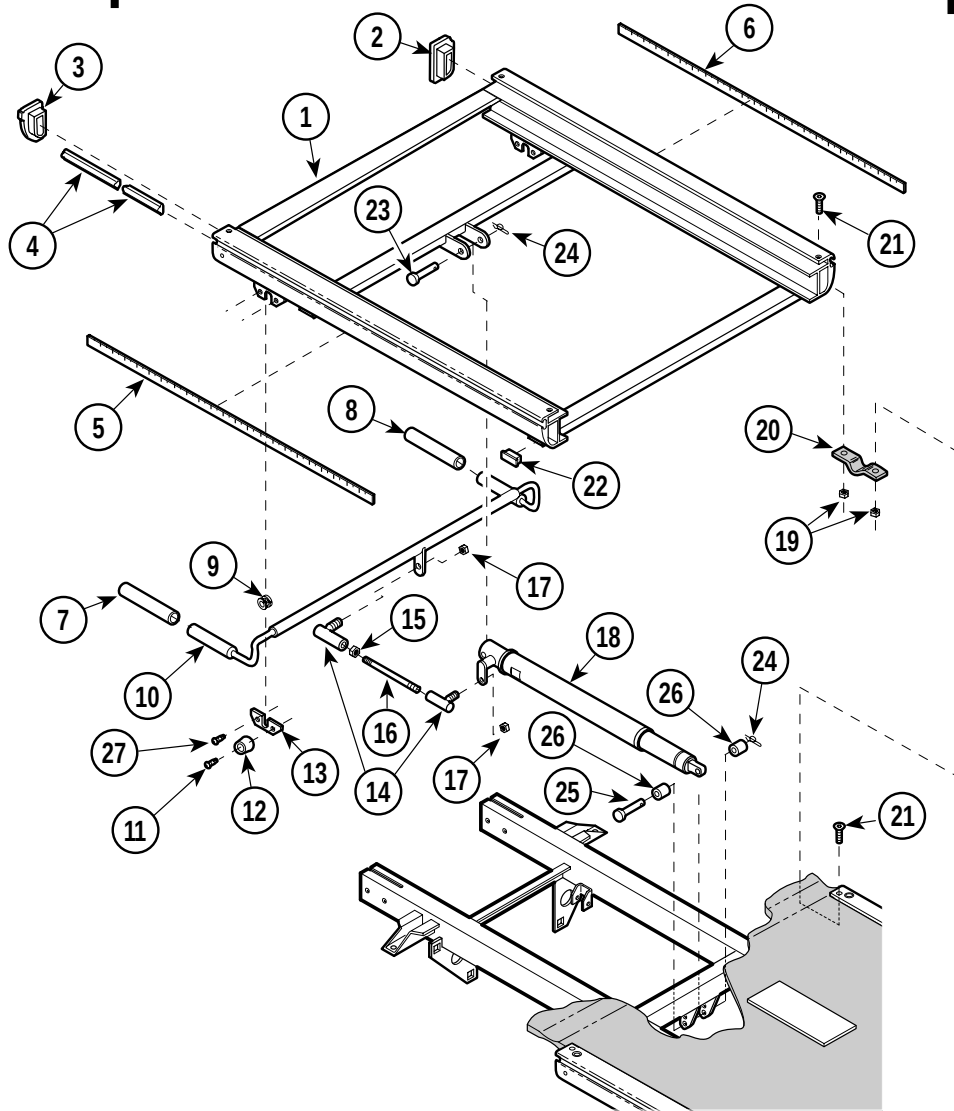
HA518102

Used on Units with Serial Numbers: TAE-3000 thru TAE-3910

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	530-0015-00	(530) Fowler Frame		11	530-0005-01	(535) Fowler Handle	1
	530-0016-00	(535) Fowler Frame	1	12	040-0010-07	Screw	2
2	553-0100-01	End Cap (Left Hand)	1	13	516-0044-00	Bumper	2
3	553-0100-00	End Cap (Right Hand)	1	14	551-0012-00	Pivot Bracket	2
4	553-0041-04	Bumper (Fowler)	2	15	516-0007-00	Ball Joint	1
5		X-Ray Label (right) (Refer to "Litter Components" Elsewhere)	Ref	16	041-0250-07	Nut	1
6		X-Ray Label (left) (Refer to "Litter Components" Elsewhere)	Ref	17	557-0005-00	Fowler Link	1
7	553-0036-00	Grip Right Hand (Assorted Colors)	1	18	041-0250-08	Nut	2
	• 553-0036-01	• Grip Right Hand Red	1			Actuator (Refer to "Fowler Actuator Assembly" Elsewhere)	Ref
	• 553-0036-02	• Grip Right Hand Blue	1	19	041-0250-06	Nut	2
	• 553-0036-03	• Grip Right Hand Green	1	20	550-0076-00	Safety Strap	2
8	553-0037-00	Grip Left Hand (Assorted Colors)	1	21	040-0250-77	Screw	6
	• 553-0037-01	• Grip Left Hand Red	1	22	053-0251-00	Hole Plug	4
	• 553-0037-02	• Grip Left Hand Blue	1	23	042-0005-05	Clevis Pin	1
	• 553-0037-03	• Grip Left Hand Green	1	24	042-0063-00	Rue Ring Cotter Pin	2
9	053-0114-00	Nyliner Bearing	2	25	042-0602-05	Clevis Pin	1
10	530-0005-00	(530) Fowler Handle		26	016-0138-03	Spacer	2
				27	040-0010-47	Screw	2
				28	K500067	Shoulder Nut	2

Always Specify Model & Serial Number

Fowler Components



HA518100

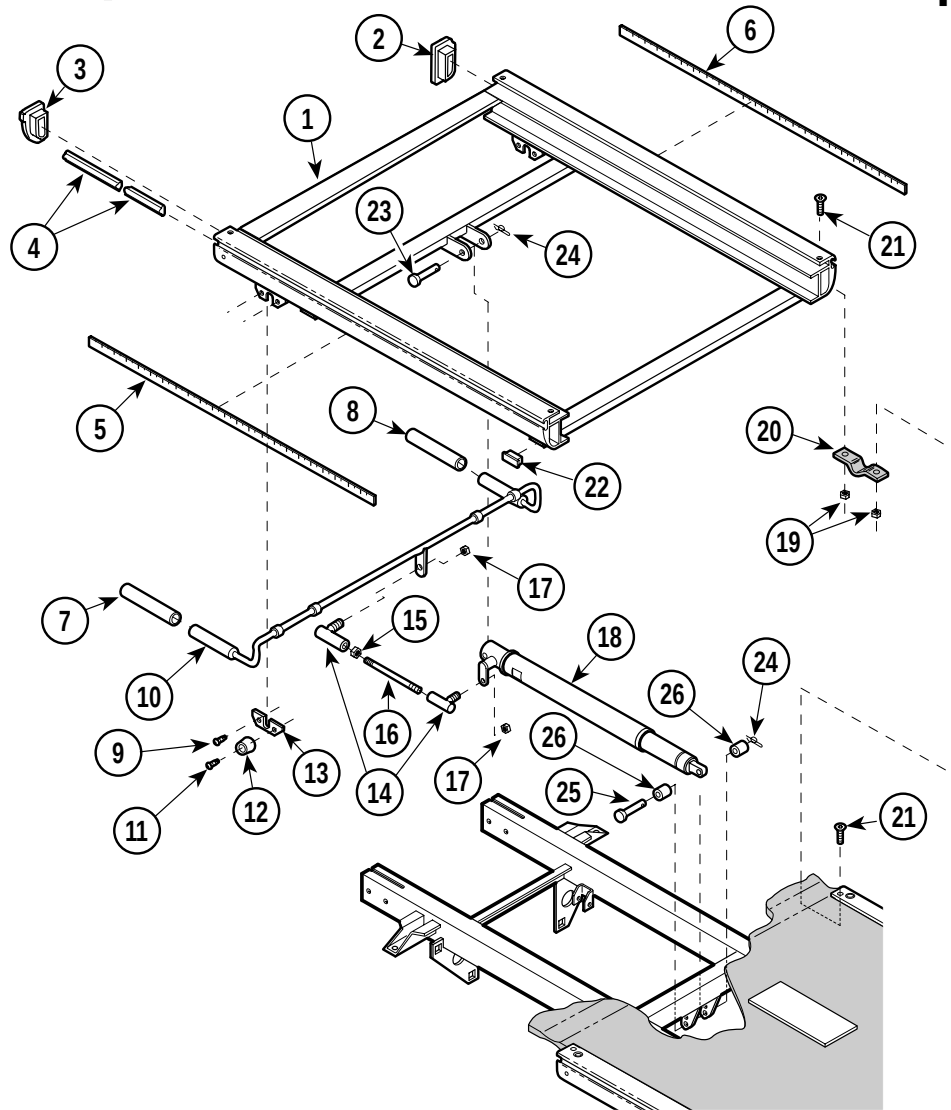
Used on Units with Serial Numbers: TAE-3911 thru 10358 TAF-2962 thru 8545

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	530-0215-00	(530) Fowler Frame		10	530-0005-00	(530) Fowler Handle	
	530-0216-00	(535) Fowler Frame	1		530-0005-01	(535) Fowler Handle	1
2	553-0100-01	End Cap (Left Hand)	1	11	040-0010-07	Screw	2
3	553-0100-00	End Cap (Right Hand)	1	12	516-0044-00	Bumper	2
4	553-0041-04	Bumper (Fowler)	2	13	551-0012-00	Pivot Bracket	2
5		X-Ray Label (right) (Refer to "Litter Components" Elsewhere)	Ref	14	516-0007-00	Ball Joint	2
6		X-Ray Label (left) (Refer to "Litter Components" Elsewhere)	Ref	15	041-0250-07	Nut	1
7	553-0036-00	Grip Right Hand (Assorted Colors)	1	16	557-0451-00	Fowler Link	1
	• 553-0036-01	• Grip Right Hand Red	1	17	041-0250-08	Nut	2
	• 553-0036-02	• Grip Right Hand Blue	1	18		Actuator (Refer to "Fowler Actuator Assembly" Elsewhere)	Ref
	• 553-0036-03	• Grip Right Hand Green	1	19	K500067	Nut	4
8	553-0037-00	Grip Left Hand (Assorted Colors)	1	20	553-0097-00	Safety Strap	2
	• 553-0037-01	• Grip Left Hand Red	1	21	040-0250-97	Screw	6
	• 553-0037-02	• Grip Left Hand Blue	1	22	053-0251-00	Hole Plug	4
	• 553-0037-03	• Grip Left Hand Green	1	23	042-0005-05	Clevis Pin	1
9	053-0114-00	Nyliner Bearing	2	24	042-0063-00	Rue Ring Cotter Pin	2
				25	042-0602-05	Clevis Pin	1
				26	016-0138-03	Spacer	2
				27	040-0010-47	Screw	2

Always Specify Model & Serial Number

Fowler Components

SECTION VI PARTS LIST



HA518103

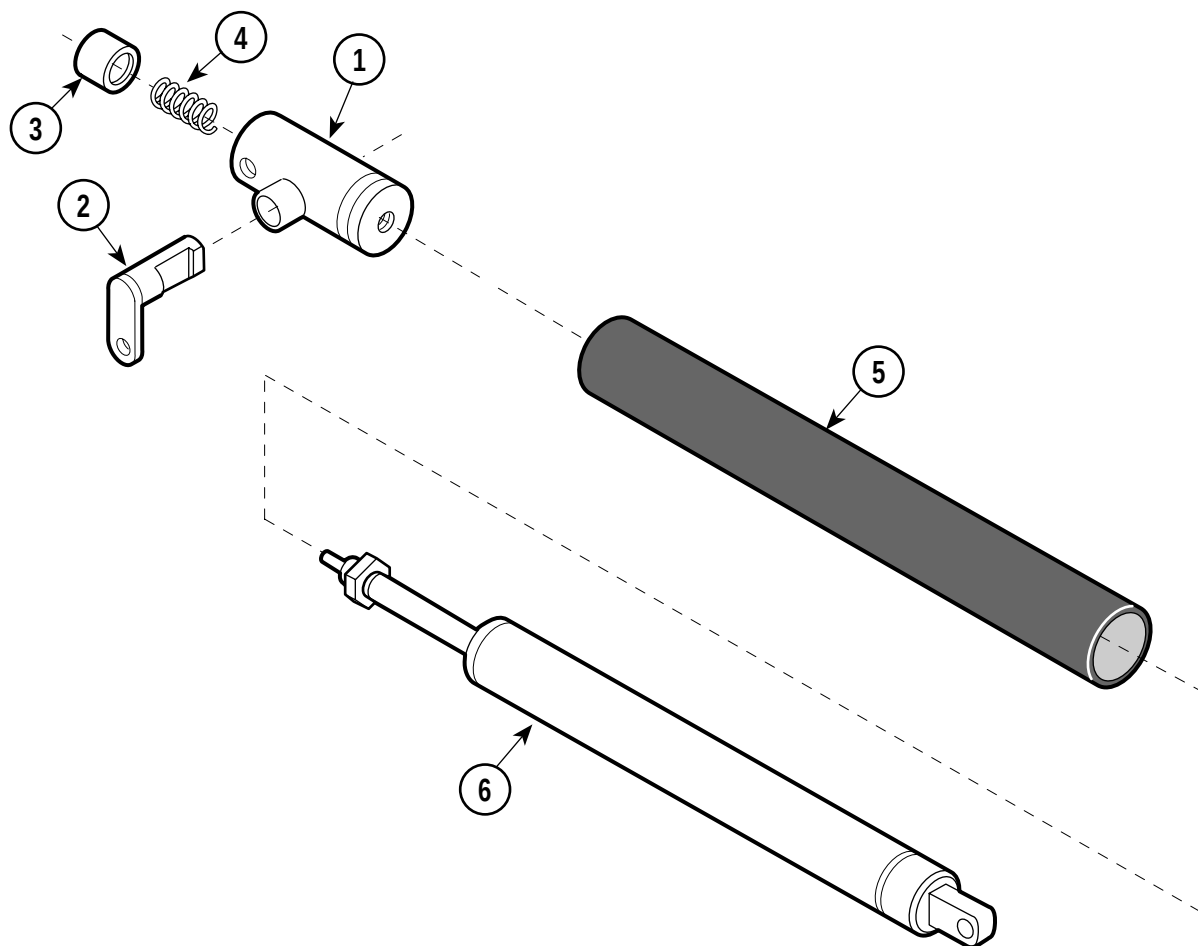
Used on Units with Serial Numbers: TAE-10359 thru Present TAF-8546 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	530-0649-10	(530) Fowler Frame		10	530-0662-10	(530) Fowler Handle	
	530-0650-10	(535) Fowler Frame	1		530-0663-10	(535) Fowler Handle	1
2	553-0100-01	End Cap (Left Hand)	1	11	040-0010-07	Screw	2
3	553-0100-00	End Cap (Right Hand)	1	12	553-0282-00	Bumper	2
4	553-0041-04	Bumper (Fowler)	2	13	551-0394-10	Pivot Bracket	2
5		X-Ray Label (right) (Refer to "Litter Components" Elsewhere)	Ref	14	516-0007-00	Ball Joint	2
6		X-Ray Label (left) (Refer to "Litter Components" Elsewhere)	Ref	15	041-0250-07	Nut	1
7	553-0036-00	Grip Right Hand (Assorted Colors)	1	16	557-0451-00	Fowler Link	1
	• 553-0036-01	• Grip Right Hand Red	1	17	041-0250-08	Nut	2
	• 553-0036-02	• Grip Right Hand Blue	1	18		Actuator (Refer to "Fowler Actuator Assembly" Elsewhere)	1
	• 553-0036-03	• Grip Right Hand Green	1	19	K500067	Nut	4
8	553-0037-00	Grip Left Hand (Assorted Colors)	1	20	553-0097-00	Safety Strap	2
	• 553-0037-01	• Grip Left Hand Red	1	21	040-0250-97	Screw	6
	• 553-0037-02	• Grip Left Hand Blue	1	22	053-0251-00	Hole Plug	4
	• 553-0037-03	• Grip Left Hand Green	1	23	042-0005-05	Clevis Pin	1
9	040-0010-47	Screw	2	24	042-0063-00	Rue Ring Cotter Pin	2
				25	042-0602-05	Clevis Pin	1
				26	016-0138-03	Spacer	2

Always Specify Model & Serial Number

Fowler Actuator Components

SECTION VI PARTS LIST



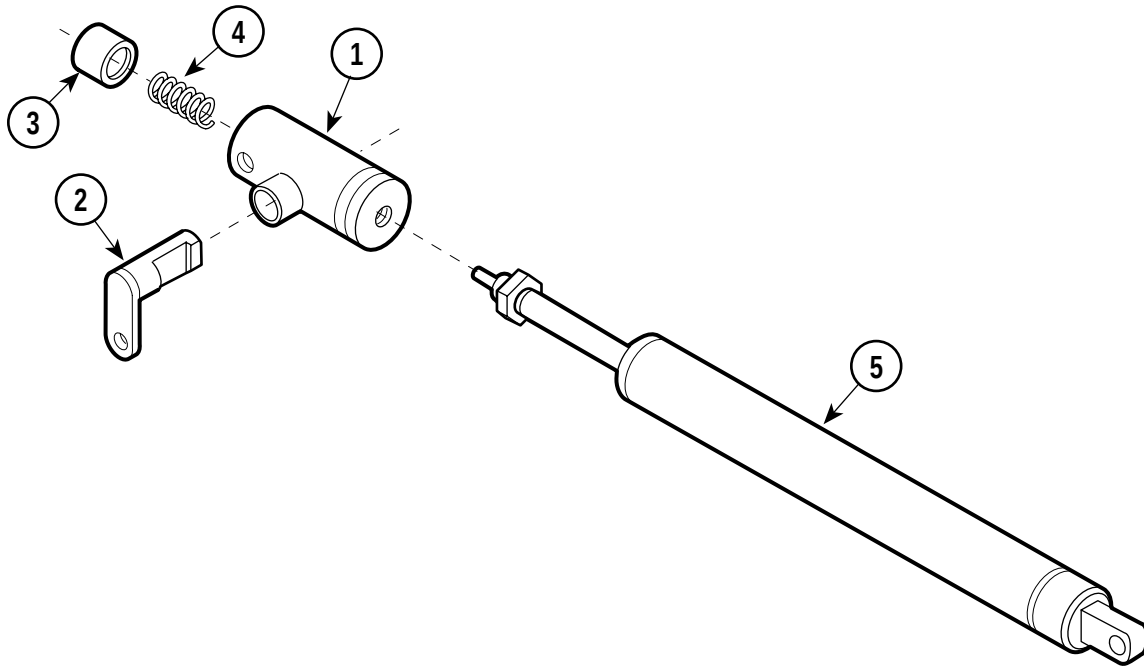
HA522001

Used on Units with Serial Numbers: TAE-1000 thru TAE-2664 TAF-1000 thru TAF-2326

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0017-00	Fowler Actuator	1	4	• 525-0001-00	• Spring	1
1	• 530-0008-00	• Actuator Tube	1	5	553-0022-01	Gas Spring Tube	1
2	• 530-0009-00	• Actuator	1	6	016-0240-01	Gas Spring	1
3	• 553-0005-00	• Piston	1				

Always Specify Model & Serial Number

Fowler Actuator Components



HA522002

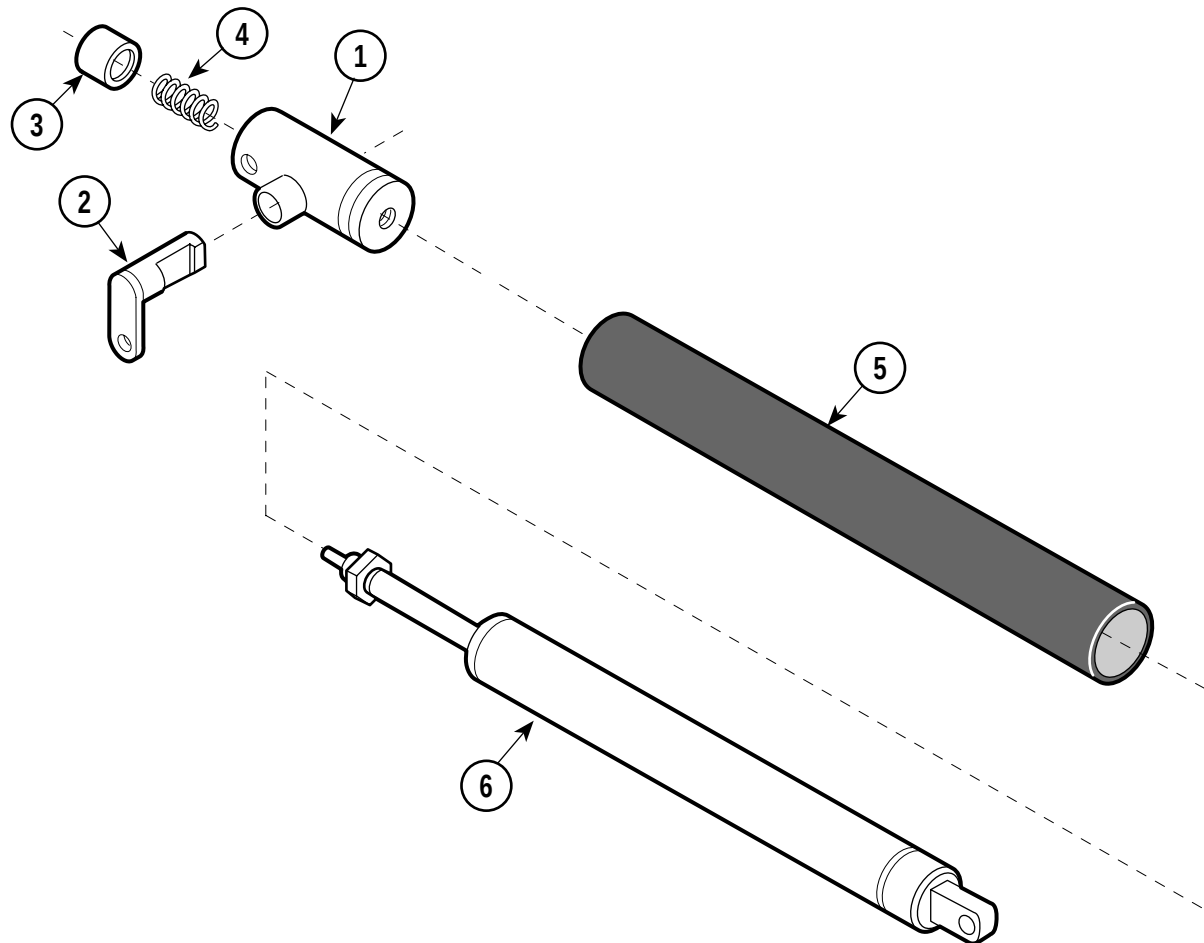
Used on Units with Serial Numbers: TAE-2665 thru 2749 TAF-2327 thru 8871

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0253-00	Fowler Actuator Assembly	1	3	• 553-0005-00	• Piston	1
1	• 530-0603-00	• Actuator Tube	1	4	• 525-0001-00	• Spring	1
2	• 530-0500-00	• Actuator	1	5	016-0240-01	Gas Spring	1

Always Specify Model & Serial Number

Fowler Actuator Components

SECTION VI PARTS LIST



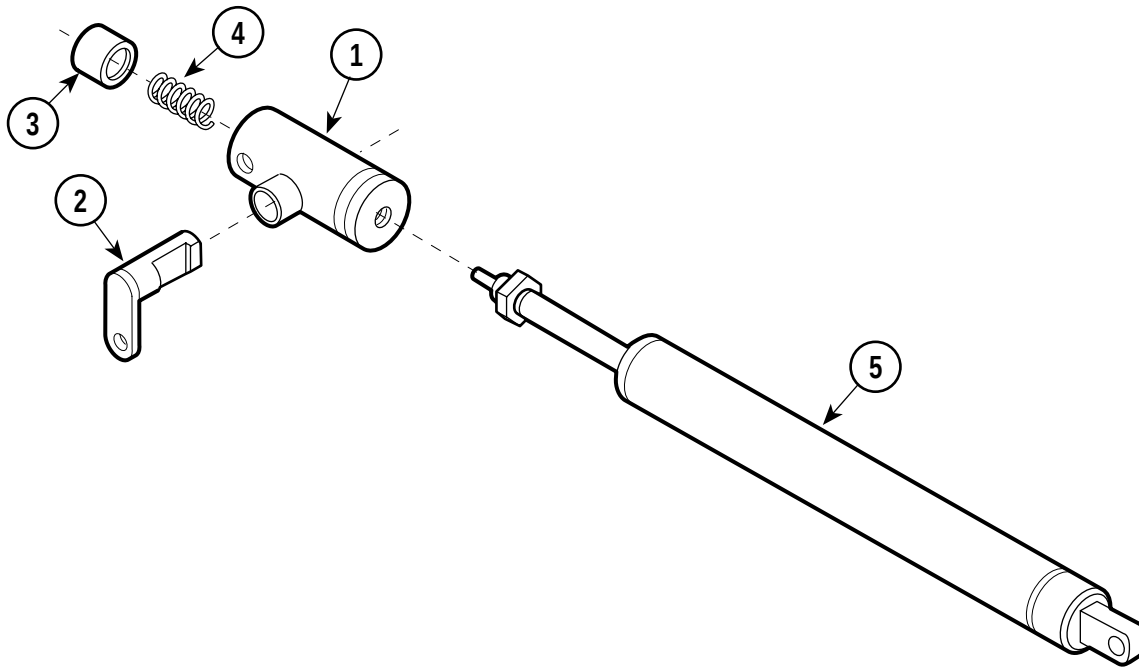
HA522001

Used on Units with Serial Numbers: TAE-2750 thru TAE-2999

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0017-00	Fowler Actuator	1	4	• 525-0001-00	• Spring	1
1	• 530-0008-00	• Actuator Tube	1	5	553-0022-01	Gas Spring Tube	1
2	• 530-0009-00	• Actuator	1	6	016-0240-01	Gas Spring	1
3	• 553-0005-00	• Piston	1				

Always Specify Model & Serial Number

Fowler Actuator Components



HA522002

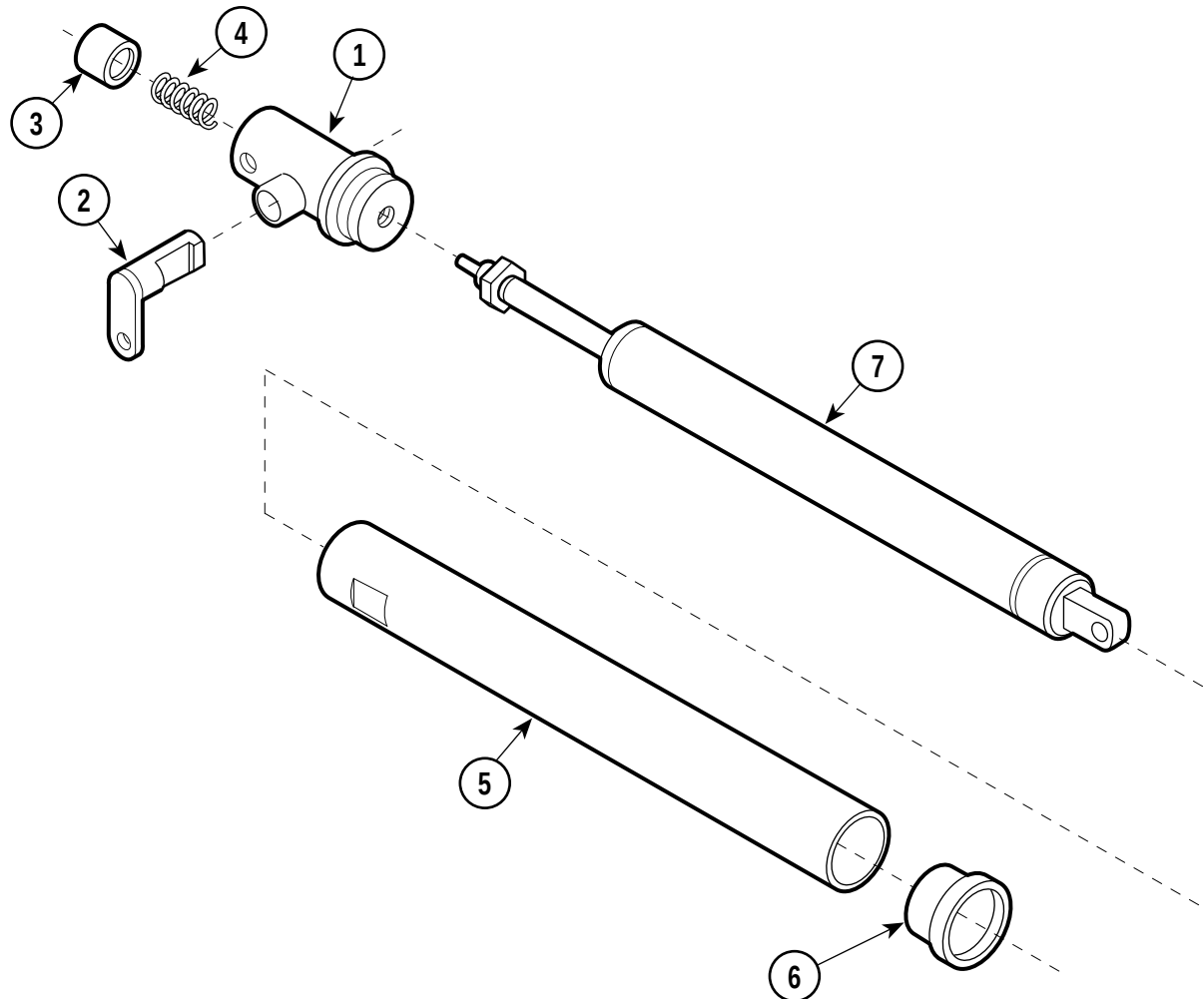
Used on Units with Serial Numbers: TAE-3000 thru 10084

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0253-00	Fowler Actuator Assembly	1	3	• 553-0005-00	• Piston	1
1	• 530-0499-00	• Actuator Tube	1	4	• 525-0001-00	• Spring	1
2	• 530-0500-00	• Actuator	1	5	016-0240-01	Gas Spring	1

Always Specify Model & Serial Number

Fowler Actuator Components

SECTION VI PARTS LIST



HA522000

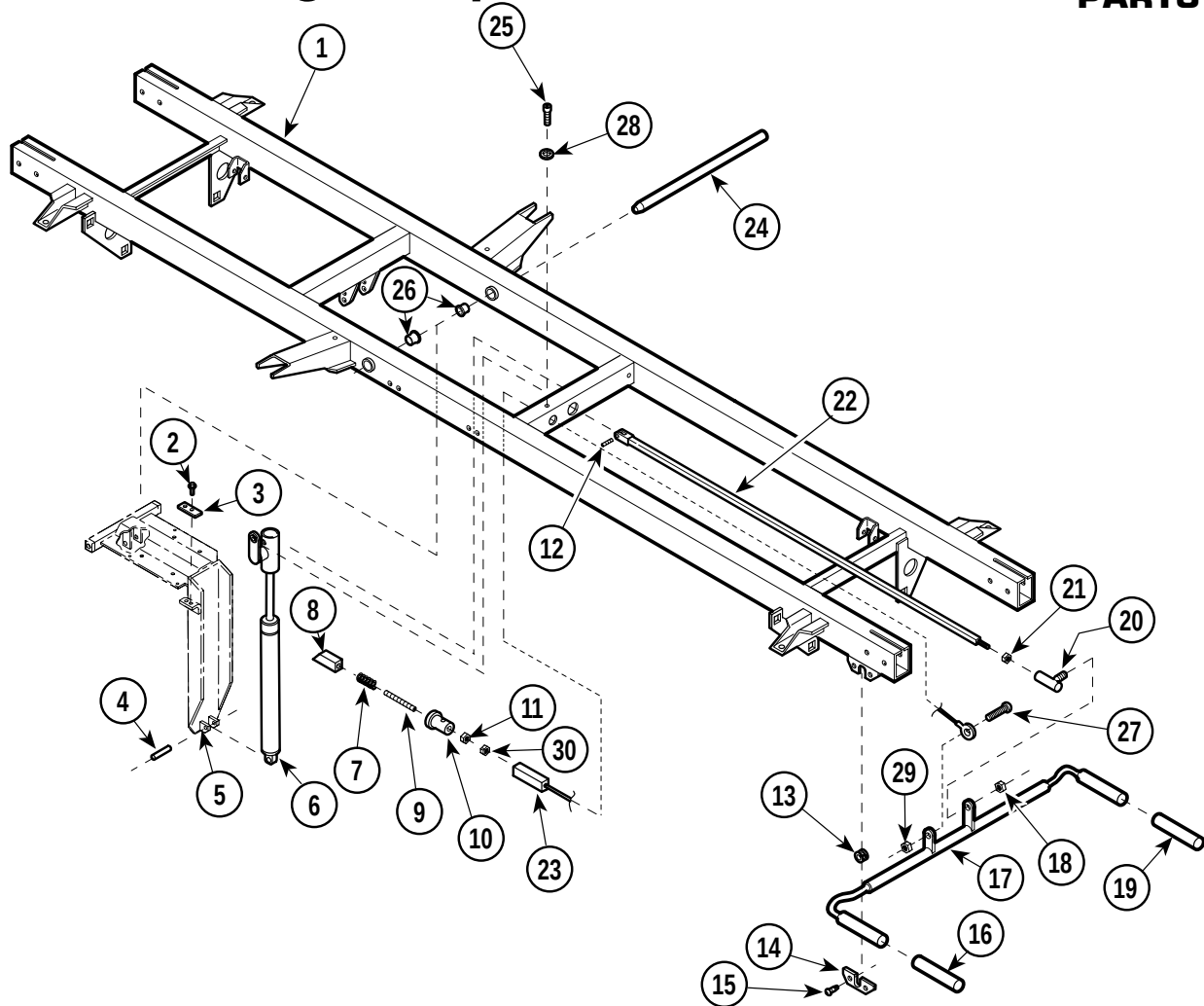
Used on Units with Serial Numbers: TAE-10085 thru Present TAF-8872 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0087-00	Fowler Actuator Kit	1	4	• 525-0001-00	• Spring	1
1	• 530-0603-00	• Actuator Tube	1	5	• 552-0555-00	• Gas Spring Tube	1
2	• 530-0500-00	• Actuator	1	6	• 553-0231-00	• Tube Bearing Cap	1
3	• 553-0005-00	• Piston	1	7	016-0240-01	Gas Spring	1

Always Specify Model & Serial Number

Trendelenburg Components

SECTION VI PARTS LIST



HA522201

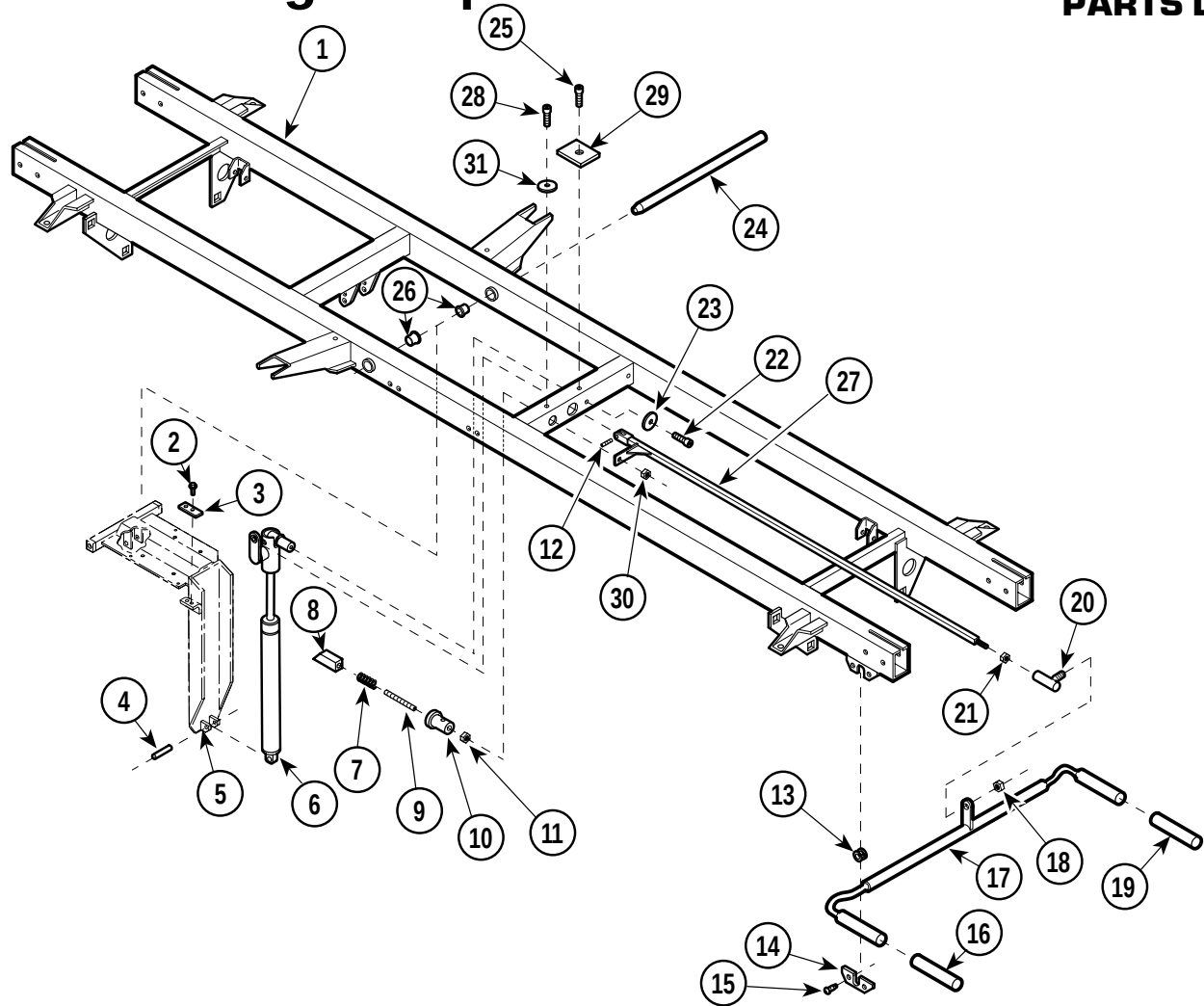
Used on Units with Serial Numbers: TAE-1000 thru TAE-2664 TAF-1000 thru TAF-2326

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Litter Frame (Refer to "Litter Components" Elsewhere)	Ref		• 553-0038-02	• Grip R.H. Blue	1
2	040-0250-122	Screw	2		• 553-0038-03	• Grip R.H. Green	1
3	551-0015-00	Lockout Strike	1	17	530-0151-00	Trendeleburg Handle (530)	1
4	042-0011-03	Spirol Pin	2		530-0151-01	Trendeleburg Handle (535)	1
5		Pivot Plate (Refer to "Chassis Components" Elsewhere)	Ref	18	041-0250-08	Nut	1
6		Trendeleburg Actuator (Refer to "Trendeleburg Components" Elsewhere)	Ref	19	553-0039-00	Grip Left Hand Assorted	1
7	K101191	Spring	1		• 553-0039-01	• Grip L.H. Red	1
8	551-0044-00	Lockout Bolt	1		• 553-0039-02	• Grip L.H. Blue	1
9	516-0004-00	Latch Rod	1		• 553-0039-03	• Grip L.H. Green	1
10	530-0088-00	Broached Sleeve	1	20	516-0007-00	Ball Joint	1
11	041-0010-02	Nut	2	21	041-0250-07	Nut	1
12	516-0002-00	Pivot Pin	1	22	530-0007-00	Trend Release	1
13	053-0114-00	Nyliner	2	23	516-0003-00	Lockout Cable	1
14	551-0012-00	Pivot Bracket	2	24	551-0019-00	Pivot Shaft (530)	1
15	040-0010-47	Screw	4		551-0019-01	Pivot Shaft (535)	1
16	553-0038-00	Grip Right Hand Assorted	1	25	040-0250-07	Screw	1
	• 553-0038-01	• Grip R.H. Red	1	26	016-0131-06	Bearing	2
				27	K500043	Screw	1
				28	045-0001-02	Washer	1
				29	040-0250-01	Nut	1
				30	040-0010-00	Nut	1

Always Specify Model & Serial Number

Trendelenburg Components

SECTION VI PARTS LIST



HA522202

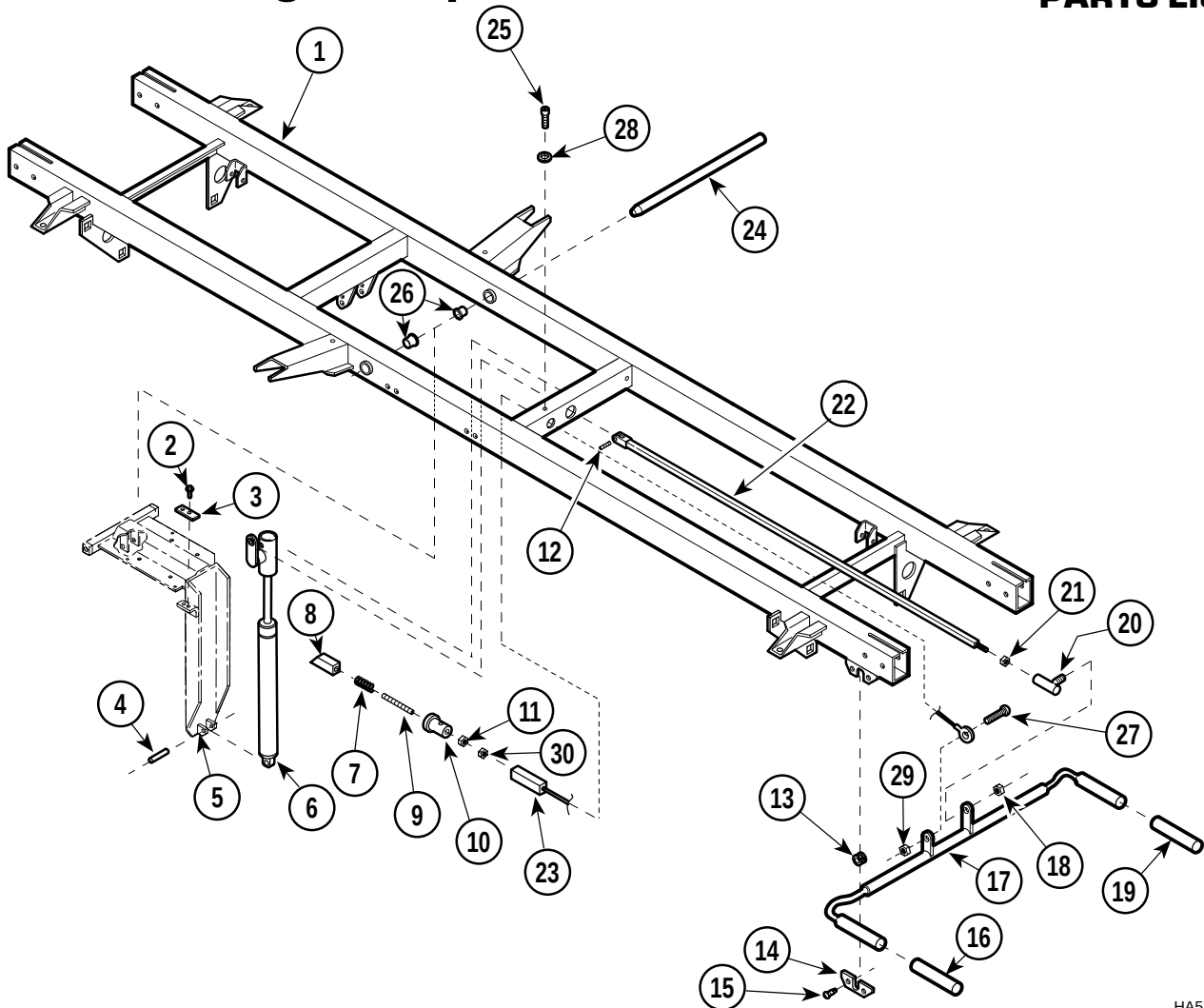
Used on Units with Serial Numbers: TAE-2665 thru TAE-2749 TAF-2327 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Litter Frame	Ref				
2	040-0250-122	Screw	2		• 553-0038-03	• Grip R.H. Green	1
3	551-0015-00	Lockout Strike	1	17	530-0249-00	Trend Handle (530)	1
4	042-0011-03	Spirol Pin	1		530-0249-01	Trend Handle (535)	1
5		Pivot Plate (Refer to "Chassis Components" Elsewhere)	Ref	18	041-0250-08	Nut	1
6		Trend Actuator (Refer to "Trendelenburg Actuator Components" Elsewhere)	Ref	19	553-0039-00	Grip Left Hand Assorted	1
7	K101191	Spring	1		• 553-0039-01	• Grip L.H. Red	1
8	551-0044-00	Lockout Bolt	1		• 553-0039-02	• Grip L.H. Blue	1
9	516-0004-00	Latch Rod	1		• 553-0039-03	• Grip L.H. Green	1
10	530-0088-00	Broached Sleeve	1	20	516-0007-00	Ball Joint	1
11	041-0010-02	Nut	2	21	041-0250-07	Nut	1
12	516-0002-00	Pivot Pin	1	22	040-0250-100	Screw	1
13	053-0114-00	Nyliner	2	23	045-0001-60	Washer	1
14	551-0012-00	Pivot Bracket	2	24	551-0019-00	Pivot Shaft (530)	1
15	040-0010-47	Screw	4		551-0019-01	Pivot Shaft (535)	1
16	553-0038-00	Grip Right Hand Assorted	1	25	040-0250-73	Screw	2
	• 553-0038-01	• Grip R.H. Red	1	26	016-0131-06	Bearing	2
	• 553-0038-02	• Grip R.H. Blue	1	27	530-0214-00	Trend Release	1
				28	040-0250-31	Screw	1
				29	551-0111-00	Plate	1
				30	041-0010-00	Nut	1
				31	045-0001-02	Washer	1

Always Specify Model & Serial Number

Trendelenburg Components

SECTION VI PARTS LIST



HA522201

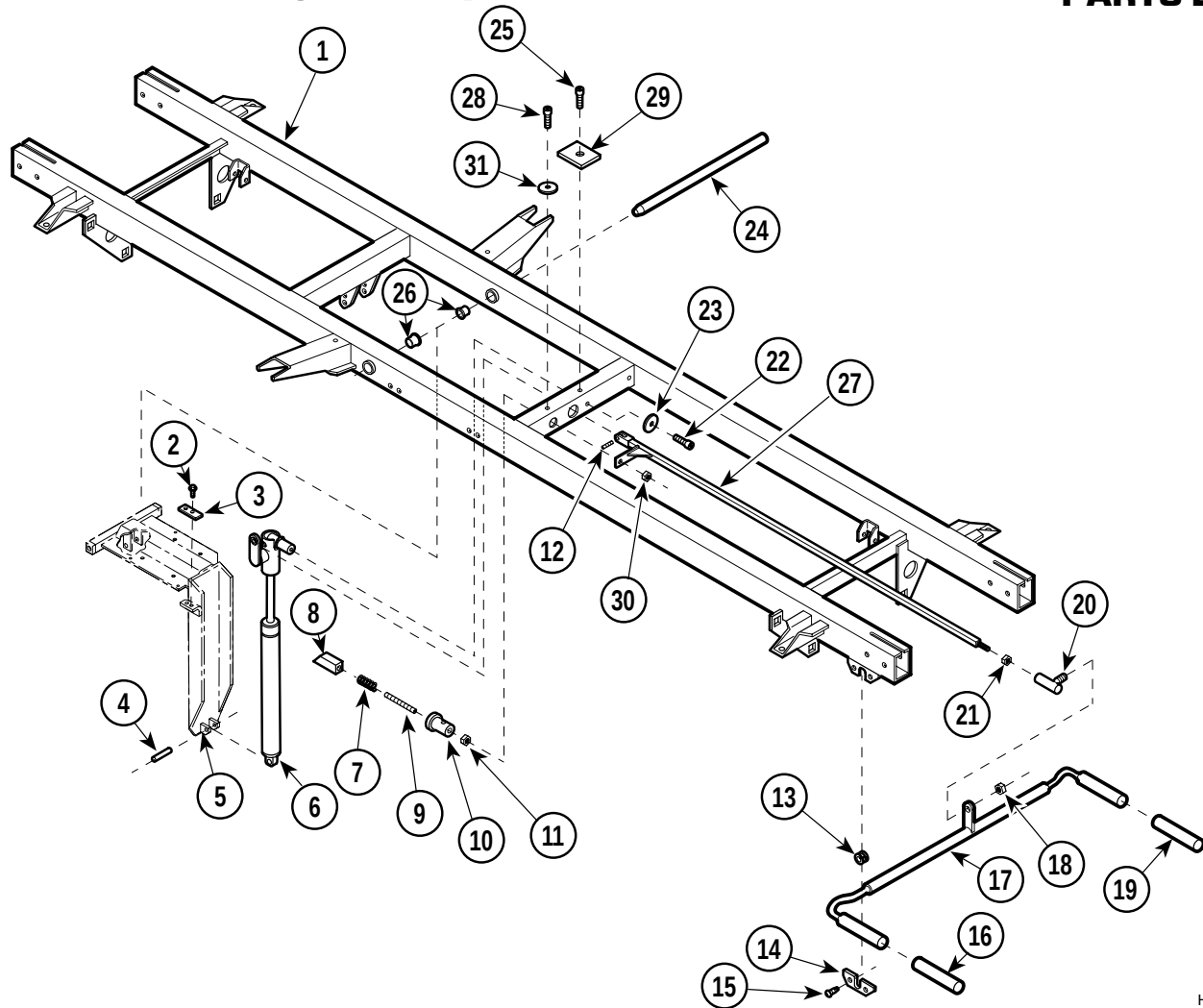
Used on Units with Serial Numbers: TAE-2750 thru TAE-2999

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Litter Frame	Ref	• 553-0038-03		• Grip R.H. Green	1
2	040-0250-122	Screw	2	17	530-0151-00	Trend Handle (530)	1
3	551-0015-00	Lockout Strike	1		530-0151-01	Trend Handle (535)	1
4	042-0011-03	Spirol Pin	2	18	041-0250-08	Nut	1
5		Pivot Plate (Refer to "Chassis Components" Elsewhere)	Ref	19	553-0039-00	Grip Left Hand Assorted	1
6		Trend Actuator (Refer to "Tendeleburg Actuator Components" Elsewhere)	Ref	• 553-0039-01		• Grip L.H. Red	1
7	K101191	Spring	1	• 553-0039-02		• Grip L.H. Blue	1
8	551-0044-00	Lockout Bolt	1	• 553-0039-03		• Grip L.H. Green	1
9	516-0004-00	Latch Rod	1	20	516-0007-00	Ball Joint	1
10	530-0088-00	Broached Sleeve	1	21	041-0250-07	Nut	1
11	041-0010-02	Nut	2	22	530-0007-00	Trend Release	1
12	516-0002-00	Pivot Pin	1	23	516-0003-00	Lockout Cable	1
13	053-0114-00	Nyliner	2	24	551-0019-00	Pivot Shaft (530)	1
14	551-0012-00	Pivot Bracket	2		551-0019-01	Pivot Shaft (535)	1
15	040-0010-47	Screw	4	25	040-0250-07	Screw	1
16	553-0038-00	Grip Right Hand Assorted	1	26	016-0131-06	Bearing	2
	• 553-0038-01	• Grip R.H. Red	1	27	K500043	Screw	1
	• 553-0038-02	• Grip R.H. Blue	1	28	045-0001-02	Washer	1
				29	040-0250-01	Nut	1
				30	040-0010-00	Nut	1

Always Specify Model & Serial Number

Trendelenburg Components

SECTION VI PARTS LIST



HA522202

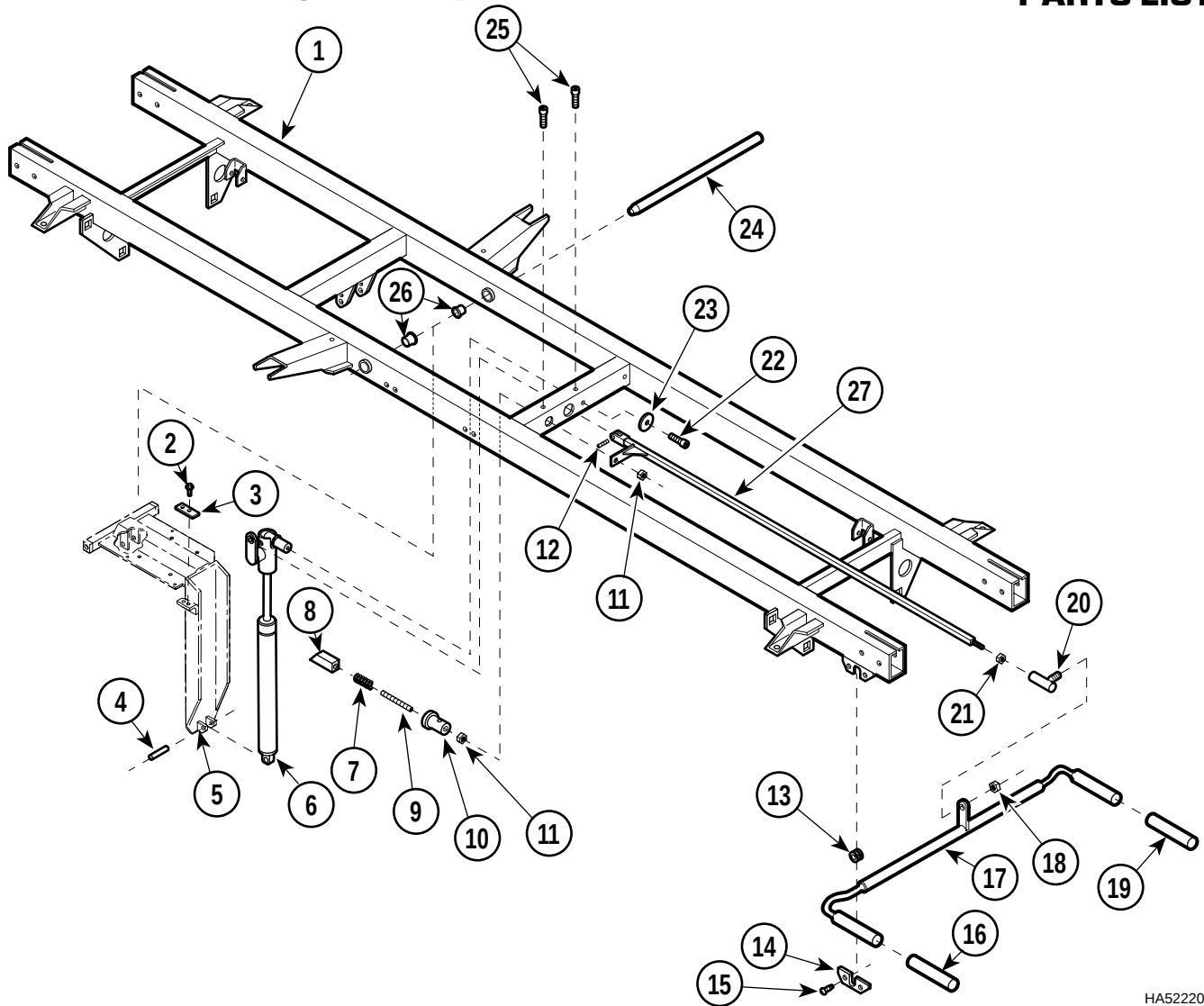
Used on Units with Serial Numbers: TAE-3000 thru TAE-3910

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Litter Frame	Ref		• 553-0038-03	• Grip R.H. Green	1
2	040-0250-122	Screw	2	17	530-0249-00	Trend Handle (530)	1
3	551-0015-00	Lockout Strike	1		530-0249-01	Trend Handle (535)	1
4	042-0011-03	Spirol Pin	1	18	041-0250-08	Nut	1
5		Pivot Plate (Refer to "Chassis Components" Elsewhere)	Ref	19	553-0039-00	Grip Left Hand Assorted	1
6		Trend Actuator (Refer to "Trendelenburg Actuator Components" Elsewhere)	Ref		• 553-0039-01	• Grip L.H. Red	1
7	K101191	Spring	1		• 553-0039-02	• Grip L.H. Blue	1
8	551-0044-00	Lockout Bolt	1		• 553-0039-03	• Grip L.H. Green	1
9	516-0004-00	Latch Rod	1	20	516-0007-00	Ball Joint	1
10	530-0088-00	Broached Sleeve	1	21	041-0250-07	Nut	1
11	041-0010-02	Nut	2	22	040-0250-100	Screw	1
12	516-0002-00	Pivot Pin	1	23	045-0001-60	Washer	1
13	053-0114-00	Nyliner	2	24	551-0019-00	Pivot Shaft (530)	1
14	551-0012-00	Pivot Bracket	2		551-0019-01	Pivot Shaft (535)	1
15	040-0010-47	Screw	4	25	040-0250-73	Screw	2
16	553-0038-00	Grip Right Hand Assorted	1	26	016-0131-06	Bearing	2
	• 553-0038-01	• Grip R.H. Red	1	27	530-0214-00	Trend Release	1
	• 553-0038-02	• Grip R.H. Blue	1	28	040-0250-31	Screw	1
				29	551-0111-00	Plate	1
				30	041-0010-00	Nut	1
				31	045-0001-02	Washer	1

Always Specify Model & Serial Number

Trendelenburg Components

SECTION VI PARTS LIST



HA522200

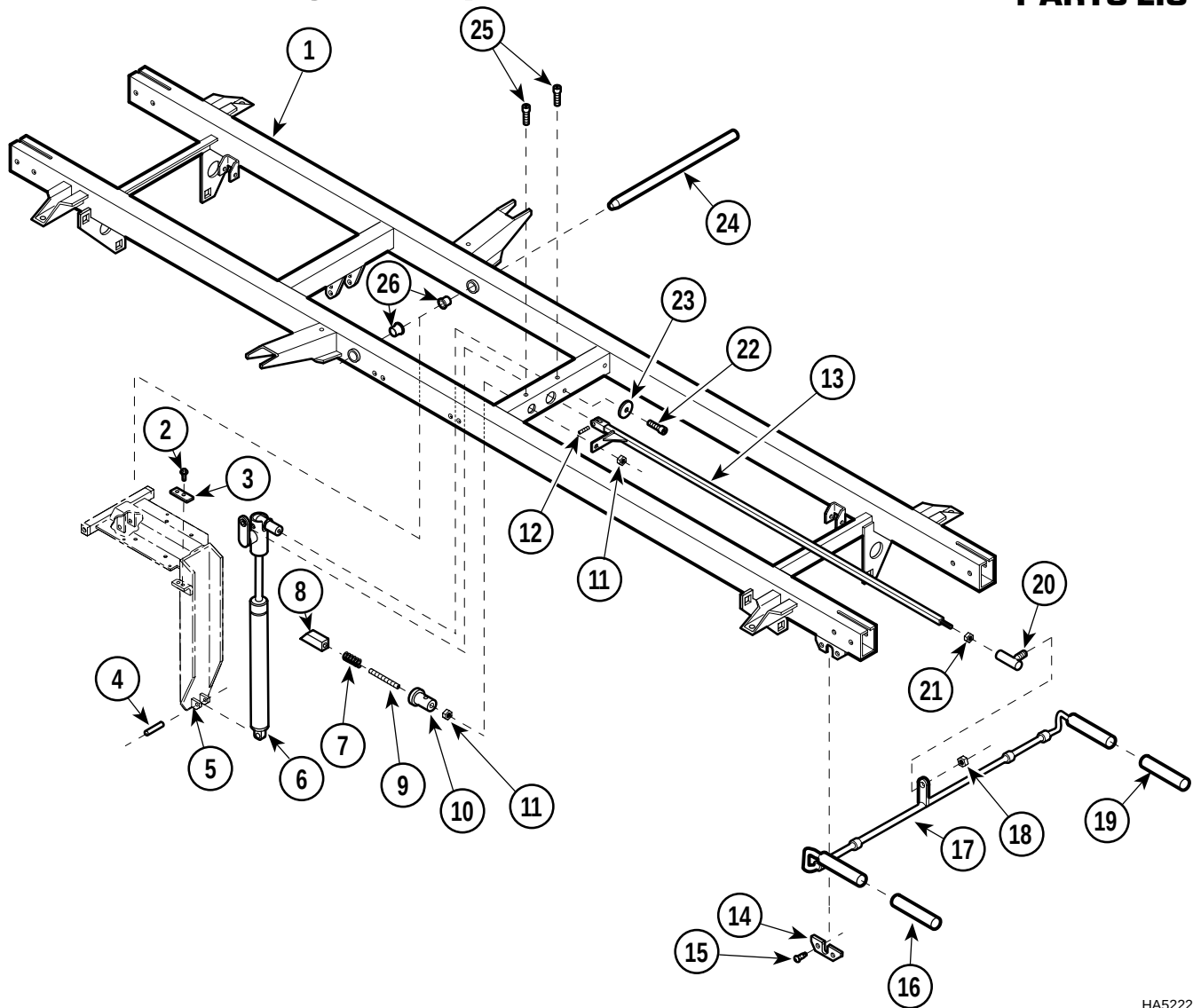
Used on Units with Serial Numbers: TAE-3911 thru 10358 TAF-2962 thru 8545

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Litter Frame	Ref		• 553-0038-02	• Grip R.H. Blue	1
2	040-0250-122	Screw	2		• 553-0038-03	• Grip R.H. Green	1
3	551-0015-00	Lockout Strike	1	17	530-0249-00	Trend Handle (530)	1
4	042-0011-03	Spirol Pin	1		530-0249-01	Trend Handle (535)	1
5		Pivot Plate (Refer to "Chassis Components" Elsewhere)	Ref	18	041-0250-08	Nut	1
6		Trend Actuator (Refer "Trendelenburg Actuator Components" Elsewhere) ...	Ref	19	553-0039-00	Grip Left Hand Assorted	1
7	K101191	Spring	1		• 553-0039-01	• Grip L.H. Red	1
8	551-0044-00	Lockout Bolt	1		• 553-0039-02	• Grip L.H. Blue	1
9	516-0004-00	Latch Rod	1		• 553-0039-03	• Grip L.H. Green	1
10	530-0088-00	Broached Sleeve	1	20	516-0007-00	Ball Joint	1
11	041-0010-02	Nut	2	21	041-0250-07	Nut	1
12	516-0002-00	Pivot Pin	1	22	040-0250-07	Screw	1
13	053-0114-00	Nyliner	2	23	045-0001-60	Washer	1
14	551-0012-00	Pivot Bracket	2	24	551-0019-00	Pivot Shaft (530)	1
15	040-0010-47	Screw	4		551-0019-01	Pivot Shaft (535)	1
16	553-0038-00	Grip Right Hand Assorted	1	25	040-0250-89	Screw	2
	• 553-0038-01	• Grip R.H. Red	1	26	016-0131-06	Bearing	2
				27	530-0214-00	Trend Release Tube	1

Always Specify Model & Serial Number

Trendelenburg Components

SECTION VI PARTS LIST



HA522203

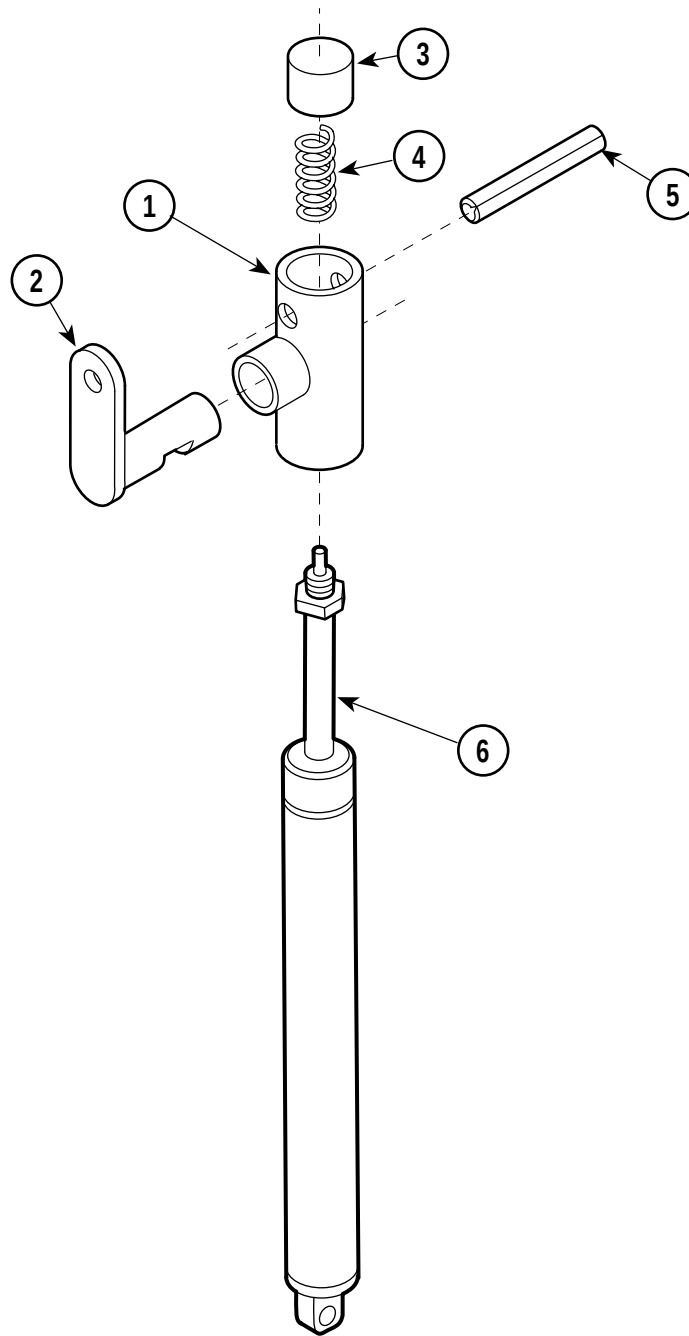
Used on Units with Serial Numbers: TAE-10359 thru Present TAF-8546 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Litter Frame	Ref		• 553-0038-01	• Grip R.H. Red	1
2	040-0250-122	Screw	2		• 553-0038-02	• Grip R.H. Blue	1
3	551-0015-00	Lockout Strike	1		• 553-0038-03	• Grip R.H. Green	1
4	042-0011-03	Spirol Pin	1	17	530-0662-10	Trend Handle (530)	1
5		Pivot Plate (Refer to "Chassis Components" Elsewhere)	Ref		530-0663-10	Trend Handle (535)	1
6		Trend Actuator (Refer to "Trendelenburg Actuator Components" Elsewhere)	1	18	041-0250-08	Nut	1
7	K101191	Spring	1	19	553-0039-00	Grip Left Hand Assorted	1
8	551-0044-00	Lockout Bolt	1		• 553-0039-01	• Grip L.H. Red	1
9	516-0004-00	Latch Rod	1		• 553-0039-02	• Grip L.H. Blue	1
10	530-0088-00	Broached Sleeve	1		• 553-0039-03	• Grip L.H. Green	1
11	041-0010-02	Nut	2	20	516-0007-00	Ball Joint	1
12	516-0002-00	Pivot Pin	1	21	041-0250-07	Nut	1
13	530-0214-00	Trend Release Tube	1	22	040-0250-07	Screw	1
14	551-0394-10	Pivot Bracket	2	23	045-0001-60	Washer	1
15	040-0010-47	Screw	4	24	551-0019-00	Pivot Shaft (530)	1
16	553-0038-00	Grip Right Hand Assorted	1		551-0019-01	Pivot Shaft (535)	1
				25	040-0250-88	Screw	2
				26	016-0131-06	Bearing	2

Always Specify Model & Serial Number

Trendelenburg Actuator Components

SECTION VI PARTS LIST



HA521901

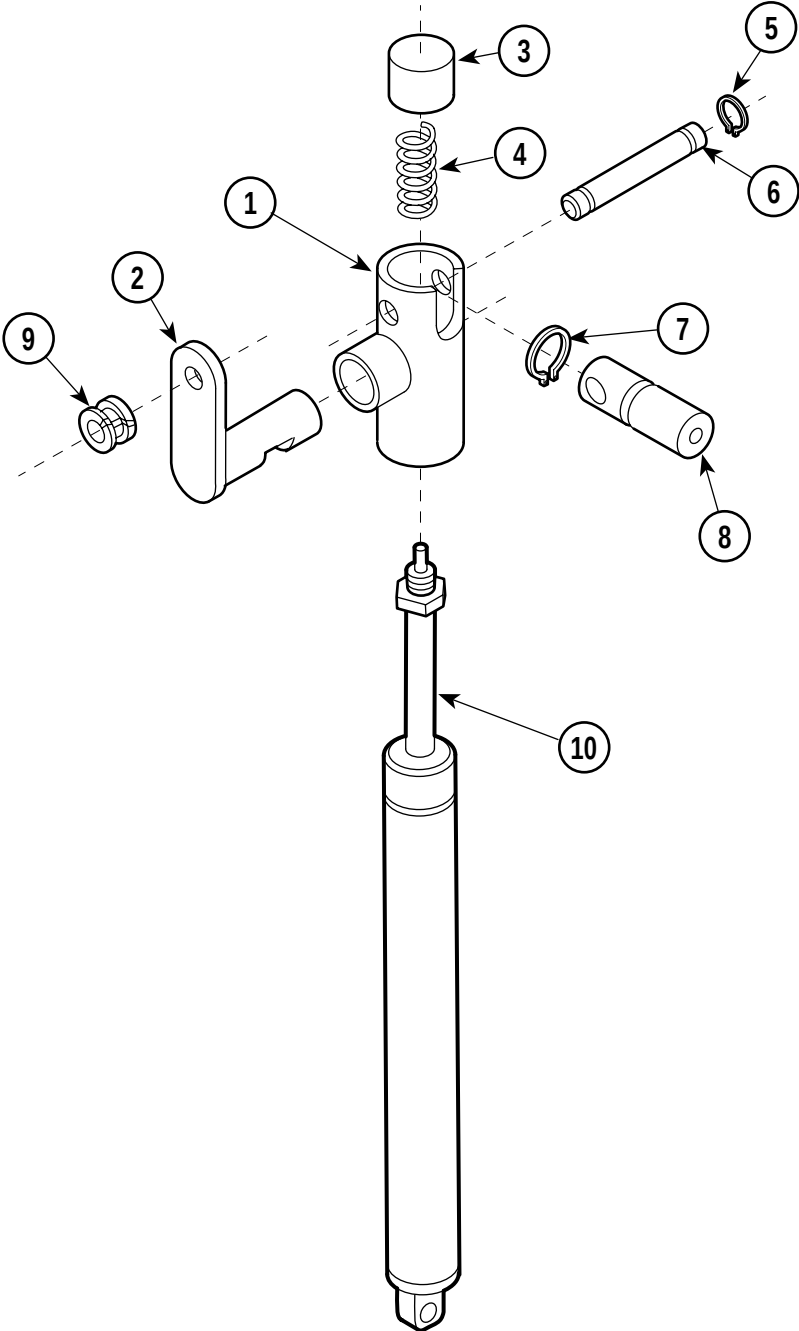
Used on Units with Serial Numbers: TAE-1000 thru TAE-2664 TAF-1000 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0017-01	Actuator Assembly		4	• 525-0001-00	• Spring	1
1	• 530-0008-00	• Trend Actuator Tube	1	5	• 042-0011-03	• Spirol Pin	1
2	• 530-0010-00	• Trend Actuator	1	6	K103132	Gas Spring	1
3	• 553-0005-00	• Piston	1				

Always Specify Model & Serial Number

Trendelenburg Actuator Components

SECTION VI PARTS LIST



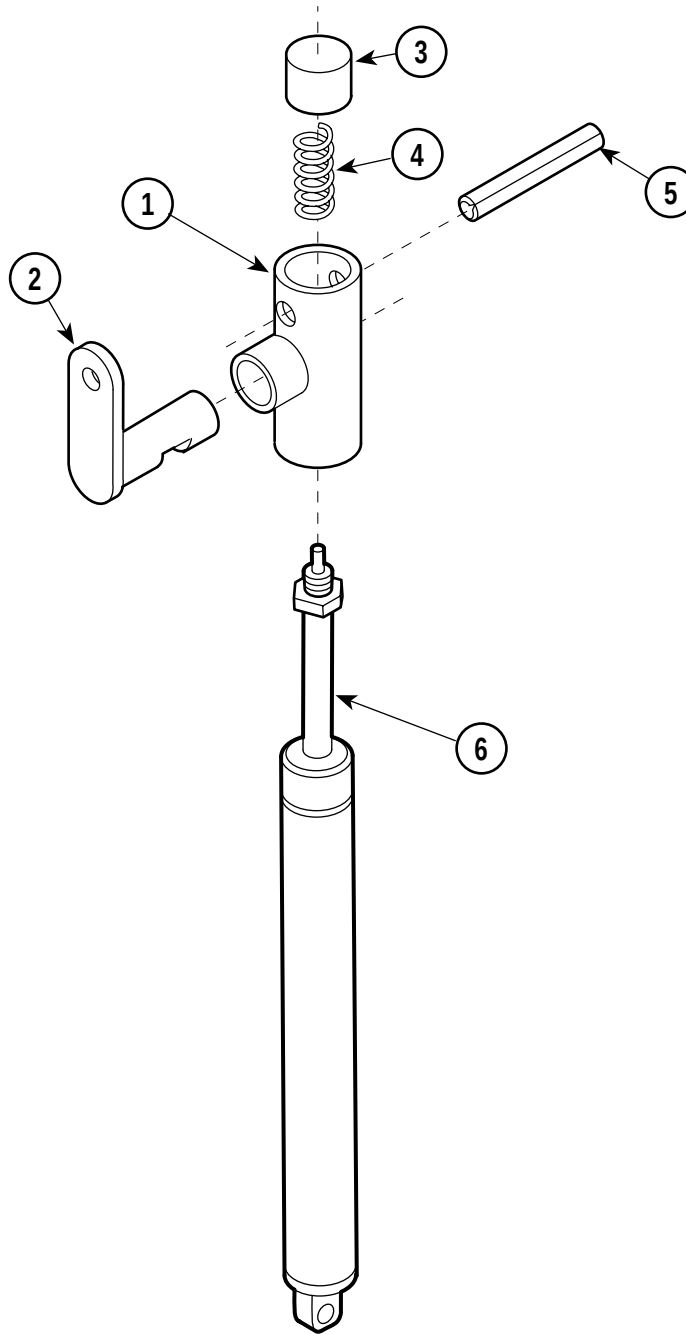
HA521902

Used on Units with Serial Numbers:
TAE-2665 thru TAE-2749 TAF-2327 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0087-00	Trend Actuator Assembly		6	• 042-0048-00	• Clevis Pin	1
1	• 530-0173-00	• Trend Actuator Tube	1	7	• 042-0056-02	• Retaining Ring	1
2	• 530-0010-00	• Trend Actuator	1	8	• 042-0082-00	• Trunnion Pin	1
3	• 553-0005-00	• Piston	1	9	• 053-0266-00	• Nyliner	1
4	• 525-0001-00	• Spring	1	10	K103132	Gas Spring	1
5	• 042-0007-05	• E-Ring	2				

Always Specify Model & Serial Number

Trendelenburg Actuator Components



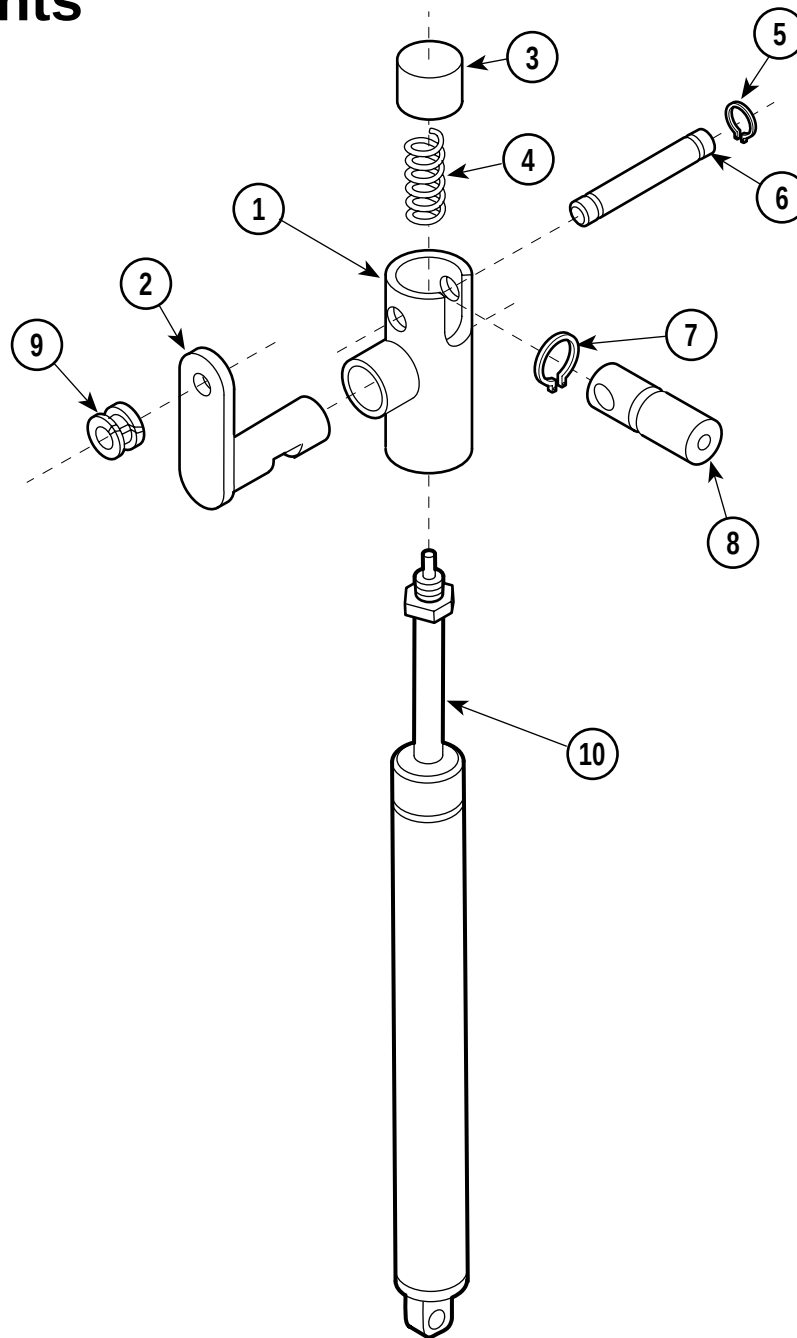
HA521901

Used on Units with Serial Numbers: TAE-2750 thru TAE-2999

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0017-01	Actuator Assembly		4	• 525-0001-00	• Spring	1
1	• 530-0008-00	• Trend Actuator Tube	1	5	• 042-0011-03	• Spirol Pin	1
2	• 530-0010-00	• Trend Actuator	1	6	K103132	Gas Spring	1
3	• 553-0005-00	• Piston	1				

Always Specify Model & Serial Number

Trendelenburg Actuator Components



HA521902

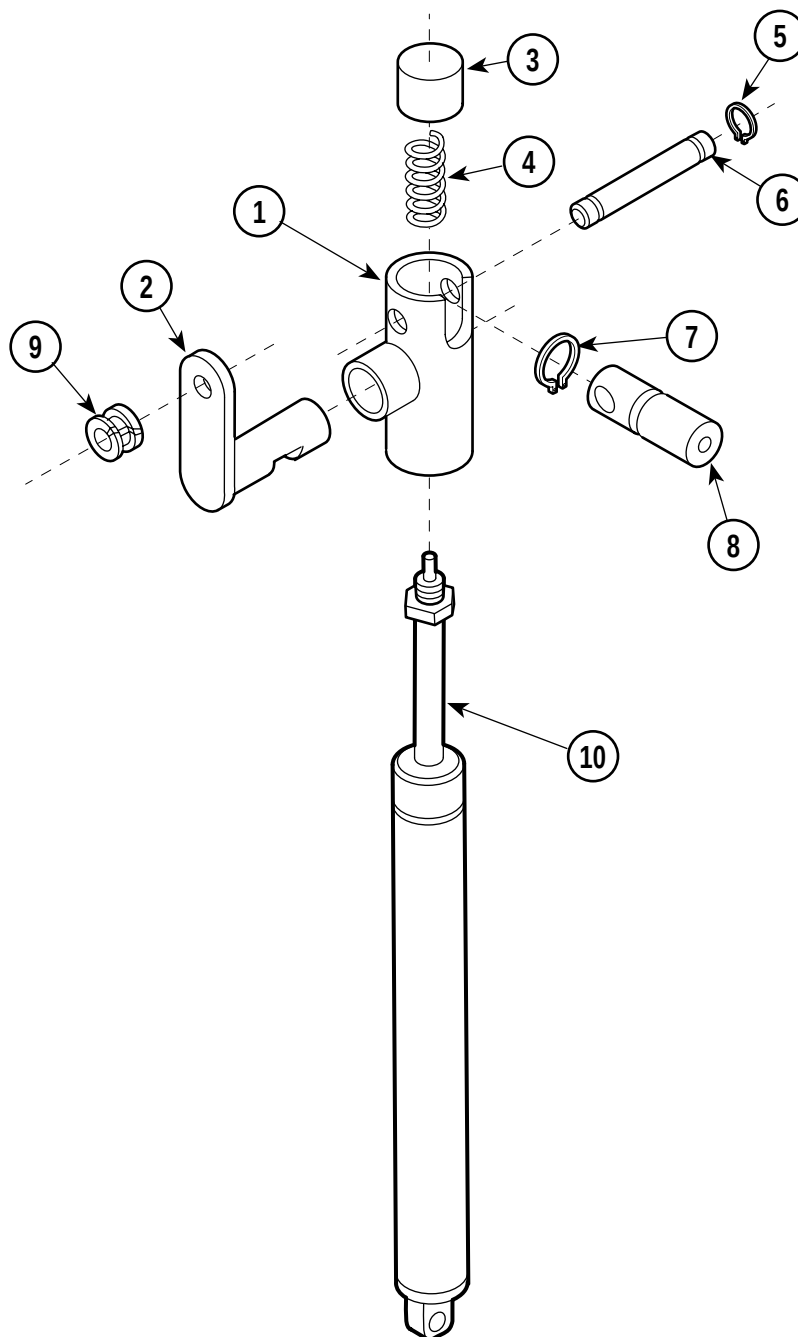
Used on Units with Serial Numbers: TAE-3000 thru TAE-3910

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0087-00	Trend Actuator Assembly		6	• 042-0048-00	• Clevis Pin	1
1	• 530-0173-00	• Trend Actuator Tube	1	7	• 042-0056-02	• Retaining Ring	1
2	• 530-0010-00	• Trend Actuator	1	8	• 042-0082-00	• Trunnion Pin	1
3	• 553-0005-00	• Piston	1	9	• 053-0266-00	• Nyliner	1
4	• 525-0001-00	• Spring	1	10	K103132	Gas Spring	1
5	• 042-0007-05	• E-Ring	2				

Always Specify Model & Serial Number

Trendelenburg Actuator Components

SECTION VI PARTS LIST



HA521900

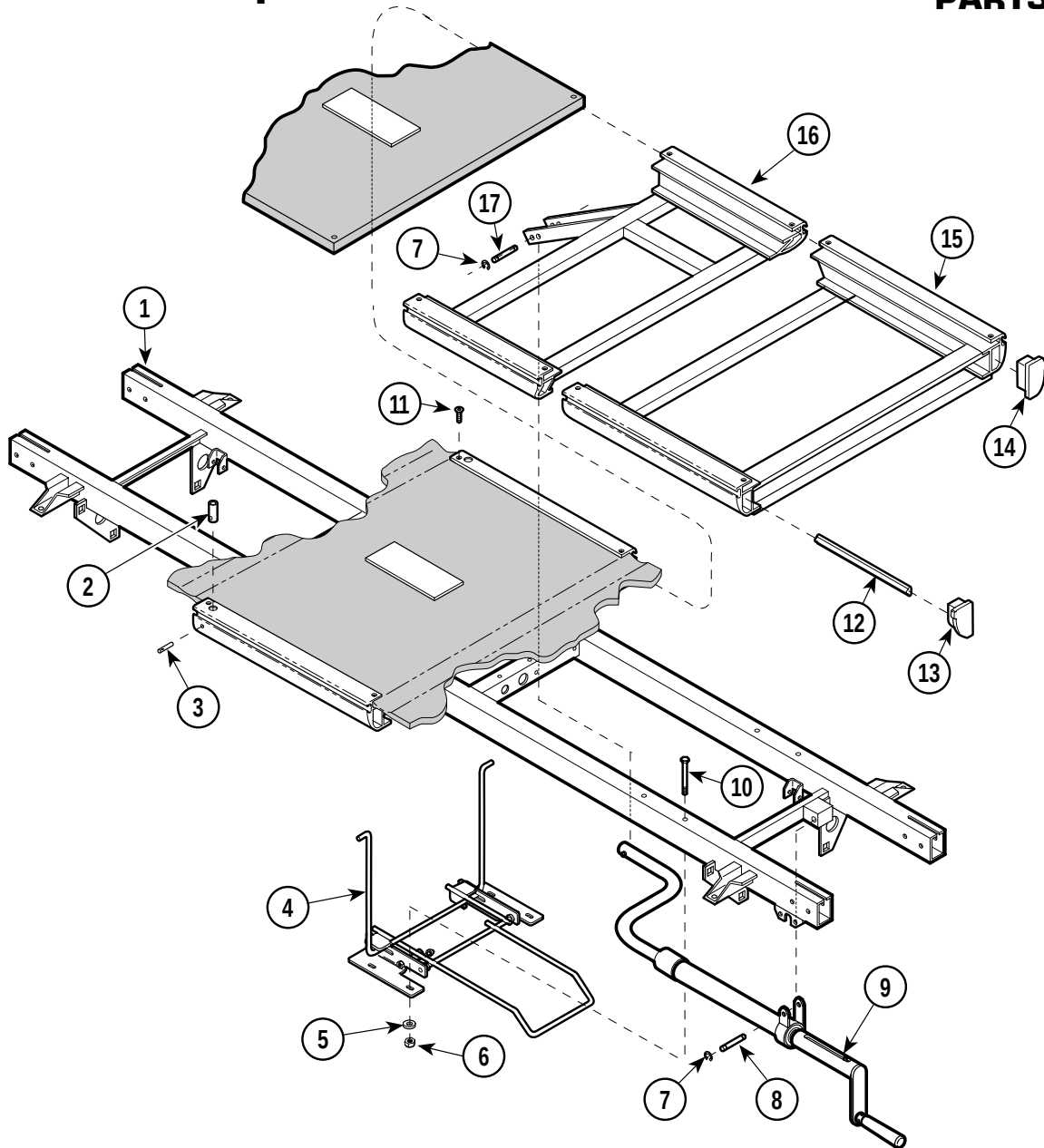
Used on Units with Serial Numbers: TAE-3911 thru Present TAF-2962 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0254-00	Actuator Assembly		6	• 042-0048-06	• Clevis Pin	1
1	• 530-0502-00	• Trend Actuator Tube	1	7	• 042-0056-02	• Retaining Ring	1
2	• 530-0501-00	• Trend Actuator	1	8	• 042-0082-00	• Trunnion Pin	1
3	• 553-0005-00	• Piston	1	9	053-0226-00	Nyliner	1
4	• 525-0001-00	• Spring	1	10	K103132	Gas Spring	1
5	• 042-0007-05	• E-Ring	2				

Always Specify Model & Serial Number

Knee Flex Components

SECTION VI PARTS LIST



HA522400

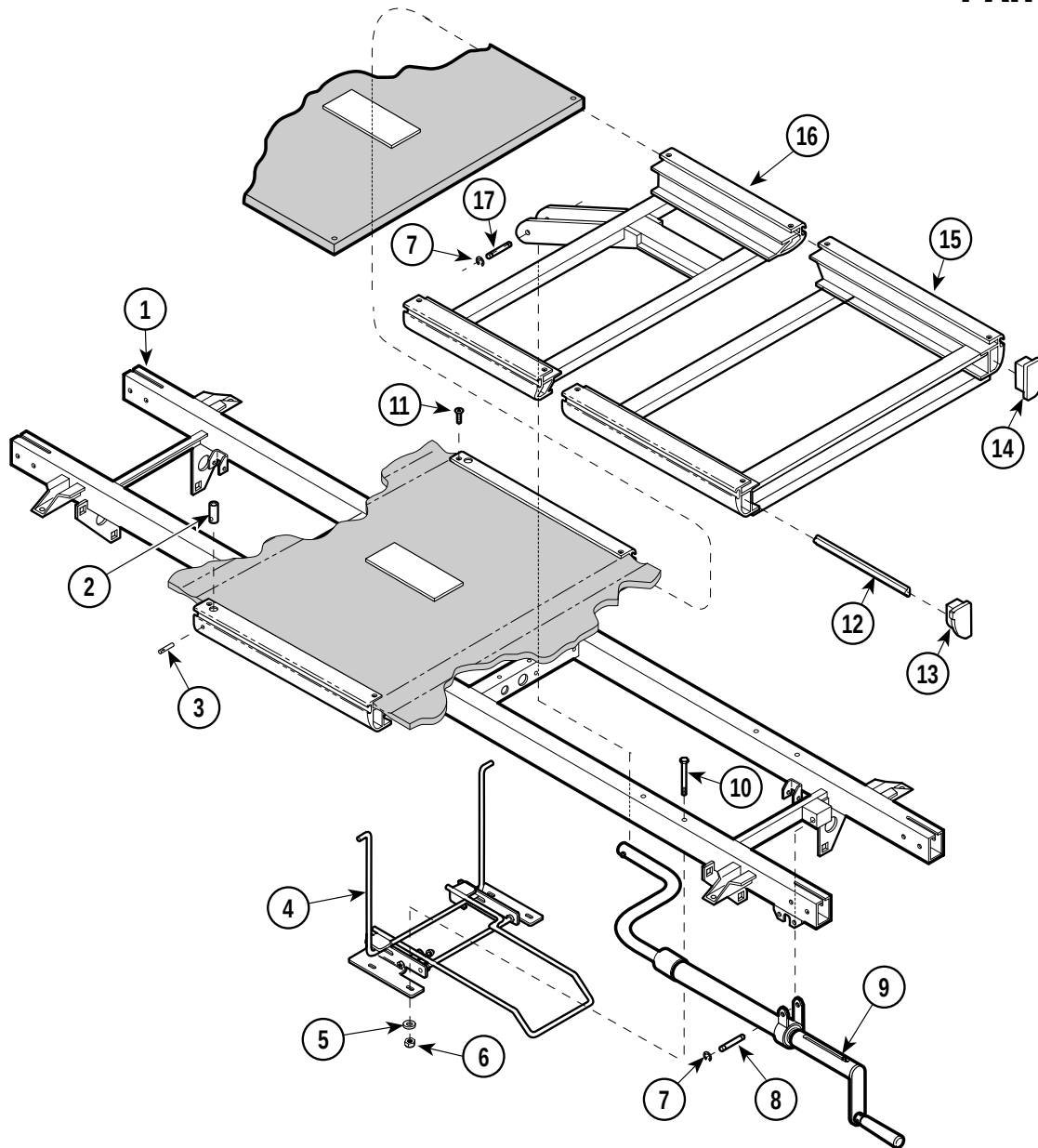
Used on Units with Serial Numbers: TAE-3911 thru TAE-10839 TAF-2962 thru TAF-9032

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Litter Frame (Refer to "Litter Components" Elsewhere)	Ref	10	040-0250-19	Bolt	4
2		I.V. Socket (Refer to "Litter Components" Elsewhere)	Ref	11	040-0250-97	Screw	8
3		Groove Pin (Refer to "Litter Components" Elsewhere)	Ref	12		Side Bumper Foot End (Refer to "Litter Components" Elsewhere)	Ref
4		Bail Catch (Refer to "Bail Catch Components" Elsewhere)	Ref	13		End Bumper Left Hand (Refer to "Litter Components" Elsewhere)	Ref
5	045-0001-03	Washer	4	14		End Bumper Right Hand (Refer to "Litter Components" Elsewhere)	Ref
6	K500067	Nut	4	15	530-0095-00	Foot Section (530)	
7	042-0063-00	Rue Ring	2		530-0095-01	Foot Section (535)	1
8	042-0005-05	Clevis Pin	1	16	530-0194-00	Thigh Section (530)	
9		Crank (Refer to "Knee Flex Crank Assembly" Elsewhere)	1		530-0194-01	Thigh Section (535)	1
				17	042-0005-10	Clevis Pin	1

Always Specify Model & Serial Number

Knee Flex Components

SECTION VI PARTS LIST



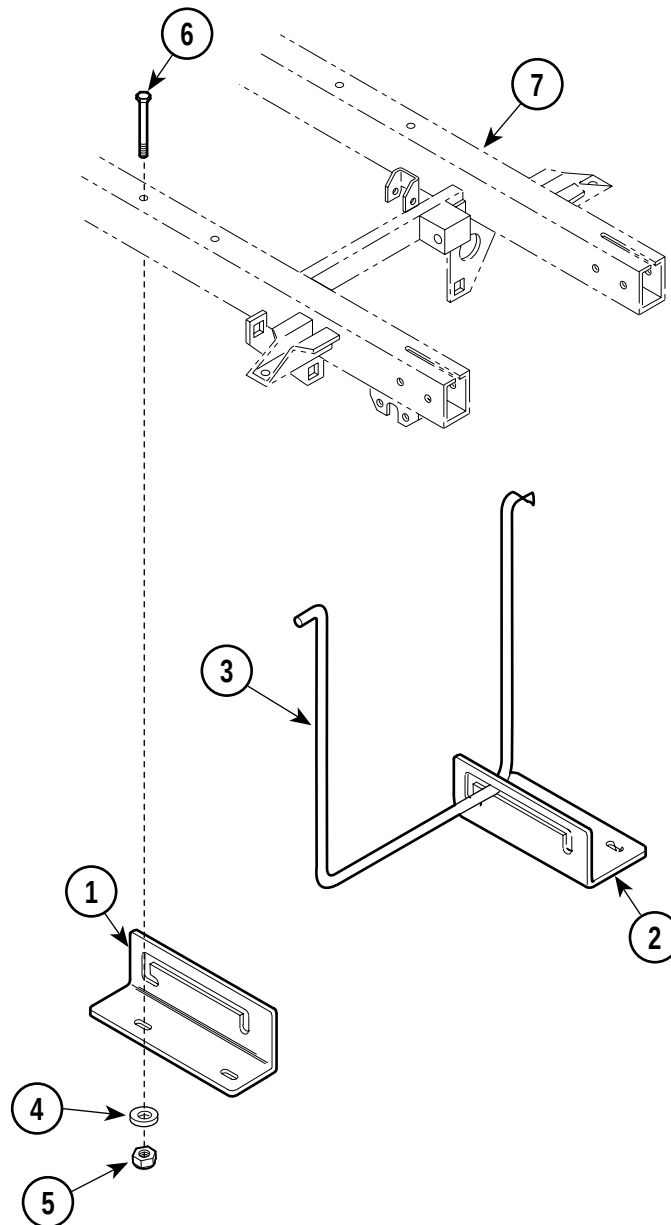
HA522401

Used on Units with Serial Numbers: TAE-10840 thru Present TAF-9033 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Litter Frame (Refer to "Litter Components" Elsewhere)	Ref	10	040-0250-19	Bolt	4
2		I.V. Socket (Refer to "Litter Components" Elsewhere)	Ref	11	040-0250-97	Screw	8
3		Groove Pin (Refer to "Litter Components" Elsewhere)	Ref	12		Side Bumper Foot End (Refer to "Litter Components" Elsewhere)	Ref
4		Bail Catch Components (See Breakdown Elsewhere)	Ref	13		End Bumper Left Hand (Refer to "Litter Components" Elsewhere)	Ref
5	045-0001-03	Washer	4	14		End Bumper Right Hand (Refer To "Litter Components" Elsewhere)	Ref
6	K500067	Nut	4	15	530-0095-00	Foot Section (530)	1
7	042-0063-00	Rue Ring	2	16	530-0095-01	Foot Section (535)	1
8	042-0005-05	Clevis Pin	1	17	530-0759-10	Thigh Section (530)	1
9		Crank Assembly	1		530-0760-10	Thigh Section (535)	1
					042-0005-10	Clevis Pin	1

Always Specify Model & Serial Number

Bail Catch Components



HA522301

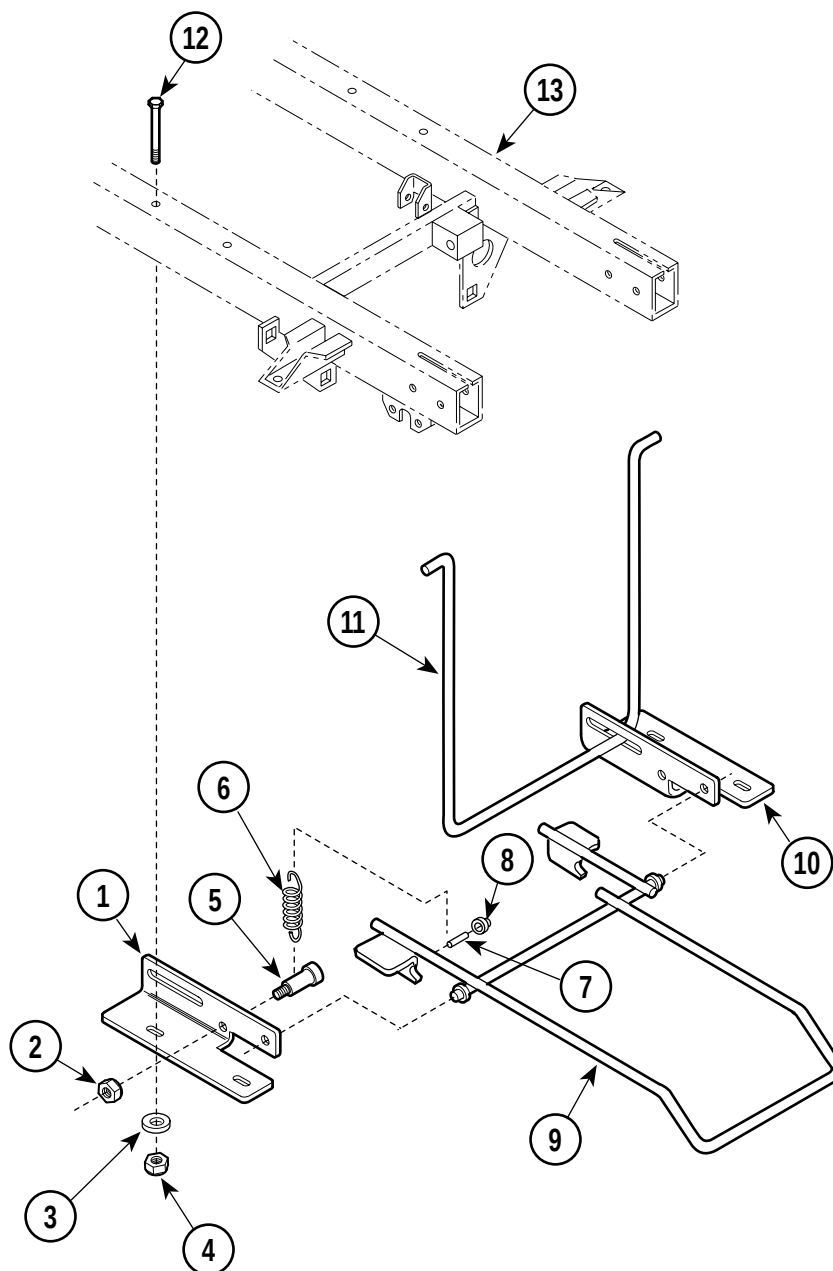
Used on Units with Serial Numbers: TAE-1000 thru 3910 TAF-1000 thru 2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	550-0096-00	Bail Bracket Right Hand	1	5		Nut (Refer to "Knee Flex Components" Elsewhere)	Ref
2	550-0096-01	Bail Bracket Left Hand	1	6		Bolt (Refer to "Knee Flex Components" Elsewhere)	Ref
3	551-0063-00	Bail (530)	1	7		Litter Frame (Refer to "Litter Components" Elsewhere)	Ref
4	557-0085-00	Bail (535)	1				
		Washer (Refer to "Knee Flex Compon- ents" Elsewhere)	Ref				

Always Specify Model & Serial Number

Bail Catch Components

SECTION VI PARTS LIST



HA522300

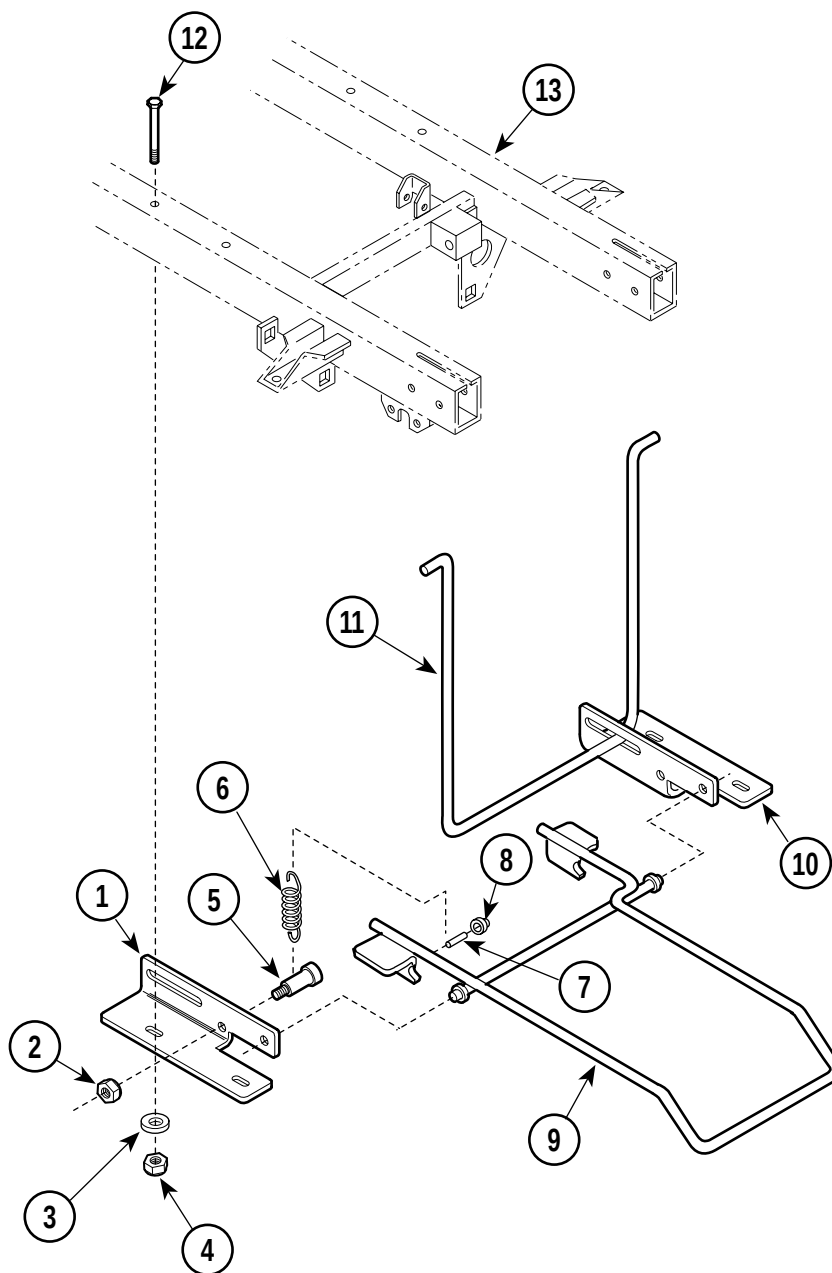
Used on Units with Serial Numbers: TAE-3911 thru TAE-10839 TAF-2962 thru TAF-9032

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	550-0187-00	Bail Bracket Right Hand	1	9	530-0247-00	Bail Catch (530)	
2	K500067	Nut	1		530-0248-00	Bail Catch (535)	1
3		Washer (Refer to "Knee Flex Components" Elsewhere)	Ref	10	550-0187-01	Bail Bracket Left Hand	1
4		Nut (Refer to "Knee Flex Components" Elsewhere)	Ref	11	557-0133-00	Bail (530)	
5	040-0250-71	Shoulder Screw	1		557-0134-00	Bail (535)	1
6	525-0014-00	Spring	1	12		Bolt (Refer to "Knee Flex Components" Elsewhere)	Ref
7	042-0046-00	Groove Pin	1	13		Litter Frame (Refer to "Litter Components" Elsewhere)	Ref
8	041-0009-00	Push Nut	1				

Always Specify Model & Serial Number

Bail Catch Components

SECTION VI PARTS LIST



HA522302

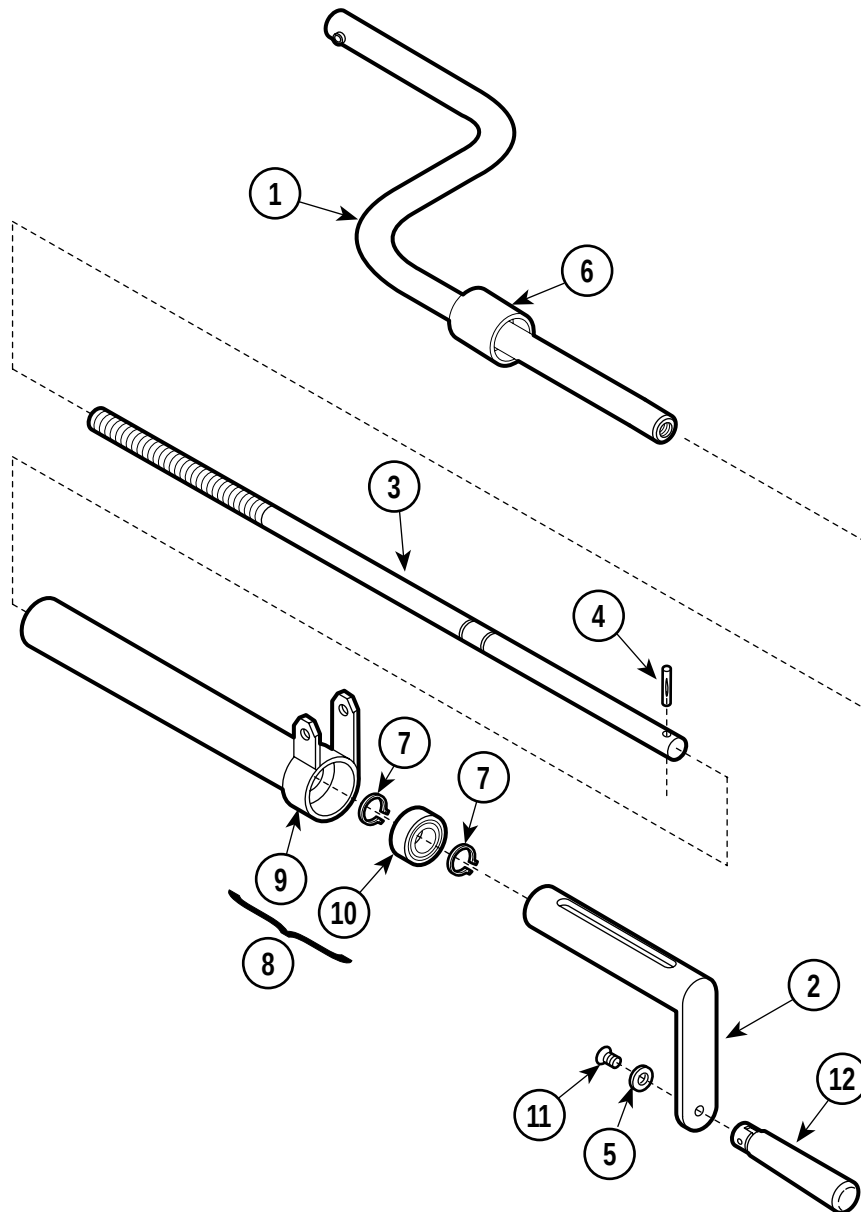
Used on Units with Serial Numbers: TAE-10840 thru Present TAF-9033 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	550-0187-00	Bail Bracket Right Hand	1	9	530-0757-00	Bail Catch (530)	
2	K500067	Nut	1		530-0758-00	Bail Catch (535)	1
3		Washer (Refer to "Knee Flex Components" Elsewhere)	Ref	10	550-0187-01	Bail Bracket Left Hand	1
4		Nut (Refer to "Knee Flex Components" Elsewhere)	Ref	11	557-0133-00	Bail (530)	
5	040-0250-71	Shoulder Screw	1		557-0134-00	Bail (535)	1
6	525-0014-00	Spring	1	12		Bolt (Refer to "Knee Flex Components" Elsewhere)	Ref
7	042-0046-00	Groove Pin	1	13		Litter Frame (Refer to "Litter Components" Elsewhere)	Ref
8	041-0009-00	Push Nut	1				

Always Specify Model & Serial Number

Knee-Flex Crank Assembly

SECTION VI PARTS LIST



HA522101

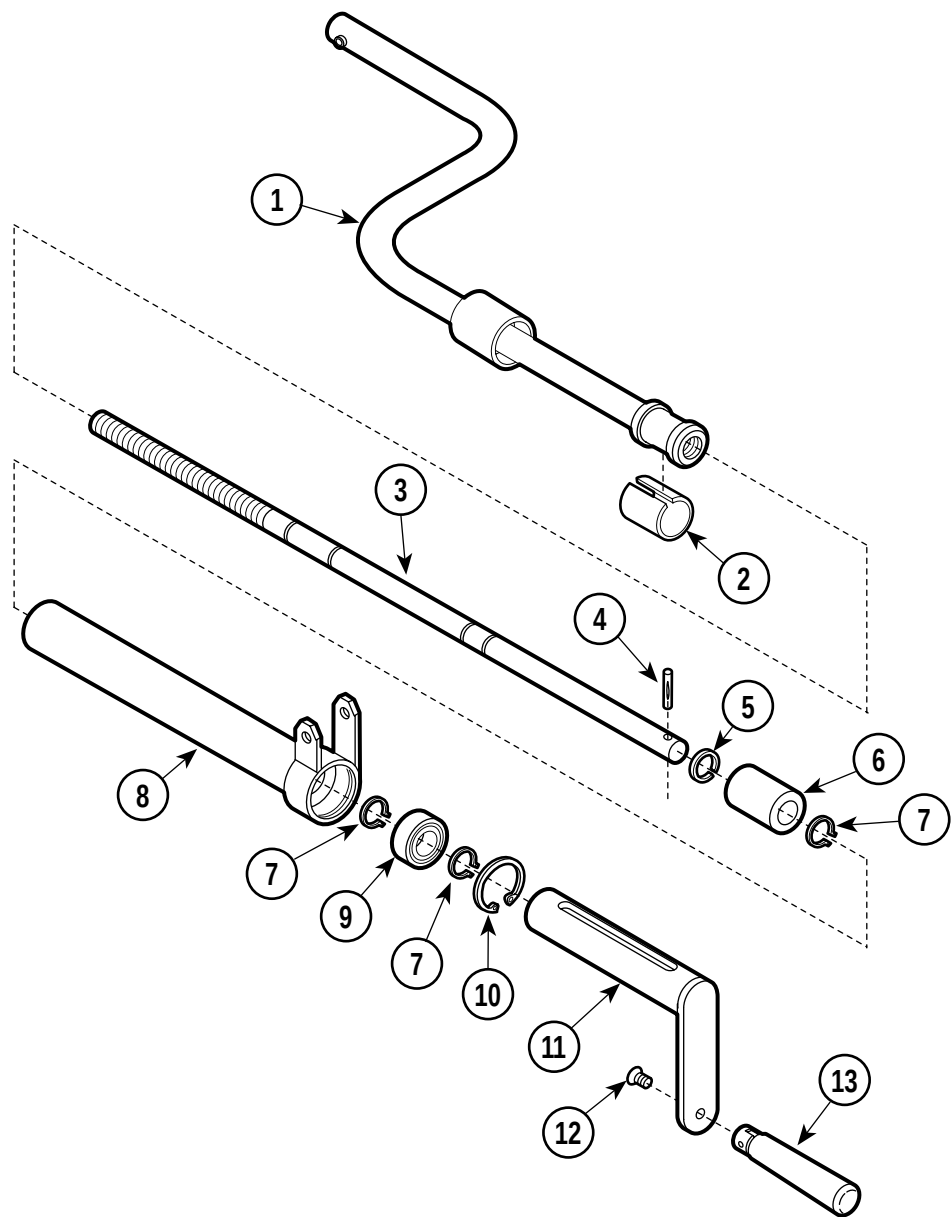
Used on Units with Serial Numbers: TAE-1000 thru 3910 TAF-1000 thru 2979

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0043-00	Knee-Flex Crank Assembly		7	• 042-0007-02	• Retaining Ring	2
1	• 530-0091-00	• Inner Tube	1	8	• 502-0020-00	• Bearing Kit	1
2	• 520-0014-00	• Crank	1	9	• 530-0220-00	• Outer Tube	1
3	• 551-0057-00	• Shaft	1	10	• • K101827	• Bearing	1
4	• 042-0011-02	• Spirol Pin	1	11	• 042-0062-02	• Screw	1
5	• K990132	• Washer	1	12	• 516-0041-00	• Handle	1
6	• 553-0049-00	• Bearing End Cap	1				

Always Specify Model & Serial Number

Knee-Flex Crank Assembly

SECTION VI PARTS LIST



HA522100

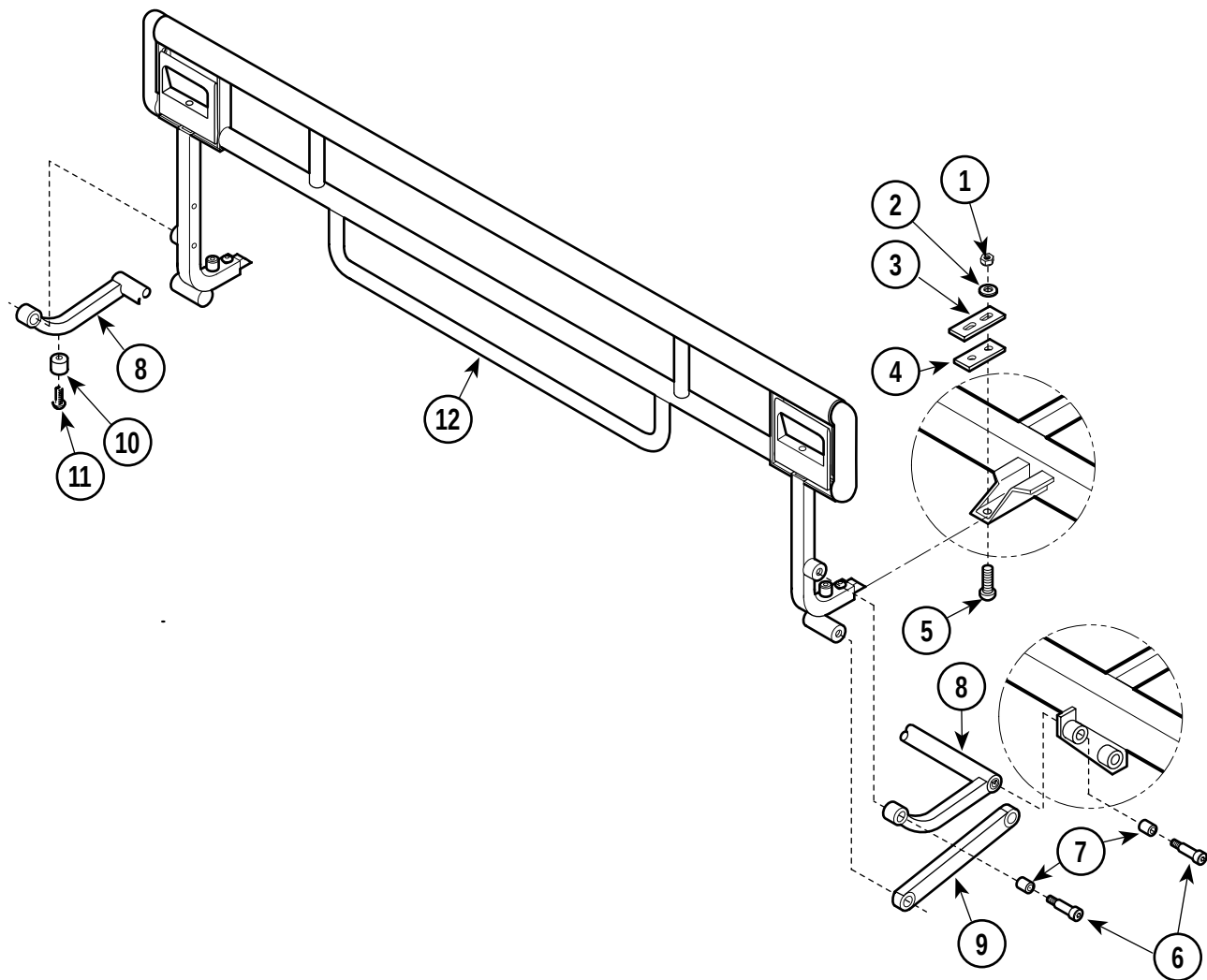
Used on Units with Serial Numbers: TAE-3911 thru Present TAF-2980 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0099-00	Knee-Flex Crank Assembly		7	• 042-0056-03	• Retaining Ring	3
1	• 530-0231-00	• Inner Tube	1	8	• 530-0232-00	• Outer Tube	1
2	• 053-0250-01	• Nyliner Bearing	1	9	• 516-0089-00	• Bearing	1
3	• 557-0126-00	• Shaft	1	10	• 016-0299-02	• Retaining Ring	1
4	• 042-0043-06	• Groove Pin	1	11	• 530-0250-00	• Crank	1
5	• 042-0066-00	• Crescent Ring	1	12	• 042-0062-04	• Screw	1
6	• 552-0219-00	• Spacer	1	13	• 516-0041-00	• Handle	1

Always Specify Model & Serial Number

Siderail Linkage Components

SECTION VI PARTS LIST



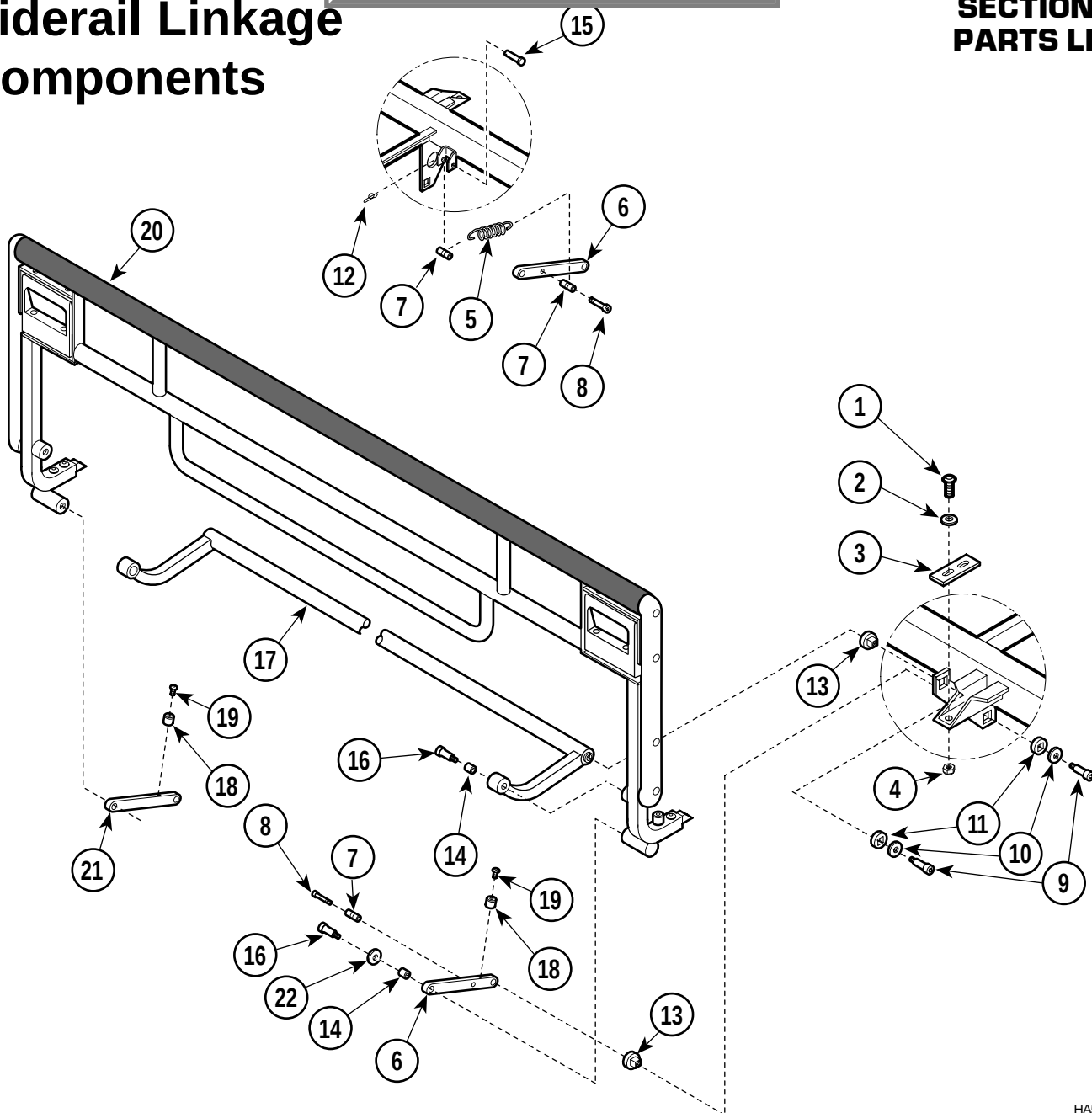
HA518001

Used on Units with Serial Numbers: TAE-1000 thru 3801 TAF-1000 thru 2855

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	041-0001-02	Nut	8	8	530-0001-00	Upper Link	2
2	045-0001-15	Washer	8	9	530-0002-00	Lower Link	4
3	551-0017-00	Plate, Latch	4	10	053-0020-00	Bumper	4
4	550-0008-00	Shim	A/R	11	040-0008-04	Screw	4
5	040-0010-70	Screw	8	12		Siderail Assembly (See Breakdown Elsewhere)	2
6	042-0014-19	Shoulder Bolt	8				
7	053-0250-00	Nylon Bearing	8				

Always Specify Model & Serial Number

Siderail Linkage Components



HA518004

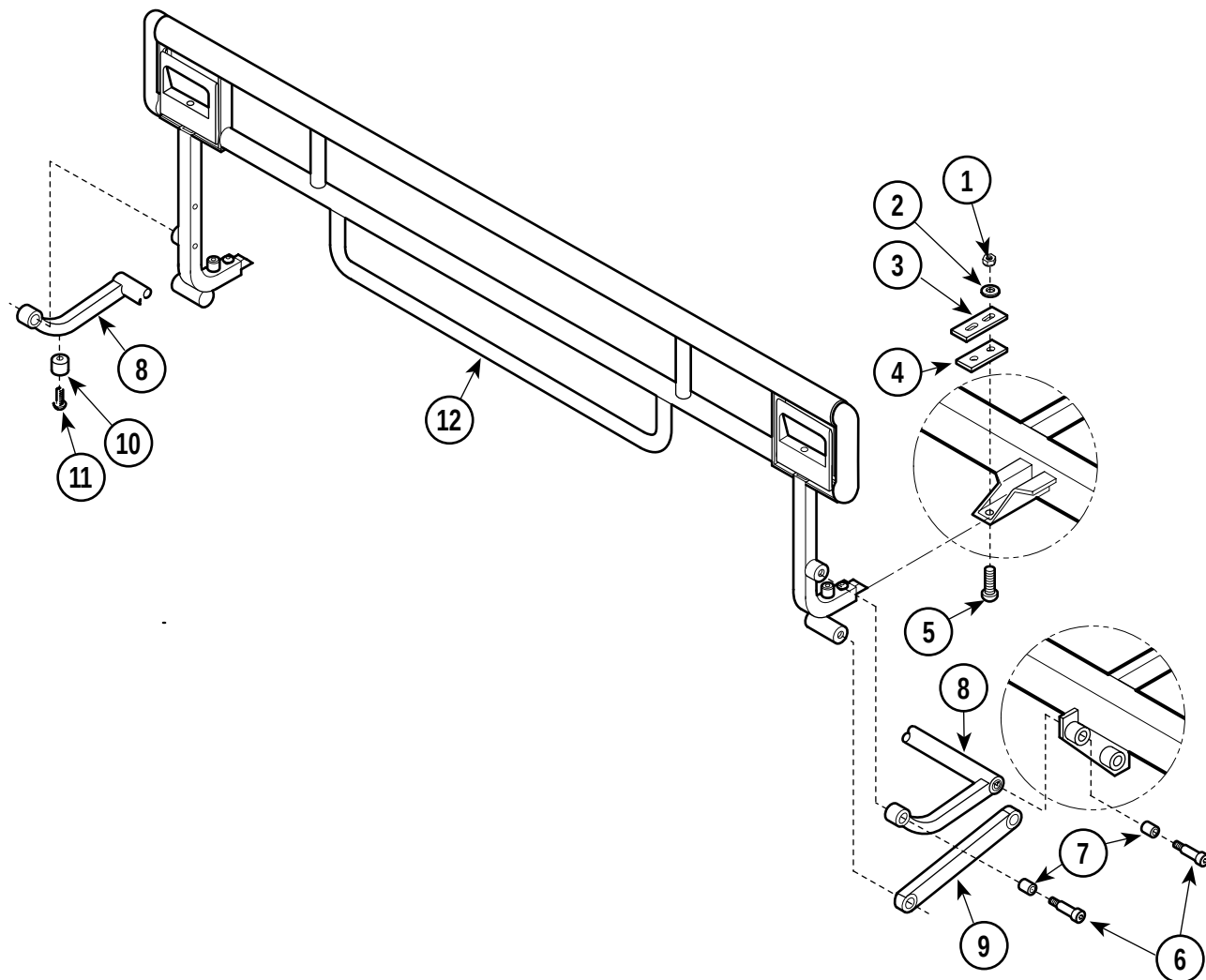
Used on Units with Serial Numbers: TAE-3802 thru 3812 TAF-2855 thru 2861

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	040-0010-12	Screw	8	14	016-0076-00	Bearing	4
2	045-0001-15	Washer	8	15	042-0602-09	Pin, Clevis	2
3	551-0017-00	Plate, Latch	4	16	551-0699-00	Bolt	4
4	041-0010-02	Nut, Lock	8	17	530-0557-00	Link (With Hole)	2
5	525-0013-00	Spring	2	18	053-0020-00	Bumper	4
6	521-0034-11	Link (With Hole)	2	19	040-0010-45	Washer	4
7	553-0213-00	Roller, Spring	4	20		Side Rail Assembly, Standard (See Breakdown Elsewhere) Shown	2
8	042-0014-37	Screw	2			Side Rail Assembly, High (See Breakdown Elsewhere)	2
9	042-0014-19	Bolt, Shoulder	4	21	521-0034-10	Link (Without Hole)	2
10	045-0001-51	Washer	4	22	551-0699-00	Spacer	4
11	553-0074-00	Bearing, Pivot (Female)	4				
12	042-0063-00	Ring, Rue	2				
13	553-0073-00	Bearing, Pivot (Male)	4				

Always Specify Model & Serial Number

Siderail Linkage Components

SECTION VI PARTS LIST



HA518001

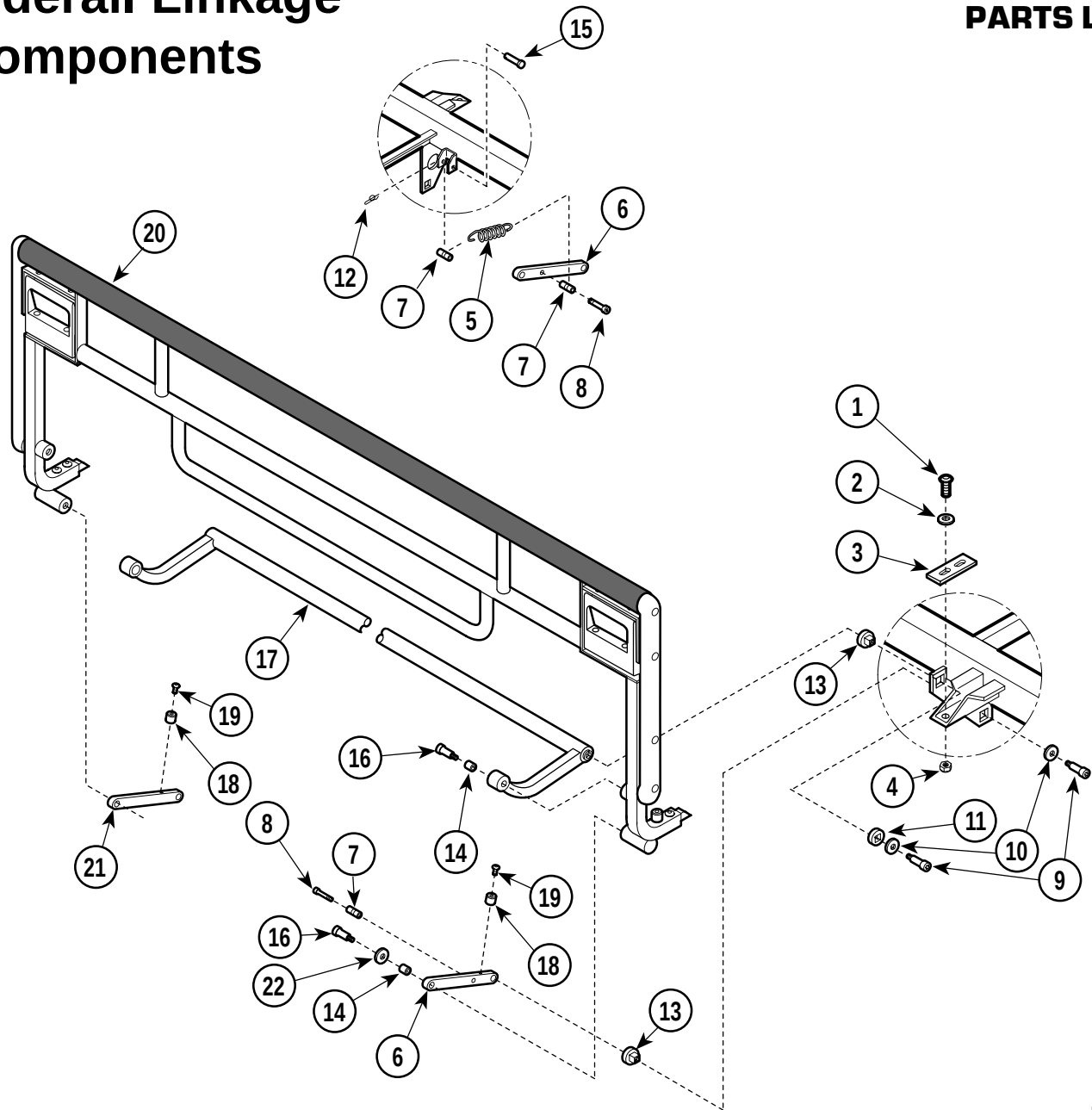
Used on Units with Serial Numbers: TAE-3813 thru 3910 TAF-2861 thru 2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	041-0001-02	Nut	8	8	530-0001-00	Upper Link	2
2	045-0001-15	Washer	8	9	530-0002-00	Lower Link	4
3	551-0017-00	Plate, Latch	4	10	053-0020-00	Bumper	4
4	550-0008-00	Shim	A/R	11	040-0008-04	Screw	4
5	040-0010-70	Screw	8	12		Siderail Assembly (See Breakdown Elsewhere)	2
6	042-0014-19	Shoulder Bolt	8				
7	053-0250-00	Nylon Bearing	8				

Always Specify Model & Serial Number

Siderail Linkage Components

SECTION VI PARTS LIST



HA518005

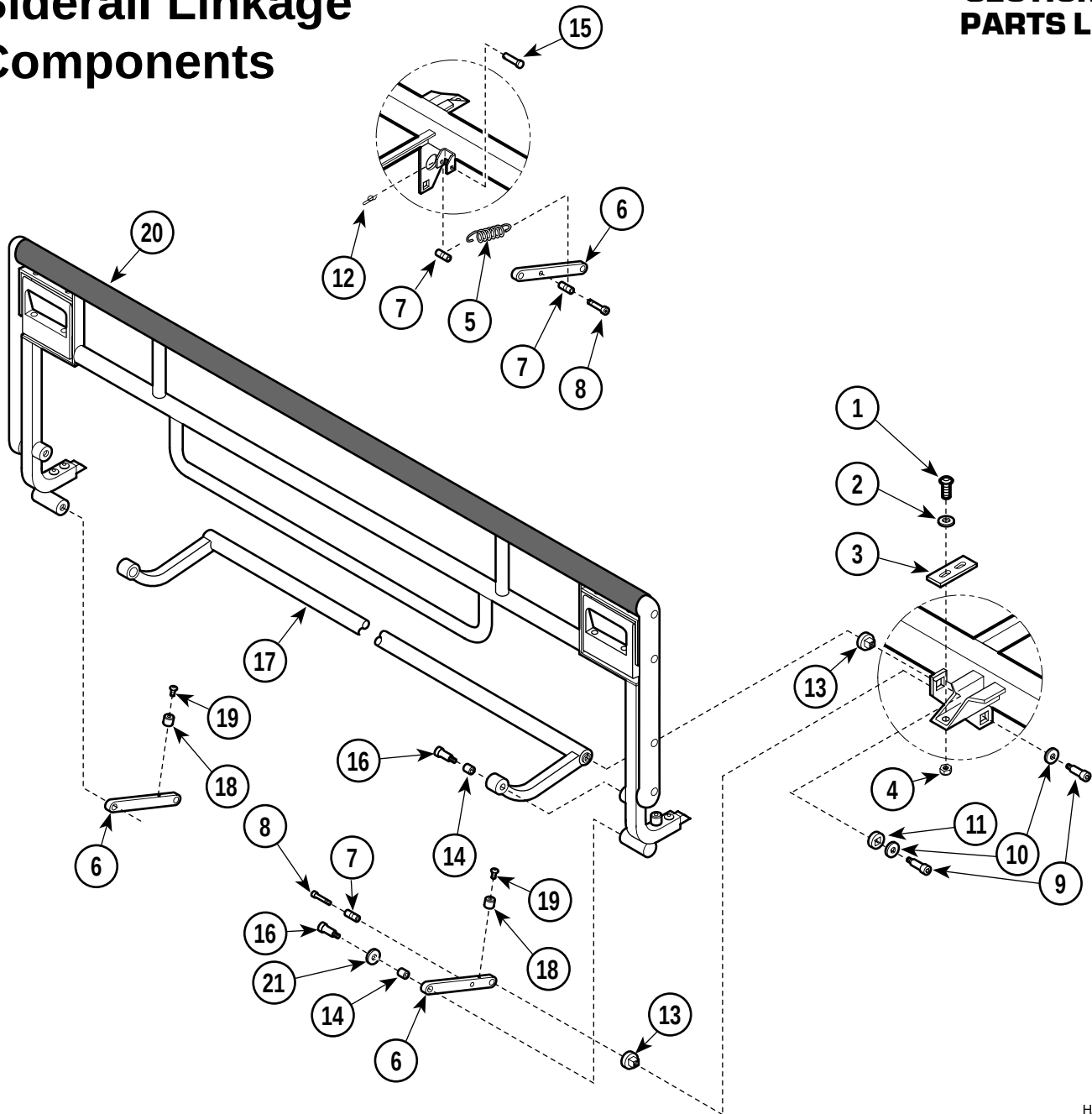
Used on Units with Serial Numbers:
TAE-3911 thru TAE-11761 TAF-2962 thru TAF-10229

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	040-0010-12	Screw	8	14	016-0076-00	Bearing	4
2	045-0001-15	Washer	8	15	042-0602-09	Pin, Clevis	2
3	551-0017-00	Plate, Latch	4	16	040-0375-65	Bolt	4
4	041-0010-02	Nut, Lock	8	17	530-0557-00	Link (With Hole)	2
5	525-0013-00	Spring	2	18	053-0020-00	Bumper	4
6	521-0034-11	Link (With Hole)	2	19	040-0010-45	Washer	4
7	553-0213-00	Roller, Spring	4	20		Side Rail Assembly, Standard (See Breakdown Elsewhere) Shown	2
8	042-0014-37	Screw	2			Side Rail Assembly, High (See Breakdoen Elsewhere)	2
9	042-0014-19	Bolt, Shoulder	4	21	521-0034-10	Link (Without Hole)	2
10	045-0001-51	Washer	4	22	551-0699-00	Spacer	4
11	553-0074-00	Bearing, Pivot (Female)	2				
12	042-0063-00	Ring, Rue	2				
13	553-0073-00	Bearing, Pivot (Male)	4				

Always Specify Model & Serial Number

Siderail Linkage Components

SECTION VI PARTS LIST



HA518006

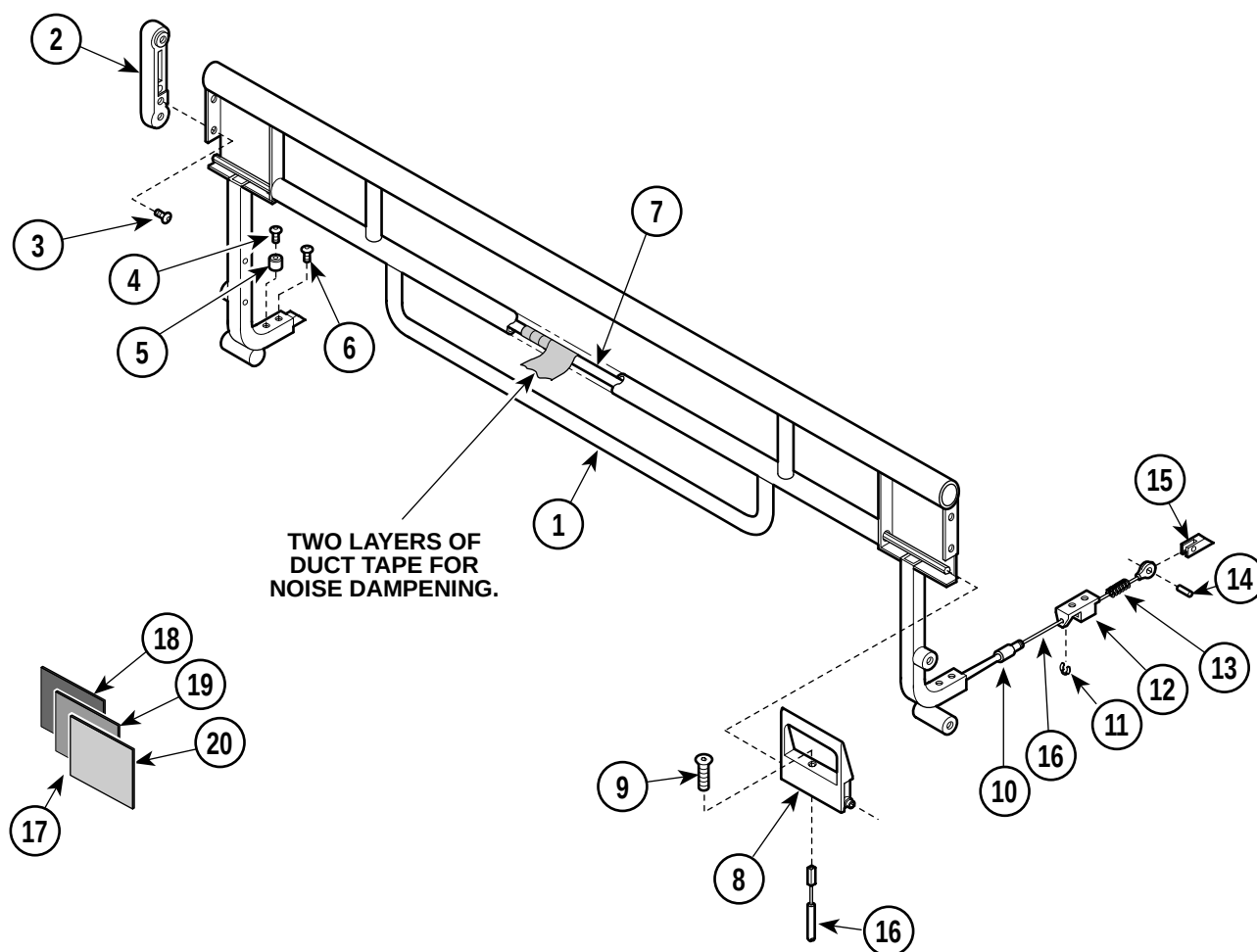
Used on Units with Serial Numbers:
TAE-11762 thru Present TAF-10230 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	040-0010-12	Screw	8	13	553-0073-00	Bearing, Pivot (Male)	4
2	045-0001-15	Washer	8	14	016-0076-00	Bearing	4
3	551-0017-00	Plate, Latch	4	15	042-0602-09	Pin, Clevis	2
4	041-0010-02	Nut, Lock	8	16	040-0375-65	Bolt, Shoulder	4
5	525-0013-00	Spring	2	17	530-0557-00	Link (With Hole)	2
6	521-0087-10	Lower Link	4	18	053-0020-00	Bumper	4
7	553-0213-00	Roller, Spring	4	19	040-0010-45	Washer	4
8	042-0014-37	Screw	2	20		Side Rail Assembly, Standard (See Breakdown Elsewhere) Shown	2
9	042-0014-19	Bolt, Shoulder	4			Side Rail Assembly, High (See Breakdown Elsewhere)	2
10	045-0001-51	Washer	4	21	551-0699-00	Spacer	4
11	553-0074-00	Bearing, Pivot (Female)	2				
12	042-0063-00	Ring, Rue	2				

Always Specify Model & Serial Number

Siderail Assembly

SECTION VI PARTS LIST



HA517801

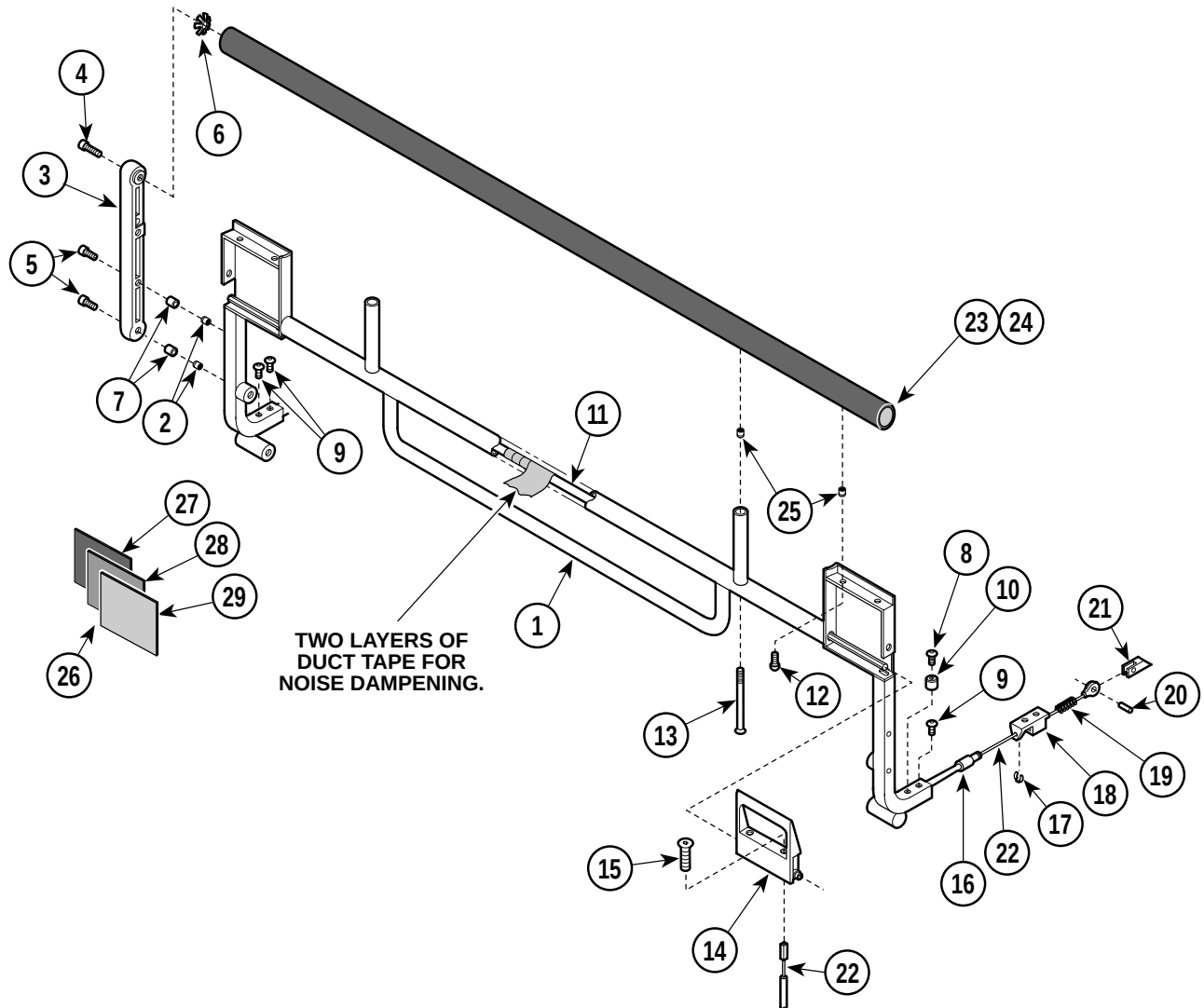
Used on Units with Serial Numbers: TAE-1000 thru 3801 TAF-1000 thru 2855

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	502-0023-00	Siderail Kit Standard	1	9	• 040-0008-35	• Screw	2
	502-0023-01	Siderail Kit High Mid Length		10	• 529-0020-00	• Siderail Latch Assembly	2
	502-0023-02	Siderail Kit High Full Length		11	• • 042-0065-00	• Klipping	1
	• 530-0155-00	• Siderail Kit Standard		12	• • 520-0003-00	• Lockout Body	1
2	• 530-0156-00	• Siderail Kit High Mid Length	2	13	• • K101191	• Spring	1
	• 530-0157-00	• Siderail Kit High Full Length		14	• • 042-0001-15	• Roll Pin	1
3	• 553-0001-00	• End Cap	2	15	• • 520-0004-00	• Latch Bolt	1
4	• 040-0250-08	• Screw	4	16	• • 516-0005-00	• Cable Assembly	1
5	• 040-0010-23	• Screw	2	17	• 561-0012-00	• Color Code Label Assorted	2
6	• K904003	• Bumper	2	18	• • 561-0012-01	• Color Code Label (Red)	2
7	• 040-0010-21	• Screw	2	19	• • 561-0012-02	• Color Code Label (Blue)	2
8	• 530-0087-00	• Release Shaft	2	20	• • 561-0012-03	• Color Code Label (Green)	2
	• 553-0007-00	• Handle	2				

Always Specify Model & Serial Number

Siderail Assembly (Standard)

SECTION VI PARTS LIST



HA517800

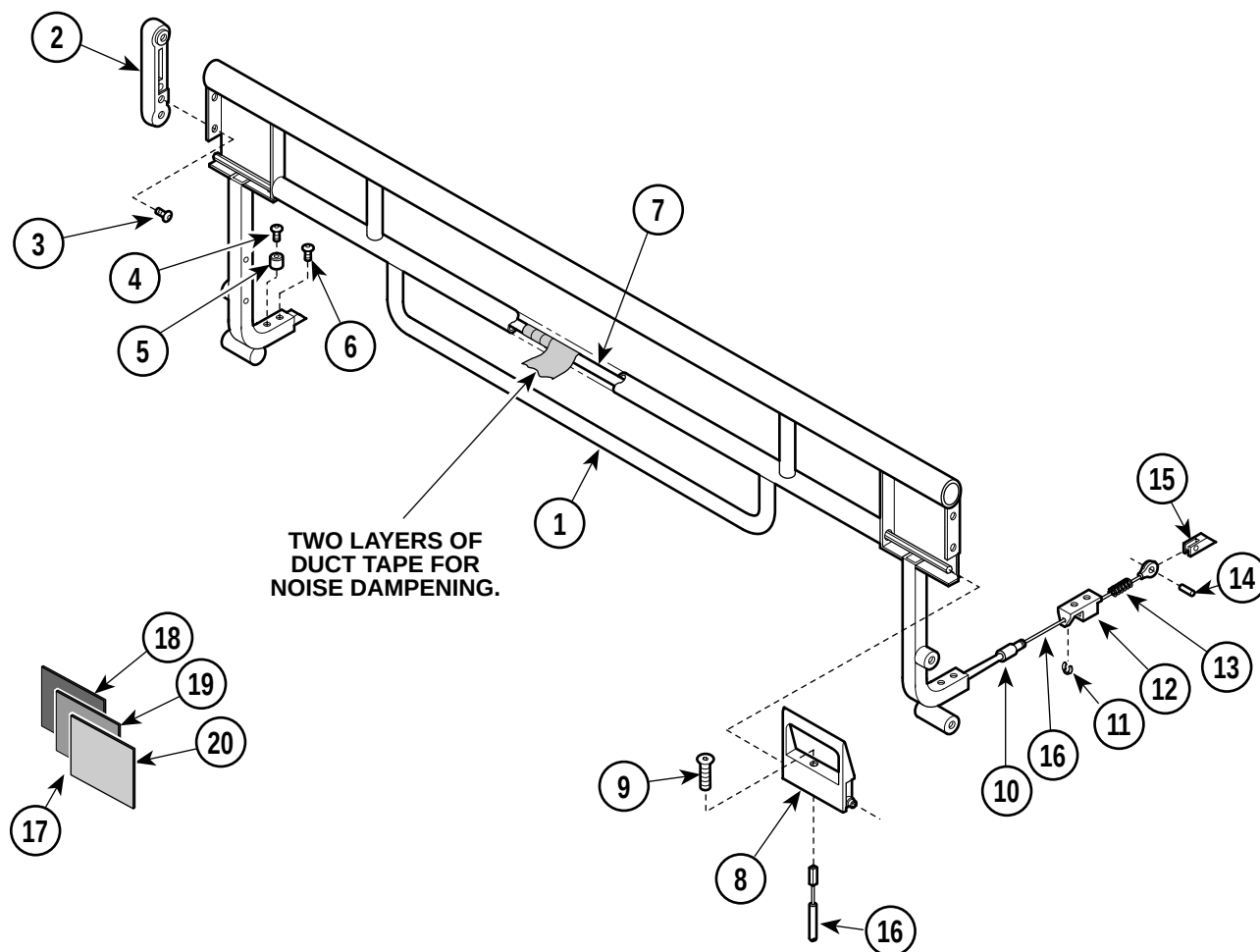
Used on Units with Serial Numbers: TAE-3802 thru 3812 TAF-2855 thru 2861

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0024-00	Siderail Kit Assembly		15	• 040-0008-35	• Screw	2
1	• 530-0815-00	• Siderail Frame	1	16	• 529-0020-00	• Siderail Latch Assembly	2
2	• 042-0045-01	• Nutsert	4	17	• 042-0065-00	• Klipping	1
3	• 553-0223-00	• End Cap (L.H. Shown)	1	18	• 520-0003-00	• Lockout Body	1
	• 553-0222-00	• End Cap (R.H. Not Shown)	1	19	• K101191	• Spring	1
4	• 040-0010-78	• Screw	2	20	• 042-0001-15	• Roll Pin	1
5	• 040-0010-77	• Screw	6	21	• 520-0004-00	• Latch Bolt	1
6	• 042-0085-00	• Metal Tube Connector	2	22	• 516-0005-00	• Cable Assembly	1
7	• 016-0138-11	• Spacer	4	23	• 529-0093-00	• Bumper Assembly (Standard)	1
8	• 040-0010-23	• Screw	1	24	• 529-0093-01	• Upper Bumper	1
9	• 040-0010-21	• Screw	3	25	• 042-0045-07	• Nutsert	6
10	• 553-0257-00	• Bumper	1	26	• 561-0012-00	• Color Code Label Assorted	2
11	• 530-0526-01	• Release Shaft	1	27	• 561-0012-01	• Color Code Label (Red)	2
12	• 040-0250-13	• Screw	4	28	• 561-0012-02	• Color Code Label (Blue)	2
13	• 040-0250-74	• Screw	2	29	• 561-0012-03	• Color Code Label (Green)	2
14	• 553-0075-00	• Handle	2				

Always Specify Model & Serial Number

Siderail Assembly

SECTION VI PARTS LIST



HA517801

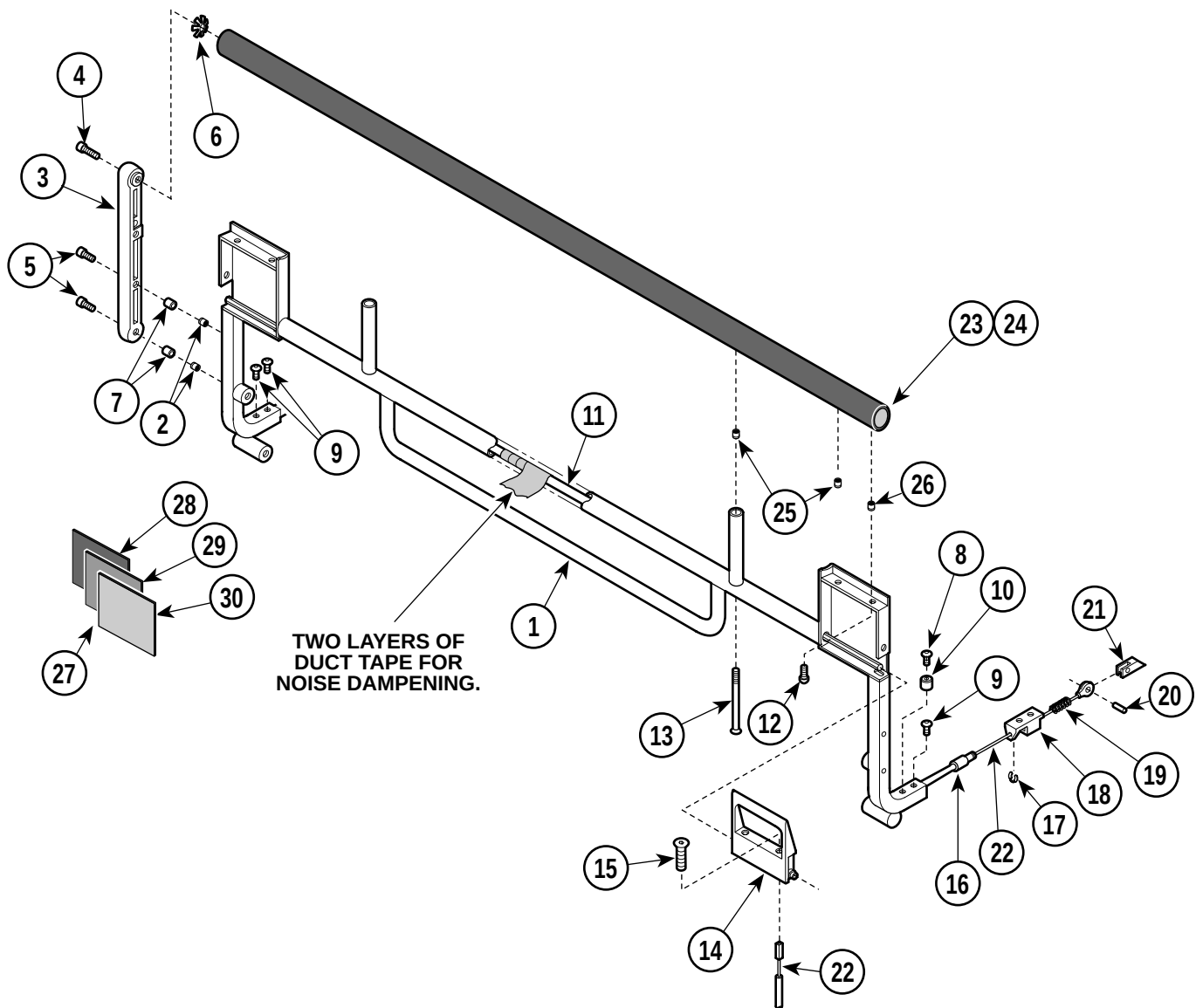
Used on Units with Serial Numbers: TAE-3813 thru 3901 TAF-2861 thru 2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	502-0023-00	Siderail Kit Standard		9	• 040-0008-35	• Screw	2
	502-0023-01	Siderail Kit High Mid Length		10	• 529-0020-00	• Siderail Latch Assembly	2
	502-0023-02	Siderail Kit High Full Length		11	• • 042-0065-00	• • Klipring	1
	• 530-0155-00	• Siderail Kit Standard		12	• • 520-0003-00	• • Lockout Body	1
	• 530-0156-00	• Siderail Kit High Mid Length		13	• • K101191	• • Spring	1
	• 530-0157-00	• Siderail Kit High Full Length	1	14	• • 042-0001-15	• • Roll Pin	1
2	• 553-0001-00	• End Cap	2	15	• • 520-0004-00	• • Latch Bolt	1
3	• 040-0250-08	• Screw	4	16	• • 516-0005-00	• • Cable Assembly	1
4	• 040-0010-23	• Screw	2	17	• 561-0012-00	• Color Code Label Assorted	2
5	• K904003	• Bumper	2	18	• • 561-0012-01	• • Color Code Label (Red)	2
6	• 040-0010-21	• Screw	2	19	• • 561-0012-02	• • Color Code Label (Blue)	2
7	• 530-0087-00	• Release Shaft	2	20	• • 561-0012-03	• • Color Code Label (Green)	2
8	• 553-0007-00	• Handle	2				

Always Specify Model & Serial Number

Siderail Assembly (Standard)

SECTION VI PARTS LIST



HA517802

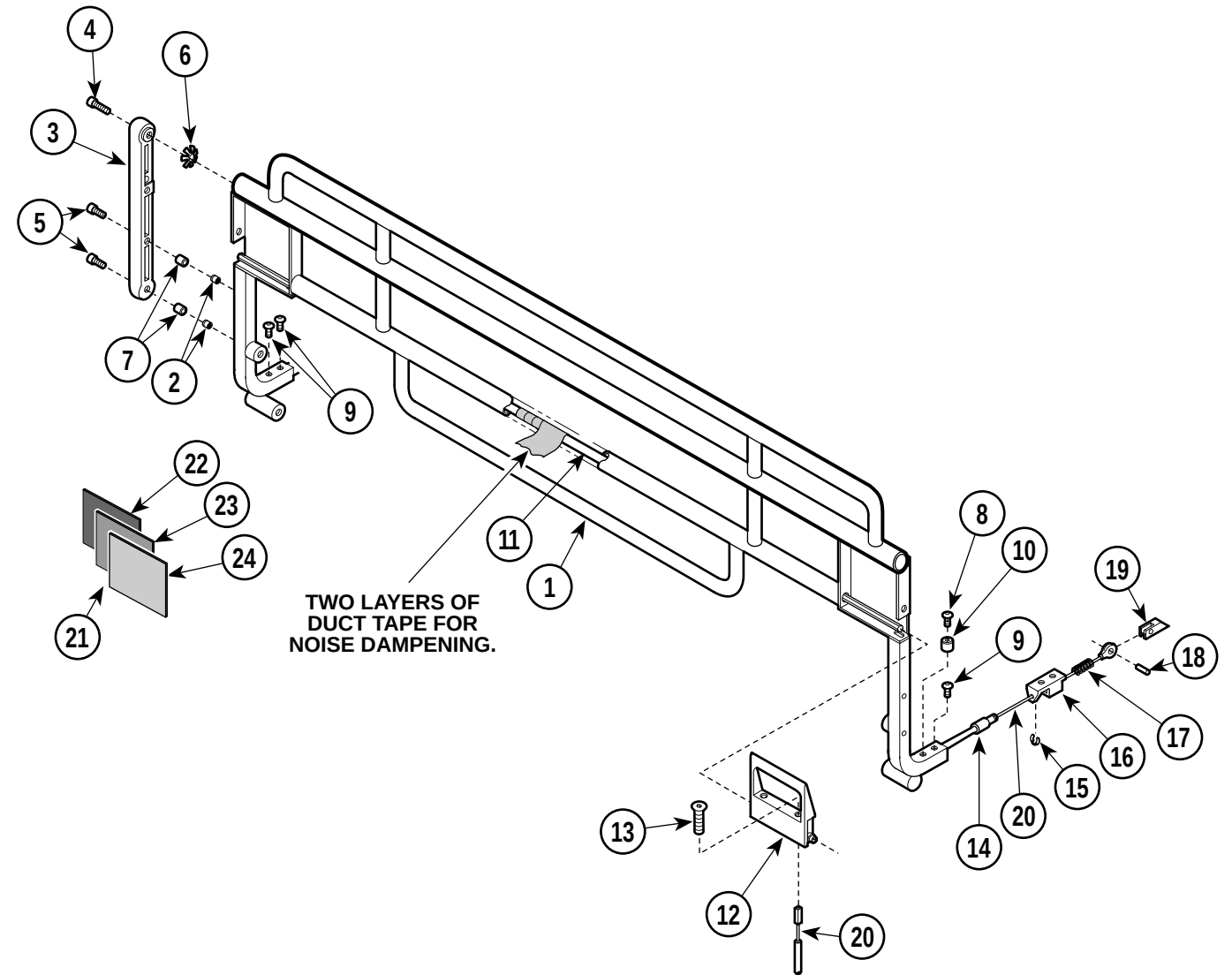
Used on Units with Serial Numbers: TAE-3911 thru Present TAF-2962 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0024-00	Siderail Kit Assembly		15	• 040-0008-35	• Screw	2
1	• 530-0815-00	• Siderail Frame	1	16	• 529-0020-00	• Siderail Latch Assembly	2
2	• 042-0045-01	• Nutsert	4	17	• 042-0065-00	• Klipping	1
3	• 553-0223-00	• End Cap (L.H. Shown)	1	18	• 520-0003-00	• Lockout Body	1
	• 553-0222-00	• End Cap (R.H. Not Shown)	1	19	• K101191	• Spring	1
4	• 040-0010-78	• Screw	2	20	• 042-0001-15	• Roll Pin	1
5	• 040-0010-77	• Screw	6	21	• 520-0004-00	• Latch Bolt	1
6	• 042-0085-00	• Metal Tube Connector	2	22	• 516-0005-00	• Cable Assembly	1
7	• 016-0138-11	• Spacer	4	23	• 529-0093-00	• Bumper Assembly (Standard)	1
8	• 040-0010-23	• Screw (Apply 042-0024-00)	1	24	• 529-0093-01	• Upper Bumper	1
9	• 040-0010-21	• Screw (Apply 042-0024-00)	3	25	• 042-0045-07	• Nutsert	4
10	• 553-0257-00	• Bumper	1	26	• 042-0045-03	• Nutsert	2
11	• 529-0526-01	• Release Shaft	1	27	• 561-0012-00	• Color Code Label Assorted	2
12	• 040-0250-13	• Screw (Apply 042-0024-00)	4	28	• 561-0012-01	• Color Code Label (Red)	2
13	• 040-0250-74	• Screw (Apply 042-0024-00)	2	29	• 561-0012-02	• Color Code Label (Blue)	2
14	• 553-0075-00	• Handle	2	30	• 561-0012-03	• Color Code Label (Green)	2

Always Specify Model & Serial Number

Siderail Assembly (High)

SECTION VI PARTS LIST



HA517900

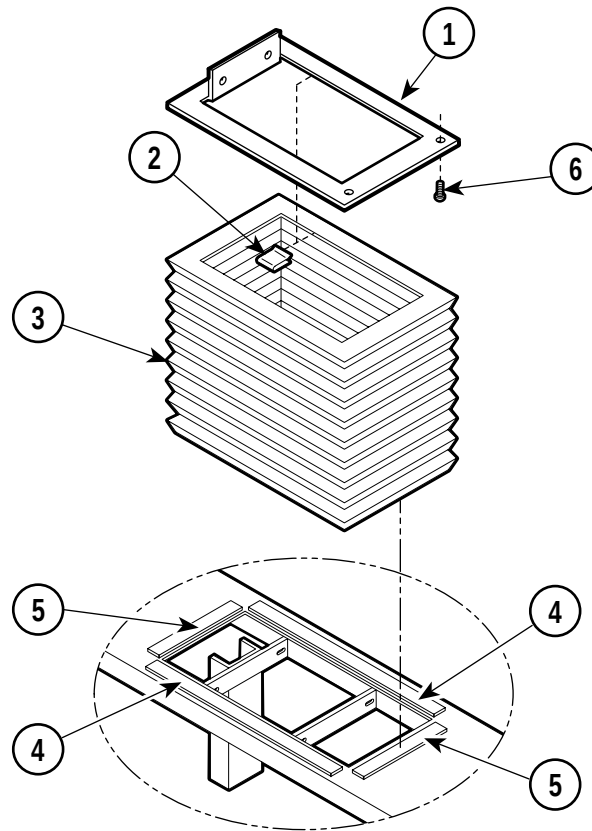
Optional on Units with Serial Numbers: TAE-3911 thru Present TAF-2962 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0024-01	Siderail Kit Assembly		12	• 553-0075-00	• Handle	2
1	• 530-0816-00	• Siderail Frame	1	13	• 040-0008-35	• Screw	2
2	• 042-0045-01	• Nutsert	4	14	• 529-0020-00	• Siderail Latch Assembly	2
3	• 553-0223-00	• End Cap (L.H. Shown)	1	15	• • 042-0065-00	• • Klipping	1
4	• 553-0222-00	• End Cap (R.H. Not Shown)	1	16	• • 520-0003-00	• • Lockout Body	1
5	• 040-0010-78	• Screw	2	17	• • K101191	• Spring	1
6	• 040-0010-77	• Screw	6	18	• • 042-0001-15	• Roll Pin	1
7	• 042-0085-00	• Metal Tube Connector	2	19	• 520-0004-00	• Latch Bolt	1
8	• 016-0138-11	• Spacer	4	20	• • 516-0005-00	• Cable Assembly	1
9	• 040-0010-23	• Screw (Apply 042-0024-00)	1	21	• 561-0012-00	• Color Code Label Assorted	2
10	• 040-0010-21	• Screw (Apply 042-0024-00)	3	22	• • 561-0012-01	• Color Code Label (Red)	2
11	• 553-0257-00	• Bumper	1	23	• • 561-0012-02	• Color Code Label (Blue)	2
	• 530-0526-01	• Release Shaft	1	24	• • 561-0012-03	• Color Code Label (Green)	2

Always Specify Model & Serial Number

Cover Components

SECTION VI PARTS LIST

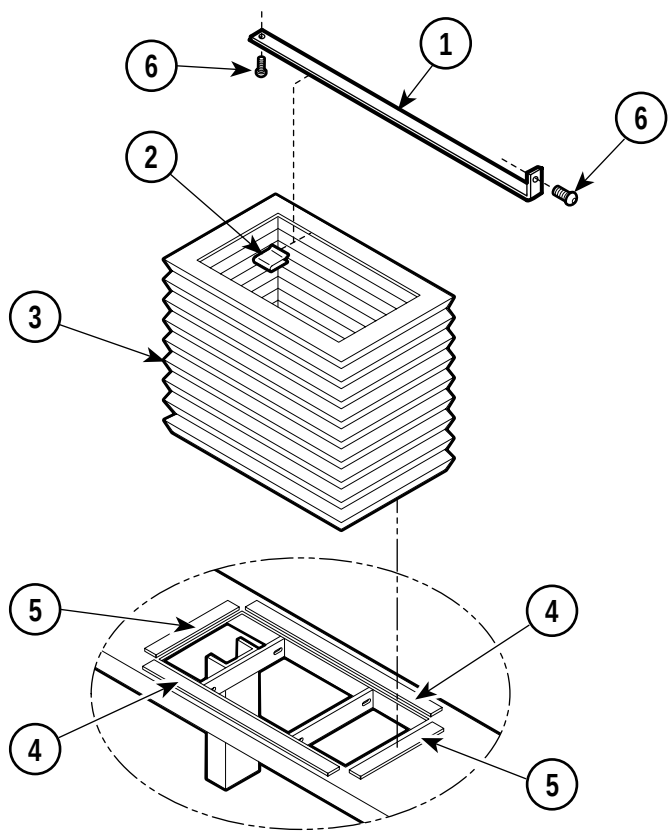


HA522801

Used on Units with Serial Numbers:
TAE-1000 thru TAE-3802 TAE-3813 thru TAE-3910
TAF-1000 thru TAF-2855 TAF-2861 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	550-0081-00	Bellows Bracket (530)		5	053-0131-10	Velcro	2
	550-0081-01	Bellows Bracket (535)	1	4	053-0131-07	Velcro	2
2	042-0071-00	U-Clip	4	6	040-0010-18	Screw	4
3	516-0023-00	Bellows	1				

Always Specify Model & Serial Number



HA522800

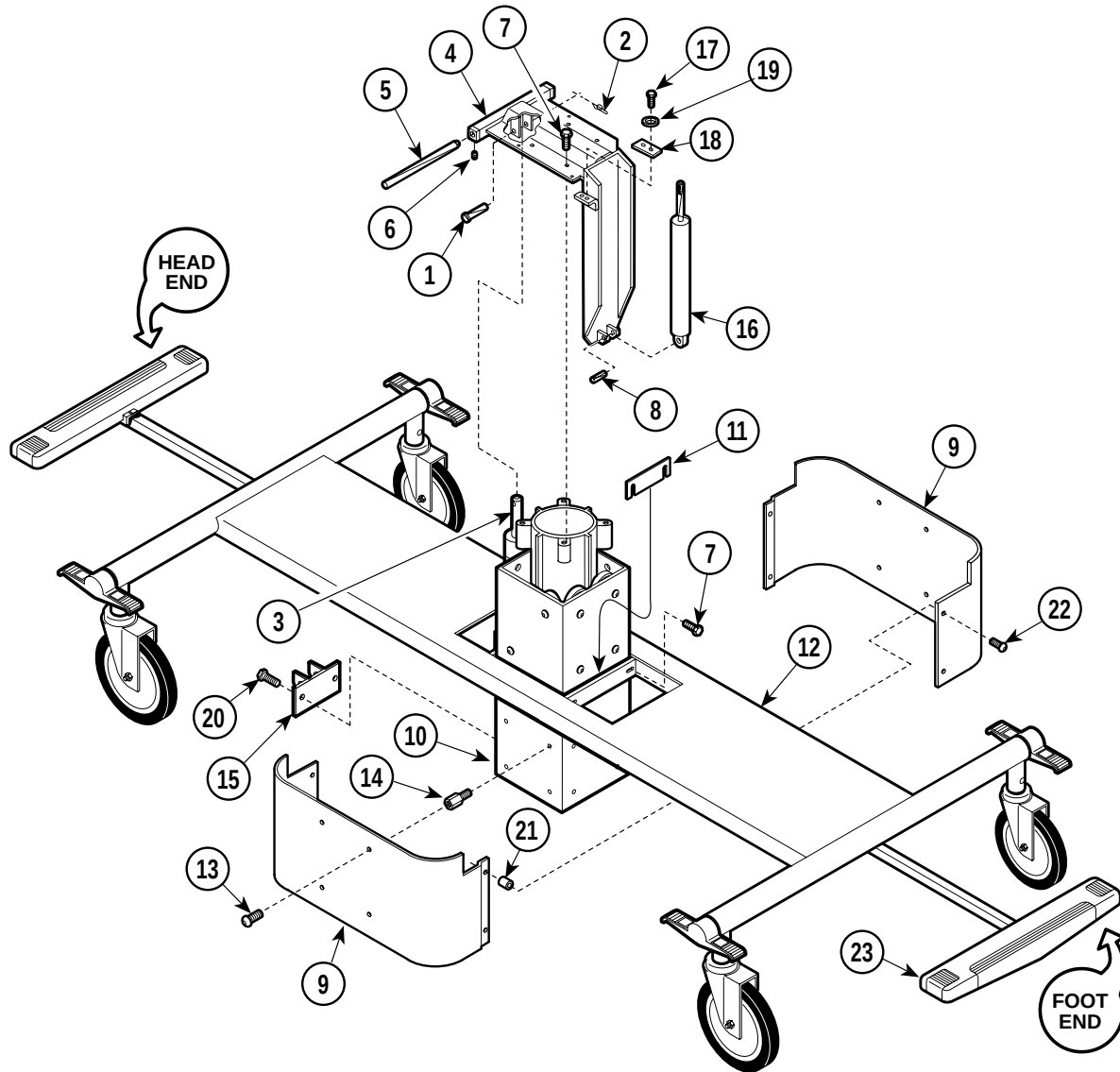
Used on Units with Serial Numbers:
TAE-3911 thru Present TAF-2962 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	551-0128-00	Bellows Bracket	2	5	053-0131-10	Velcro	2
2	042-0071-00	U-Clip	4	4	053-0131-07	Velcro	2
3	516-0023-00	Bellows	1	6	040-0010-18	Screw	4

Always Specify Model & Serial Number

Chassis Components

SECTION VI PARTS LIST



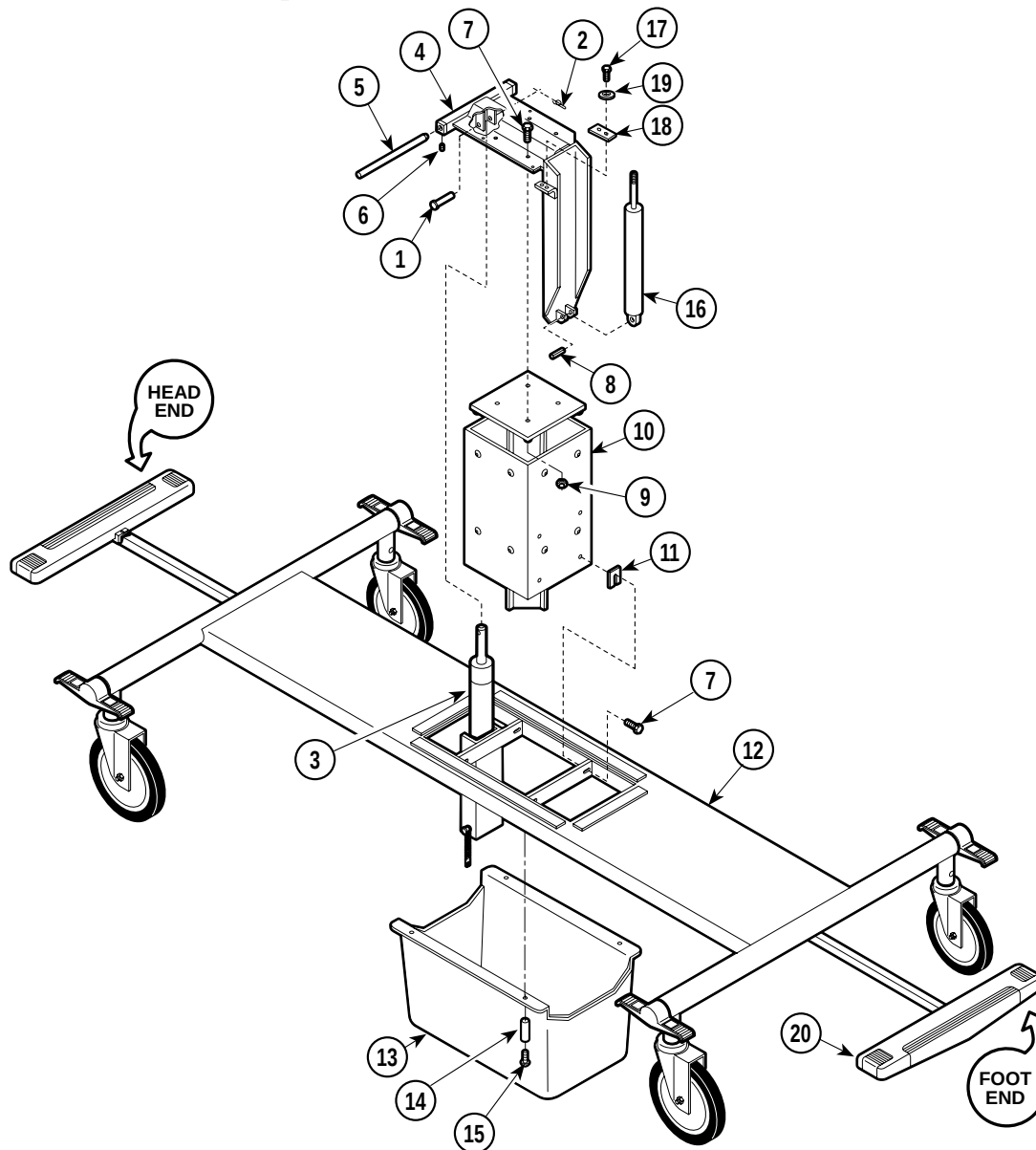
HA517701

Used on Units with Serial Numbers: TAE-1000 thru TAE-2236 TAF-1000 thru TAF-1946

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0005-01	Clevis Pin	1	13	040-0006-10	Screw	8
2	042-0063-00	Rue Ring	1	14	551-0040-00	Spacer	8
3		Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	15	550-0080-00	Bracket	1
4	530-0023-00	Pivot Plate Assembly (530)		16		Gas Cylinder (Refer to "Trendelenburg Actuator Components" Elsewhere) ...	Ref
	530-0023-01	Pivot Plate Assembly (535)	1	17	040-0250-122	Screw	2
5		Pivot Shaft (Refer to "Trendelenburg Com- ponents" Elsewhere)	Ref	18	551-0015-00	Plate, Lockout Strike	1
6	040-0250-04	Set Screw	2	19	045-0001-02	Washer	2
7	040-0375-00	Bolt	8	20	040-0312-13	Bolt	2
8	042-0011-03	Pin, Spiral	1	21	042-0045-01	Nutsert	4
9	550-0031-00	Lower Cover	4	22	040-0010-34	Screw	8
10		Column (Refer to "Elevation Column Assembly" Elsewhere)	Ref	23		Hydraulic Components	
11	550-0082-00	Shim	AR			Single Pump Units	1
12		Chassis (Refer to "Caster Linkage Comp- onents" Elsewhere)	Ref			Double Pump Units	2
						(Refer to "Hydraulic Linkage" Elsewhere)	

Always Specify Model & Serial Number

Chassis Components



HA517702

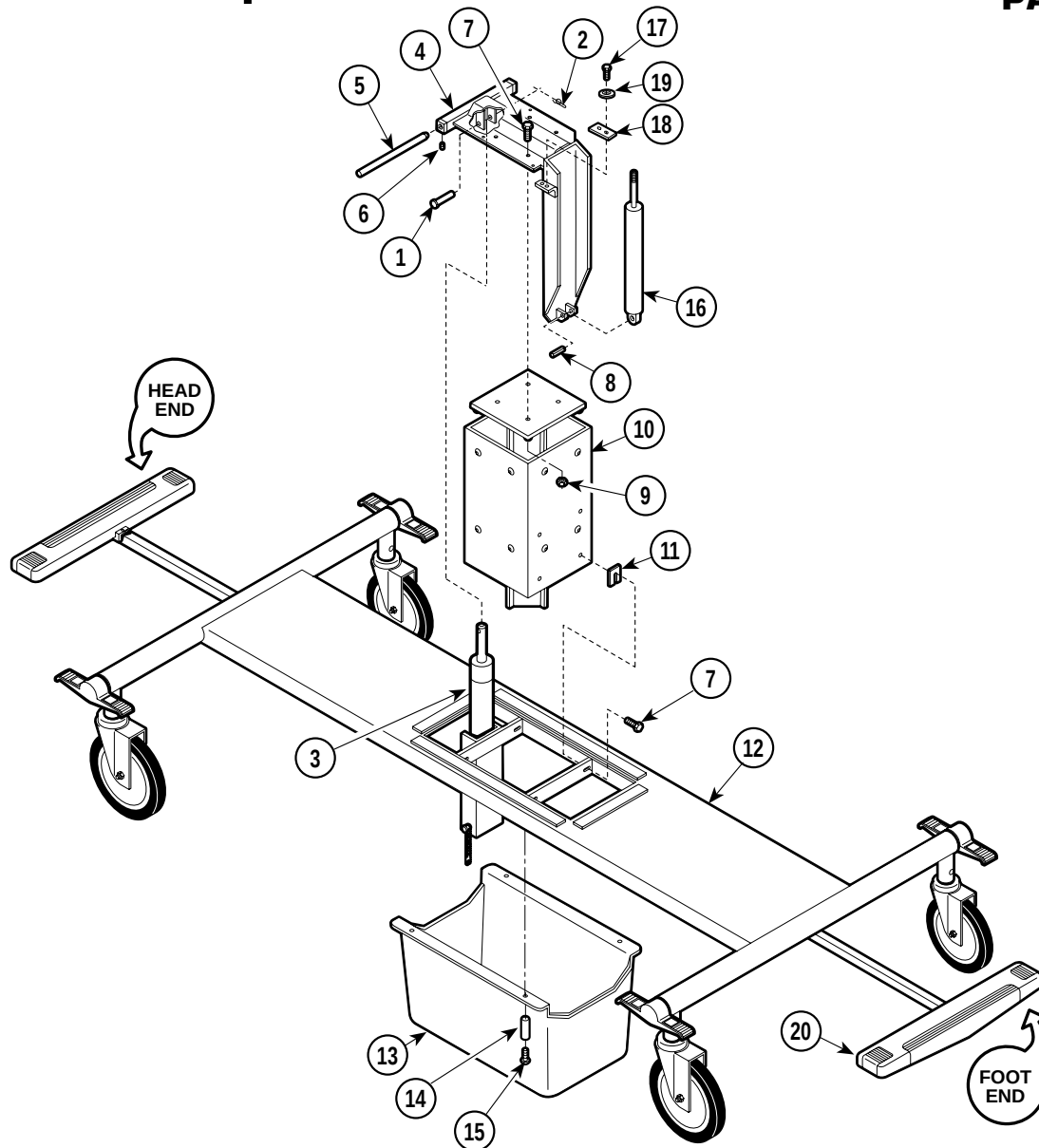
Used on Units with Serial Numbers:
TAE-2237 thru TAE-2678 TAF-1947 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0005-01	Clevis Pin	1	12		Chassis (Refer to "Caster Linkage Components" Elsewhere)	Ref
2	042-0063-00	Rue Ring	1	13	553-0112-00	Lower Cover	1
3		Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	14	016-0138-10	Rolled Spacer	4
4	530-0023-00	Pivot Plate Assembly (530)		15	040-0010-76	Screw	4
	530-0023-01	Pivot Plate Assembly (535)	1	16		Gas Cylinder (Refer to "Trendeleburg Components" Elsewhere)	Ref
5		Pivot Shaft (Refer to "Trendelenburg Components" Elsewhere)	Ref	17	040-0250-122	Screw	2
6	040-0250-04	Set Screw	2	18	551-0015-00	Plate, Lockout Strike	1
7	040-0375-00	Bolt	8	19	045-0001-02	Lockwasher	2
8	042-0011-03	Pin, Spiral	1	20		Hydraulic Components	
9	041-0375-12	Nut	4			Single Pump Units	1
10		Column (Refer to "Elevation Column Assembly" Elsewhere)	Ref			Double Pump Units	2
11	550-0082-00	Shim	AR			(Refer to "Hydraulic System" Elsewhere)	

Always Specify Model & Serial Number

Chassis Components

SECTION VI PARTS LIST



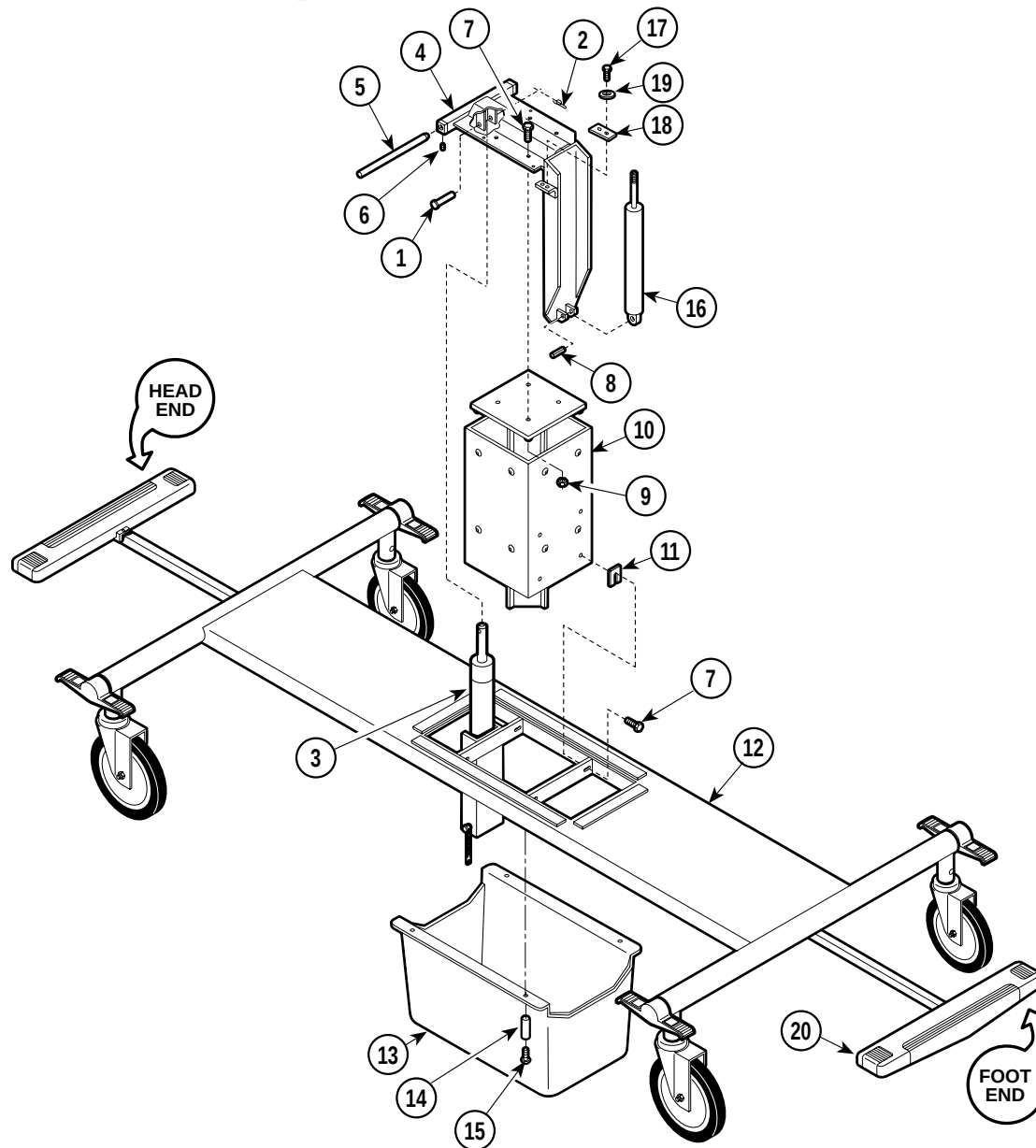
HA517702

Used on Units with Serial Numbers: TAE-2679 thru TAE-2749

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0005-01	Clevis Pin	1	11	550-0082-00	Shim	AR
2	042-0063-00	Rue Ring	1	12		Chassis (Refer to "Caster Linkage Components" Elsewhere)	Ref
3		Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	13	553-0060-00	Lower Cover	1
4	530-0023-00	Pivot Plate Assembly (530)	1	14	016-0138-10	Rolled Spacer	4
	530-0023-01	Pivot Plate Assembly (535)	1	15	040-0010-76	Screw	4
5		Pivot Shaft (Refer to "Trendlenburg Components" Elsewhere)	Ref	16		Locking Gas Cylinder	Ref
6	040-0250-04	Set Screw	2	17	040-0250-122	Screw	2
7	040-0375-00	Bolt	8	18	551-0015-00	Plate, Lockout Strike	1
8	042-0011-03	Pin, Spiral	1	19	045-0001-02	Lockwasher	2
9	041-0375-12	Nut	4	20		Hydraulic Components	
10		Column (Refer to "Elevation Column Assembly" Elsewhere)	Ref			Single Pump Units	1
						Double Pump Units	2
						(Refer to "Hydraulic System" Elsewhere)	

Always Specify Model & Serial Number

Chassis Components



HA517702

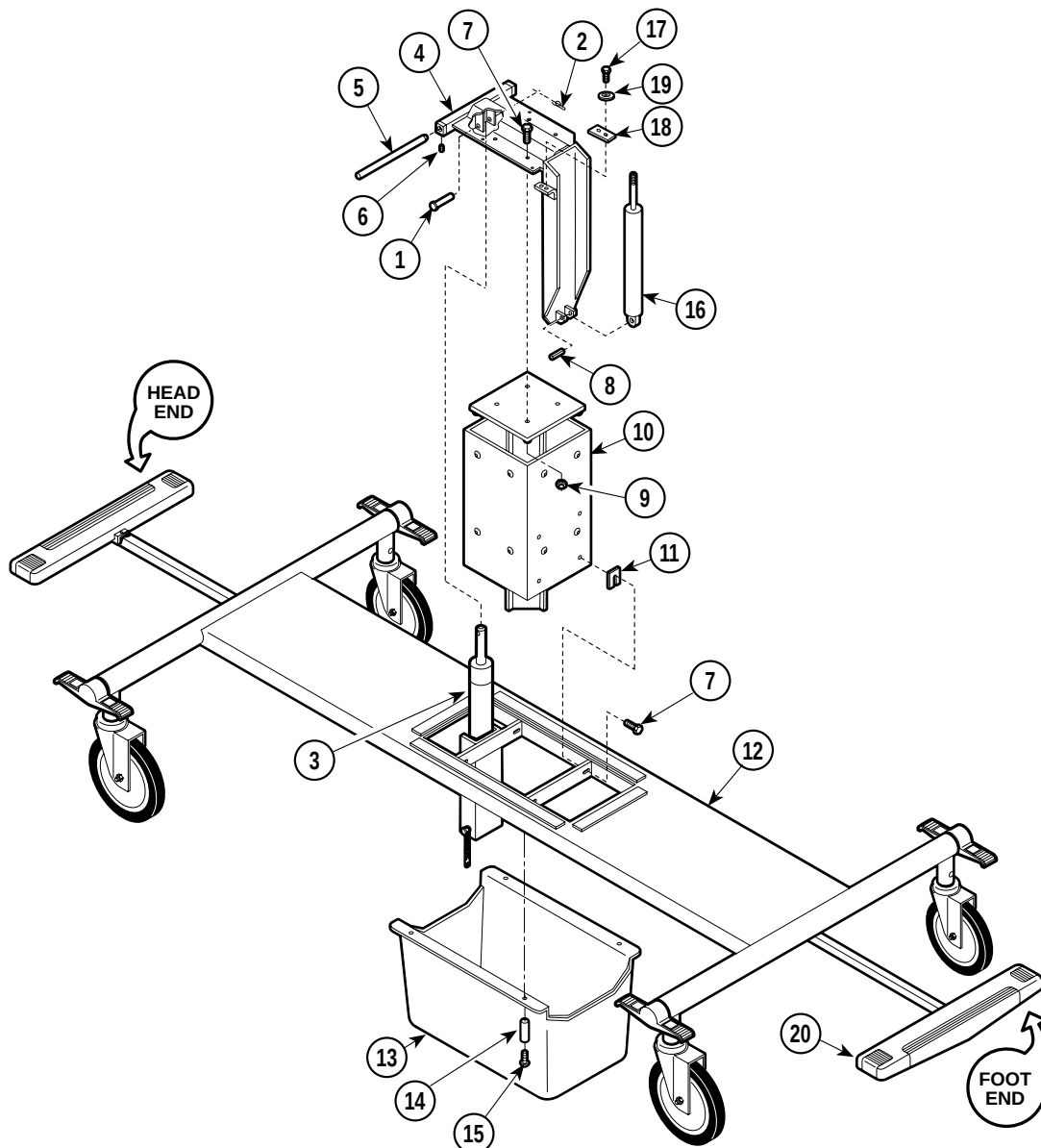
Used on Units with Serial Numbers: TAE-2750 thru TAE-2999

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0005-01	Clevis Pin	1	12		Chassis (Refer to "Caster Linkage Components" Elsewhere)	Ref
2	042-0063-00	Rue Ring	1	13	553-0112-00	Lower Cover	1
3		Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	14	016-0138-10	Rolled Spacer	4
4	530-0023-00	Pivot Plate Assembly (530)	1	15	040-0010-76	Screw	4
	530-0023-01	Pivot Plate Assembly (535)	1	16		Gas Cylinder (Refer to "Trendelenburg Components" Elsewhere)	Ref
5		Pivot Shaft	Ref	17	040-0250-122	Screw	2
6	040-0250-04	Set Screw	2	18	551-0015-00	Plate, Lockout Strike	1
7	040-0375-00	Bolt	8	19	045-0001-02	Lockwasher	2
8	042-0011-03	Pin, Spiral	1	20		Hydraulic Components	
9	041-0375-12	Nut	4			Single Pump Units	1
10		Column (Refer to "Elevation Column Assembly" Elsewhere)	Ref			Double Pump Units	2
11	550-0082-00	Shim	AR			(Refer to "Hydraulic System" Elsewhere)	

Always Specify Model & Serial Number

Chassis Components

SECTION VI PARTS LIST



HA517702

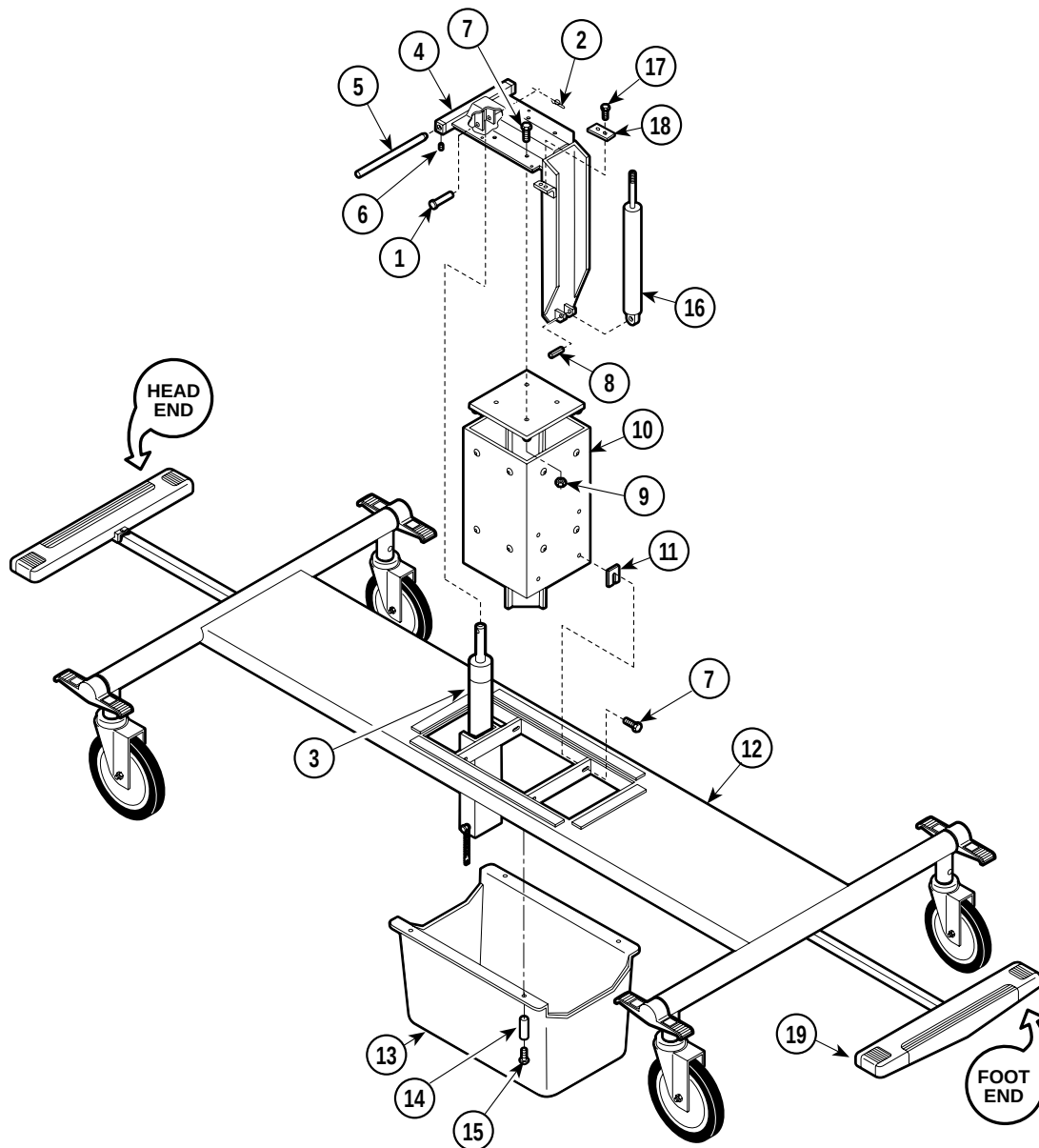
Used on Units with Serial Numbers: TAE-3000 thru TAE-3910

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0005-01	Clevis Pin	1	11	550-0082-00	Shim	AR
2	042-0063-00	Rue Ring	1	12		Chassis (Refer to "Caster Linkage Components" Elsewhere)	Ref
3		Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	13	553-0060-00	Lower Cover	1
4	530-0023-00	Pivot Plate Assembly (530)	1	14	016-0138-10	Rolled Spacer	4
	530-0023-01	Pivot Plate Assembly (535)	1	15	040-0010-76	Screw	4
5		Pivot Shaft (Refer to "Trendelenburg Components" Elsewhere)	Ref	16		Gas Cylinder (Refer to "Trendelenburg Actuator" Elsewhere)	Ref
6	040-0250-04	Set Screw	2	17	040-0250-122	Screw	2
7	040-0375-00	Bolt	8	18	551-0015-00	Plate, Lockout Strike	1
8	042-0011-03	Pin, Spiral	1	19	045-0001-02	Lockwasher	2
9	041-0375-12	Nut	4	20		Hydraulic Components	
10		Column (Refer to "Elevation Column Assembly" Elsewhere)	Ref			Single Pump Units	1
						Double Pump Units	2
						(Refer to "Hydraulic Linkage" Elsewhere)	

Always Specify Model & Serial Number

Chassis Components

SECTION VI PARTS LIST



HA517700

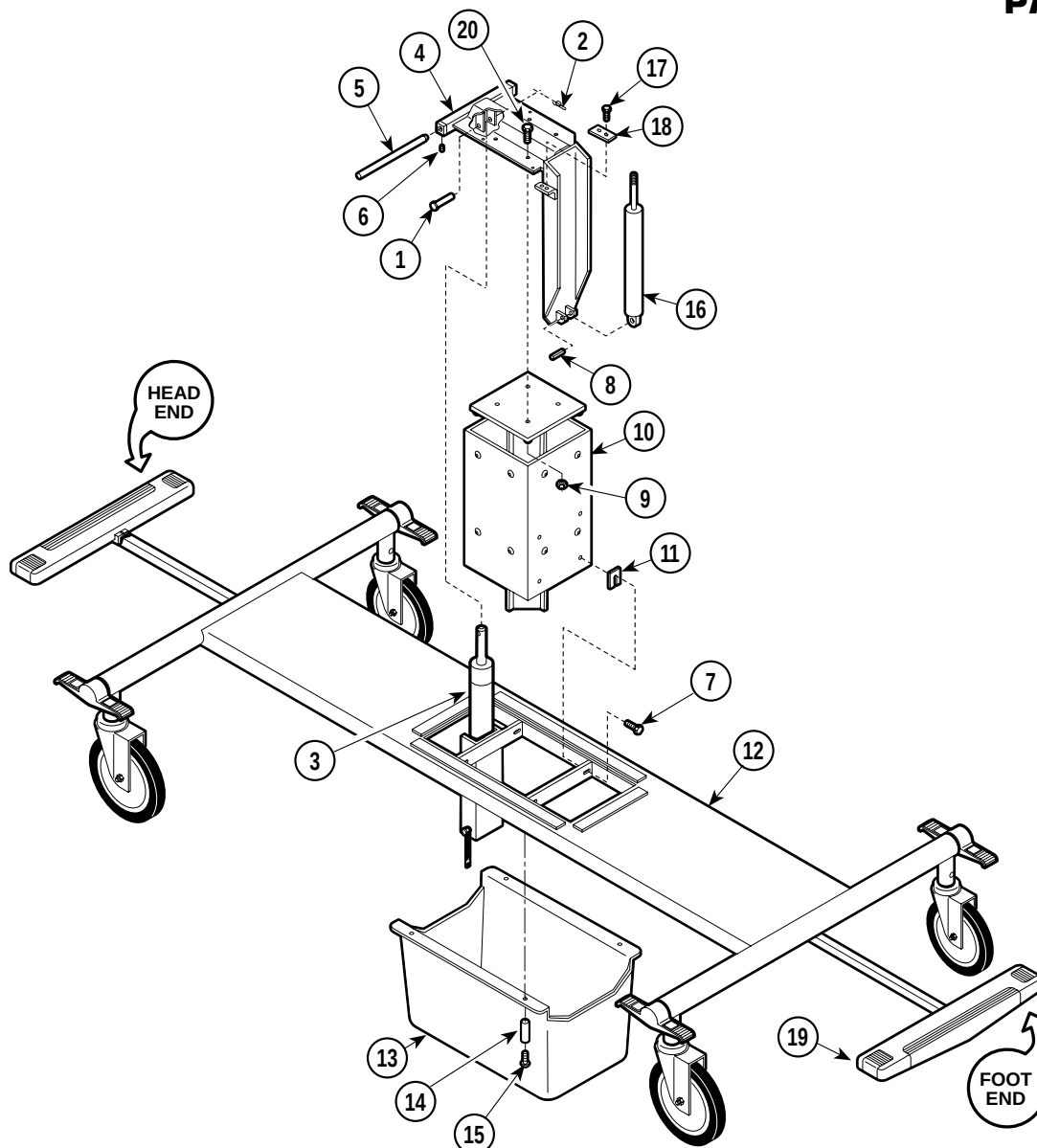
Used on Units with Serial Numbers: TAE-3911 thru TAE-11037 TAF-2962 thru TAF-9382

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0005-01	Clevis Pin	1	11	550-0082-00	Shim	AR
2	042-0063-00	Rue Ring	1	12		Chassis (Refer to "Caster Linkage Components" Elsewhere)	Ref
3		Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	13	553-0163-00	Lower Cover	1
4	530-0391-10	Pivot Plate Assembly (530)	1	14	016-0138-10	Rolled Spacer	4
	530-0392-10	Pivot Plate Assembly (535)	1	15	040-0010-76	Screw	4
5		Pivot Shaft (Refer to "Trendeleburg Components" Elsewhere)	Ref	16		Gas Cylinder (Refer to "Trendeleburg Actuator" Elsewhere)	Ref
6	040-0312-28	Set Screw	2	17	040-0250-122	Screw	2
7	040-0375-00	Bolt	8	18	551-0015-00	Plate, Lockout Strike	1
8	042-0011-03	Pin, Spiral	1	19		Hydraulic Components	
9	041-0375-12	Nut	4			Single Pump Units	1
10		Column (Refer to "Elevation Column Assembly" Elsewhere)	Ref			Double Pump Units	2
						(Refer to "Hydraulic Linkage" Elsewhere)	

Always Specify Model & Serial Number

Chassis Components

SECTION VI PARTS LIST



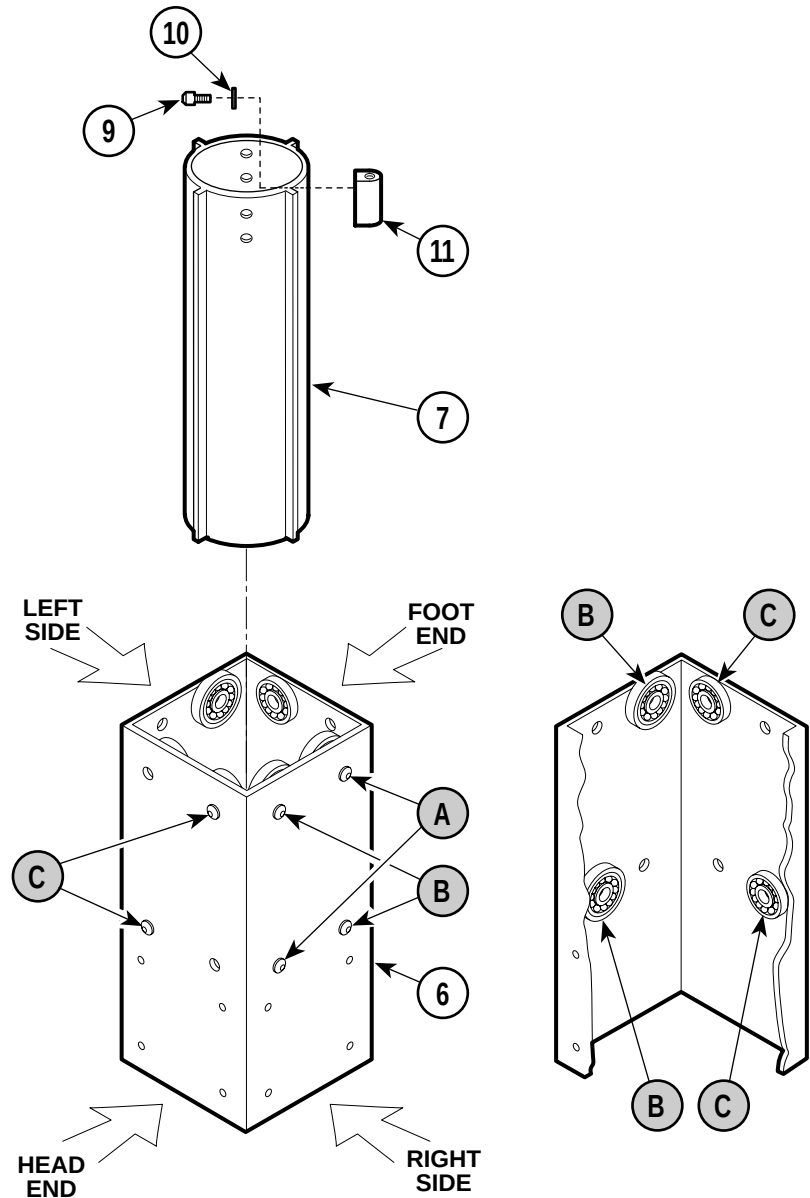
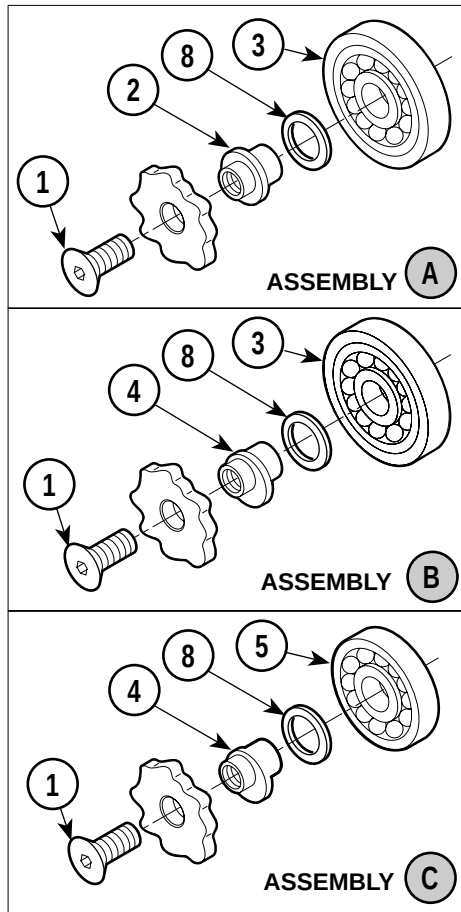
HA517705

Used on Units with Serial Numbers: TAE-11038 thru Present TAF-9383 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0005-01	Clevis Pin	1	13		Components" Elsewhere)	Ref
2	042-0063-00	Rue Ring	1			Lower Cover (Refer to "Rite Trac/True Dir.	
3		Cylinder (Refer to "Elevation Cylinder				Steering" Elsewhere)	Ref
4	530-0391-10	Assembly" Elsewhere)	Ref	14		Rolled Spacer(Refer to "Rite Trac/True Dir.	
	530-0392-10	Pivot Plate Assembly (530)				Steering" Elsewhere)	Ref
5		Pivot Plate Assembly (535)	1	15		Screw(Refer to "Rite Trac/True Dir.	
		Pivot Shaft (Refer to "Trendeleburg				Steering" Elsewhere)	Ref
6	040-0312-28	Components" Elsewhere)	Ref	16		Gas Cylinder (Refer to "Trendeleburg	
7	040-0375-00	Set Screw	2			Actuator" Elsewhere)	Ref
8	042-0011-03	Bolt	8	17	040-0250-122	Screw	2
9	041-0375-12	Pin, Spiral	1	18	551-0015-00	Plate, Lockout Strike	1
10		Nut	4	19		Hydraulic Components	
		Column (Refer to "Elevation Column				Single Pump Units	1
11	550-0082-00	Assembly" Elsewhere)	Ref			Double Pump Units	2
12		Shim	AR			(Refer to "Hydraulic Linkage" .. Elsewhere)	
		Chassis (Refer to "Caster Linkage		20	040-0375-38	Bolt	4

Always Specify Model & Serial Number

Elevation Column Assembly



HA516802

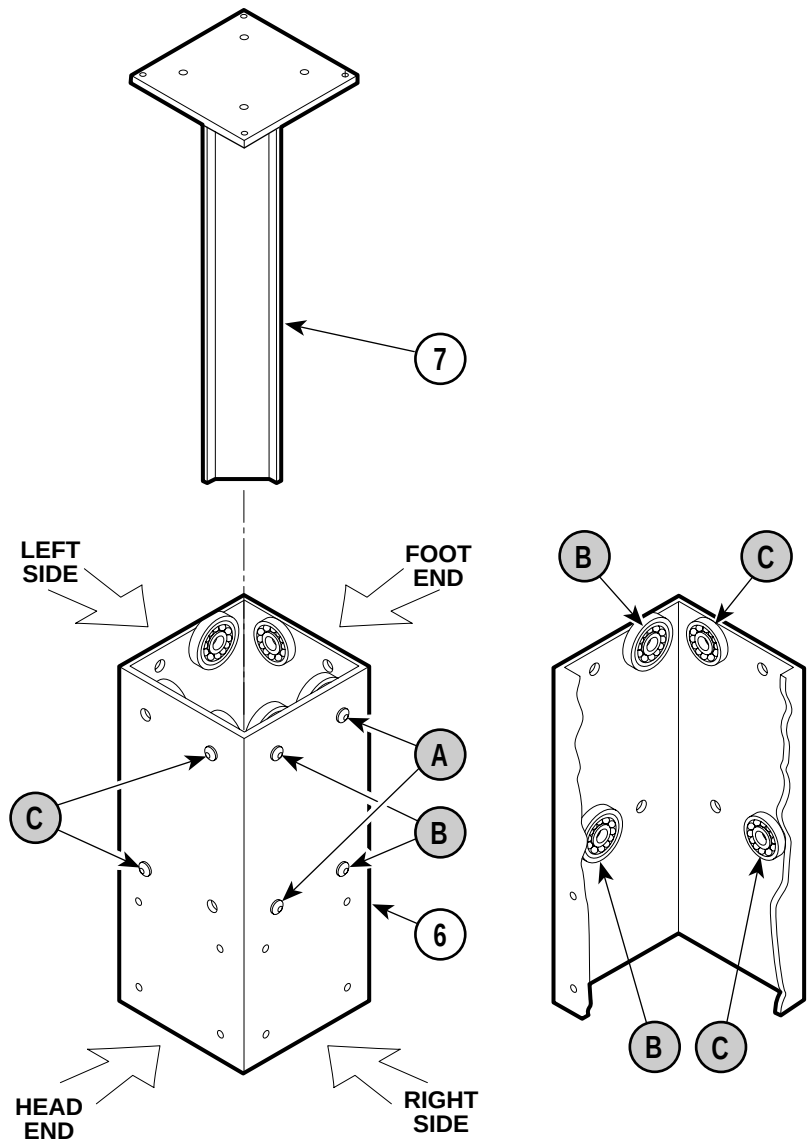
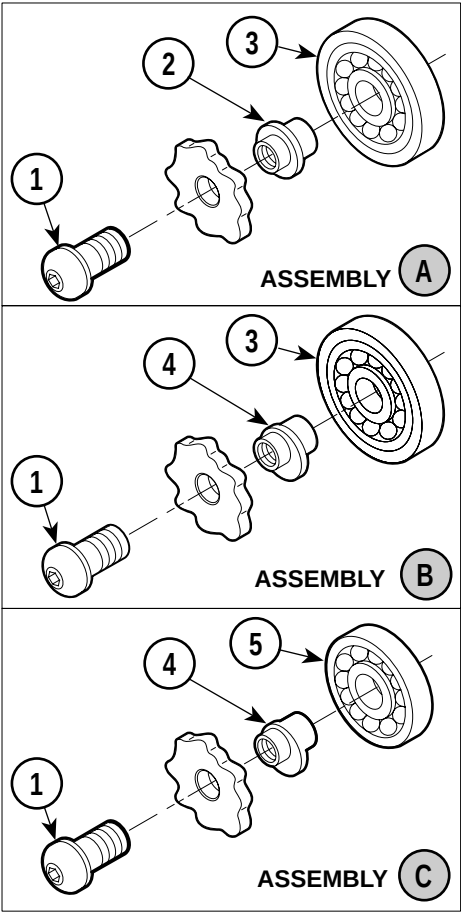
Used on Units with Serial Numbers: TAE-1000 thru TAE-2018 TAF-1000 thru TAF-1794

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0004-00	Elevation Column Assembly		6	• 552-0043-00	• Outer Slide	1
1	• 040-0312-13	• Bolt	10	7	• 521-0002-02	• Inner Slide	1
2	• 557-0022-00	• Concentric Spindle	2	8	• 045-0001-54	• Washer	10
3	• 529-0005-00	• Tire and Bearing Assembly	6	9	• 040-0312-14	• Screw	4
4	• 557-0023-00	• Eccentric Spindle	8	10	• 045-0001-02	• Washer	10
5	• 516-0012-00	• Ball Bearing	4	11	• 551-0051-00	• Bolt Boss	4

Always Specify Model & Serial Number

Elevation Column Assembly

SECTION VI PARTS LIST



HA516801

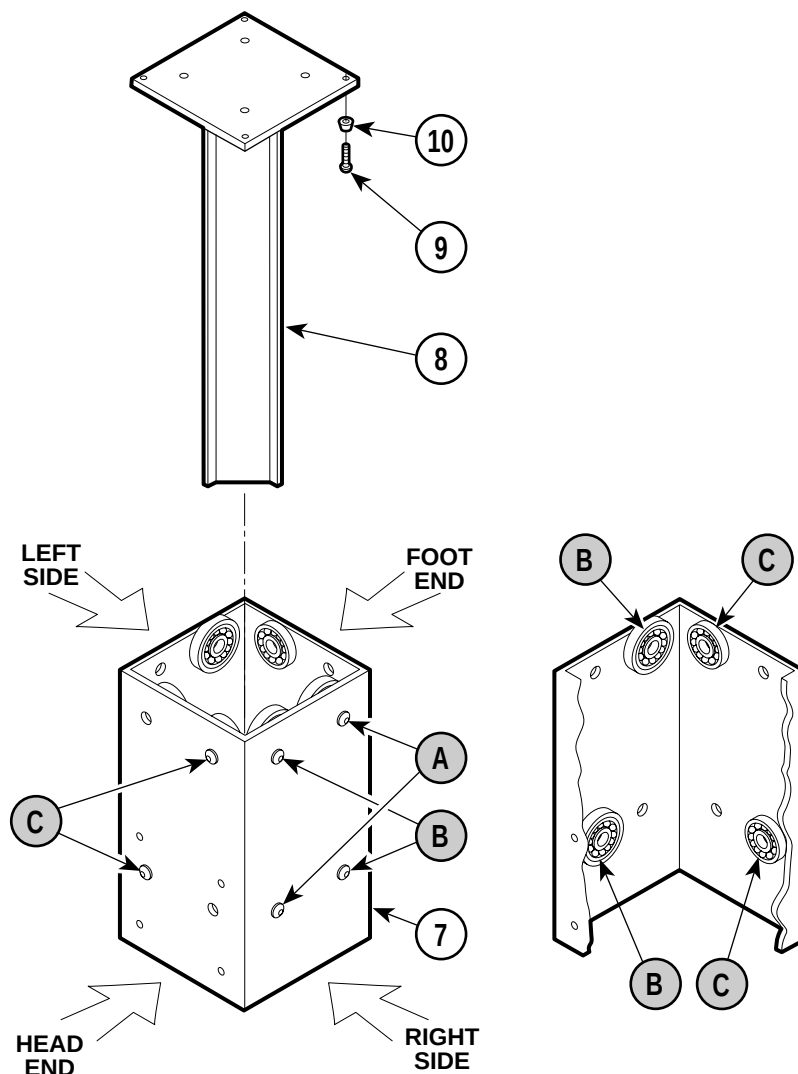
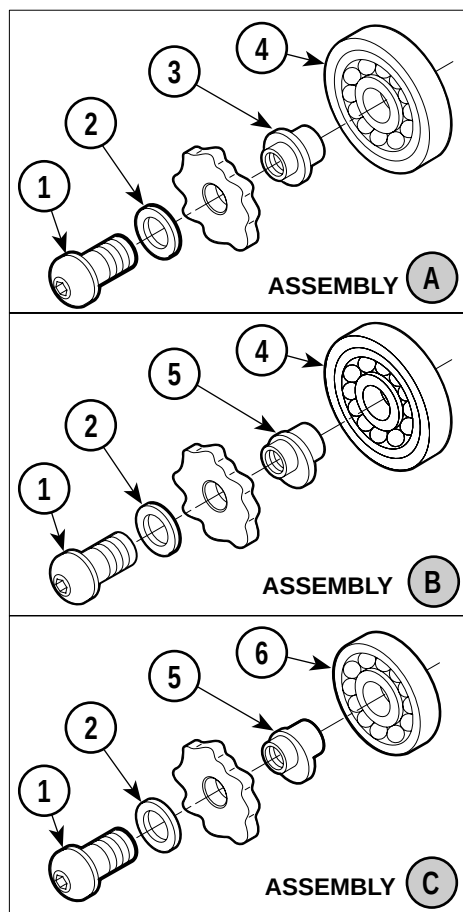
Used on Units with Serial Numbers: TAE-2219 thru TAE-2237 TAF-1795 thru TAF-1971

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0071-00	Elevation Column Assembly		4	• 557-0023-00	• Eccentric Spindle	8
1	• 040-0312-22	• Bolt	10	5	• 516-0012-00	• Ball Bearing	4
2	• 557-0022-00	• Concentric Spindle	2	6	• 552-0138-00	• Outer Slide	1
3	• 529-0072-00	• Tire and Bearing Assembly	6	7	• 530-0251-01	• Inner Slide	1

Always Specify Model & Serial Number

Elevation Column Assembly

SECTION VI PARTS LIST



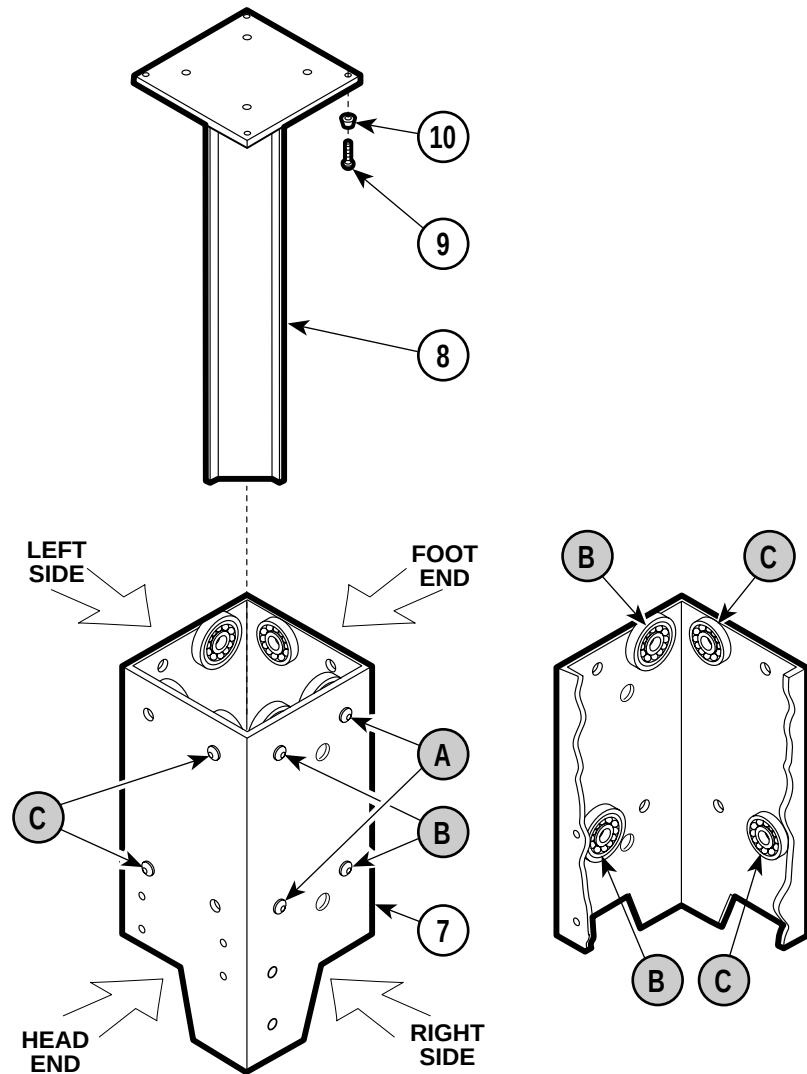
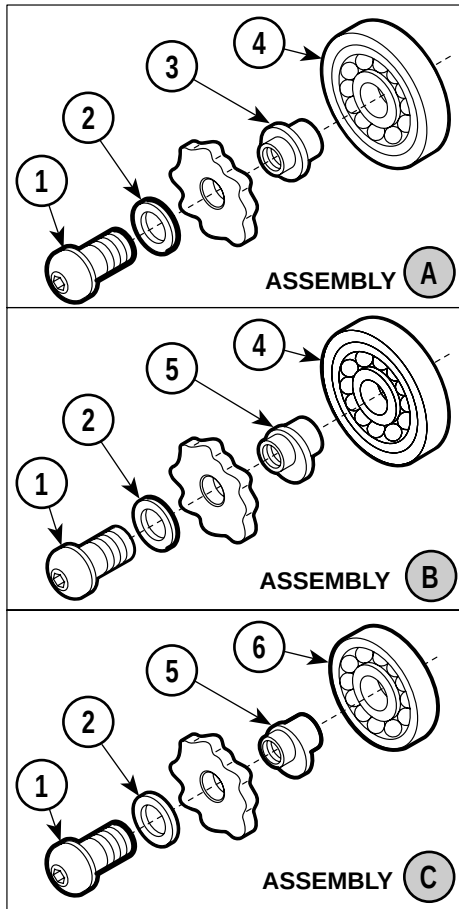
HA516800

Used on Units with Serial Numbers: TAE-2238 thru TAE-11037 TAF-1972 thru TAF-9382

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0167-00	Elevation Column Assembly		6	• 516-0012-00	• Ball Bearing	4
1	• 040-0312-22	• Bolt	10	7	• 530-0388-10	• Outer Slide	1
2	• 045-0001-02	• Washer	10	8	• 530-0251-01	• Inner Slide	1
3	• 557-0240-00	• Concentric Spindle	2	9	• 040-0008-04	• Screw	4
4	• 529-0072-00	• Tire and Bearing Assembly	6	10	• 553-0098-00	• Recess Bumper	4
5	• 557-0241-00	• Eccentric Spindle	8				

Always Specify Model & Serial Number

Elevation Column Assembly



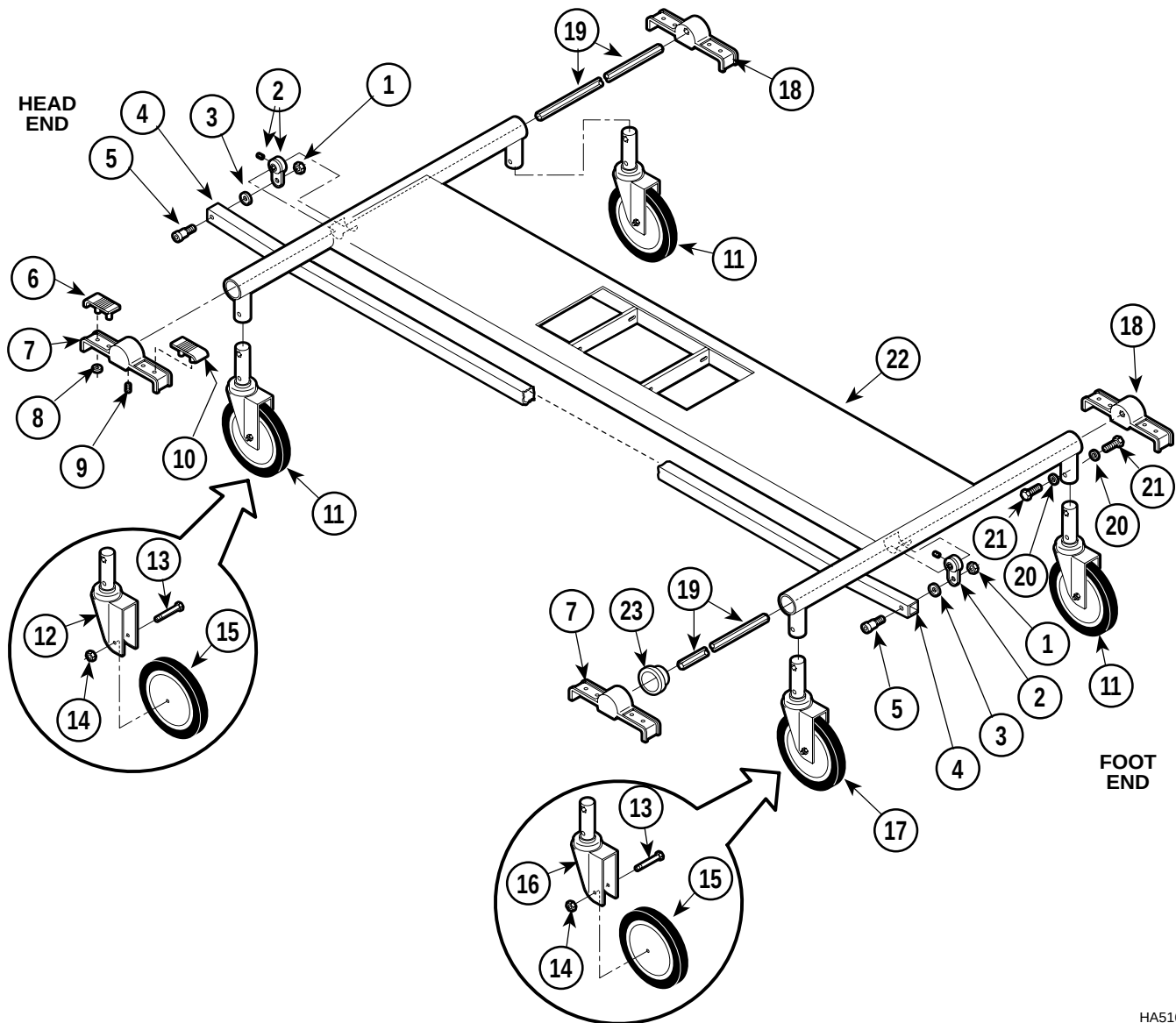
HA540004

Used on Units with Serial Numbers: TAE- 11038 thru Present TAF-9383 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0167-00	Elevation Column Assembly		6	• 516-0012-00	• Ball Bearing	4
1	• 040-0312-22	• Bolt	10	7	• 530-1031-10	• Outer Slide	1
2	• 045-0001-02	• Washer	10	8	• 530-0251-01	• Inner Slide	1
3	• 557-0240-00	• Concentric Spindle	2	9	• 040-0008-05	• Screw	4
4	• 529-0072-00	• Tire and Bearing Assembly	6	10	• 553-0098-00	• Recess Bumper	4
5	• 557-0241-00	• Eccentric Spindle	8				

Always Specify Model & Serial Number

Caster Linkage Components



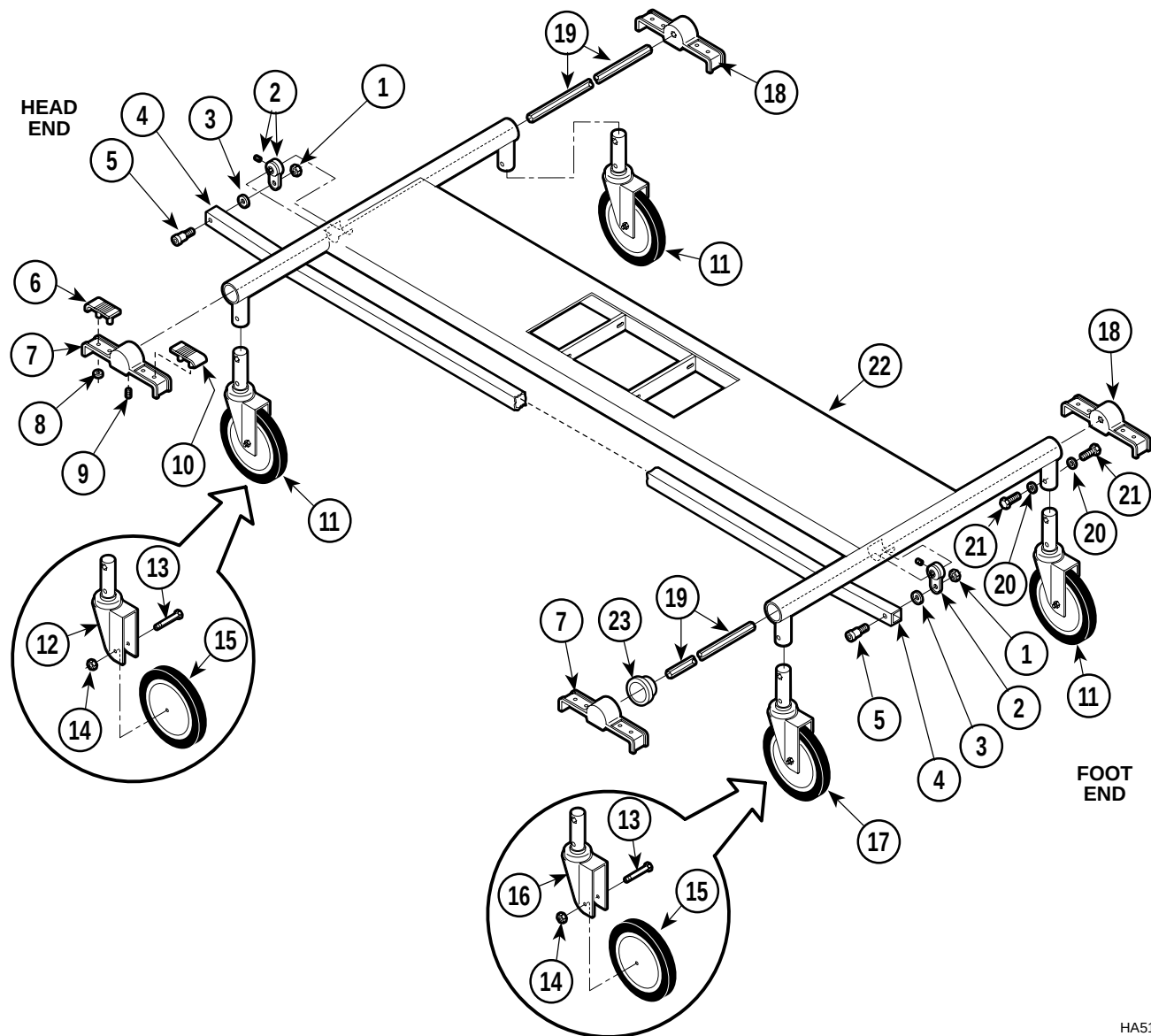
HA516903

Used on Units with Serial Numbers:
TAE-1000 thru TAE-2236 TAF-1000 thru TAF-1946

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly (Apply Loctite #042-0024-00))	AR
2	516-0036-00	Transfer Lever (Includes Set Screw [Apply Loctite #042-0025-00])	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
3	K902583-1	Washer	2	15	• 516-0061-00	• Black Caster (Flat Profile)	AR
4	552-0093-00	Throw Rod	1	16	• 516-0110-00	• Steer Caster Fork (One Per Caster Assembly)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2	17		Caster Assembly - Steer (Includes Items 13 thru 16)	1
6	553-0006-01	Red Insert	4	18	520-0021-11	Caster Control Pedal - L.H.	2
7	520-0021-10	Caster Control Pedal - R.H.	2	19	551-0020-00	Actuator Bar	2
8	042-0061-00	Retaining Ring	16	20	045-0001-05	Washer	8
9	040-0250-04	Set Screw (Apply Loctite #042-0024-00)	4	21	042-0062-05	Screw (Apply Loctite #042-0025-00)	8
10	553-0006-02	Green Insert	4	22	530-0049-00	Chassis	1
11		Caster Assembly - Brake (Includes Items 12 thru 15)	3	23	553-0020-00	Nylon Bearing	4
12	• 516-0110-01	• Brake Caster Fork (One Per Caster Assembly)	AR				

Always Specify Model & Serial Number

Caster Linkage Components



HA516903

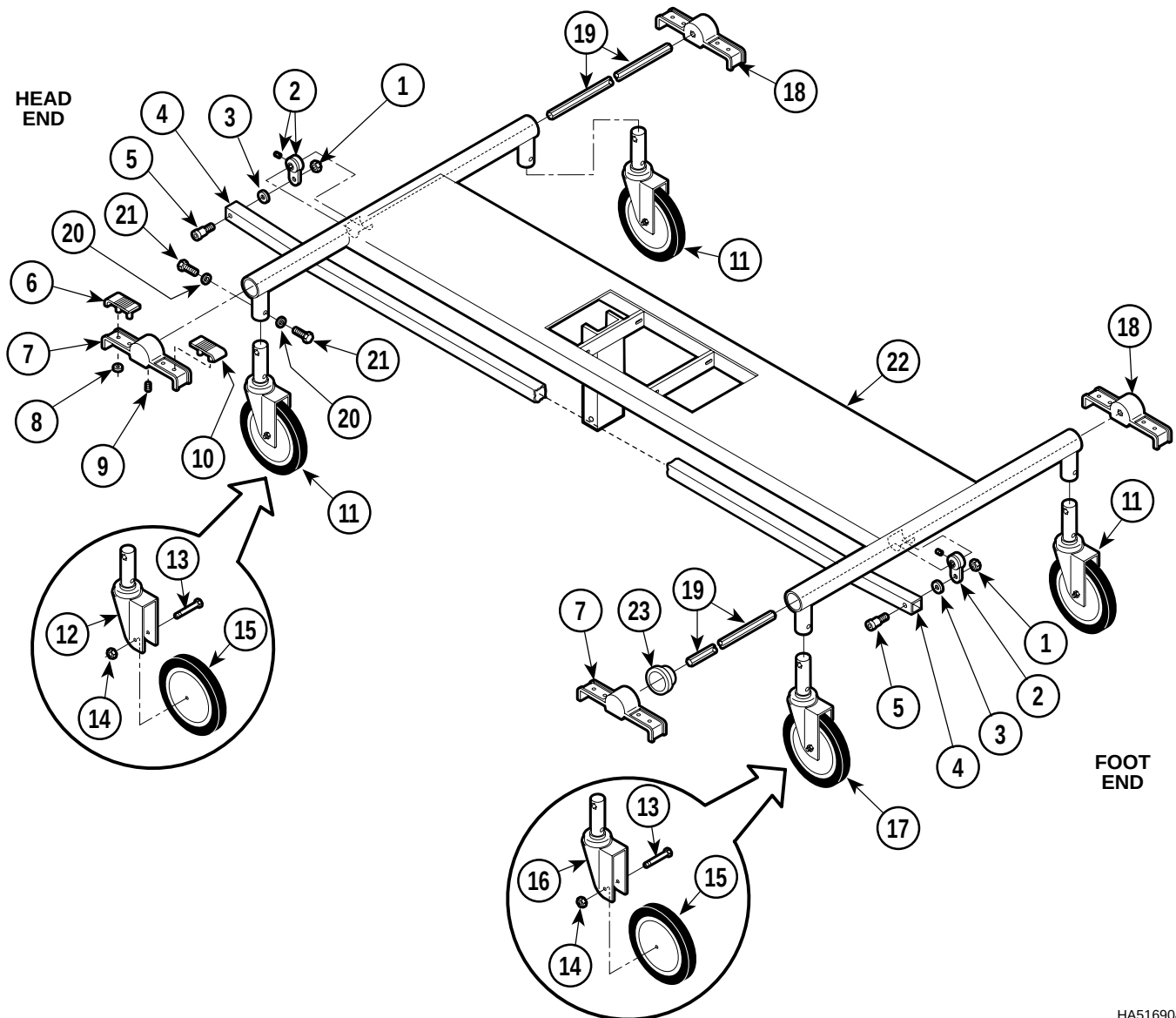
Used on Units with Serial Numbers:
TAE-2237 thru TAE-2678 TAF-1947 thru TAF-2369

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly (Apply Loctite #042-0024-00))	AR
2	516-0036-00	Transfer Lever (Includes Set Screw [Apply Loctite #042-0025-00])	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
3	K902583-1	Washer	2	15	• 516-0061-01	• Black Caster (Round Profile)	AR
4	552-0093-00	Throw Rod	1	16	• 516-0110-00	• Steer Caster Fork (One Per Caster Assembly)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2	17	502-0021-03	Caster Assembly - Steer (Includes Items 13 thru 16)	1
6	553-0006-01	Red Insert	4	18	520-0021-11	Caster Control Pedal - L.H.	2
7	520-0021-10	Caster Control Pedal - R.H.	2	19	551-0020-00	Actuator Bar	2
8	042-0061-00	Retaining Ring	16	20	045-0001-05	Washer	8
9	040-0250-04	Set Screw (Apply Loctite #042-0024-00)	4	21	042-0062-05	Screw (Apply Loctite #042-0025-00)	8
10	553-0006-02	Green Insert	4	22	530-0143-00	Chassis	1
11	502-0021-02	Caster Assembly - Brake (Includes Items 12 thru 15)	3	23	553-0020-00	Nylon Bearing	4
12	• 516-0110-01	• Brake Caster Fork (One Per Caster Assembly)	AR				

Always Specify Model & Serial Number

Caster Linkage Components

SECTION VI PARTS LIST



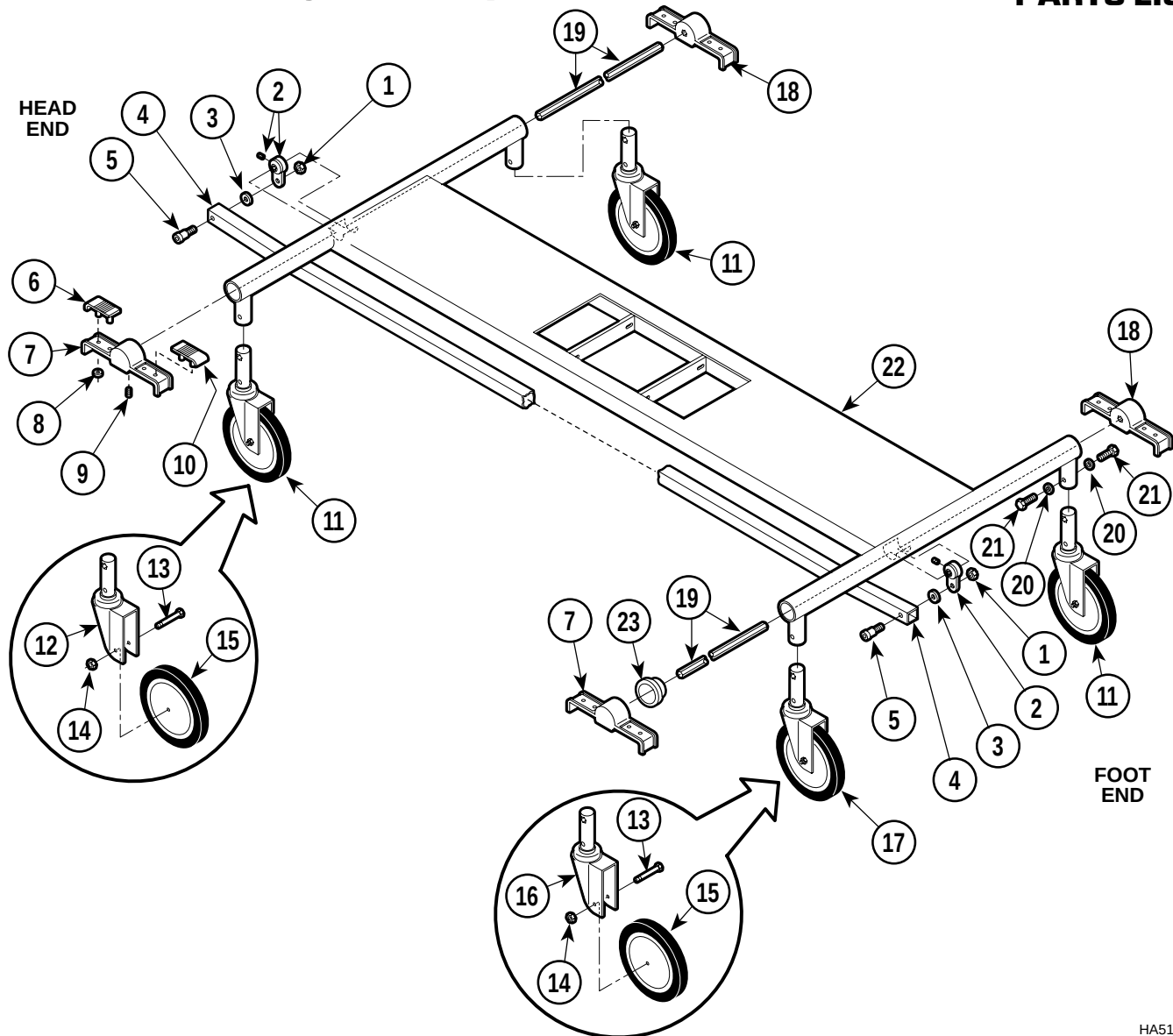
HA516904

Used on Units with Serial Numbers: TAE-2679 thru TAE-2749 TAF-2370 thru TAF-2752

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	• • 516-0154-00	• • Brake Puck	1	
2	516-0036-00	Transfer Lever (Includes Set Screw [Apply Loctite #042-0025-00])	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly (Apply Loctite #042-0024-00))	AR
3	K902583-1	Washer	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
4	552-0093-00	Throw Rod	1	15	• 516-0061-01	• Black Caster (Round Profile)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2	16	• 516-0101-00	• Steer Caster Fork (One Per Caster Assembly)	AR
6	553-0006-01	Red Insert	4	• • 516-0154-00	• • Brake Puck	1	
7	520-0021-10	Caster Control Pedal - R.H.	2	17	516-0065-02	Caster Assembly - Steer (Includes Items 13 thru 16)	1
8	042-0061-00	Retaining Ring	16	18	520-0021-11	Caster Control Pedal - L.H.	2
9	040-0250-21	Set Screw (Apply Loctite #042-0024-00)	4	19	551-0020-00	Actuator Bar	2
10	553-0006-02	Green Insert	4	20	045-0001-59	Washer	8
11	516-0065-03	Caster Assembly - Brake (Includes Items 12 thru 15)	3	21	042-0081-00	Screw (Apply Loctite #042-0025-00)	8
12	• 516-0101-01	• Brake Caster Fork (One Per Caster Assembly)	AR	22	530-0171-00	Chassis	1
				23	553-0020-00	Nylon Bearing	4

Always Specify Model & Serial Number

Caster Linkage Components



HA516903

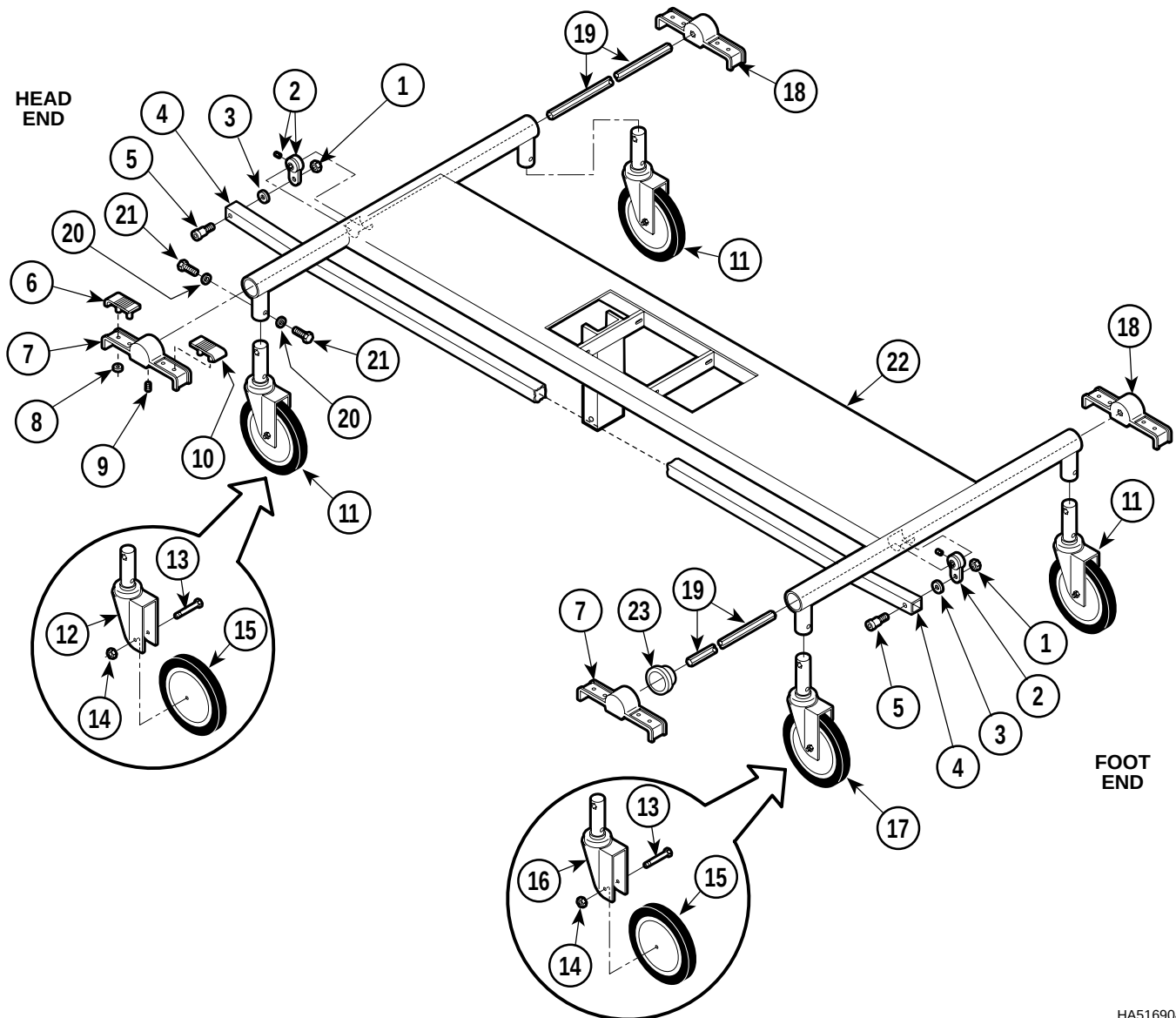
Used on Units with Serial Numbers: TAE-2750 thru TAE-2999

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly (Apply Loctite #042-0024-00))	AR
2	516-0036-00	Transfer Lever (Includes Set Screw [Apply Loctite #042-0025-00])	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
3	K902583-1	Washer	2	15	• 516-0061-01	• Black Caster (Round Profile)	AR
4	552-0093-00	Throw Rod	1	16	• 516-0110-00	• Steer Caster Fork (One Per Caster Assembly)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2	17	502-0021-03	Caster Assembly - Steer (Includes Items 13 thru 16)	1
6	553-0006-01	Red Insert	4	18	520-0021-11	Caster Control Pedal - L.H.	2
7	520-0021-10	Caster Control Pedal - R.H.	2	19	551-0020-00	Actuator Bar	2
8	042-0061-00	Retaining Ring	16	20	045-0001-05	Washer	8
9	040-0250-04	Set Screw (Apply Loctite #042-0024-00)	4	21	042-0062-05	Screw (Apply Loctite #042-0025-00)	8
10	553-0006-02	Green Insert	4	22	530-0143-00	Chassis	1
11	502-0021-02	Caster Assembly - Brake (Includes Items 12 thru 15)	3	23	553-0020-00	Nylon Bearing	4
12	• 516-0110-01	• Brake Caster Fork (One Per Caster Assembly)	AR				

Always Specify Model & Serial Number

Caster Linkage Components

SECTION VI PARTS LIST



HA516904

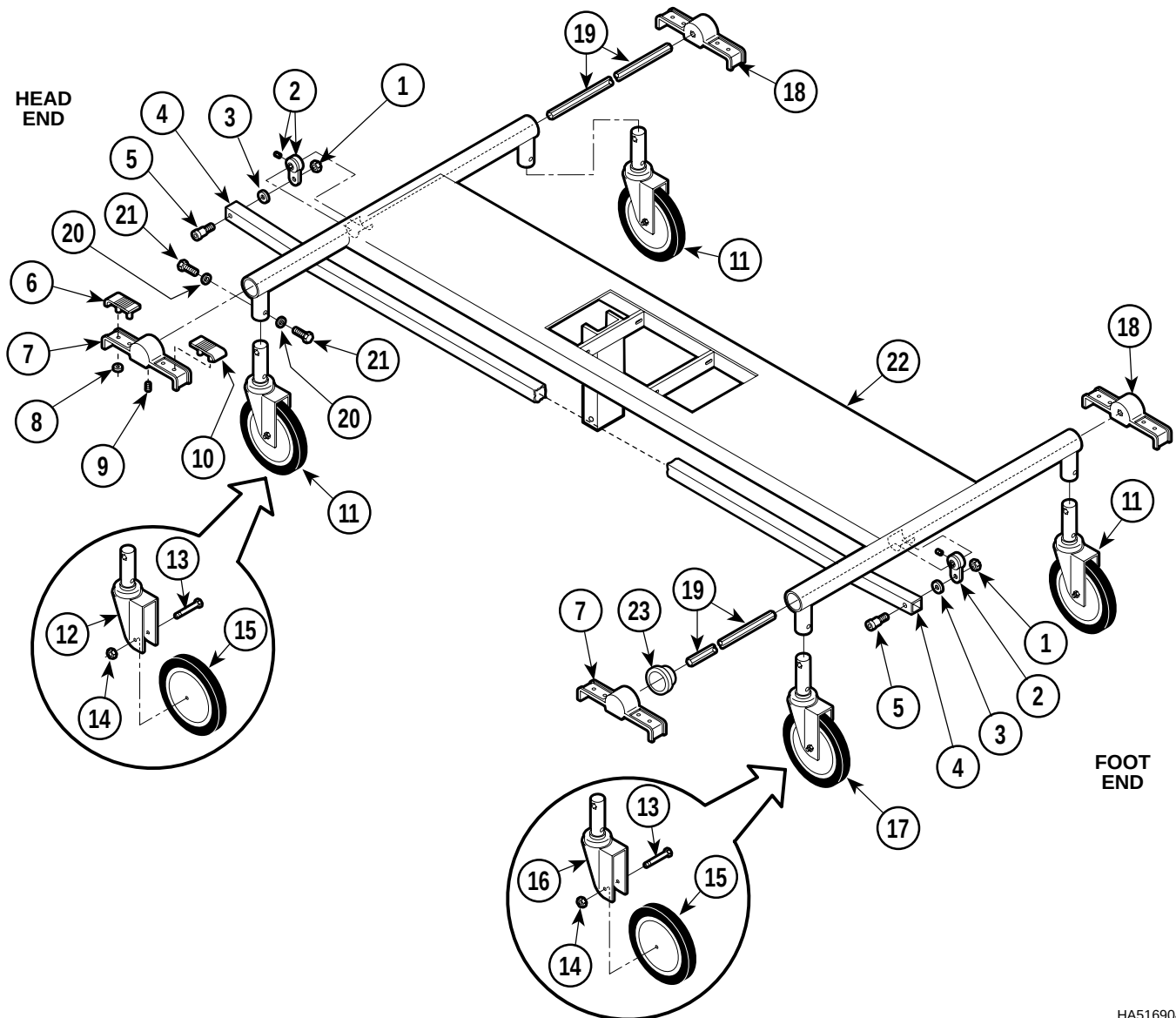
Used on Units with Serial Numbers: TAE-3000 thru TAE-3700

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2		• • 516-0154-00	• • Brake Puck	1
2	516-0036-00	Transfer Lever (Includes Set Screw [Apply Loctite #042-0025-00])	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly (Apply Loctite #042-0024-00))	AR
3	K902583-1	Washer	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
4	552-0093-00	Throw Rod	1	15	• 516-0061-01	• Black Caster (Round Profile)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2	16	• 516-0101-00	• Steer Caster Fork (One Per Caster Assembly)	AR
6	553-0006-01	Red Insert	4		• • 516-0154-00	• • Brake Puck	1
7	520-0021-10	Caster Control Pedal - R.H.	2	17	516-0065-02	Caster Assembly - Steer (Includes Items 13 thru 16)	1
8	042-0061-00	Retaining Ring	16	18	520-0021-11	Caster Control Pedal - L.H.	2
9	040-0250-21	Set Screw (Apply Loctite #042-0024-00)	4	19	551-0020-00	Actuator Bar	2
10	553-0006-02	Green Insert	4	20	045-0001-59	Washer	8
11	516-0065-03	Caster Assembly - Brake (Includes Items 12 thru 15)	3	21	042-0081-00	Screw (Apply Loctite #042-0025-00)	8
12	• 516-0101-01	• Brake Caster Fork (One Per Caster Assembly)	AR	22	530-0171-00	Chassis	1
				23	553-0020-00	Nylon Bearing	4

Always Specify Model & Serial Number

Caster Linkage Components

SECTION VI PARTS LIST



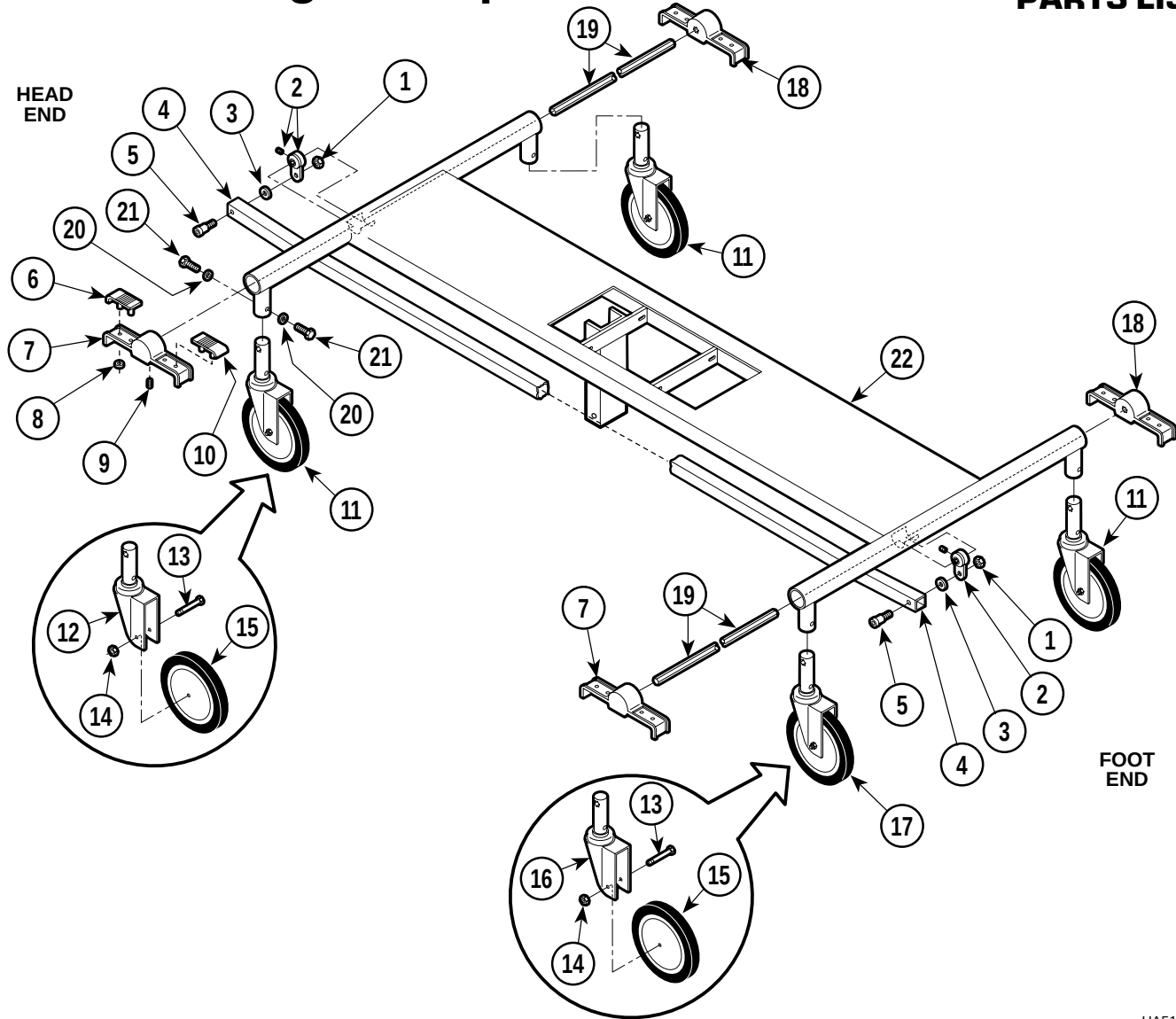
HA516904

Used on Units with Serial Numbers: TAE-3701 thru TAE-7601 TAF-2753 thru TAF-6094

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	• 516-0154-00	• Brake Puck	1	
2	516-0036-00	Transfer Lever (Includes Set Screw [Apply Loctite #042-0025-00])	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly (Apply Loctite #042-0024-00))	AR
3	K902583-1	Washer	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
4	552-0093-00	Throw Rod	1	15	• 516-0061-01	• Black Caster (Round Profile)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2	16	• 516-0101-00	• Steer Caster Fork (One Per Caster Assembly)	AR
6	553-0006-02	Green Insert	4	• 516-0154-00	• Brake Puck	1	
7	520-0021-11	Caster Control Pedal - L.H.	2	17	516-0065-02	Caster Assembly - Steer (Includes Items 13 thru 16)	1
8	042-0061-00	Retaining Ring	16	18	520-0021-10	Caster Control Pedal - R.H.	2
9	040-0250-21	Set Screw (Apply Loctite #042-0024-00)	4	19	551-0020-00	Actuator Bar	2
10	553-0006-01	Red Insert	4	20	045-0001-59	Washer	8
11	516-0065-03	Caster Assembly - Brake (Includes Items 12 thru 15)	3	21	042-0081-00	Screw (Apply Loctite #042-0025-00)	8
12	• 516-0101-01	• Brake Caster Fork (One Per Caster Assembly)	AR	22	530-0171-00	Chassis	1
				23	553-0020-00	Nylon Bearing	4

Always Specify Model & Serial Number

Caster Linkage Components



HA516902

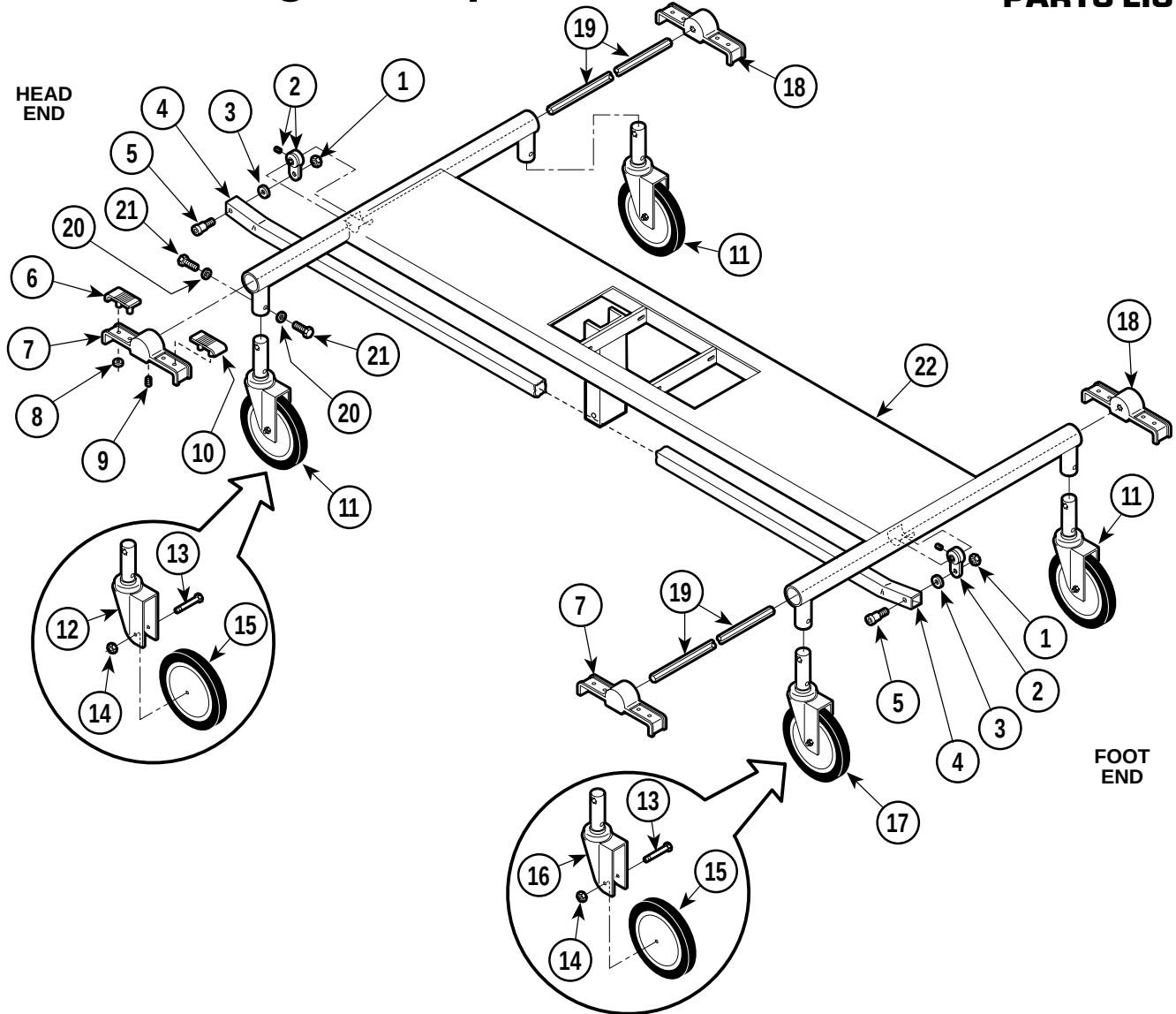
Used on Units with Serial Numbers:
TAE-7602 thru TAE-9075 TAF-6095 thru TAF-7322

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly (Apply Loctite #042-0024-00))	AR
2	516-0036-00	Transfer Lever (Includes Set Screw [Apply Loctite #042-0025-00])	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
3	K902583-1	Washer	2	15	• 516-0120-00	• Red Caster (Round Profile)	AR
4	552-0093-00	Throw Rod	1		• 516-0061-00	• Black Caster (Flat Profile)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2		• 516-0061-01	• Black Caster (Round Profile)	AR
6	553-0006-02	Green Insert	4	16	• 516-0101-00	• Steer Caster Fork (One Per Caster Assembly)	AR
7	520-0021-11	Caster Control Pedal - L.H.	2		• 516-0154-00	• Brake Puck	1
8	042-0061-00	Retaining Ring	16	17	516-0119-00	Caster Assembly - Steer (Includes Items 13 thru 16)	1
9	040-0250-21	Set Screw (Apply Loctite #042-0024-00)	4	18	520-0021-10	Caster Control Pedal - R.H.	2
10	553-0006-01	Red Insert	4	19	551-0020-00	Actuator Bar	2
11	516-0119-01	Caster Assembly - Brake (Includes Items 12 thru 15)	3	20	045-0001-59	Washer	8
12	• 516-0101-01	• Brake Caster Fork (One Per Caster Assembly)	AR	21	042-0081-02	Screw (Apply Loctite #042-0025-00)	8
	• 516-0154-00	• Brake Puck	1	22	530-0387-10	Chassis	1

Always Specify Model & Serial Number

Caster Linkage Components

SECTION VI PARTS LIST



HA516900

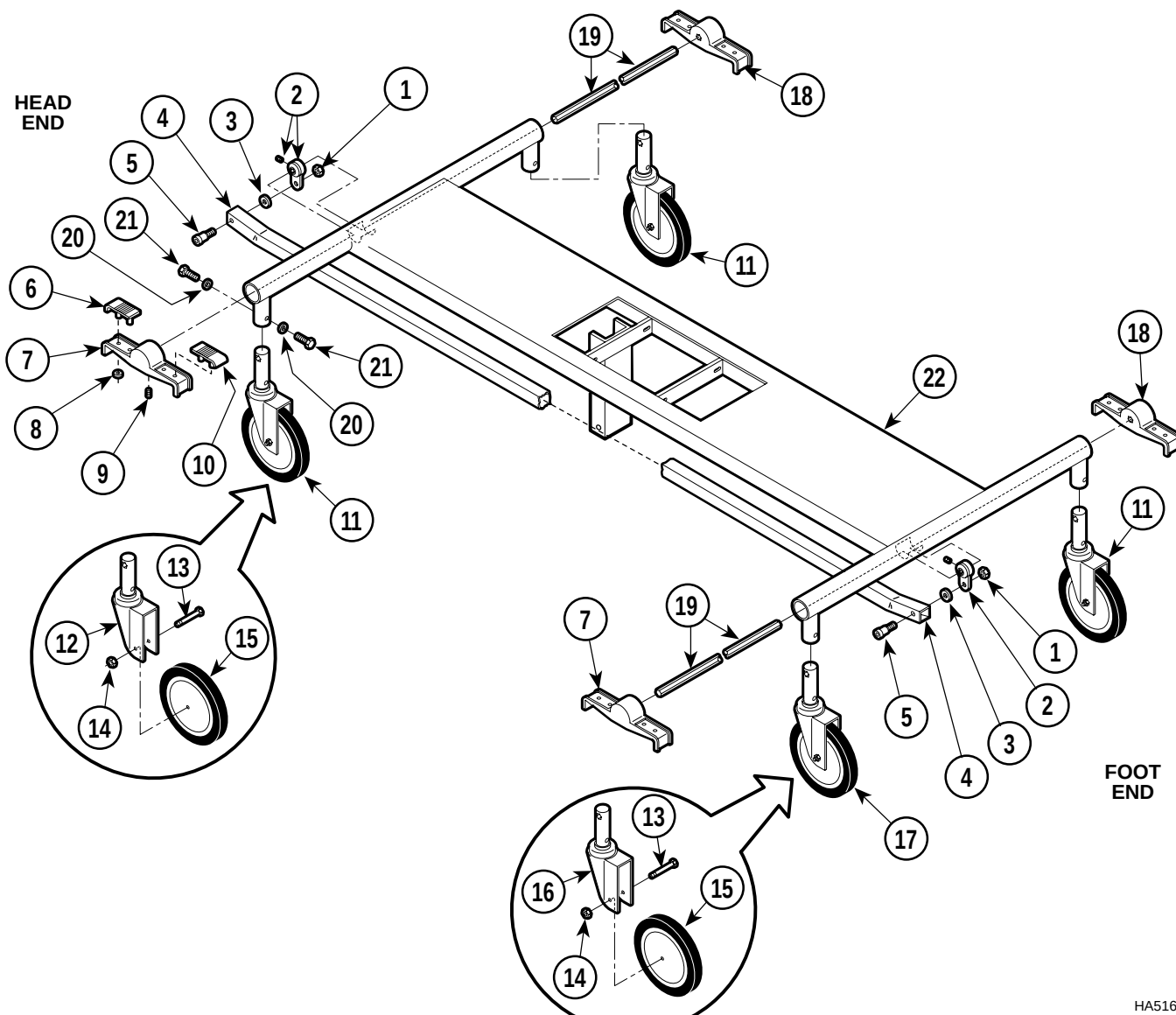
Used on Units with Serial Numbers: TAE-9076 thru TAE-10744 TAF-7323 thru TAF-8908

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly [Apply Loctite #042-0024-00])	AR
2	516-0036-00	Transfer Lever (Includes Set Screw [Apply Loctite #042-0025-00])	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
3	K902583-1	Washer	2	15	• 516-0120-00	• Red Caster (Round Profile)	AR
4	552-0462-10	Throw Rod	1		• 516-0061-00	• Black Caster (Flat Profile)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2		• 516-0061-01	• Black Caster (Round Profile)	AR
6	553-0006-02	Green Insert	4	16	• 516-0101-00	• Steer Caster Fork (One Per Caster Assembly)	AR
7	520-0021-11	Caster Control Pedal - L.H.	2		• 516-0154-00	• Brake Puck	1
8	042-0061-00	Retaining Ring	16	17	516-0119-00	Caster Assembly - Steer (Includes Items 13 thru 16)	1
9	040-0250-21	Set Screw (Apply Loctite #042-0024-00)	4	18	520-0021-10	Caster Control Pedal - R.H.	2
10	553-0006-01	Red Insert	4	19	551-0020-00	Actuator Bar	2
11	516-0119-01	Caster Assembly - Brake (Includes Items 12 thru 15)	3	20	045-0001-59	Washer	8
12	• 516-0101-01	• Brake Caster Fork (One Per Caster Assembly)	AR	21	042-0081-02	Screw (Apply Loctite #042-0025-00)	8
	• 516-0154-00	• Brake Puck	1	22	530-0387-10	Chassis	1

Always Specify Model & Serial Number

Caster Linkage Components

SECTION VI PARTS LIST



HA516905

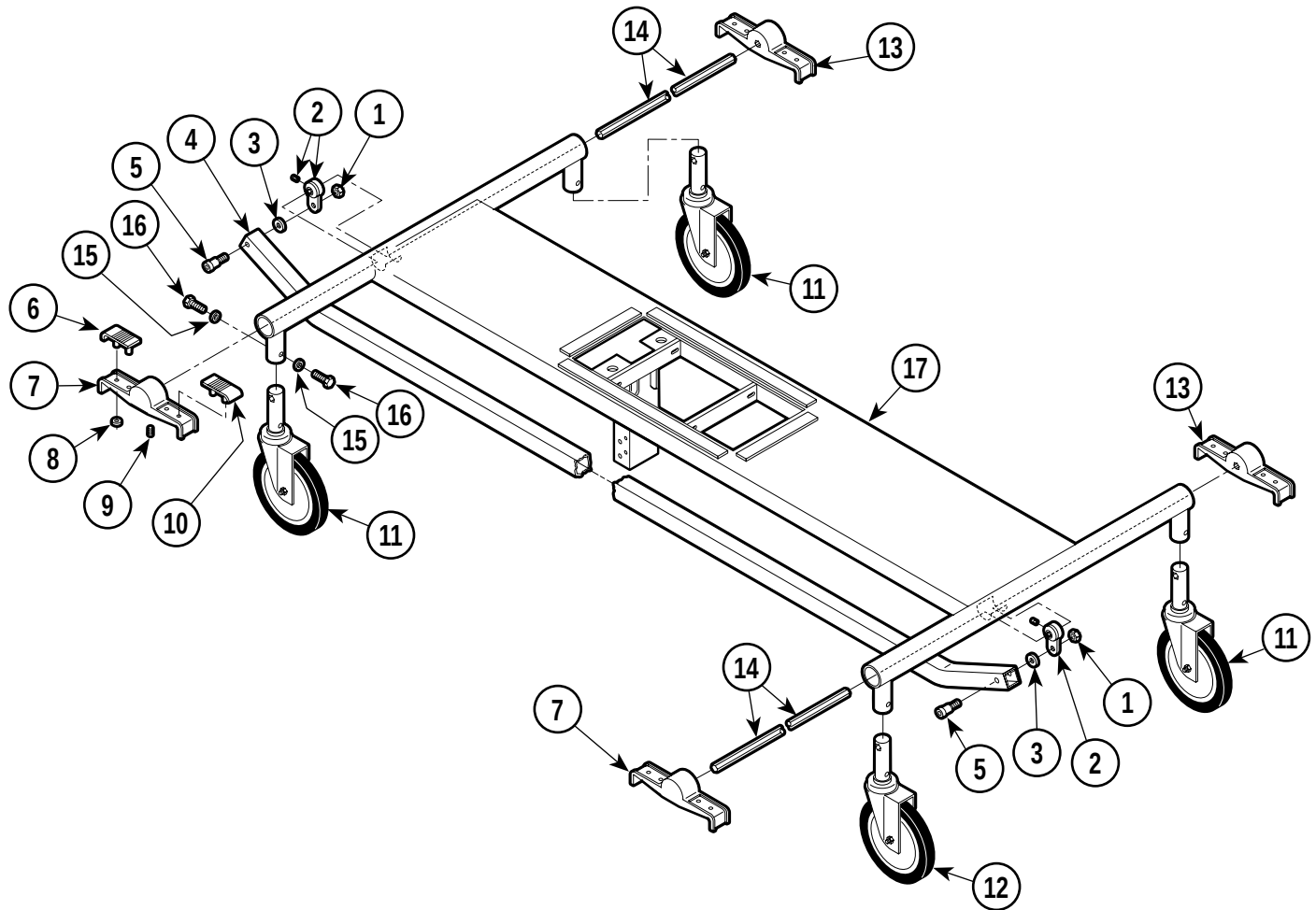
Used on Units with Serial Numbers: TAE-10745 thru TAE-11037 TAF-8909 thru TAF-9382

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	13	• 042-0081-01	• Bolt (One Per Caster Assembly [Apply Loctite #042-0024-00])	AR
2	516-0036-00	Transfer Lever (Includes Set Screw 042-0062-08 [Apply Loctite #042-0025-00])	2	14	• 041-0028-00	• Nut (One Per Caster Assembly)	AR
3	K902583-1	Washer	2	15	• 516-0120-00	• Red Caster (Round Profile)	AR
4	552-0462-10	Throw Rod	1		• 516-0061-00	• Black Caster (Flat Profile)	AR
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2		• 516-0061-01	• Black Caster (Round Profile)	AR
6	553-0260-01	Green Insert	4	16	• 516-0101-00	• Steer Caster Fork (One Per Caster Assembly)	AR
7	520-0046-11	Caster Control Pedal - L.H.	2		• 516-0154-00	• Brake Puck	1
8	042-0061-00	Retaining Ring	16	17	516-0119-00	Caster Assembly - Steer (Includes Items 13 thru 16)	1
9	040-0312-37	Set Screw (Apply Loctite #042-0024-00)	4	18	520-0046-10	Caster Control Pedal - R.H.	2
10	553-0260-00	Red Insert	4	19	551-0020-00	Actuator Bar	2
11	516-0119-01	Caster Assembly - Brake (Includes Items 12 thru 15)	3	20	045-0001-59	Washer	8
12	• 516-0101-01	• Brake Caster Fork (One Per Caster Assembly)	AR	21	042-0081-02	Screw (Apply Loctite #042-0025-00)	8
	• 516-0154-00	• Brake Puck	1	22	530-0387-10	Chassis	1

Always Specify Model & Serial Number

Caster Linkage Components

SECTION VI PARTS LIST



HA540102

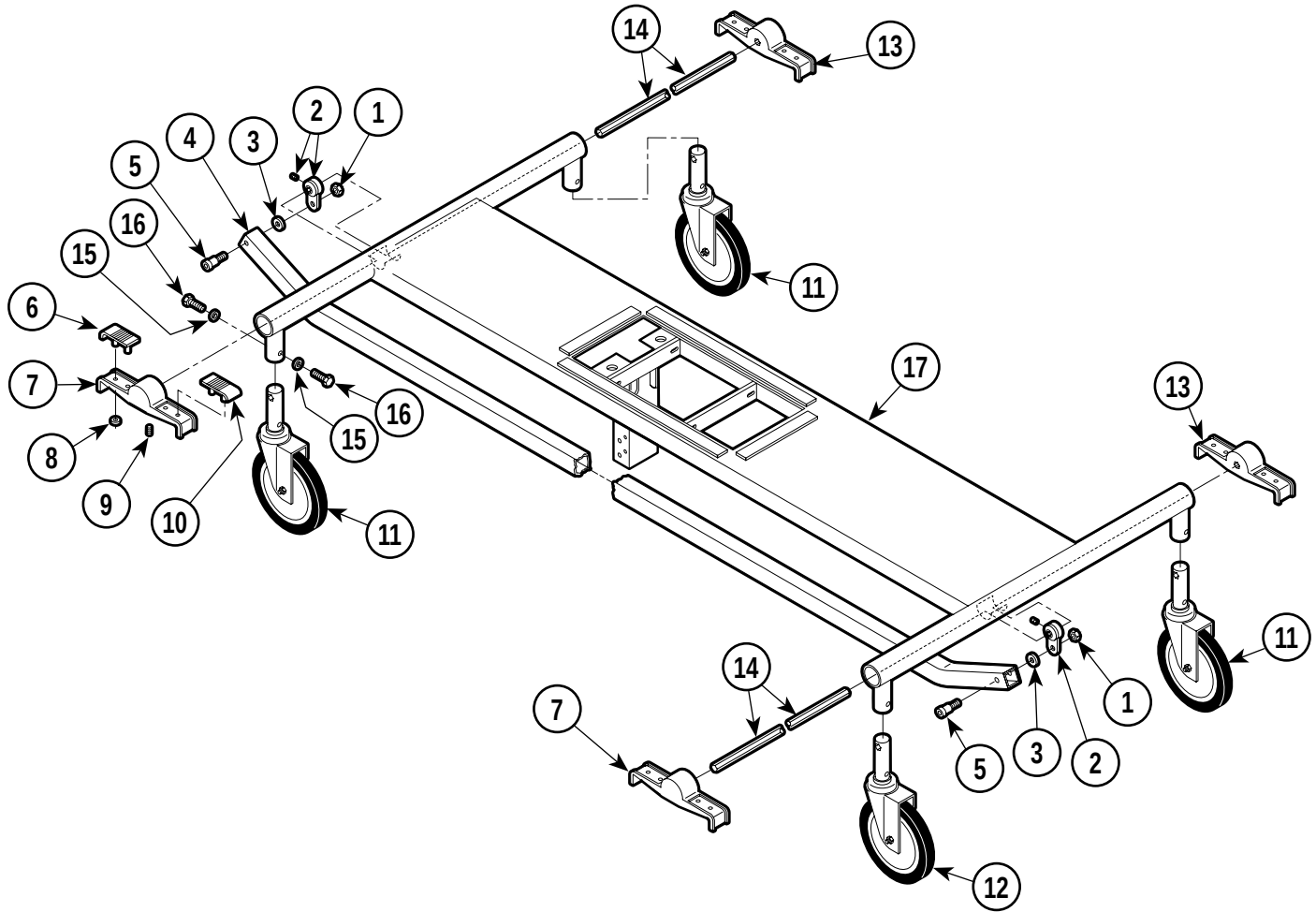
Used on Units with Serial Numbers: TAE-11038 thru TAE-11827 TAF-9383 thru TAF-10306

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K903439	Nut	2	9	040-0312-37	Set Screw (Apply Loctite #042-0024-00)	4
2	516-0036-00	Transfer Lever (Includes Set Screw 042-0062-08 [Apply Loctite #042-0025-00])	2	10	553-0260-00	Red Insert	4
3	K902583-1	Washer	2	11	516-0119-01	Caster Assembly - Brake	3
4	552-0462-10	Transfer Channel	1	12	516-0119-00	Caster Assembly - Steer	1
5	042-0014-20	Screw (Apply Loctite #042-0024-00)	2	13	520-0046-10	Caster Control Pedal - R.H.	2
6	553-0260-01	Green Insert	4	14	551-0020-00	Actuator Bar	2
7	520-0046-11	Caster Control Pedal - L.H.	2	15	045-0001-59	Washer	8
8	042-0061-00	Retaining Ring	16	16	042-0081-02	Screw (Apply Loctite #042-0025-00)	8
				17	530-0834-10	Chassis	1

Always Specify Model & Serial Number

Caster Linkage Components

SECTION VI PARTS LIST



HA540105

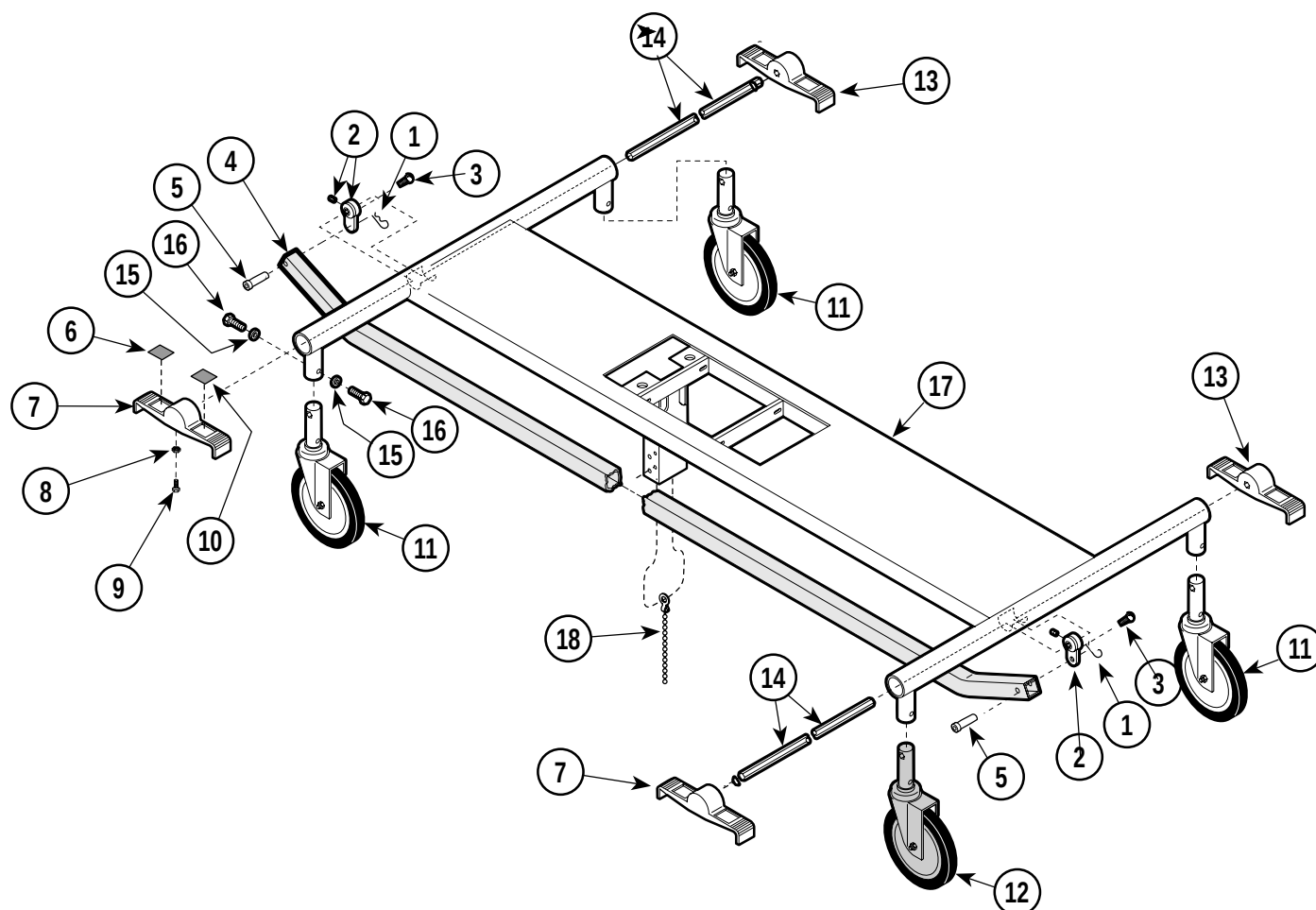
Used on Units with Serial Numbers: TAE-11828 thru TAE -11883 TAF-10307 thru TAF-10363

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0063-00	Rue Ring	2	9	040-0312-37	Set Screw (Apply Loctite #042-0024-00)	4
2	520-0083-00	Transfer Link (Includes Set Screw 042-0062-08 [Apply Loctite #042-0025-00]) ..	2	10	553-0260-00	Red Insert	4
3	040-0010-76	Screw	2	11	516-0119-01	Caster Assembly - Brake	3
4	550-0918-00	Transfer Channel	1	12	516-0119-00	Caster Assembly - Steer	1
5	042-0602-22	Clevis Pin	2	13	520-0046-10	Caster Control Pedal - R.H.	2
6	553-0260-01	Green Insert	4	14	551-0020-00	Actuator Bar	2
7	520-0046-11	Caster Control Pedal - L.H.	2	15	045-0001-59	Washer	8
8	042-0061-00	Retaining Ring	16	16	042-0081-02	Screw (Apply Loctite #042-0025-00)	8
				17	530-0969-10	Chassis	1

Always Specify Model & Serial Number

SECTION VI

PARTS LIST

HA540106

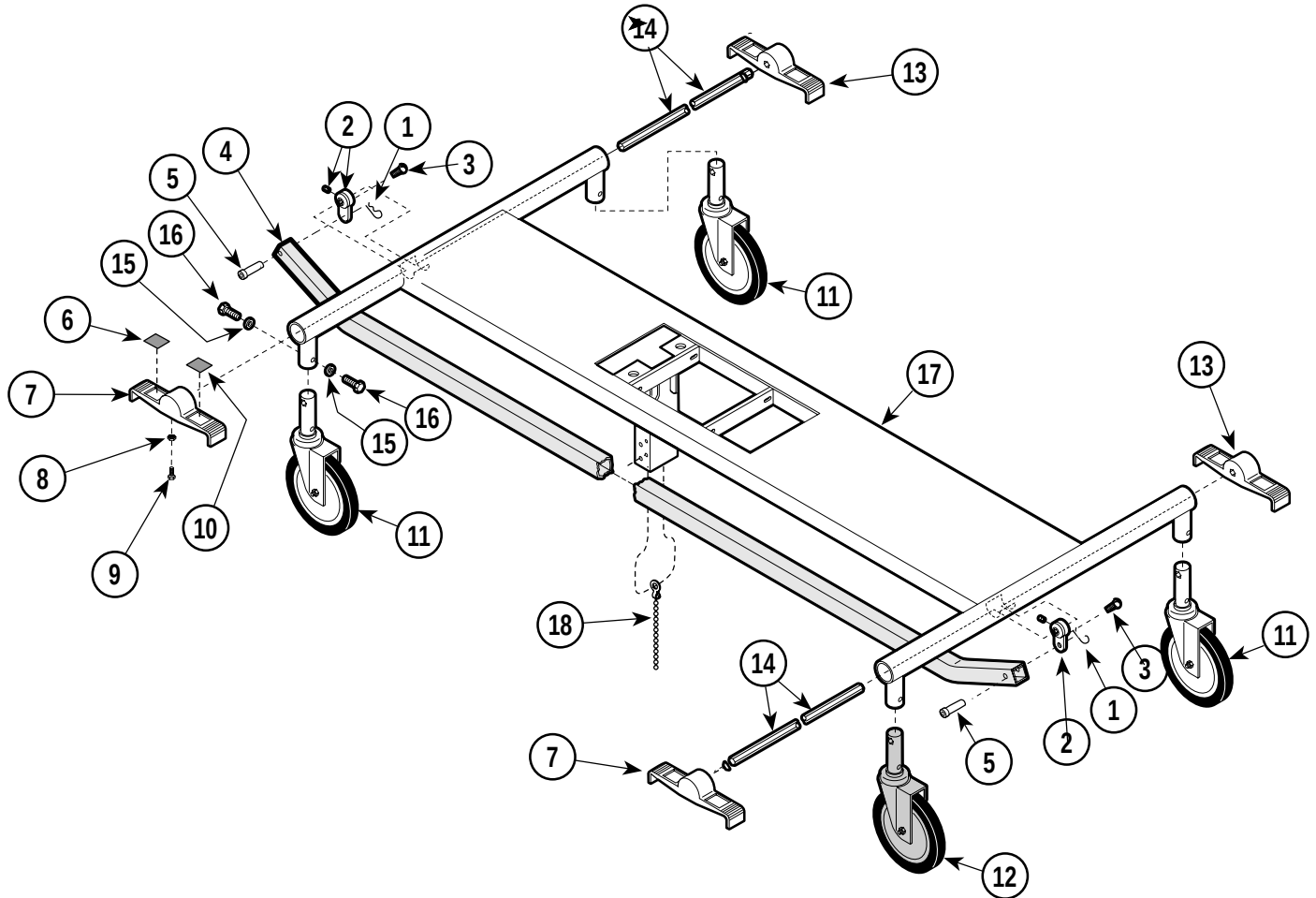
Used on Units with Serial Numbers:
TAE-11884 thru TAE-12294 TAF-10364 thru TAF-10665

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0063-00	Rue Ring	2	11		Caster Assembly - Brake (Refer to "Caster Assembly" Elsewhere)	3
2	520-0083-00	Transfer Link (True Direction)	2				
	520-0084-00	Transfer Link (Rite Trac Steering)	2				
		(Includes Set Screw 042-0062-08)		12		Caster Assembly- Steer (Refer to "Caster Assembly" Elsewhere)	Ref
3	040-0010-76	Screw	4	13	553-0125-01	Caster Control Pedal - L.H.	2
4	550-0918-00	Transfer Channel	1	14	551-0020-00	Actuator Bar	2
5	042-0602-22	Clevis Pin	2	15	045-0001-59	Washer	8
6	561-0319-00	Steer Insert	4	16	042-0081-02	Screw	8
7	553-0125-00	Caster Control Pedal - R.H.	2	17	530-0968-10	Chassis Frame (520, 525)	1
8	041-0312-05	Nut	4		530-0969-10	Chassis Frame (510, 515)	1
9	040-0312-56	Screw	4	18		Grounding Chain (Refer to "Chassis Components" Elsewhere)	Ref
10	561-0320-00	Brake Insert	4				

Always Specify Model & Serial Number

Caster Linkage Components

SECTION VI PARTS LIST



TORQUE LEGEND	
ITEM #	TORQUE
16	25 - 30 FT-LBS (33.7 - 40.5 N•M)

HA540106

Used on Units with Serial Numbers: TAE-12295 thru Present TAF-10666 thru Present

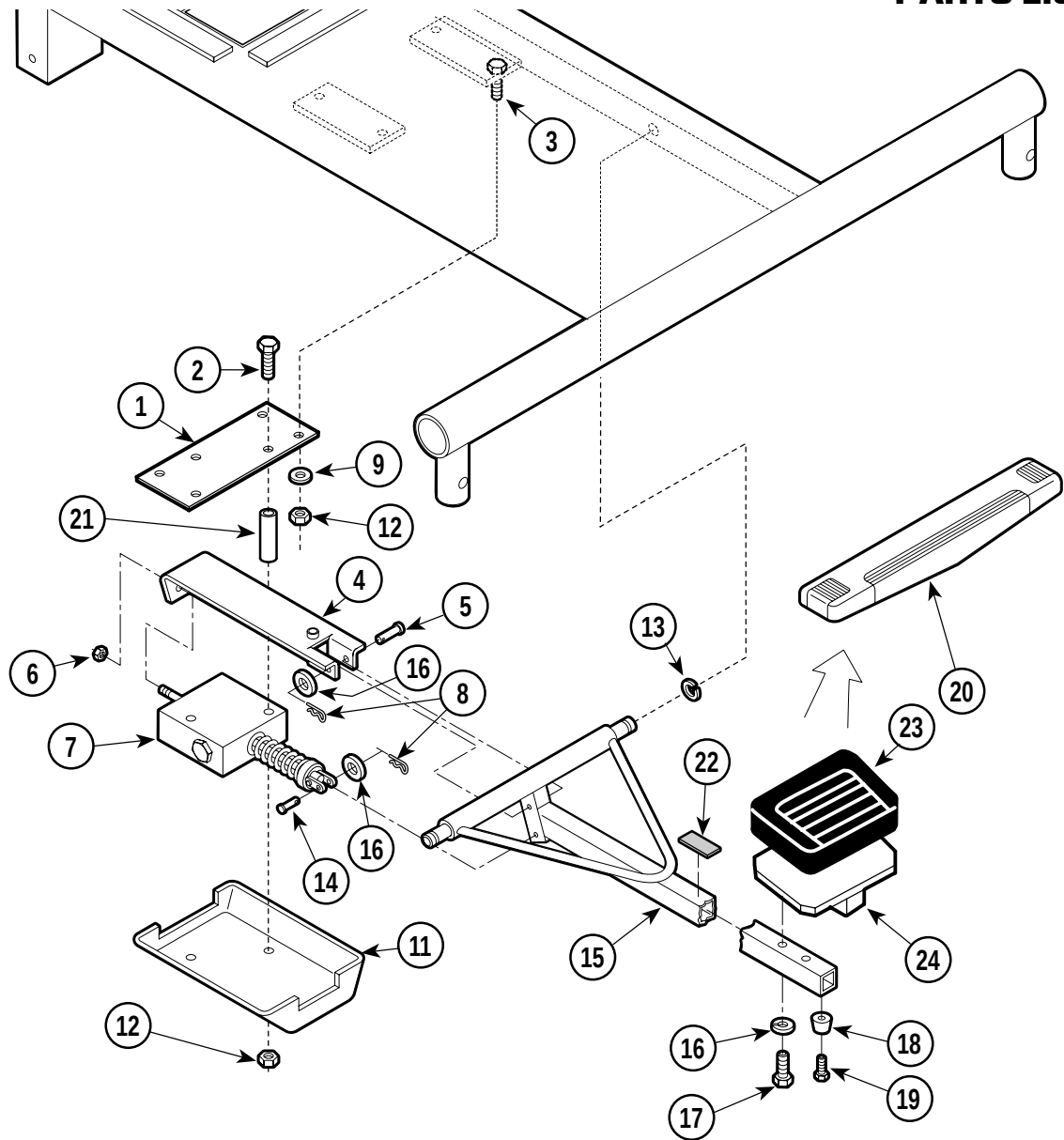
Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	042-0063-00	Rue Ring	2	11		Caster Assembly - Brake (Refer to "Caster Assembly" Elsewhere)	3
2	520-0083-00	Transfer Link (True Direction)	2	12		Caster Assembly- Steer (Refer to "Caster Assembly" Elsewhere)	Ref
	520-0084-00	Transfer Link (Rite Trac Steering)	2	13	553-0125-01	Caster Control Pedal - L.H.	2
3	040-0010-76	Screw	4	14	551-0020-00	Actuator Bar	2
4	550-0918-00	Transfer Channel	1	15	045-0001-59	Washer	8
5	042-0602-22	Clevis Pin	2	16	042-0081-02	Screw	8
6	561-0319-00	Steer Insert	4	17	530-0968-10	Chassis Frame (520, 525)	1
7	553-0125-00	Caster Control Pedal - R.H.	2		530-0969-10	Chassis Frame (510, 515)	1
8	041-0312-05	Nut	4	18		Grounding Chain (Refer to "Chassis Components" Elsewhere)	Ref
9	040-0312-56	Screw	4				
10	561-0320-00	Brake Insert	4				

Always Specify Model & Serial Number

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Hydraulic Linkage

SECTION VI PARTS LIST



301

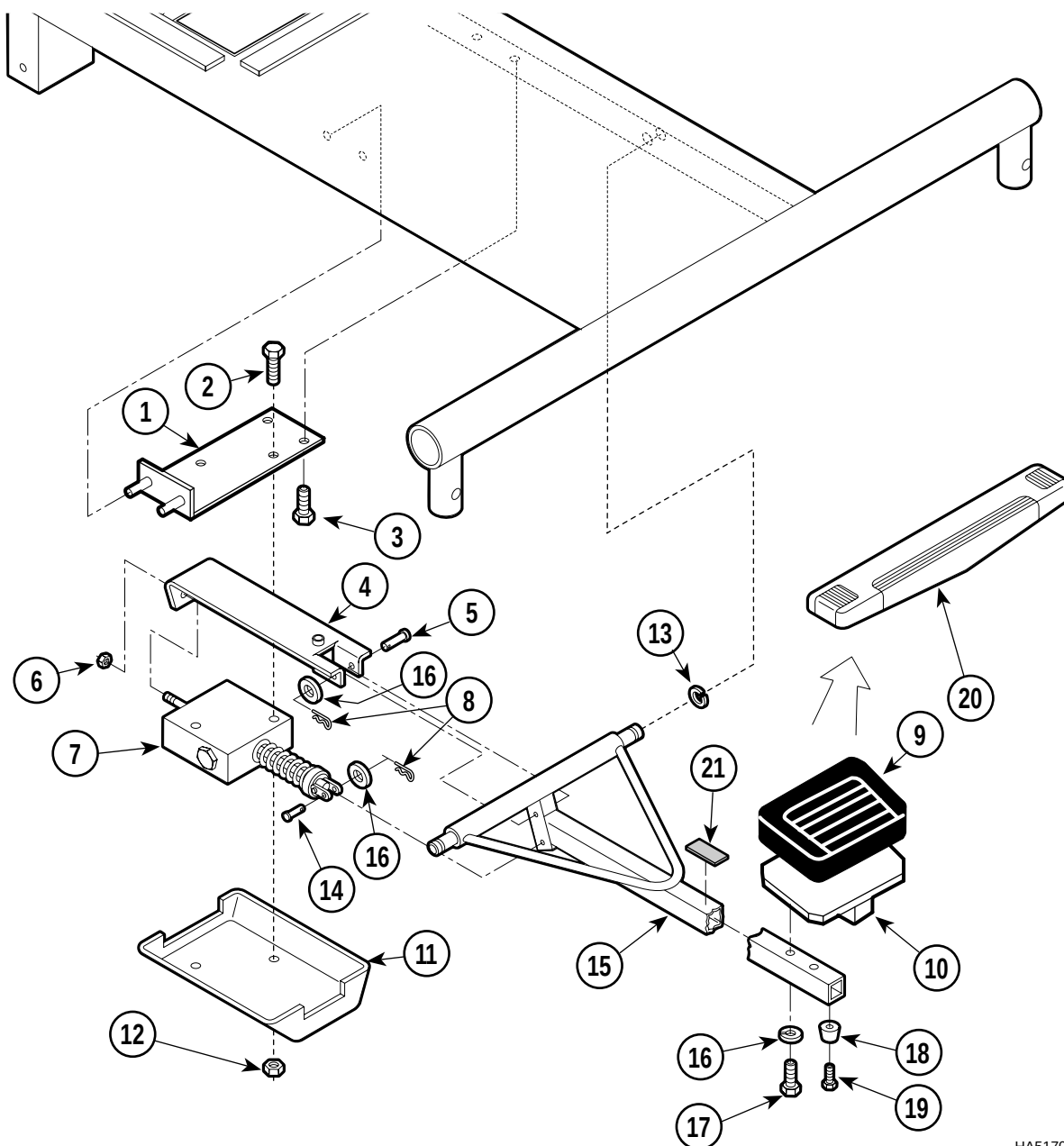
Used on Units with Serial Numbers: TAE-1000 thru TAE-2236 TAF-1000 thru TAF-1946

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	551-0032-00	Pump Plate	1	13	042-0007-00	E-Ring	2
2	040-0250-19	Bolt	2	14	042-0602-07	Clevis Pin	1
3	040-0250-36	Bolt	4	15	530-0086-00	Pump Pedal Weldment	1
4	530-0046-00	Release Bar	1	16	045-0001-47	Washer	3
5	042-0602-06	Clevis Pin	1	17	040-0250-27	Screw	2
6	041-0250-01	Nut	1	18	553-0065-00	Round Bumper	1
7		Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	Ref	19	040-0010-45	Screw	1
8	042-0063-01	Rue Ring Cotter	2	20	520-0001-00	Elevation Pedal Wide	1
9	045-0001-23	Washer	4	21	016-0138-05	Rolled Spacer	2
10	041-0375-10	Nut	2	22	053-0013-00	Bumper	1
11	553-0031-00	Pump Cover	1		502-0029-00	Pedal Kit	1
12	041-0250-01	Nut	6	23	• K101084	• Pad	1
				24	• 530-0328-10	• Pedal Weldment	1

Always Specify Model & Serial Number

Hydraulic Linkage

SECTION VI PARTS LIST



HA517002

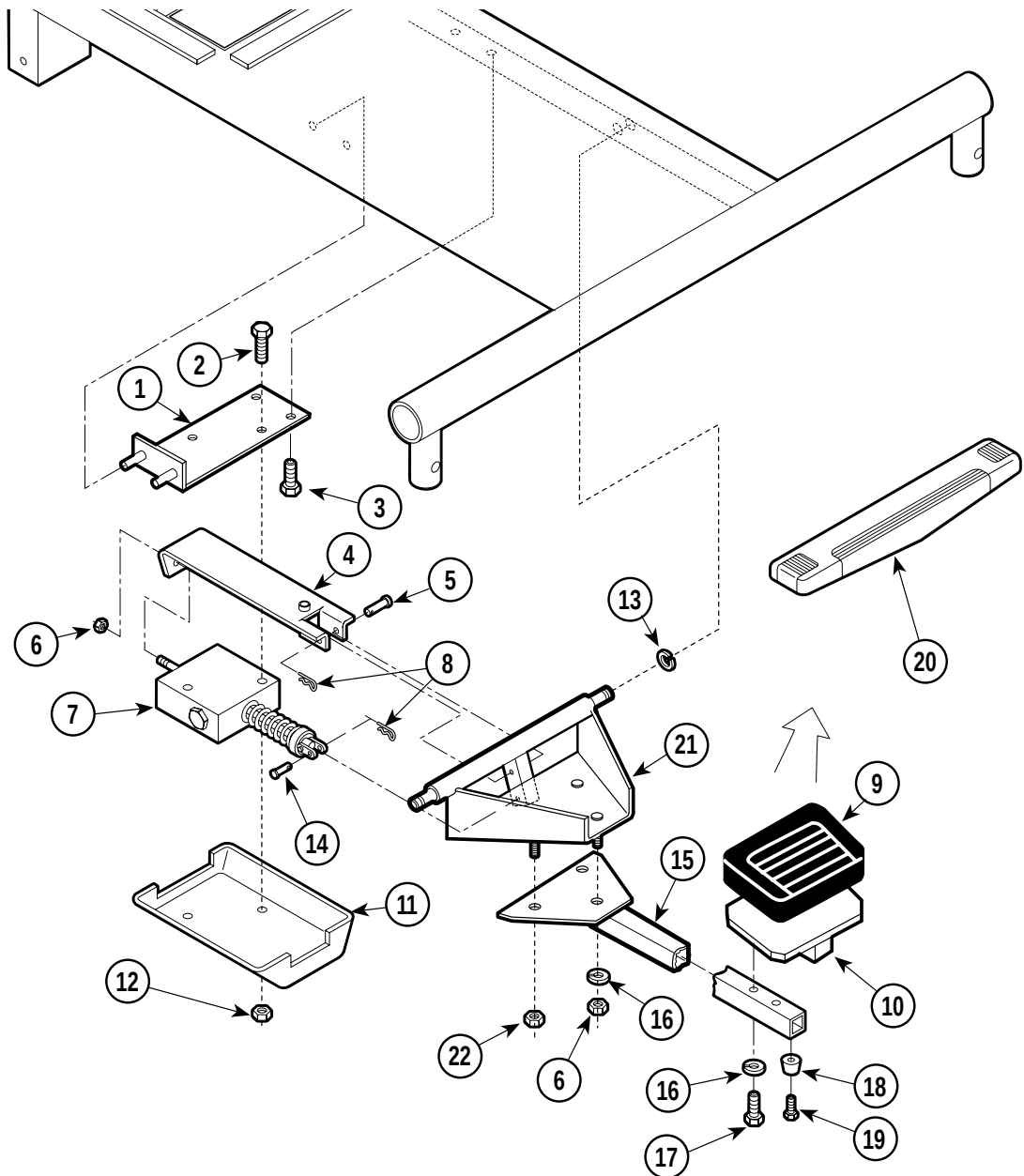
Used on Units with Serial Numbers: TAE-2237 thru TAE-5599 TAF-1947 thru TAF-4593

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	530-0144-00	Pump Plate	1	11	553-0031-00	Pump Cover	1
2	040-0375-29	Bolt	2	12	041-0375-10	Nut	6
3	040-0250-68	Bolt	4	13	042-0007-00	E-Ring	2
4	550-0144-00	Release Bar	1	14	042-0602-08	Clevis Pin	1
5	042-0602-06	Clevis Pin	1	15	530-0147-00	Pump Pedal Weldment	1
6	041-0250-01	Nut	1	16	045-0001-47	Washer	3
7		Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	Ref	17	040-0250-27	Screw	2
8	042-0063-01	Rue Ring Cotter	2	18	553-0065-00	Round Bumper	1
	502-0029-00	Pedal Kit	1	19	040-0010-45	Screw	1
9	• K101084	• Pad (Optional)	1	20	520-0001-00	Elevation Pedal Wide	1
10	• 530-0328-10	• Pedal (Optional)	1	21	053-0013-00	Bumper	1

Always Specify Model & Serial Number

Hydraulic Linkage

SECTION VI PARTS LIST



HA517003

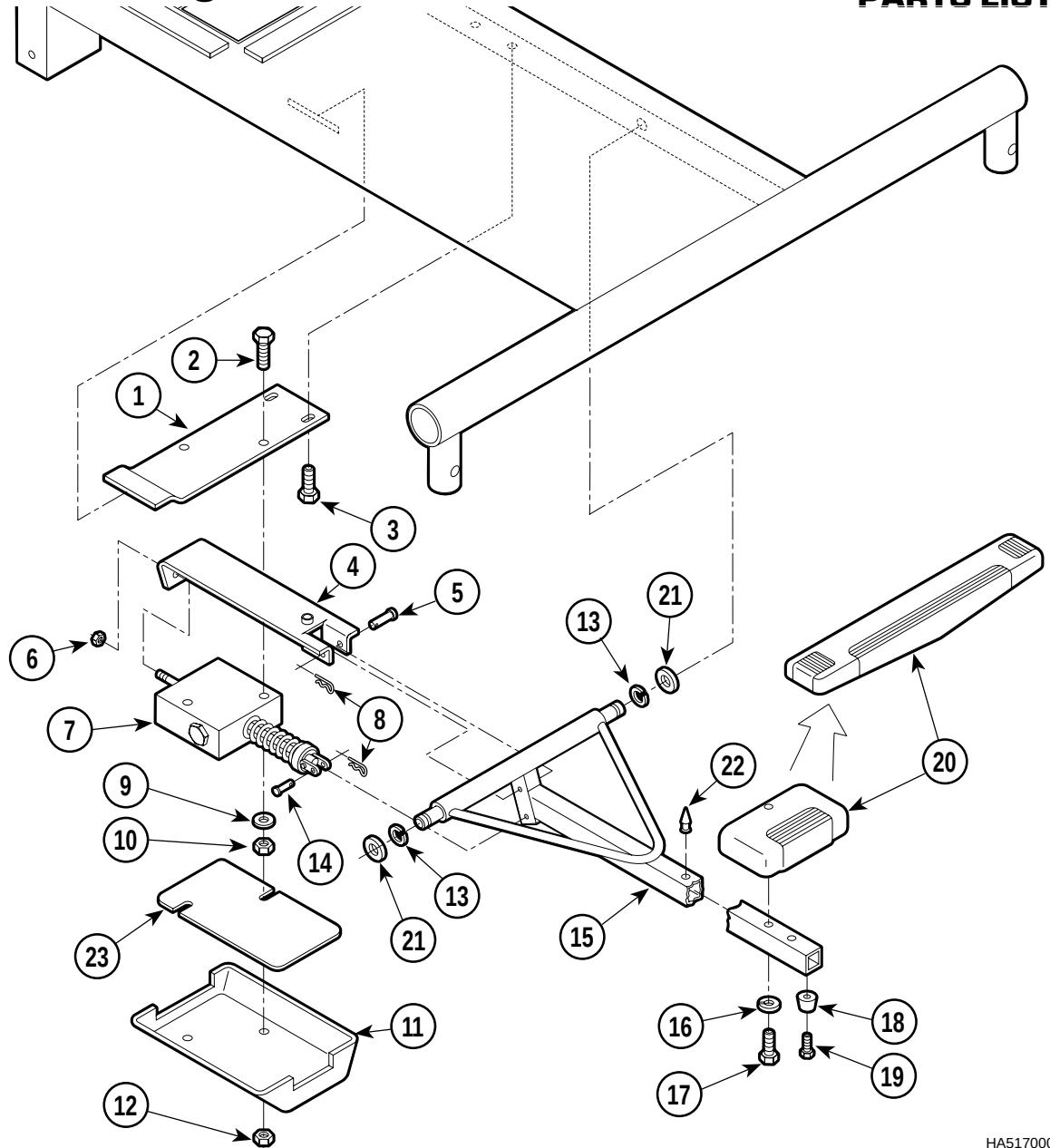
Used on Units with Serial Numbers: TAE-5600 thru TAE-6480 TAF-4594 thru TAF-5034

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	530-0144-00	Pump Plate	1	12	041-0375-10	Nut	2
2	040-0375-29	Bolt	2	13	042-0007-00	E-Ring	2
3	040-0250-68	Bolt	4	14	042-0602-08	Clevis Pin	1
4	550-0144-00	Release Bar	1	15	530-0330-10	Pump Pedal Weldment	1
5	042-0602-06	Clevis Pin	1	16	045-0001-02	Washer	1
6	041-0250-01	Nut	2	17	040-0250-27	Screw	2
7		Elevation Pump (Refer to Elevation Pump Kit" Elsewhere)	Ref	18	553-0065-00	Round Bumper	1
8	042-0063-01	Rue Ring Cotter	2	19	040-0010-45	Screw	1
	502-0029-00	Elevation Pedal	1	20	520-0001-00	Elevation Pedal (Wide [Optional])	1
9	• K101084	• Pad	2	21	530-0329-10	Upper Pedal Weldment	1
10	• 530-0328-10	• Pedal	2	22	041-0250-13	Nut	2
11	553-0031-00	Pump Cover	1				

Always Specify Model & Serial Number

Hydraulic Linkage

SECTION VI PARTS LIST

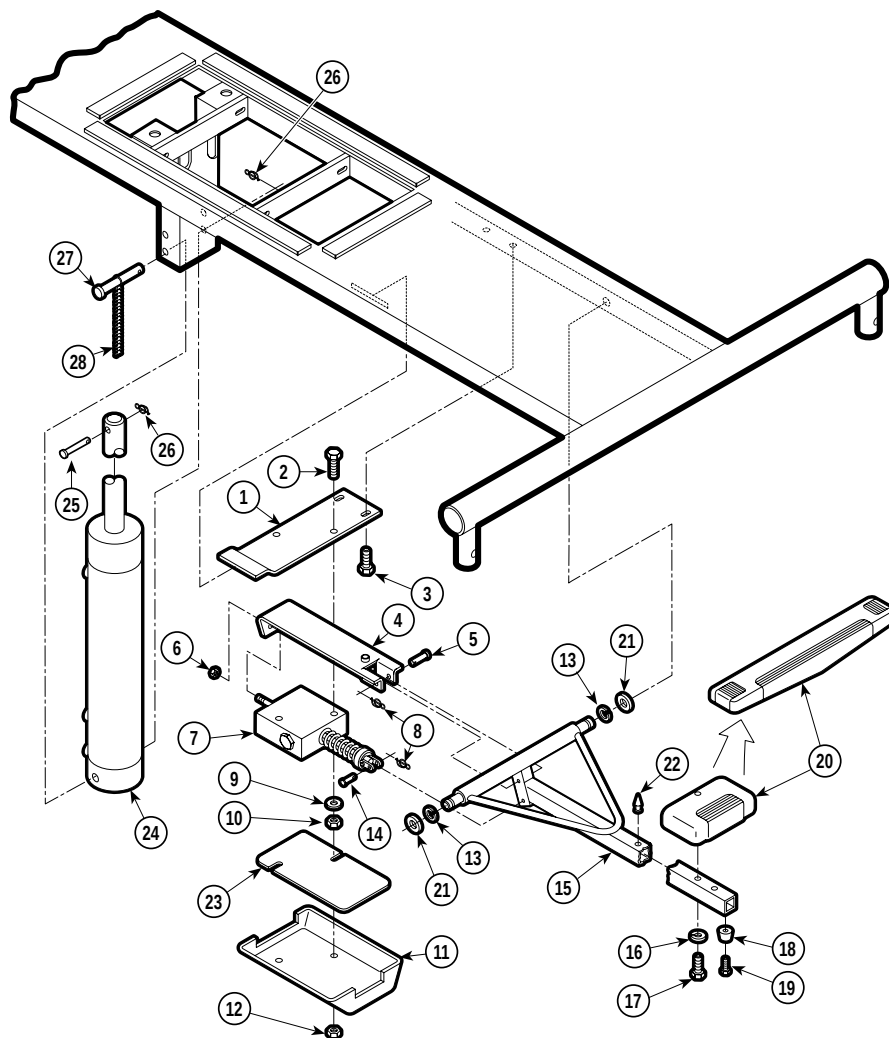


HA517000

Used on Units with Serial Numbers:
TAE-6481 thru TAE-11037 TAF-5035 thru TAF-9382

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	550-0583-10	Pump Plate	1	13	042-0007-00	E-Ring	2
2	040-0375-29	Bolt	2	14	042-0602-14	Clevis Pin	1
3	040-0250-122	Bolt	2	15	530-0513-10	Pump Pedal Weldment	1
4	550-0293-10	Release Bar	1	16	045-0001-47	Washer	2
5	042-0602-15	Clevis Pin	1	17	040-0250-27	Screw	2
6	041-0250-01	Nut	1	18	553-0065-00	Round Bumper	1
7		Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	Ref	19	040-0010-45	Screw	1
8	042-0063-01	Rue Ring Cotter	2	20	520-0023-10	Elevation Pedal (Narrow)	1
9	045-0001-49	Washer	2		520-0001-00	Elevation Pedal (Wide [Optional])	1
10	041-0375-02	Nut	2	21	045-0001-01	Washer	2
11	553-0031-00	Pump Cover	1	22	553-0162-00	Bumper	1
12	041-0375-10	Nut	2	23	566-0109-00	Oil Pad	1

Always Specify Model & Serial Number



HA539700

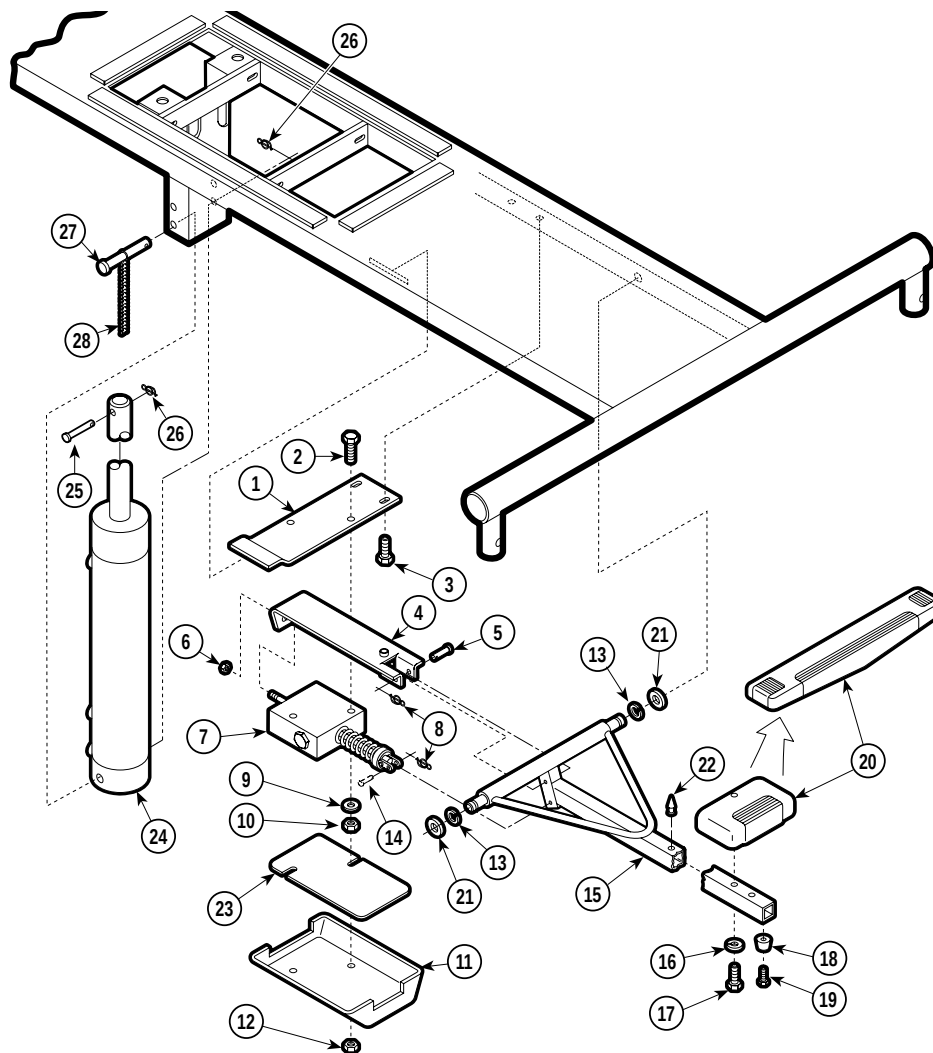
Used on Units with Serial Numbers:
TAE-11038 thru TAE-11593 TAF-9383 thru TAF-10048

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	K59134001	Foot End Pump w/Narrow Pedal (Shown)		10	• 041-0375-02	•Nut	2
	K59135001	Foot End Pump w/Wide Pedal (shown)		11	• 553-0031-00	Pump Cover	1
	K59136001	Head End Pump w/Narrow Pedal		12	• 041-0375-10	• Nut	2
	K59137001	Head End Pump w/Wide Pedal		13	• 042-0007-00	• E-Ring	2
	K59138001	Dual Pumps w/Narrow Pedal		14	• 042-0602-14	• Clevis Pin	1
		True Direction Steering (Double Quantity)		15	• 530-0513-10	• Pump Pedal Weldment	1
	K59139001	Dual Pumps w/Wide Pedal		16	• 045-0001-47	• Washer	2
		True Direction Steering (Double Quantity)		17	• 040-0250-27	• Screw	2
	K59140001	Dual Pumps w/Narrow Pedal		18	• 553-0065-00	• Round Bumper	1
		Rite Trac Steering (Double Quantity)		19	• 040-0010-45	• Screw	1
	K59141001	Dual Pumps w/Wide Pedal		20	• 520-0023-10	• Elevation Pedal (Narrow)	
		Rite Trac Steering (Double Quantity)			• 520-0001-00	• Elevation Pedal (Wide)	1
1	• 550-0583-10	• Pump Plate	1	21	• 045-0001-01	• Washer	2
2	• 040-0250-19	• Bolt	2	22	• 553-0162-00	• Bumper	1
3	• 040-0250-122	• Bolt	2	23	• 566-0109-00	• Oil Pad	1
4	• 550-0293-10	• Release Bar	1	24	•	• Cylinder (Refer to "Refer to "Elevation	
5	• 042-0602-15	• Clevis Pin	1			Cylinder Assembly" Elsewhere)	Ref
6	• 041-0250-01	• Nut	1	25	• 042-0602-03	• Clevis Pin	1
7	•	• Elevation Pump (Refer to "Elevation		26	• 042-0063-00	• Rue Ring	2
		Pump Kit" Elsewhere)"	Ref	27	• 042-0005-01	• Clevis Pin	1
8	• 042-0063-01	• Rue Ring Cotter	2	28	529-0180-00	Gruond Chain Assembly	1
9	• 045-0001-49	• Washer	2				

Always Specify Model & Serial Number

Hydraulic Linkage

SECTION VI PARTS LIST



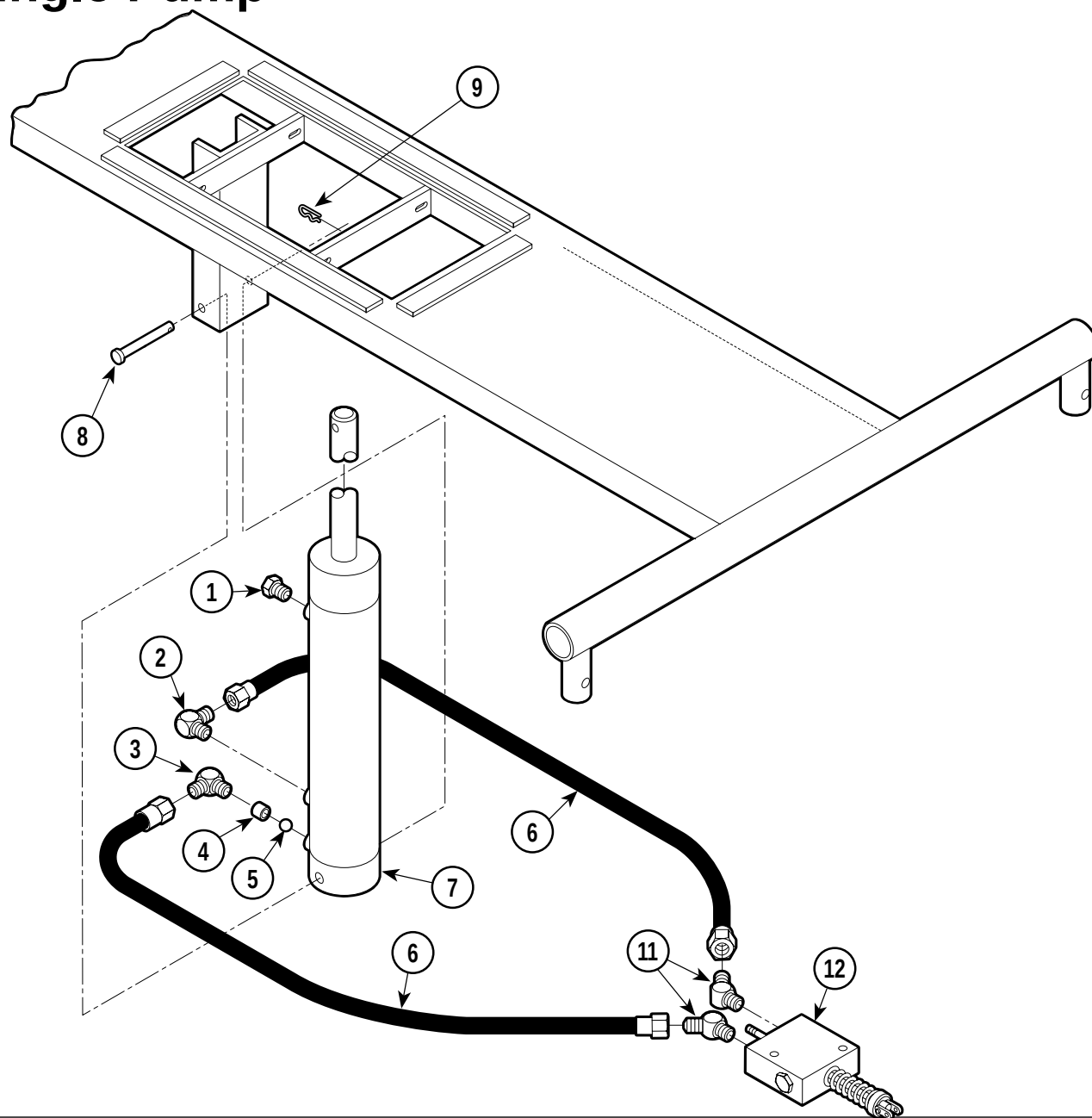
HA539700

Used on Units with Serial Numbers: TAE-11594 thru Present TAF- 10049 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	K59134001	Foot End Pump w/Narrow Pedal (Shown)		9	•045-0001-49	Washer	2
	K59135001	Foot End Pump w/Wide Pedal (shown)		10	•041-0375-10	Nut	2
	K59136001	Head End Pump w/Narrow Pedal		11	•553-0031-00	Pump Cover	1
	K59137001	Head End Pump w/Wide Pedal		12	•041-0375-02	• Nut	2
	K59138001	Dual Pumps w/Narrow Pedal		13	•042-0007-00	• E-Ring	2
		Ture Direction Steering (Double Quantity)		14	•042-0602-14	• Clevis Pin	1
	K59139001	Dual Pumps w/Wide Pedal		15	•530-0939-10	• Pump Pedal Weldment	1
		True Direction Steering (Double Quantity)		16	•045-0001-47	• Washer	2
	K59140001	Dual Pumps w/Narrow Pedal		17	•040-0250-27	• Screw	2
		Rite Trac Steering (Double Quantity)		18	•553-0065-00	• Round Bumper	1
	K59141001	Dual Pumps w/Wide Pedal		19	•040-0010-45	• Screw	1
		Rite Trac Steering (Double Quantity)		20	•520-0023-10	• Elevation Pedal (Narrow)	
1	•550-0583-10	Pump Plate	1		•520-0001-00	• Elevation Pedal (Wide)	1
2	•040-0375-29	Bolt	2	21	•045-0001-01	• Washer	2
3	•040-0250-122	• Bolt	2	22	•553-0162-00	• Bumper	1
4		Release Bar (Refer to "Elevation Pump Kit" Elsewhere)	Ref	23	•566-0109-00	• Oil Pad	1
5	•042-0602-15	• Clevis Pin	1	24	•	• Cylinder (Refer to "Elevation Cylinder Assemblt" Elsewhere)	Ref
6	•041-0250-01	• Nut	1	25	•042-0602-03	• Clevis Pin	1
7	•	• Hydraulic Assembly (Refer to "Elevation PumpKit" Elsewhere)	Ref	26	•042-0063-00	• Rue Ring	2
8	•042-0063-01	• Rue Ring Cotter	2	27	•042-0005-01	• Clevis Pin	1
				28	529-0180-00	Ground Chain Assembly	1

Always Specify Model & Serial Number

Hydraulic System - Single Pump



HA517201

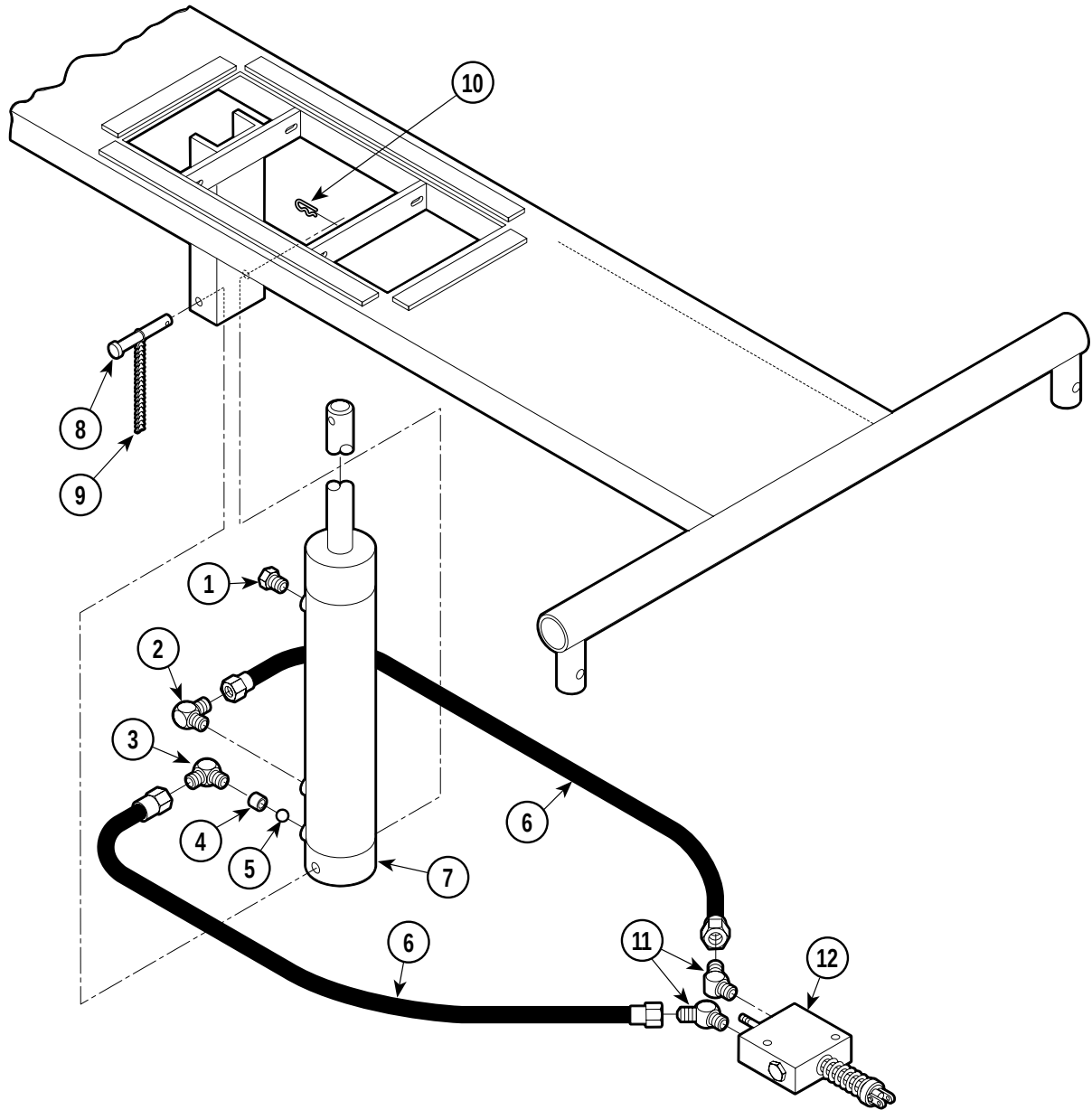
Used on Units with Serial Numbers:
TAE-1000 thru TAE-3910 TAF-1000 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	7		Elevation Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	1
2	014-0173-00	Elbow - 90° (Apply Loctite Sealant #K902659)	1	8	042-0005-08	Clevis Pin	1
3	014-0173-01	Elbow - 90° (Apply Loctite Sealant #K902659)	1	9	529-0180-00	Ground Chain Assembly	1
4	557-0040-00	Restrictor Seat	1	10	042-0063-00	Rue Ring	1
5	K904395	Nylon Ball	1	11	014-0175-00	Elbow - 45° (Apply Loctite Sealant #K902659)	2
6	014-0177-00	Hose Assembly	2	12		Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	Ref

Always Specify Model & Serial Number

Hydraulic System - Single Pump

SECTION VI PARTS LIST



HA517200

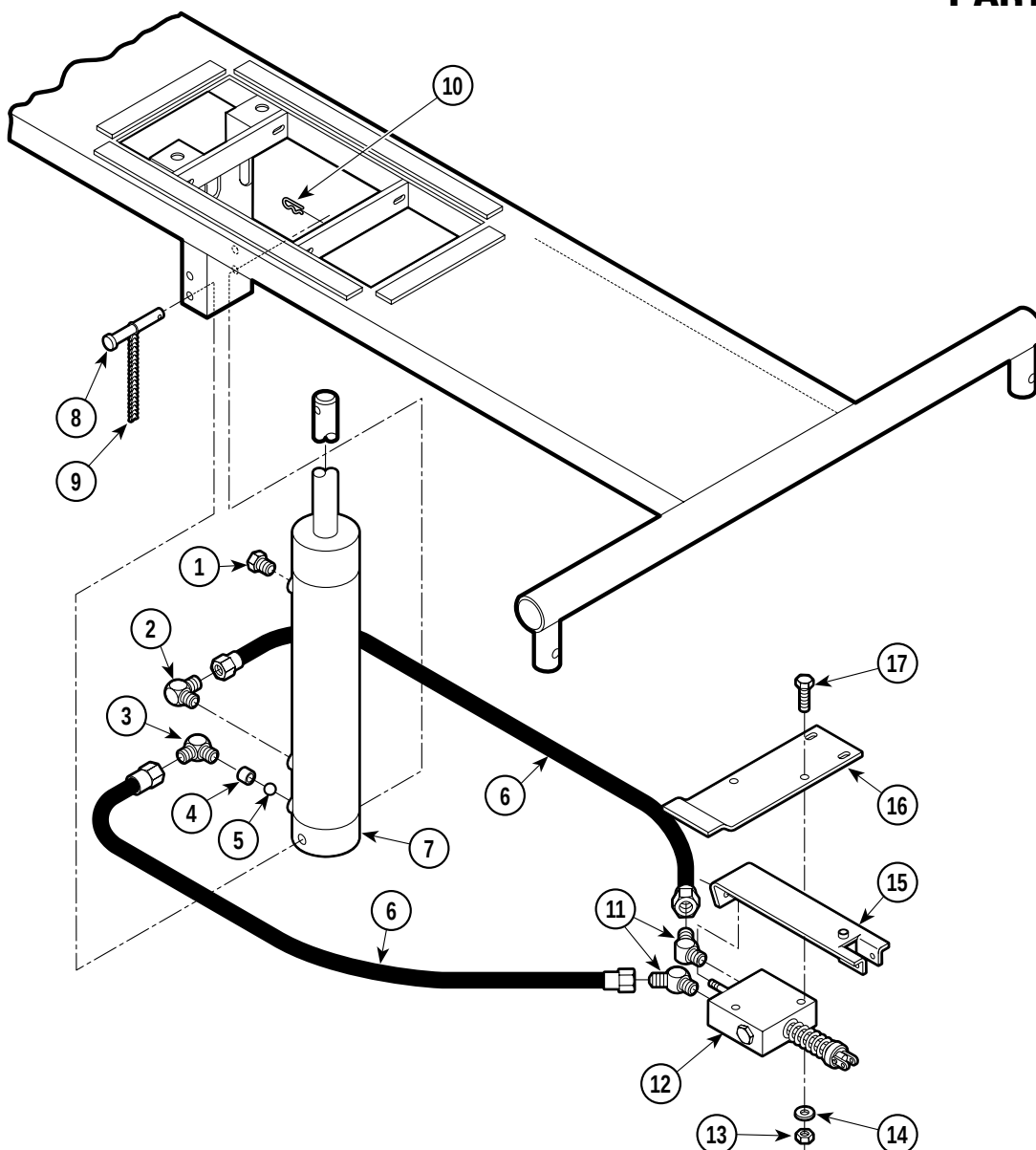
Used on Units with Serial Numbers: TAE-3911 thru TAE-11037 TAF-2962 thru TAF-9382

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	7		Elevation Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref
2	014-0173-00	Elbow - 90° (Apply Loctite Sealant #K902659)	1	8	042-0602-03	Clevis Pin	1
3	014-0173-01	Elbow - 90° (Apply Loctite Sealant #K902659)	1	9	529-0180-00	Ground Chain Assembly	1
4	557-0040-00	Restrictor Seat	1	10	042-0063-00	Rue Ring	1
5	516-0274-01	Ball	1	11	014-0175-00	Elbow - 45° (Apply Loctite Sealant #K902659)	2
6	014-0177-00	Hose Assembly	2	12		Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	Ref

Always Specify Model & Serial Number

Hydraulic System - Single

SECTION VI PARTS LIST



HA539600

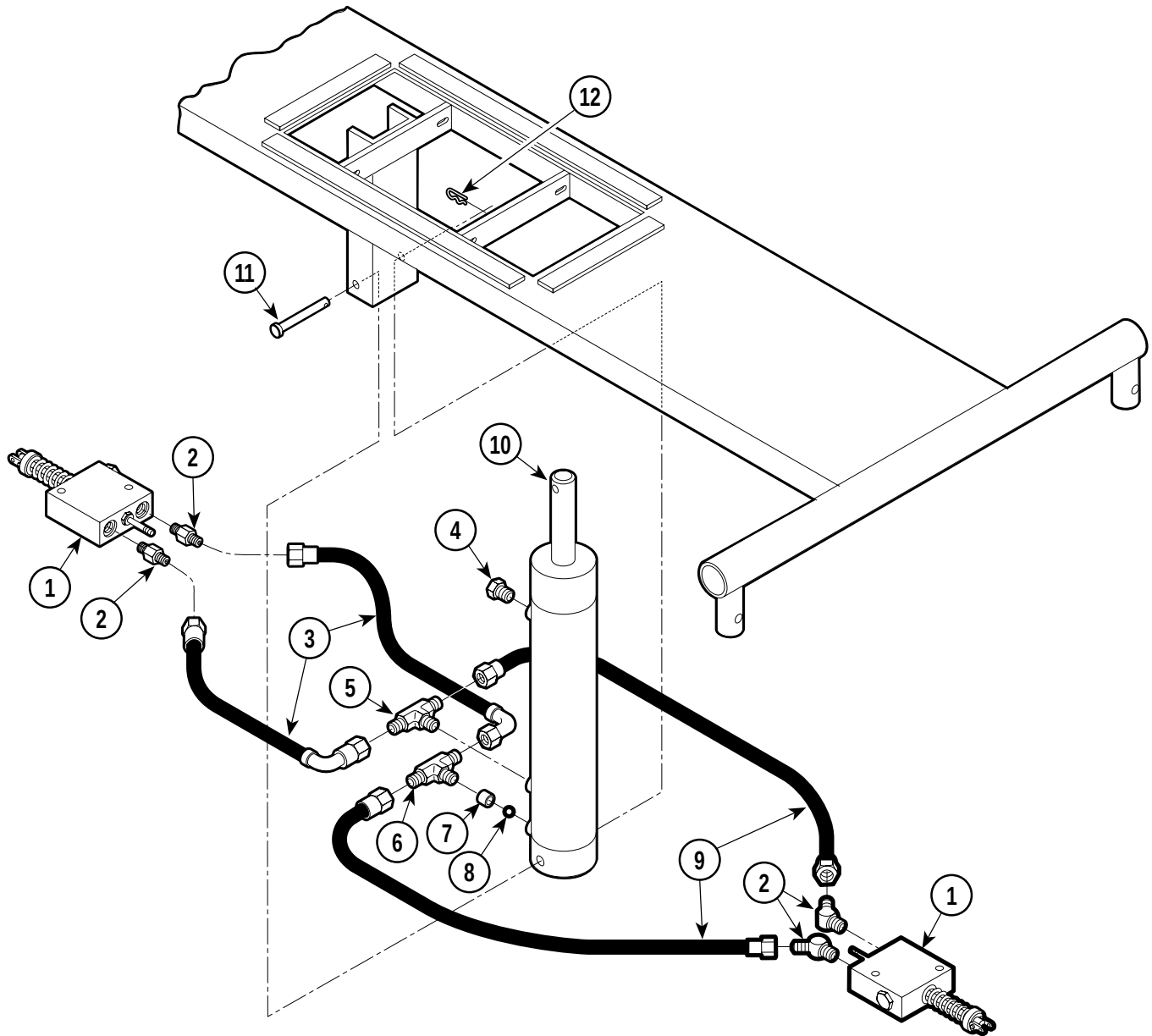
Used on Units with Serial Numbers: TAE-11038 thru Present TAF-9383 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	529-0172-00	Foot Pump Hydraulic Assembly (Shown)		8	042-0602-03	Clevis Pin	1
	529-0492-00	Head Pump Hydraulic Assembly		9	529-0180-00	Ground Chain Assembly	1
		Plug (Refer to "Elevation Cylinder Assem ..		10	042-0063-00	Rue Ring	1
		bly" Elsewhere)	Ref	11	• 014-0175-00	• Elbow - 45° (Foot End) Shown	
2	• 014-0173-00	• Elbow - 90° (Apply Loctite			• 014-0263-00	• Straight Fitting (Head End)	
		Sealant #K902659)	1			(Apply Loctite Sealant #K902659)	2
3	• 014-0173-01	• Elbow - 90° (Apply Loctite		12	•	• Elevation Pump (Refer to "Elevation	
		Sealant #K902659)	1			Pump Kit" Elsewhere)	Ref
4	• 557-0040-00	• Restrictor Seat	1	13	• 041-0375-18•	Nut	2
5	• 516-0274-01	• Ball	1	14	• 045-0001-49	• Washer	2
6	014-0178-02	• Hose Assembly (Foot End)		15	• 550-0293-10	• Release Bar	1
	• 014-0178-00	• Hose Assembly (Head End)	2	16	• 550-0583-10	• Pump Plate	1
7	•	• Elevation Cylinder (Refer to "Elevation		17	• 040-0375-29	• Bolt	2
		Cylinder assembly" Elsewhere)	Ref				

Always Specify Model & Serial Number

Hydraulic System - Dual Pump

SECTION VI PARTS LIST



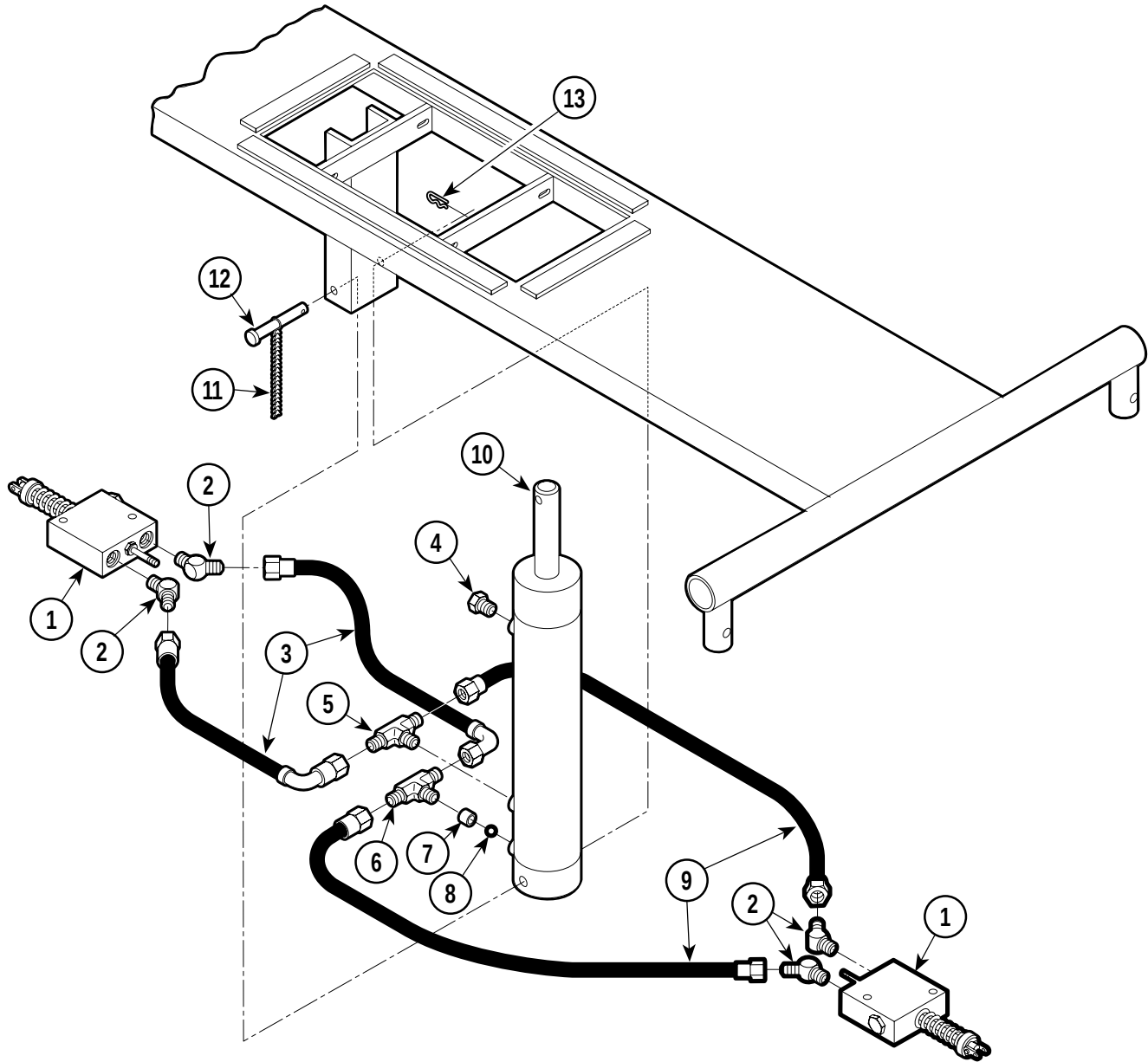
HA517301

Used on Units with Serial Numbers: TAE-1000 thru TAE-3910 TAF-1000 thru TAF-2961

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Elevation Pump Assembly (Refer to "Elevation Pump Kit" Elsewhere)	Ref	6	014-0172-01	Branch Tee - Altered (Apply Loctite Sealant #K902659)	1
2	014-0174-00	Male Connector Apply Loctite Sealant #K902659)	4	7	557-0040-00	Restrictor Seat	1
3	014-0178-00	Hose Assembly	2	8	K904395	Nylon Ball	1
4		Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	9	014-0177-00	Hose Assembly	2
5	014-0172-00	Branch Tee - Standard (Apply Loctite Sealant #K902659)	1	10		Elevation Cylinder Assembly (See to Breakdown Elsewhere)	1
				11	042-0602-03	Clevis Pin	1
				12	042-0063-00	Rue Ring	1

Always Specify Model & Serial Number

Hydraulic System - Dual Pump



HA517300

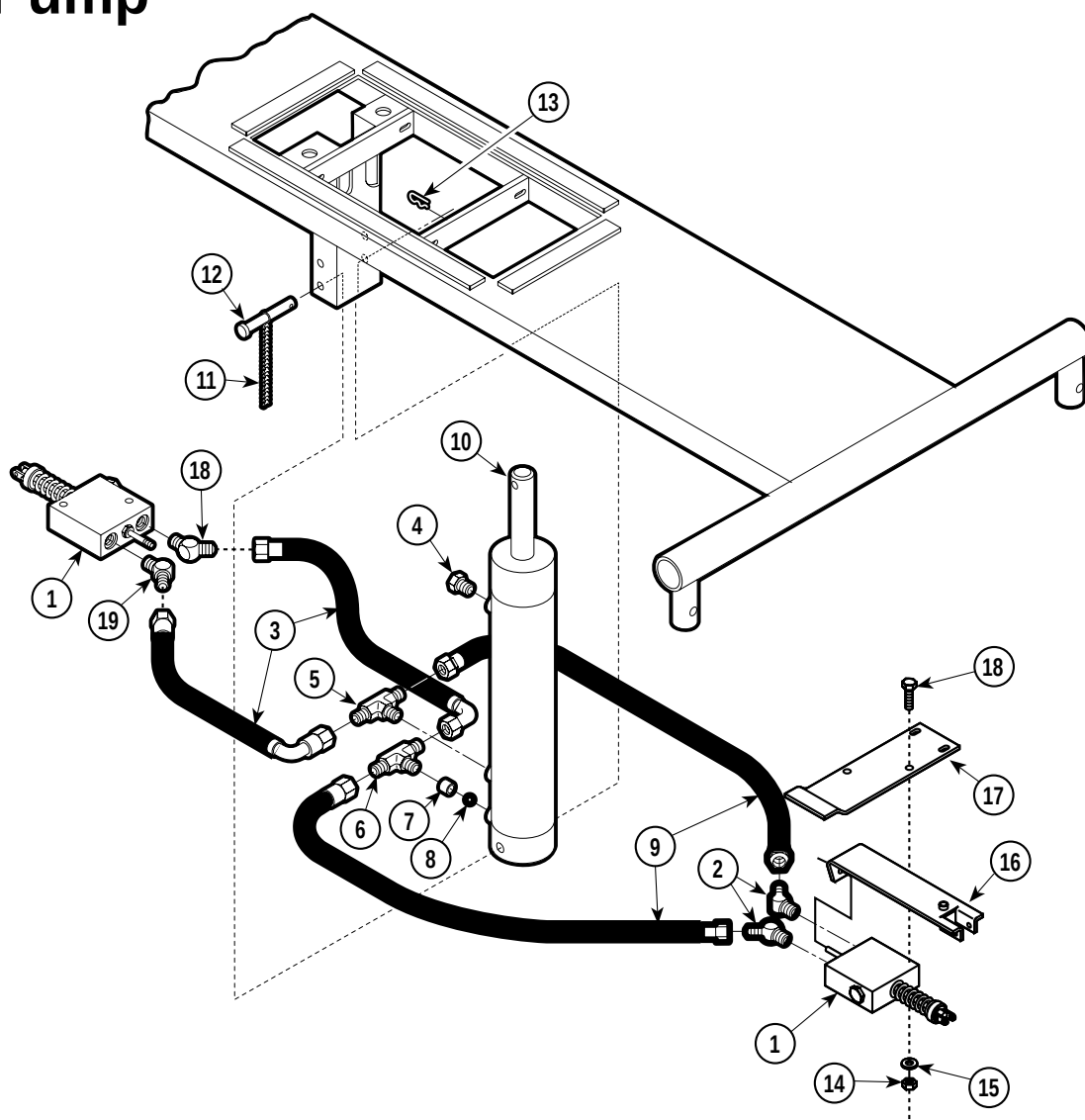
Used on Units with Serial Numbers: TAE-3911 thru TAE-11037 TAF-2962 thru TAF-9382

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1		Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	Ref	7	557-0040-00	Restrictor Seat	1
2	014-0175-00	Elbow - 45° Apply Loctite Sealant #K902659)	4	8	516-0274-01	Ball	1
3	014-0178-01	Hose Assembly	2	9	014-0177-00	Hose Assembly	2
4		Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	10		Elevation Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref
5	014-0172-00	Branch Tee - Standard (Apply Loctite Sealant #K902659)	1	11	529-0180-00	Grounding Chain Assembly	1
6	014-0172-01	Branch Tee - Altered (Apply		12	042-0602-03	Clevis Pin	1
				13	042-0063-00	Rue Ring	1

Always Specify Model & Serial Number

Hydraulic System - Dual Pump

SECTION VI PARTS LIST



HA539800

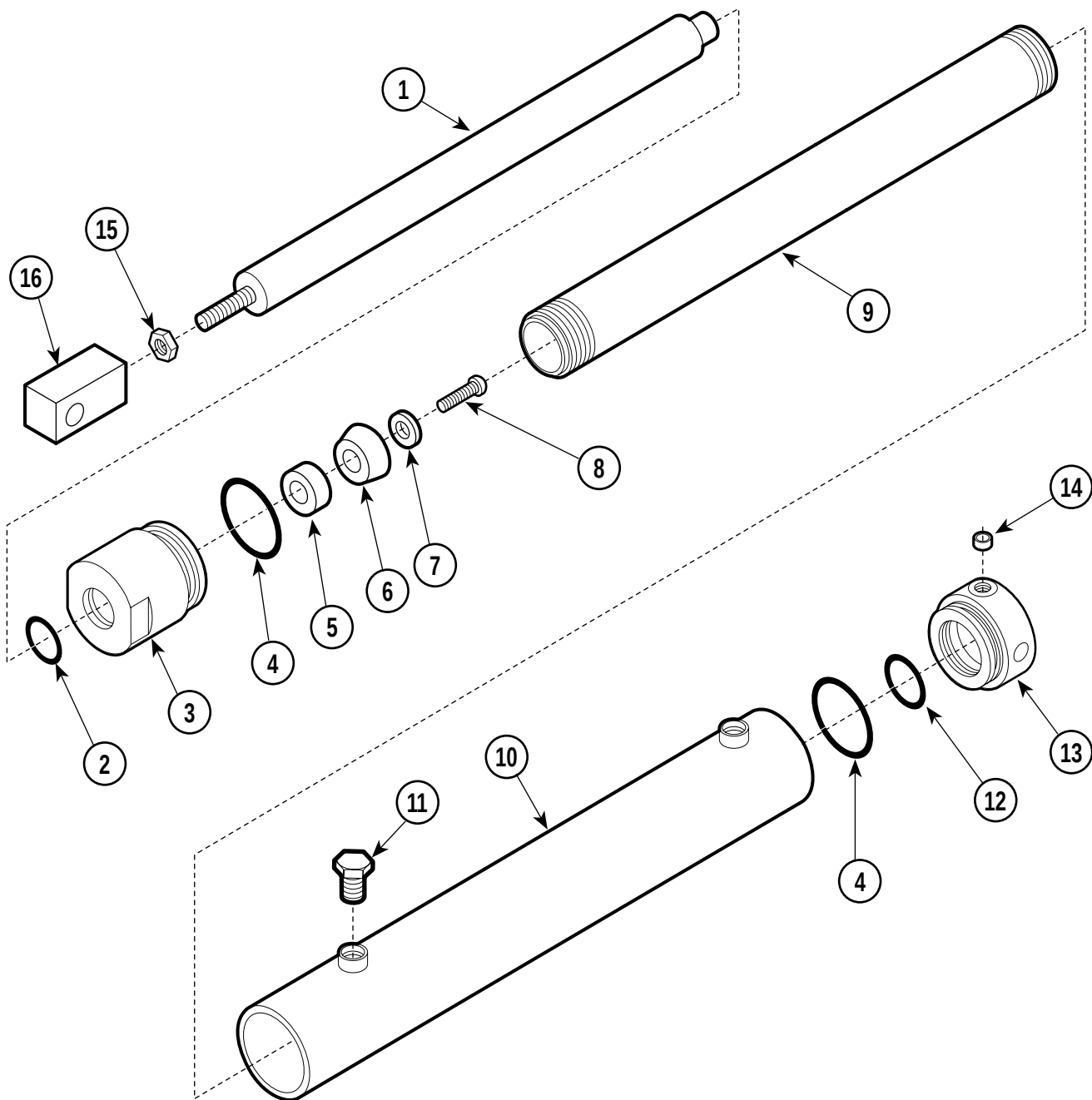
Used on Units with Serial Numbers: TAE-11038 thru Present TAF-9383 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	529-0173-00	Dual Pump True Direction Steering (Shown)		7	• 557-0040-00	• Restrictor Seat	1
	529-0491-00	Dual Pump Rite Trac Steering		8	• 516-0274-01	• Ball	1
1	•	• Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	2	9	• 014-0177-00	• Hose Assembly (True Direction)	
2	• 014-0175-00	• Elbow - 45° Apply Loctite Sealant #K902659)	2	10	• 014-0178-02	• Hose Assembly (Rite Trac)	2
3	• 014-0178-01	• Hose Assembly (True Direction)		11	529-0180-00	Grounding Chain Assembly	1
	• 014-0178-02	• Hose Assembly (Rite Trac)	2	12	042-0602-03	Clevis Pin	1
4	•	• Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	13	042-0063-00	Rue Ring	1
5	• 014-0172-00	• Branch Tee (True Direction)		14	• 041-0375-18	• Nut	2
	• 014-0264-00	• Branch Tee (Rite Trac) (Apply Loctite Sealant #K902659)	1	15	• 045-0001-49	• Washer	2
6	• 014-0172-01	• Branch Tee - Altered (True Direction)		16	• 550-0293-10	• Release Bar	1
	• 014-0264-01	• Branch Tee - Altered (Rite Trac) (Apply Loctite Sealant #K902659)	1	17	• 550-0583-10	• Pump Plate	1
				18	• 040-0375-29	• Bolt	2
				19	• 014-0175-00	• Elbow - 45° (True Direction) (Shown)	
					• 014-0263-00	• Straight Fitting (Rite Trac) (Apply Loctite Sealant #K902659)	2

Always Specify Model & Serial Number

Elevation Cylinder Assembly

SECTION VI PARTS LIST



HA517501

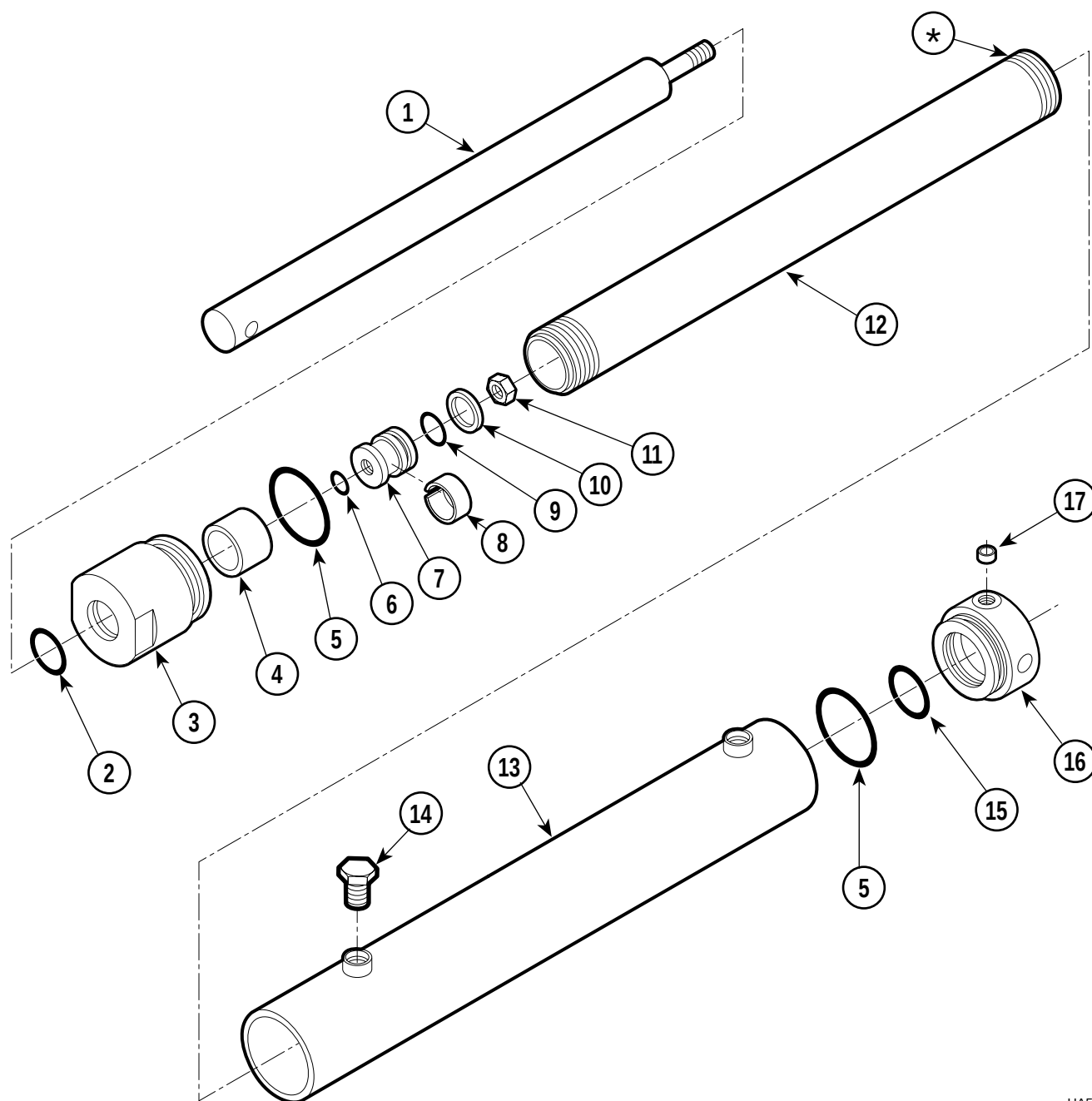
Used on Units with Serial Numbers: TAE-1000 thru TAE-2499 TAF-1000 thru TAF-2227

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0012-00	Cylinder Kit (Obsolete)	1	9	• 552-0073-00	• Lift Cylinder	1
1	• 557-0041-00	• Cylinder Rod	1	10	• 530-0057-01	• Reservoir Tube	1
2	• K903850	• O-Ring	1	11	• 014-0171-00	• Boss Plug	1
3	• 557-0042-01	• Rod End Cap	1	12	• 014-0176-00	• O-Ring	2
4	• 014-0176-01	• O-Ring	2	13	• 557-0043-01	• Cylinder End Cap	1
5	• K101122	• Piston	1	14	• 514-0027-00	• Ball Retainer	1
6	• K102313	• Piston Cup	1	15	• 041-0500-00	• Nut	1
7	• K101124	• Washer	1	16	• 551-0034-01	• Rod End	1
8	• K902552	• Screw	1				

Always Specify Model & Serial Number

Elevation Cylinder Assembly

SECTION VI PARTS LIST



HA517500

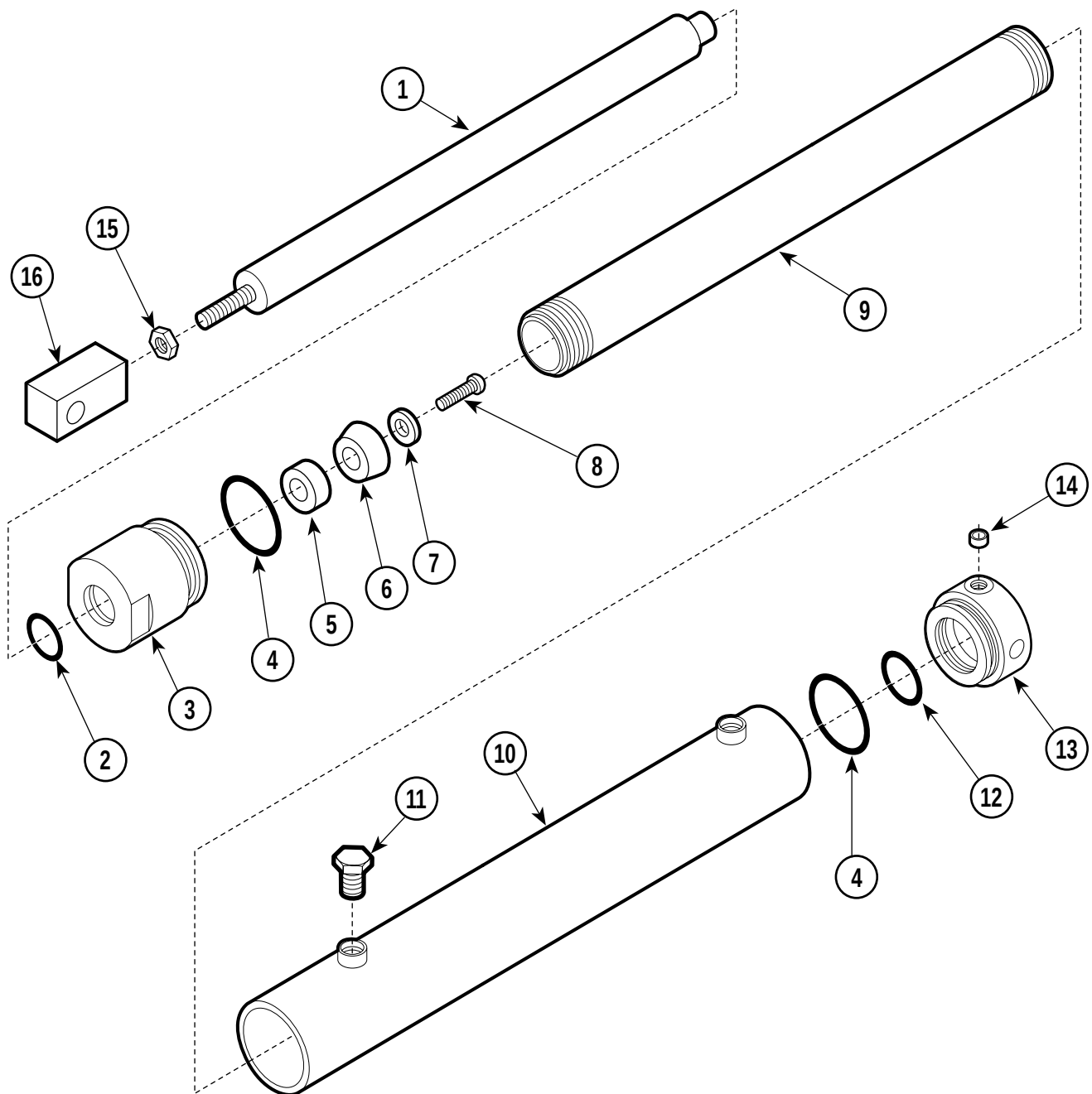
Used on Units with Serial Numbers:
TAE-2500 thru TAE-2749 TAF-2228 thru TAF-6095

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	502-0014-00	Cylinder Assembly		10	514-0035-00	Piston Ring	1
2	557-0086-00	Cylinder Assembly	1	11	041-0375-13	Jam Nut	1
3	014-0176-05	O-Ring	1	12	552-0073-00	Cylinder Tube (Apply Loctite #042-0025-00 to Lower End Threads ~~(x)~~)	1
4	557-0244-00	Rod End Cap	1	13	530-0164-00	Reservoir Tube (Weldment)	1
5	016-0149-03	Flange Bearing	1	14	014-0171-00	Plug	1
6	014-0176-04	O-Ring	2	15	014-0176-00	O-Ring	1
7	014-0176-06	O-Ring	1	16	557-0096-00	End Cap	1
8	557-0143-00	Piston	1	17	514-0027-00	Ball Retainer	1
9	514-0034-00	Piston Bearing	1				
	014-0176-07	O-Ring	1				

Always Specify Model & Serial Number

Elevation Cylinder Assembly

SECTION VI PARTS LIST



HA517501

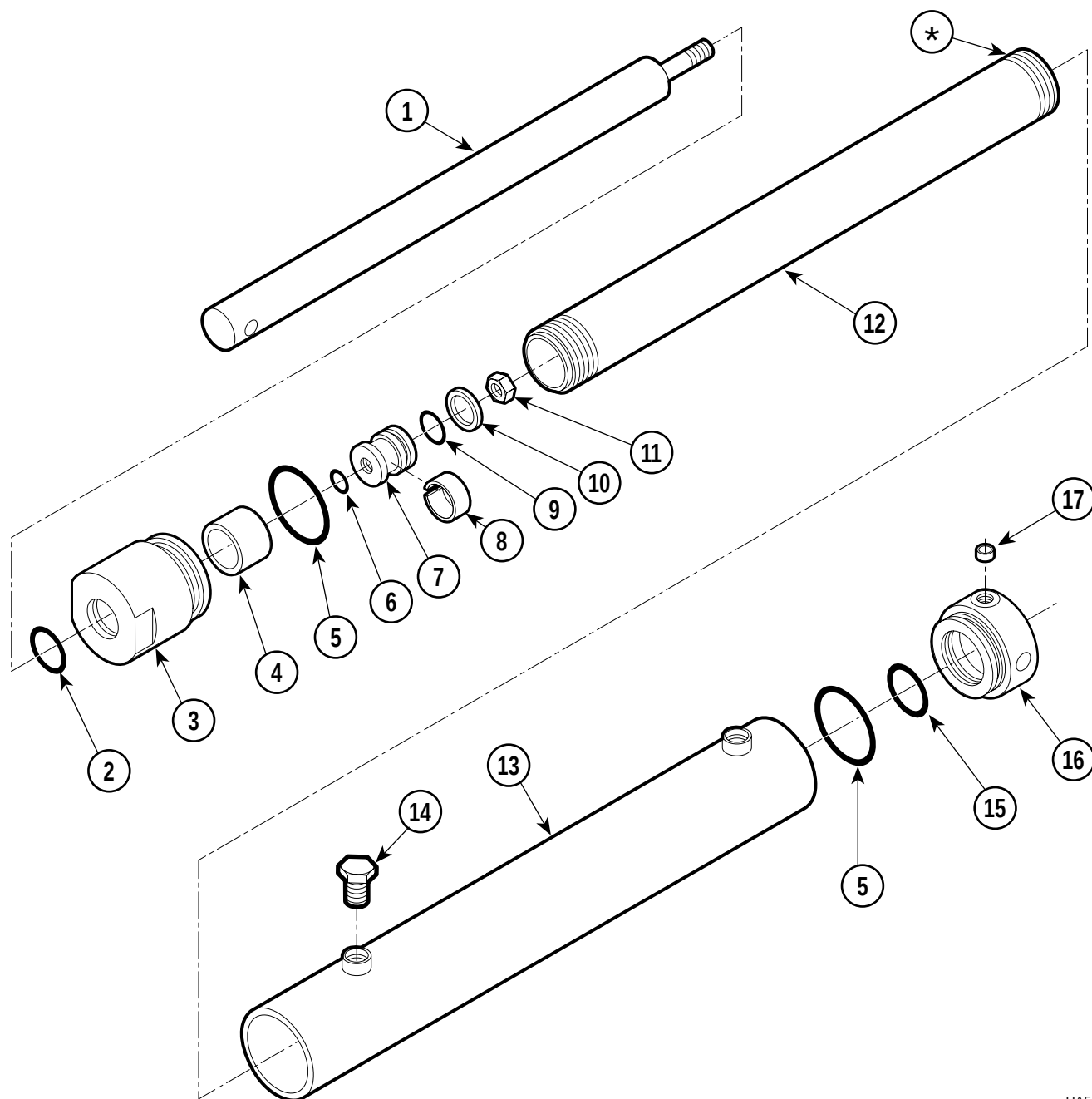
Used on Units with Serial Numbers: TAE-2750 thru TAE-2957

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	502-0014-00	Cylinder Kit (Obsolete)	1	9	552-0073-00	Lift Cylinder	1
2	557-0041-00	Cylinder Rod	1	10	530-0057-01	Reservoir Tube	1
3	K903850	O-Ring	1	11	014-0171-00	Boss Plug	1
4	557-0042-01	Rod End Cap	1	12	014-0176-00	O-Ring	2
5	014-0176-01	O-Ring	2	13	557-0043-01	Cylinder End Cap	1
6	K101122	Piston	1	14	514-0027-00	Ball Retainer	1
7	K102313	Piston Cup	1	15	041-0500-00	Nut	1
8	K101124	Washer	1	16	551-0034-01	Rod End	1
	K902552	Screw	1				

Always Specify Model & Serial Number

Elevation Cylinder Assembly

SECTION VI PARTS LIST



HA517500

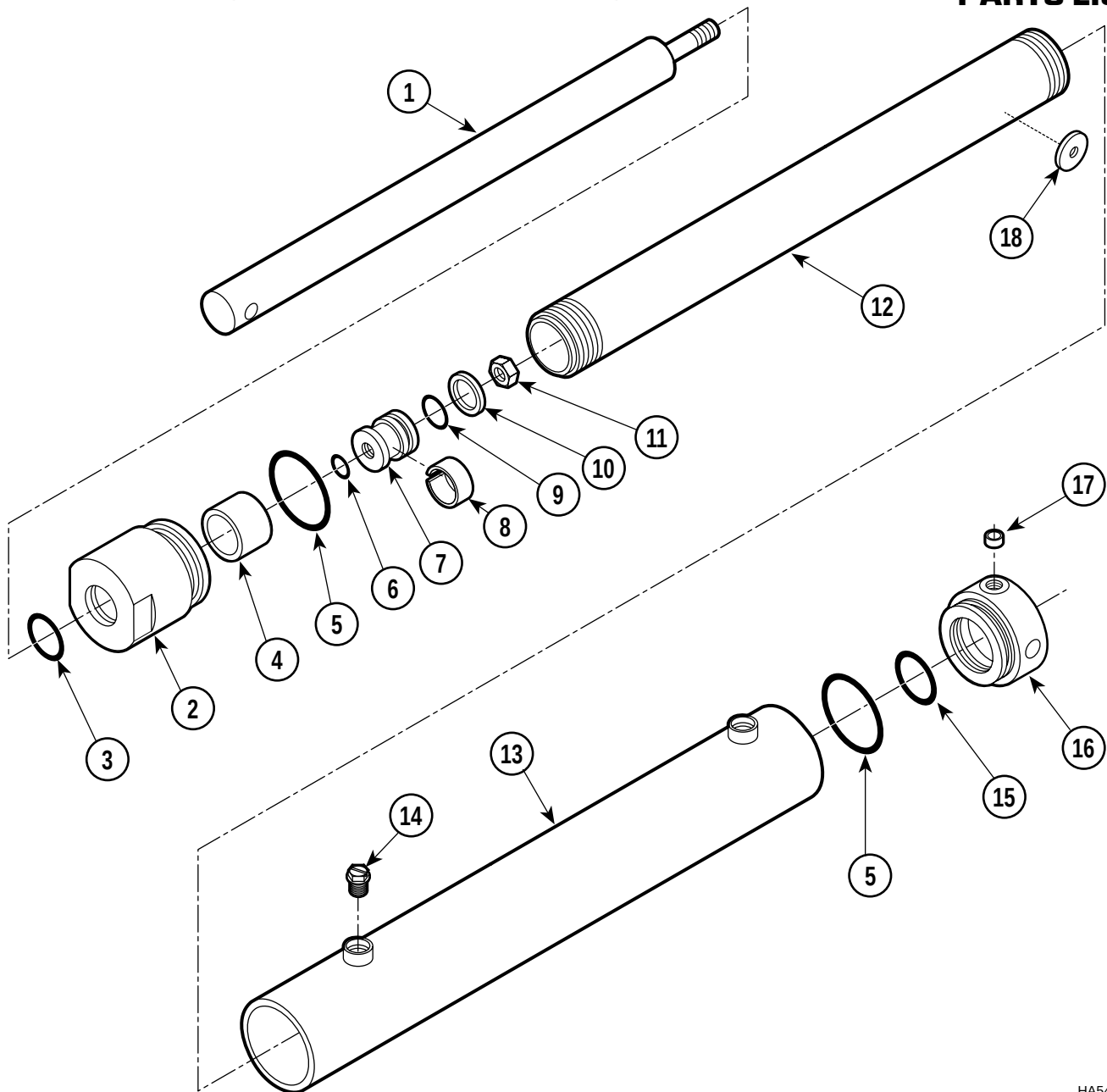
Used on Units with Serial Numbers: TAE-2958 thru TAE-7601

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0014-00	Cylinder Assembly		10	• 514-0035-00	• Piston Ring	1
1	• 557-0086-00	• Cylinder Assembly	1	11	• 041-0375-13	• Jam Nut	1
2	• 014-0176-05	• O-Ring	1	12	• 552-0073-00	• Cylinder Tube (Apply Loctite #042-0025-00 to Lower End Threads [X])	1
3	• 557-0244-00	• Rod End Cap	1	13	• 530-0164-00	• Reservoir Tube (Weldment)	1
4	• 016-0149-03	• Flange Bearing	1	14	• 014-0171-00	• Plug	1
5	• 014-0176-04	• O-Ring	2	15	• 014-0176-00	• O-Ring	1
6	• 014-0176-06	• O-Ring	1	16	• 557-0096-00	• End Cap	1
7	• 557-0143-00	• Piston	1	17	• 514-0027-00	• Ball Retainer	1
8	• 514-0034-00	• Piston Bearing	1				
9	• 014-0176-07	• O-Ring	1				

Always Specify Model & Serial Number

Elevation Cylinder Assembly

SECTION VI PARTS LIST



HA544301

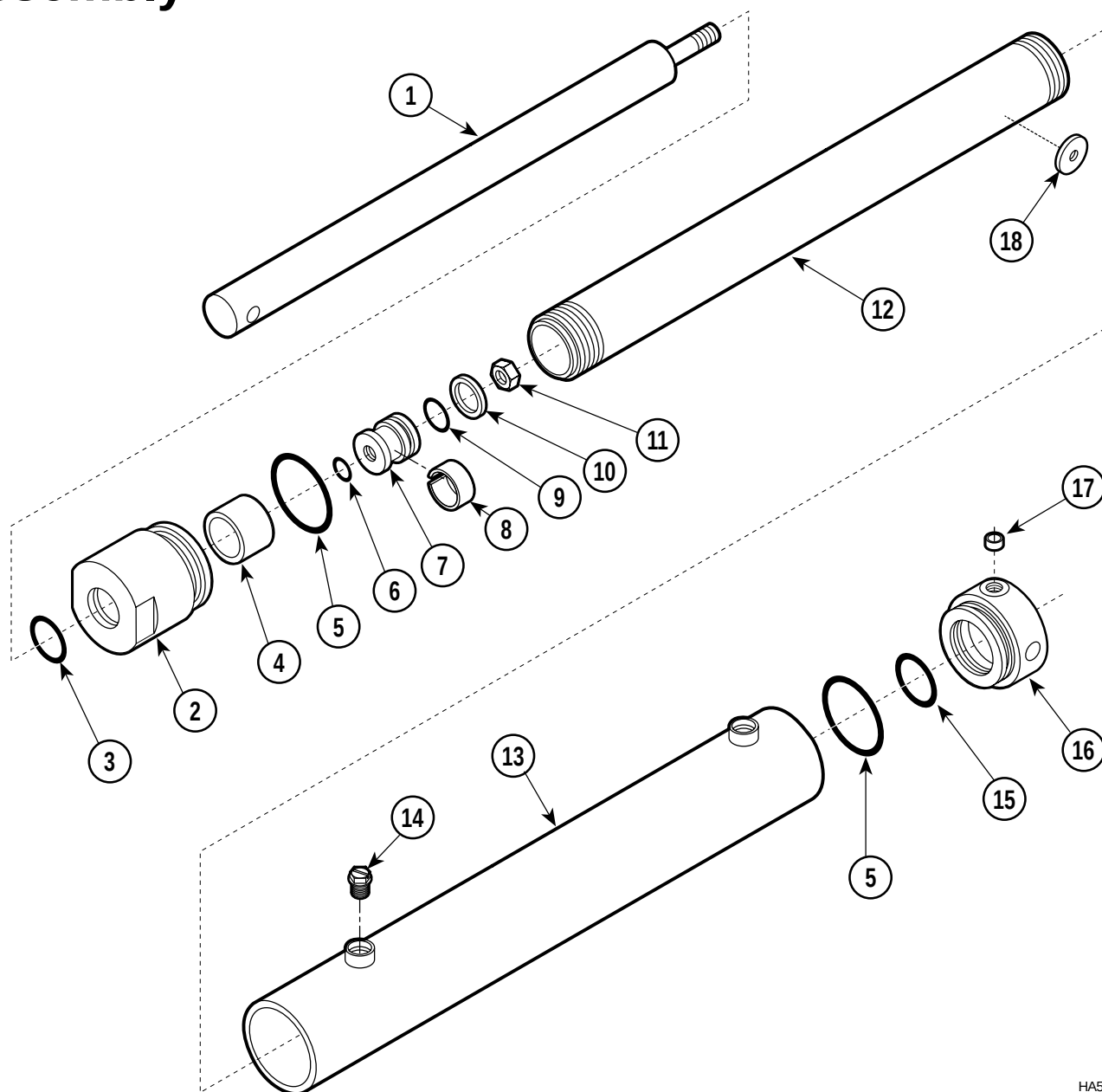
Used on Units with Serial Numbers:
TAE-7602 thru TAE-12129 TAF-6096 thru TAF-10571

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	502-0034-00	Cylinder Assembly	1	11	• 041-0375-13	• Jam Nut	1
	• 557-0086-00	• Cylinder Assembly	1	12	• 552-0073-00	• Cylinder Tube	1
	• 502-0129-00	• Rod End Cap Kit (Includes Items 2-5)	1	13	• 530-0856-00	• Reservoir Tube (Molded)	1
2	• 557-0243-01	• Rod End Cap	1	14	• 014-0171-00	• Plug	1
3	• 014-0176-05	• O-Ring	1	15	• 014-0176-00	• O-Ring	1
4	• 016-0149-03	• Flange Bearing	1	16	• 557-0242-01	• End Cap	1
5	• 014-0176-09	• O-Ring	2	17	• 514-0145-00	• Ball Retainer	1
6	• 014-0176-06	• O-Ring	1	18	• 516-0342-00	• Magnetic Washer	1
7	• 502-0125-00	• Piston Kit	1				
8	• 514-0034-00	• Piston Bearing	1		502-0131-00	Elevation Cyl. Rebuild Kit (Includes	
9	• 014-0176-07	• O-Ring	1			Items #2, & #7)	1
10	• 514-0035-00	• Piston Ring	1				

Always Specify Model & Serial Number

Elevation Cylinder Assembly

SECTION VI PARTS LIST



HA544301

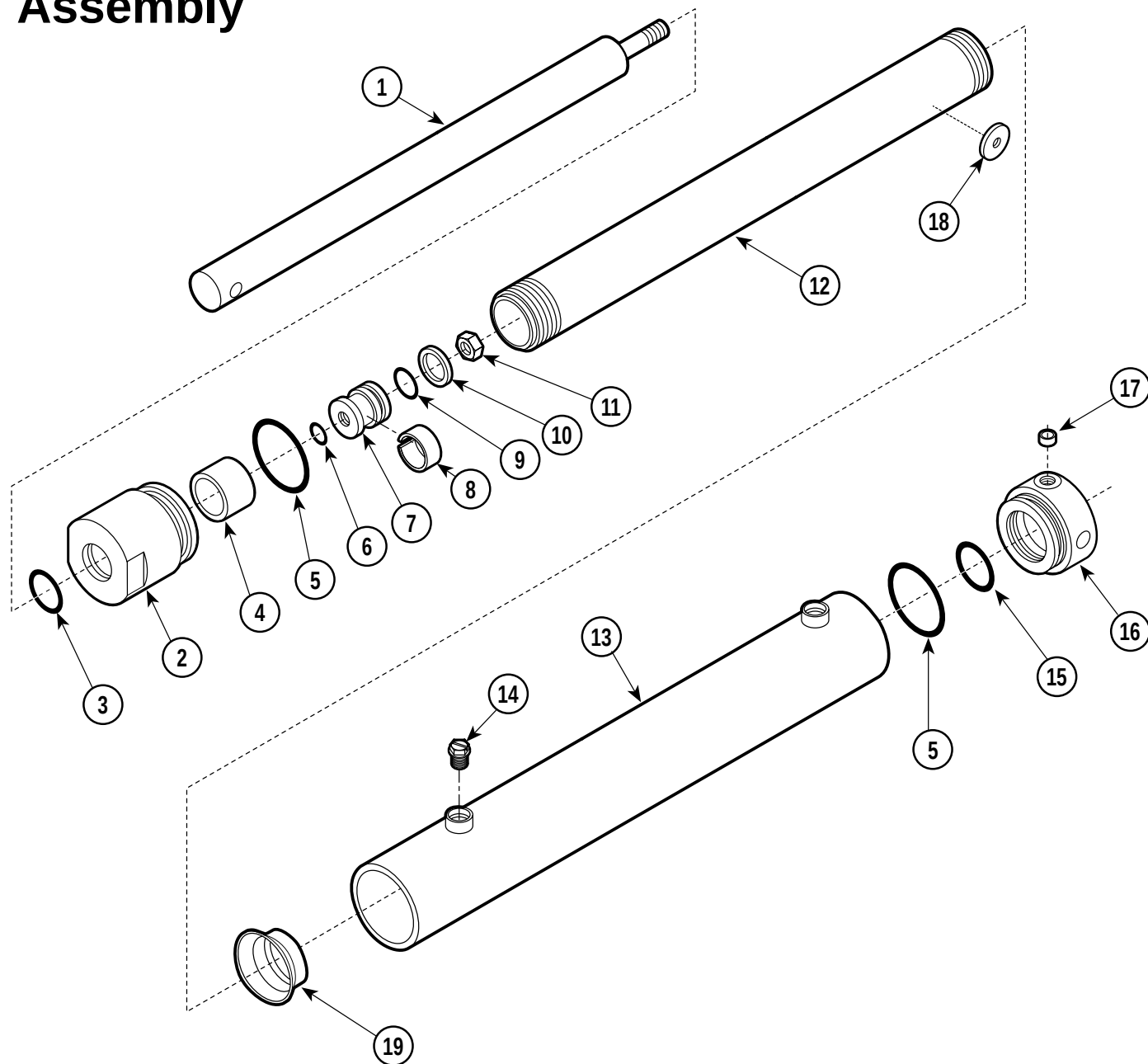
Used on Units with Serial Numbers:
TAE-12130 thru TAE-12177 TAF-10517 thru TAF-10572

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	502-0034-00	Cylinder Assembly	1	11	• 041-0375-13	• Jam Nut	1
	• 557-0086-00	• Cylinder Assembly	1	12	• 552-0889-00	• Cylinder Tube	1
2	• 502-0129-00	• Rod End Cap Kit (Includes Items 2-5)	1	13	• 530-0126-00	• Reservoir Tube (Molded)	1
3	• 557-0875-00	• End cap	1	14	• 014-0171-00	• Plug	1
4	• 016-0149-03	• O-Ring	1	15	• 014-0176-00	• O-Ring	1
5	• 014-0176-05	• Flange Bearing	1	16	• 557-0876-00	• End Cap	1
6	• 014-0176-09	• O-Ring	2	17	• 514-0145-00	• Ball Retainer	1
7	• 014-0176-06	• O-Ring	1	18	• 516-0342-00	• Magnetic Washer	1
8	• 502-0125-00	• Piston Kit	1				
9	• 514-0034-00	• Piston Bearing	1		502-0131-00	Elevation Cyl. Rebuild Kit (Includes	
10	• 014-0176-07	• O-Ring	1			Items #2, & #7)	1
	• 514-0035-00	• Piston Ring	1				

Always Specify Model & Serial Number

Elevation Cylinder Assembly

SECTION VI PARTS LIST



HA544302

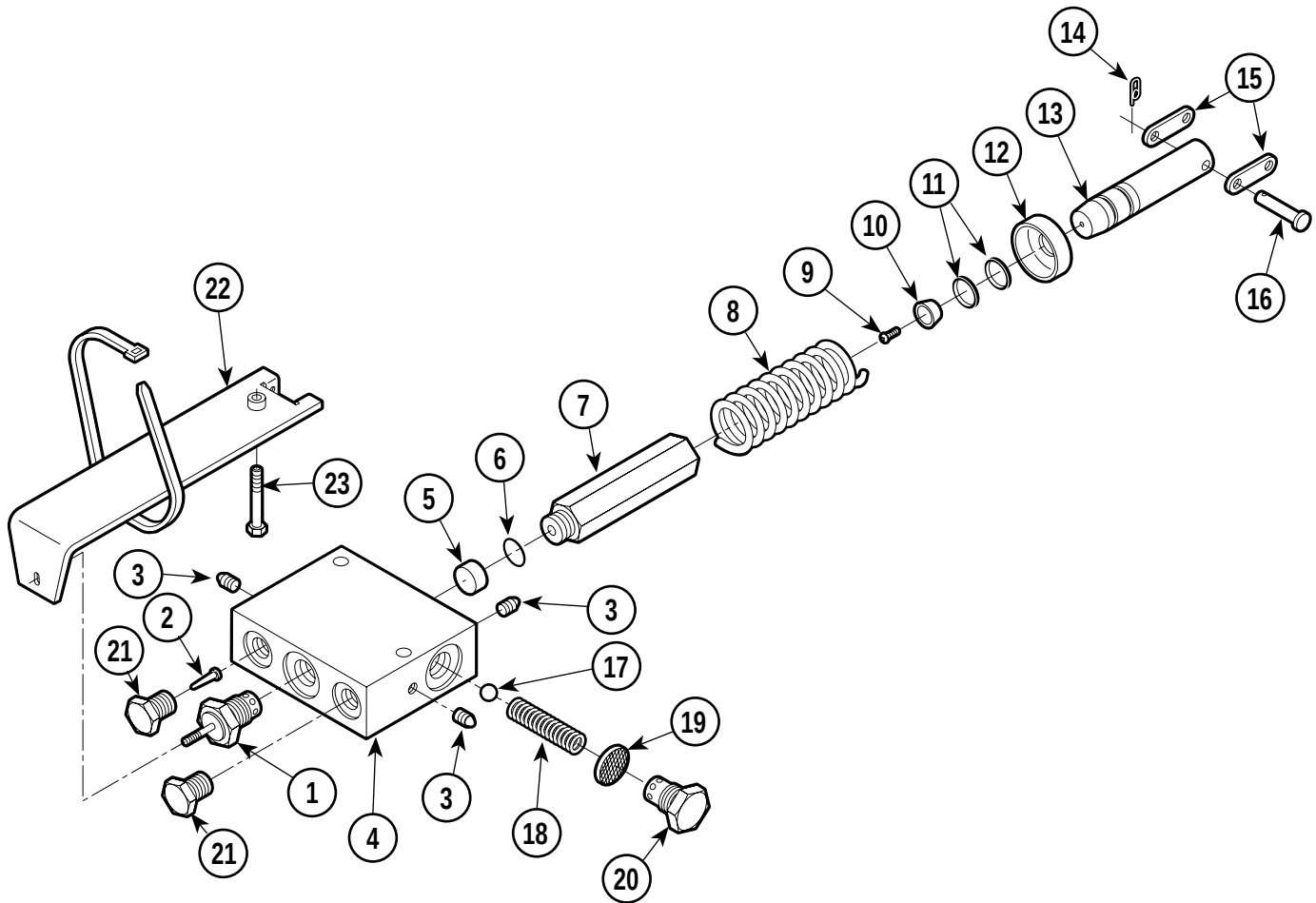
Used on Units with Serial Numbers: TAE-12178 thru Present TAF-10573 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	502-0034-00	Cylinder Assembly	1	11	• 041-0375-13	• Jam Nut	1
	• 557-0086-00	• Cylinder Assembly	1	12	• 552-0889-00	• Cylinder Tube (.....	1
	• 502-0129-00	• Rod End Cap Kit (Includes Items 2-5) .	1	13	• 553-0126-00	• Reservoir Tube (Molded)	1
2	• 557-0875-00	• Rod End Cap	1	14	• 014-0171-00	• Plug	1
3	• 014-0176-05	• O-Ring	1	15	• 014-0176-00	• O-Ring	1
4	• 016-0149-03	• Flange Bearing	1	16	• 557-0876-00	• End Cap	1
5	• 014-0176-09	• O-Ring	2	17	• 514-0145-00	• Ball Retainer	1
6	• 014-0176-06	• O-Ring	1	18	• 516-0342-00	• Magnetic Washer	1
7	• 502-0125-00	• Piston Kit	1		502-0131-00	Elevation Cyl. Rebuild Kit (Includes	
8	• 514-0034-00	• Piston Bearing	1			Items #2, & #7)	1
9	• 014-0176-07	• O-Ring	1	19	• 553-0300-00	• Oil diverter	1
10	• 514-0035-00	• Piston Ring	1				

Always Specify Model & Serial Number

Elevation Pump Kit

SECTION VI PARTS LIST



HA517600

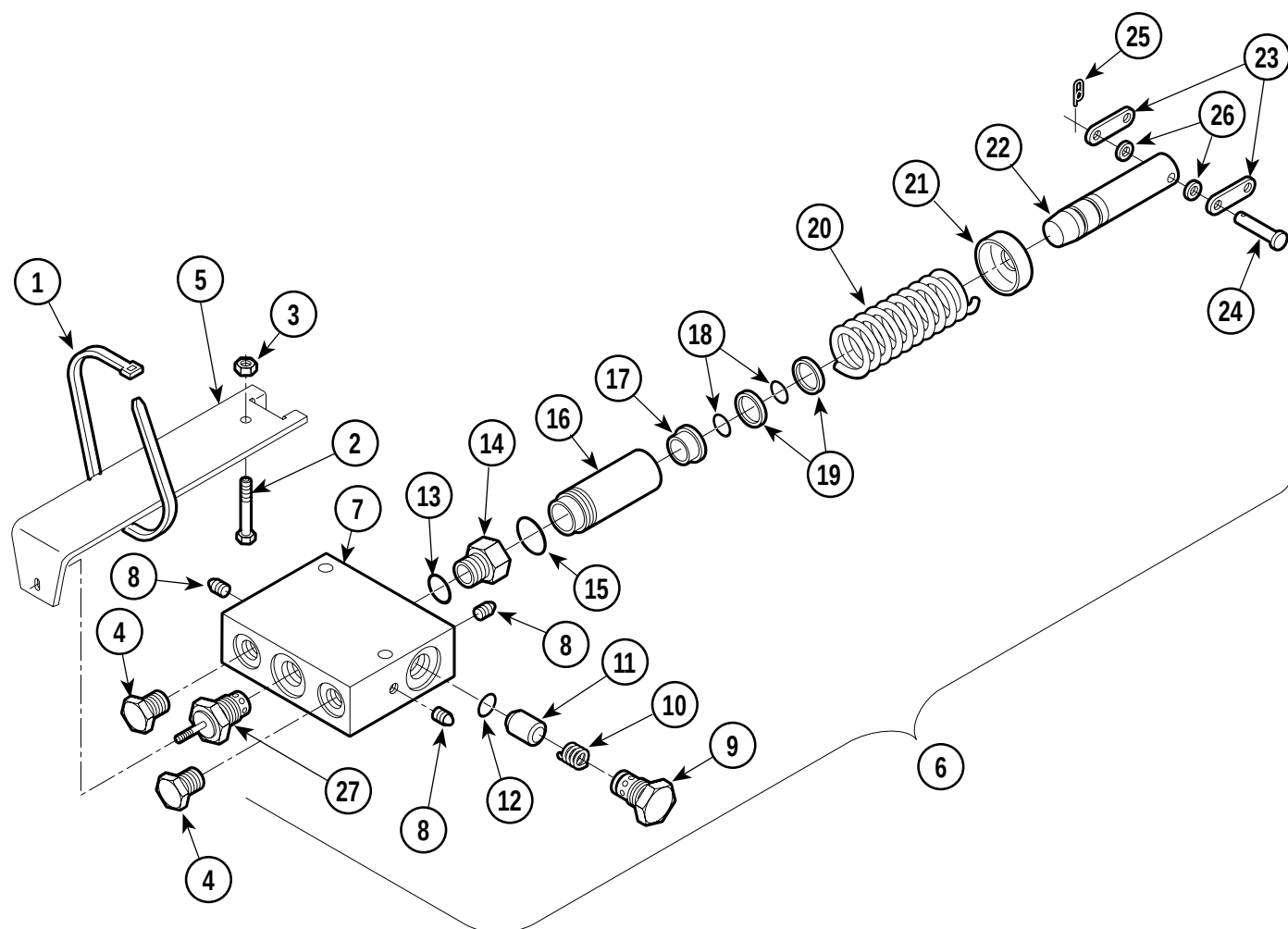
Used on Units with Serial Numbers: TAE-1000 thru TAE-8675 TAF-1000 thru TAF-6968

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0031-00	Hydraulic Pump Kit		12	• 045-0008-00	• Cup Washer	1
1	• 514-0022-00	• Manual Valve	1	13	• 557-0045-01	• Piston	1
2	• 103056	• Filter	1	14	• 042-0063-01	• Rue Ring Cotter	1
3	• 514-0018-00	• Koenig Expander	3	15	• 550-0013-00	• Pump Pedal Link	2
4	• 551-0036-00	• Pump Block	1	16	• 042-0602-06	• Clevis Pin	1
5	• 514-0019-00	• Ball Retainer	1	17	• 904395	• Nylon Ball	1
6	• 014-0176-02	• O-Ring	1	18	• 102370	• Spring	1
7	• 551-0035-01	• Piston Cylinder	1	19	• 514-0020-00	• Disc	1
8	• 525-0007-00	• Compression Spring	1	20	• 514-0021-00	• Check Valve	1
9	• 040-0006-10	• Screw	1	21	• 014-0171-00	• Boss Plug	2
10	• 514-0028-00	• Piston Cup	1	22	• 530-0340-10	• Retaining Bar	1
11	• 514-0017-00	• Quad Ring	2	23	• 040-0375-29	• Screw	1

Always Specify Model & Serial Number

Elevation Pump Kit

SECTION VI PARTS LIST



HA517400

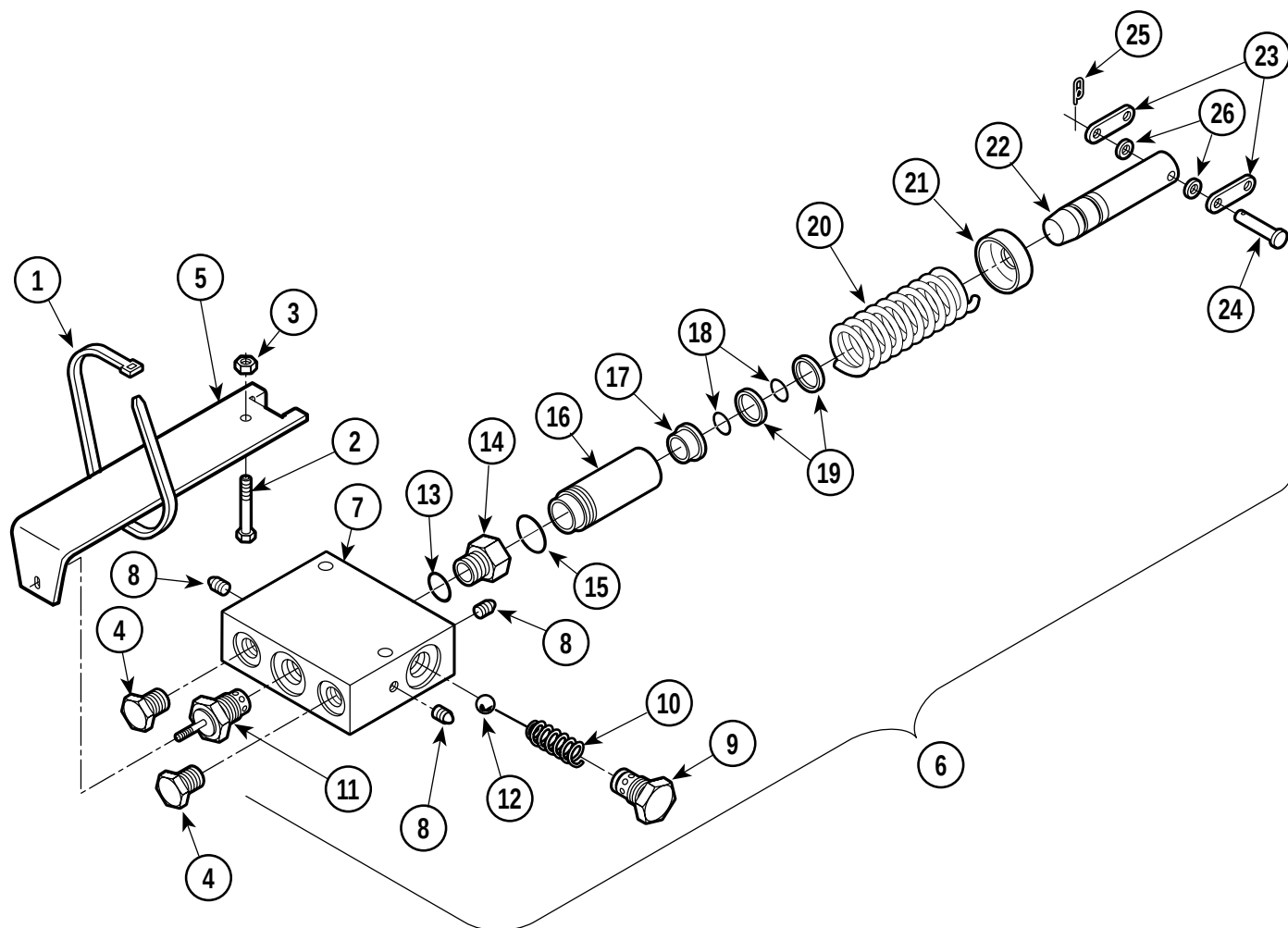
Used on Units with Serial Numbers: TAE-8676 thru TAE-10864 TAF-6969 thru TAF-9032

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0042-00	Hydraulic Pump Kit		14	•• 557-0298-00	•• Cylinder Adapter	1
1	•• 015-0013-01	• Cable Tie	1	15	•• 014-0176-11	•• O-Ring	1
2	•• 040-0375-34	• Screw	1	16	•• 552-0419-00	•• Pump Cylinder	1
3	•• 041-0375-01	• Nut	1	17	•• 516-0143-00	•• Flange Bearing	1
4	•• 014-0171-00	• Shipping Plug	2	18	•• 014-0176-10	•• O-Ring	2
5	•• 550-0293-10	• Release Bar	1	19	•• 514-0041-00	•• Teflon Piston Ring	2
6	•	• Hydraulic Pump Assembly (Includes Items 7 thru 27)	Ref	20	•• 525-0007-00	•• Compression Spring	1
7	•• 551-0195-00	•• Pump Block	1	21	•• 516-0144-00	•• Cup Washer	1
8	•• 514-0018-01	•• Expander Plug	3	22	•• 557-0297-00	•• Pump Piston	1
9	•• 514-0039-00	•• Check Valve	1	23	•• 550-0298-00	•• Pump Pedal Link	2
10	•• 525-0022-00	•• Compression Spring	1	24	•• 042-0602-14	•• Clevis Pin	1
11	•• 514-0029-01	•• Cartridge Valve	1	25	•• 042-0063-01	•• Rue Ring Cotter	1
12	•• 014-0176-06	•• O-Ring	1	26	•• 045-0001-29	•• Washer	2
13	•• 014-0176-12	•• O-Ring	1	27	•• 514-0022-00	•• Manual Lowering Valve	1

Always Specify Model & Serial Number

Elevation Pump Kit

SECTION VI PARTS LIST



HA517401

Used on Units with Serial Numbers: TAE-10865 thru TAE-11003 TAF-9033 thru TAF-9341

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	502-0042-00	Hydraulic Pump Kit		13	•• 014-0176-12	•• O-Ring	1
1	• 015-0013-01	• Cable Tie	1	14	•• 557-0298-00	•• Cylinder Adapter	1
2	• 040-0375-34	• Screw	1	15	•• 014-0176-11	•• O-Ring	1
3	• 041-0375-01	• Nut	1	16	•• 552-0419-00	•• Pump Cylinder	1
4	• 014-0171-00	• Shipping Plug	2	17	•• 516-0143-00	•• Flange Bearing	1
5	• 550-0293-10	• Release Bar	1	18	•• 014-0176-10	•• O-Ring	2
6	•	• Hydraulic Pump Assembly (Includes Items 6 thru 27)	Ref	19	•• 514-0041-00	•• Teflon Piston Ring	2
7	•• 551-0564-00	•• Pump Block	1	20	•• 525-0007-00	•• Compression Spring	1
8	•• 514-0018-01	•• Expander Plug	3	21	•• 516-0144-00	•• Cup Washer	1
9	•• 514-0039-00	•• Check Valve	1	22	•• 557-0297-00	•• Pump Piston	1
10	•• 525-0049-00	•• Compression Spring	1	23	•• 550-0298-00	•• Pump Pedal Link	2
11	•• 514-0022-00	•• Manual Lowering Valve	1	24	•• 042-0602-14	•• Clevis Pin	1
12	•• 516-0274-00	•• Ball	1	25	•• 042-0063-01	•• Rue Ring Cotter	1
				26	•• 045-0001-29	•• Washer	2

Always Specify Model & Serial Number

SECTION VI

PARTS LIST

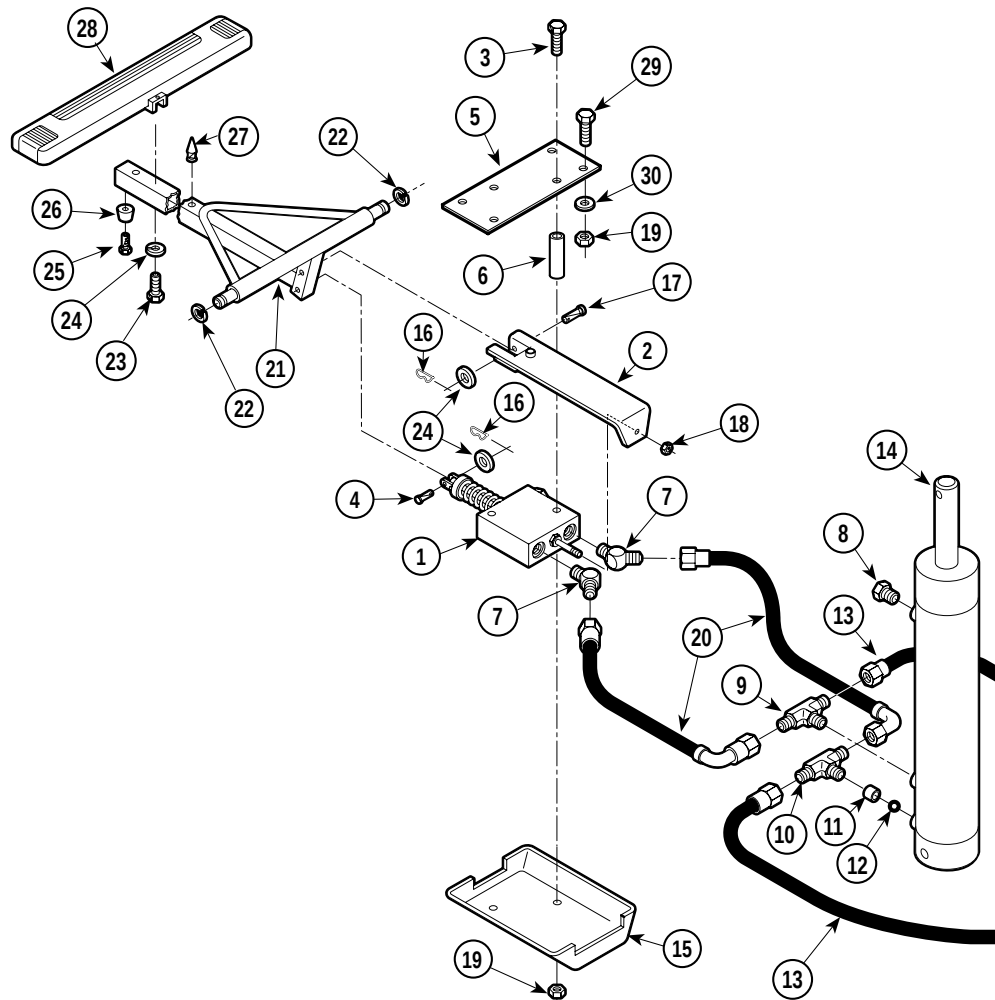


Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	502-0042-00	Hydraulic Pump Kit		14	•• 557-0809-00	•• Cylinder Adapter	1
2	• 015-0013-01	• Cable Tie	1	15	•• 014-0176-11	•• O-Ring	1
3	• 040-0375-34	• Screw	1	16	•• 552-0843-00	•• Pump Cylinder	1
4	• 041-0375-01	• Nut	1	17	•• 016-0540-00	•• Flange Bearing	1
5	• 014-0171-00	• Shipping Plug	2	18	•• 014-0176-10	•• O-Ring	2
6	• 550-0293-10	• Release Bar	1	19	•• 514-0041-00	•• Teflon Piston Ring	2
7	•	• Hydraulic Pump Assembly (Includes Items 6 thru 27)	Ref	20	•• 525-0007-00	•• Compression Spring	1
8	•• 551-0564-00	•• Pump Block	1	21	•• 516-0144-00	•• Cup Washer	1
9	•• 514-0018-01	•• Expander Plug	3	22	•• 557-0810-00	•• Pump Piston	1
10	•• 514-0039-00	•• Check Valve	1	23	•• 550-0298-00	•• Pump Pedal Link	2
11	•• 525-0049-00	•• Compression Spring	1	24	•• 042-0602-14	•• Clevis Pin	1
12	•• 514-0022-00	•• Manual Lowering Valve	1	25	•• 042-0063-01	•• Rue Ring Cotter	1
13	•• 516-0274-00	•• Ball	1	26	•• 045-0001-29	•• Washer	2
	•• 014-0176-12	•• O-Ring	1	27	•• 016-0076-20	•• Bearing	2

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Hydraulic Pump

SECTION VI PARTS LIST



HA523503

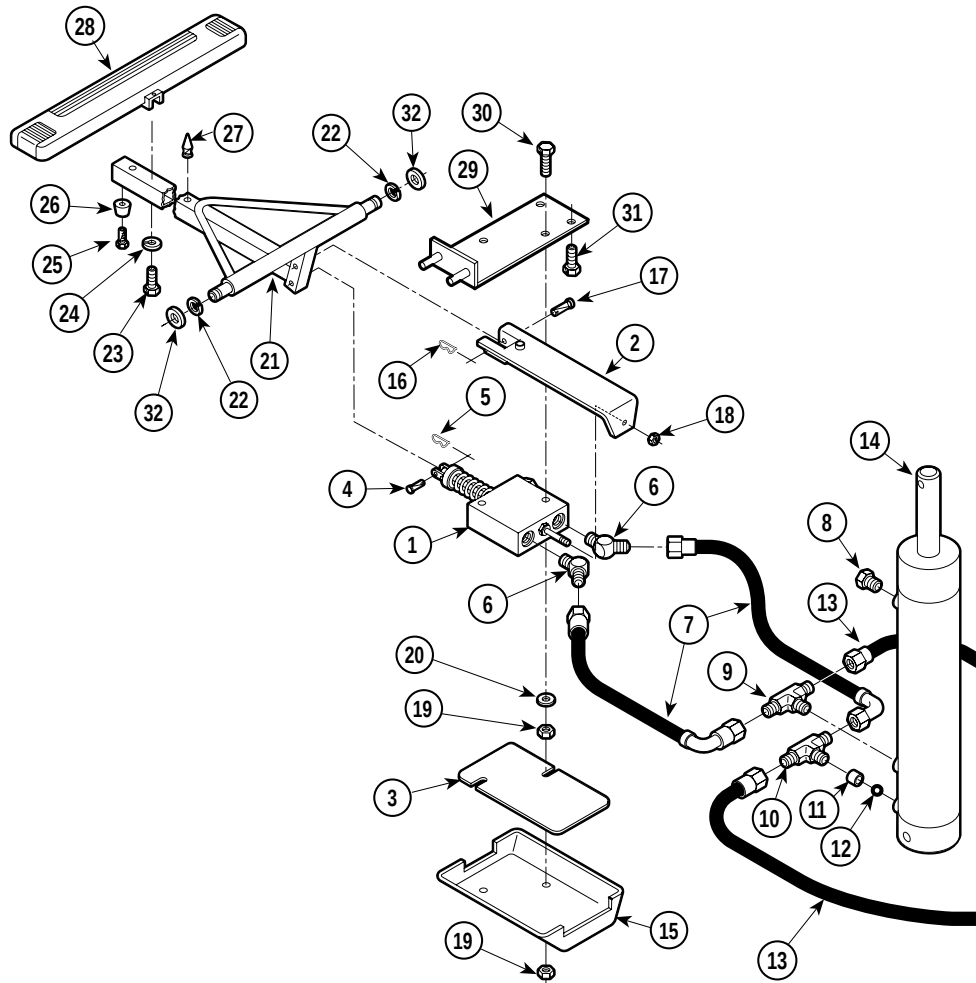
Used on Units with Serial Numbers: TAE-1000 thru TAE-2236 TAF-1000 thru TAF-1970

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K5914002 • 529-0067-00	Head End Pump Kit • Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	Ref	14		Elevation Cylinder (Refer to "Elevation Pump Assembly" Elsewhere)	Ref
2	• 530-0046-00	• Release Bar	1	15	• 553-0031-00	• Pump Cover	1
3	• 040-0250-19	• Bolt	2	16	• 042-0063-01	• Rue Ring	2
4	• 042-0602-07	• Clevis Pin	1	17	• 042-0602-06	• Clevis Pin	1
5	• 551-0032-00	• Pump Plate	1	18	• 041-0250-01	• Nut	3
6	• 016-0138-05	• Rolled Spacer	2	19	• 041-0250-04	• Nut	4
7	• 014-0174-00	• Elbow - 45° Apply Loctite Sealant #K902659)	2	20	• 014-0178-00	• Hose Assembly	2
8		• Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	21	• 530-0086-00	• Pump Pedal Weldment	1
9	• 014-0172-00	• Branch Tee - Standard (Apply Loctite Sealant #K902659)	1	22	• 042-0007-00	• E-Ring	2
10	• 014-0172-01	• Branch Tee - Altered (Apply Loctite Sealant #K902659)	1	23	• 040-0250-27	• Screw	1
11	• 557-0040-00	• Restrictor Seat	1	24	• 045-0001-47	• Washer	3
12	• 516-0274-01	• Ball	1	25	• 040-0010-47	• Screw	1
13		Hose Assembly (Refer to "Hydraulic System- Dual Pump" Elsewhere)	Ref	26	• 553-0065-00	• Bumper	1
				27	• 053-0013-00	• Bumper	1
				28	• 520-0001-00	• Pedal	1
				29	• 040-0250-36	• Screw	4
				30	• 045-0001-23	• Washer	4

Always Specify Model & Serial Number

Hydraulic Pump

SECTION VI PARTS LIST



HA523502

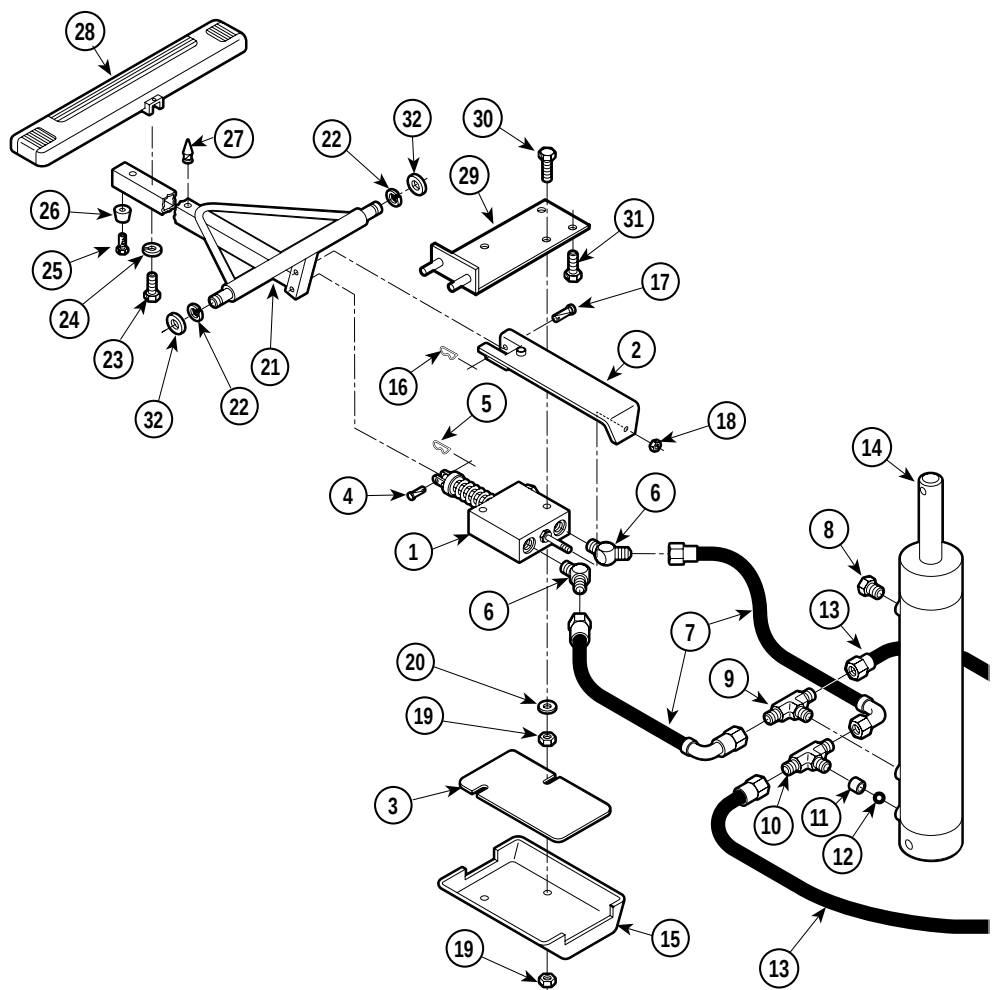
Used on Units with Serial Numbers:
TAE-2237 thru TAE-6481 TAF-1971 thru TAF-5035

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K5914003	Head End Pump Kit		14		Elevation Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref
	• 502-0042-00	• Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	1	15	• 553-0031-00	• Pump Cover	1
2	• 550-0293-10	• Release Bar	1	16	• 042-0063-01	• Rue Ring	1
3	• 566-0109-00	• Oil Pad	1	17	• 042-0602-15	• Clevis Pin	1
4	• 042-0602-14	• Clevis Pin	1	18	• 041-0250-01	• Nut	1
5	• 042-0063-01	• Rue Ring	1	19	• 041-0375-10	• Nut	4
6	• 014-0174-00	• Elbow - 45° Apply Loctite Sealant #K902659)	2	20	• 045-0001-49	• Washer	2
7	• 014-0178-00	• Hose Assembly	2	21	• 530-0147-00	• Pump Pedal Weldment	1
8		• Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	22	• 042-0007-00	• E-Ring	2
9	• 014-0172-00	• Branch Tee - Standard (Apply Loctite Sealant #K902659)	1	23	• 040-0250-27	• Screw	1
10	• 014-0172-01	• Branch Tee - Altered (Apply Loctite Sealant #K902659)	1	24	• 045-0001-47	• Washer	2
11	• 557-0040-00	• Restrictor Seat	1	25	• 040-0010-47	• Screw	1
12	• 516-0274-01	• Ball	1	26	• 553-0065-00	• Bumper	1
13		Hose Assembly (Refer to "Hydraulic System-Dual Pump" Elsewhere)	Ref	27	• 053-0013-00	• Bumper	1
				28	• 520-0001-00	• Pedal	1
				29	• 550-0144-00	• Pump Plate	1
				30	• 040-0375-29	• Bolt	2
				31	• 040-0250-68	• Screw	2
				32	• 045-0001-01	• Washer	2

Always Specify Model & Serial Number

Hydraulic Pump

SECTION VI PARTS LIST



HA523502

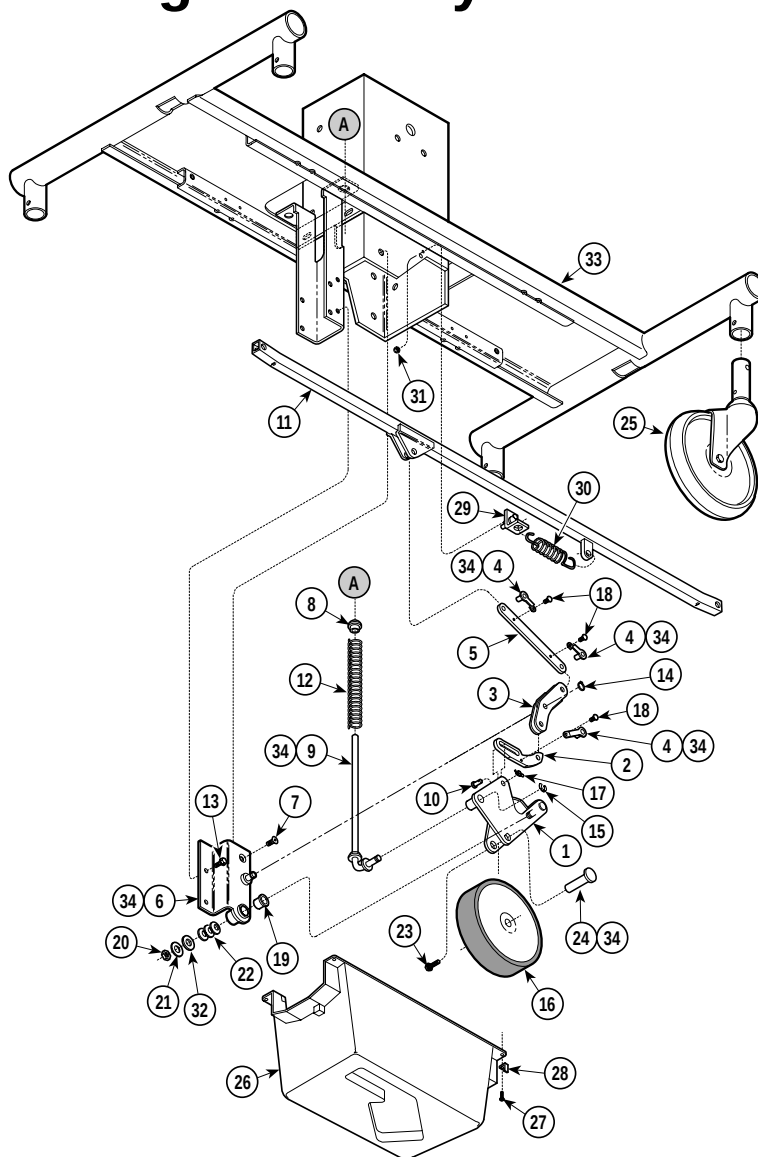
Used on Units with Serial Numbers: TAE-6482 thru Present TAF-5036 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	K5914005	Head End Pump Kit		14		Elevation Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref
	• 502-0042-00	• Elevation Pump (Refer to "Elevation Pump Kit" Elsewhere)	1	15	• 553-0031-00	• Pump Cover	1
2	• 550-0293-10	• Release Bar	1	16	• 042-0063-01	• Rue Ring	1
3	• 566-0109-00	• Oil Pad	1	17	• 042-0602-15	• Clevis Pin	1
4	• 042-0602-14	• Clevis Pin	1	18	• 041-0250-01	• Nut	1
5	• 042-0063-01	• Rue Ring	1	19	• 041-0375-10	• Nut	4
6	• 014-0175-00	• Elbow - 45° Apply Loctite Sealant #K902659)	2	20	• 045-0001-49	• Washer	2
7	• 014-0178-01	• Hose Assembly	2	21	• 530-0513-10	• Pump Pedal Weldment	1
8		• Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref	22	• 042-0007-00	• E-Ring	2
9	• 014-0172-00	• Branch Tee - Standard (Apply Loctite Sealant #K902659)	1	23	• 040-0250-27	• Screw	1
10	• 014-0172-01	• Branch Tee - Altered (Apply Loctite Sealant #K902659)	1	24	• 045-0001-47	• Washer	2
11	• 557-0040-00	• Restrictor Seat	1	25	• 040-0010-45	• Screw	1
12	• 516-0274-01	• Nylon Ball	1	26	• 553-0065-00	• Bumper	1
13		Hose Assembly (Refer to "Hydraulic System-Dual Pump)	Ref	27	• 553-0162-00	• Bumper	1
				28	• 520-0001-00	• Pedal	1
				29	• 550-0583-10	• Pump Plate	1
				30	• 040-0375-29	• Bolt	2
				31	• 040-0250-122	• Screw	2
				32	• 045-0001-01	• Washer	2

Always Specify Model & Serial Number

Rite Trac Steering Assembly

SECTION VI PARTS LIST



HA539400

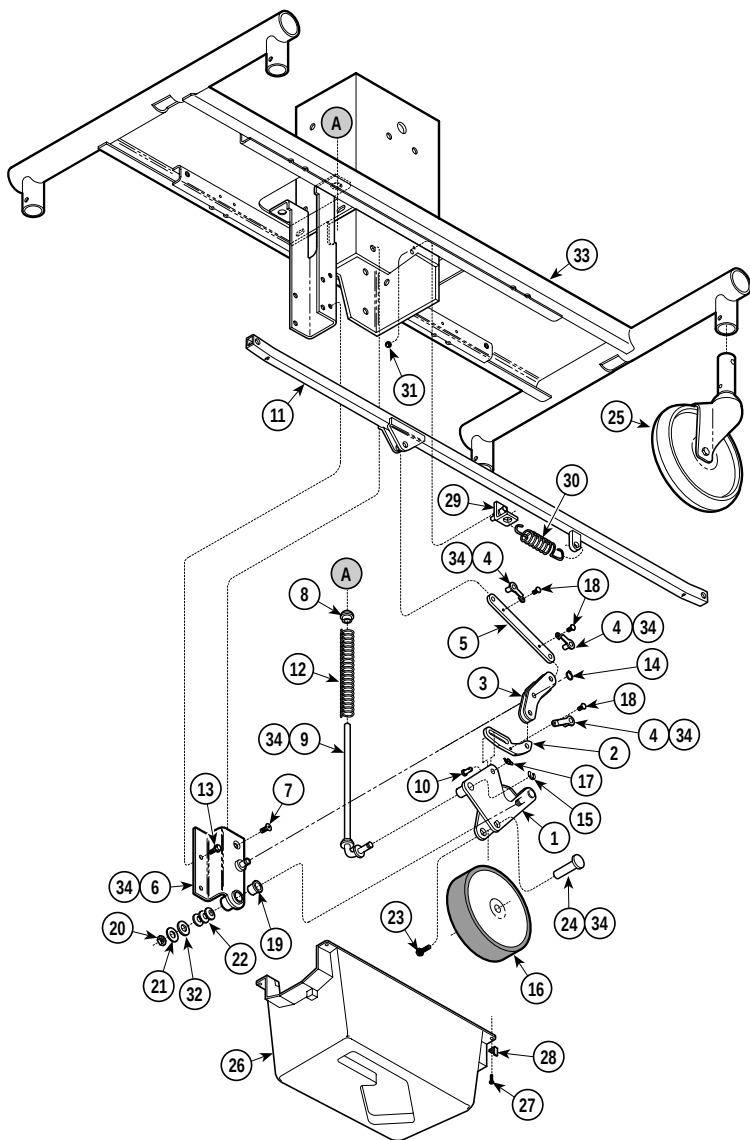
Used on Units with Serial Numbers:
TAE-11038 thru TAE-11121 TAF-9383 thru TAF-9437

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	K59132001	Rite Trac Steering Assembly		18	• 040-0008-26	• Screw	3
1	• 530-0790-00	• Wheel Housing	1	19	• 016-0392-10	• Bearing	1
2	• 551-0537-00	• Lower Link	1	20	• 041-0500-02	• Locknut	1
3	• 530-0840-00	• Middle Link	1	21	• 045-0015-00	• Washer	1
4	• 530-0808-00	• Pin Tab	3	22	• 045-0001-85	• Washer	3
5	• 551-0536-00	• Upper Link	1	23	• 040-0010-91	• Screw	1
6	• 530-0789-10	• Pivot Plate	1	24	• 557-0710-00	• Axle	1
7	• 040-0375-40	• Screw	1	25	• 516-0119-01	• Brake Caster	1
8	• 553-0296-00	• Spring Seat	1	26	• 553-0318-00	• Lower Cover	1
9	• 530-0807-00	• Spring Guide	1	27	• 040-0010-07	• Screw	4
10	• 042-0602-17	• Clevis Pin	1	28	• 550-0723-00	• Basket Retainer	4
11	• 530-0830-10	• Transfer Link	1	29	• 530-0843-10	• Spring Mount	1
12	• 525-0024-10	• Spring	1	30	• 525-0055-00	• Extension Spring	1
13	• 040-0375-00	• Bolt	2	31	• 041-0010-02	• Nut	1
14	• 042-0077-00	• Snap Ring	1	32	• 045-0001-62	• Washer	1
15	• 042-0065-01	• Klipring	1	33		Chassis (Refer to "Caster Linkage Components" Elsewhere)	Ref
16	• 516-0262-00	• Caster	1	34	• 064-0011-00	• Grease	AR
17	• 042-0063-00	• Rue Ring	1				

Always Specify Model & Serial Number

Rite Trac Steering Assembly

SECTION VI PARTS LIST



HA539400

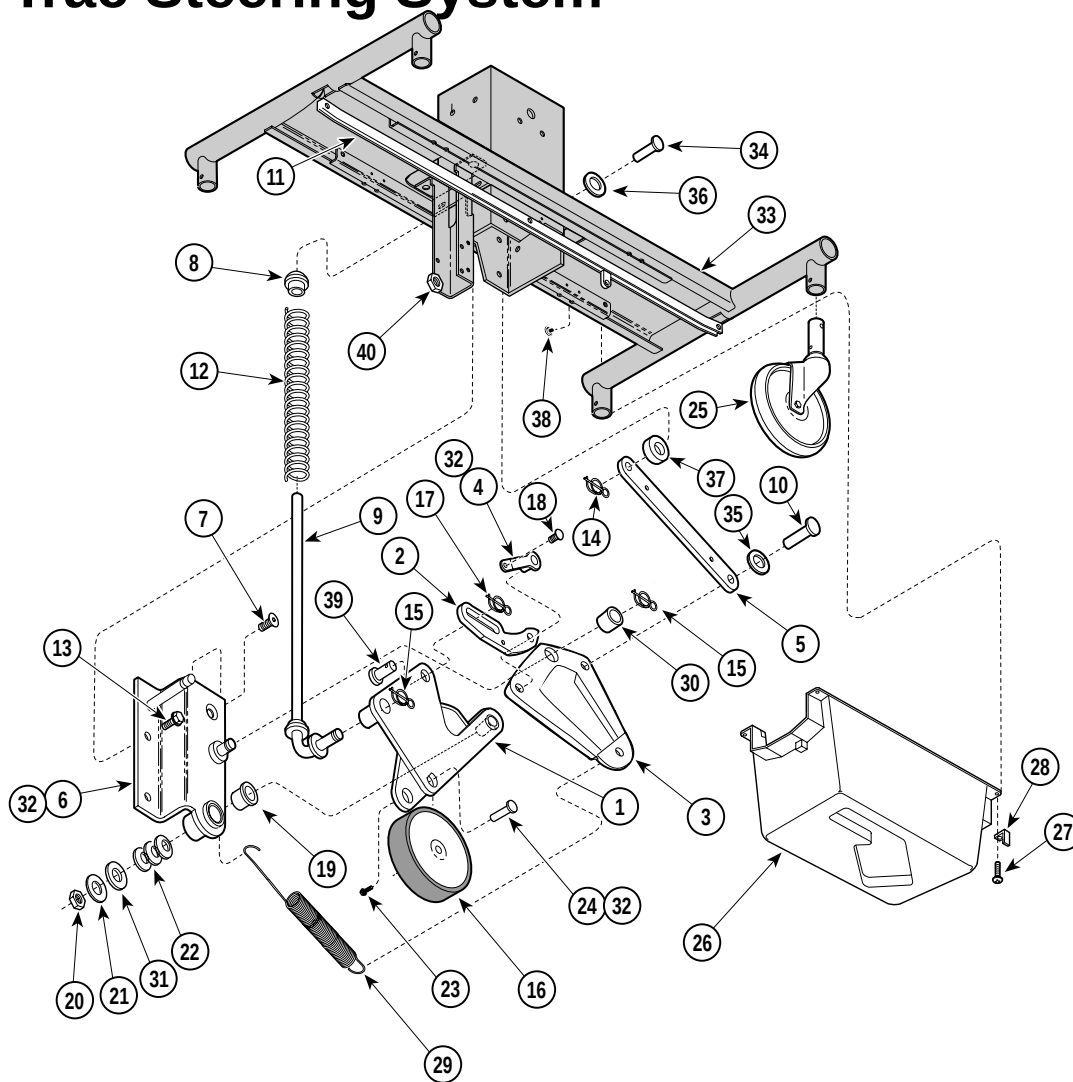
Used on Units with Serial Numbers:
TAE-11122 thru TAE-11986 TAF-9438 thru TAF-10418

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	K59132001	Rite Trac Steering Assembly		18	•040-0008-26	• Screw	3
1	•530-0790-00	• Wheel Housing	1	19	•016-0392-10	• Bearing	1
2	•551-0537-00	• Lower Link	1	20	•041-0500-02	• Locknut	1
3	•530-0840-00	• Middle Link	1	21	•045-0015-00	• Washer	1
4	•530-0808-00	• Pin Tab	3	22	•045-0001-85	• Washer	3
5	•551-0536-00	• Upper Link	1	23	•040-0010-91	• Screw	1
6	•530-0789-10	• Pivot Plate	1	24	•557-0761-00	• Axle	1
7	•040-0375-40	• Screw	1	25	•516-0119-01	• Brake Caster	1
8	•553-0296-00	• Spring Seat	1	26	•553-0318-00	• Lower Cover	1
9	•530-0807-00	• Spring Guide	1	27	•040-0010-07	• Screw	4
10	•042-0602-17	• Clevis Pin	1	28	•550-0723-00	• Basket Retainer	4
11	•530-0830-10	• Transfer Link	1	29	•530-0843-10	• Spring Mount	1
12	•525-0024-10	• Spring	1	30	•525-0055-01	• Extension Spring	1
13	•040-0375-00	• Bolt	2	31	•041-0010-02	• Nut	1
14	•042-0077-00	• Snap Ring	1	32	•045-0001-62	• Washer	1
15	•042-0065-01	• Klipring	1	33		Chassis (Refer to "Caster Linkage Components" Elsewhere)	Ref
16	•516-0262-00	• Caster	1	34	•064-0011-00	• Grease	AR
17	•042-0063-00	• Rue Ring	1				

Always Specify Model & Serial Number

Rite Trac Steering System

SECTION VI PARTS LIST



HA539408

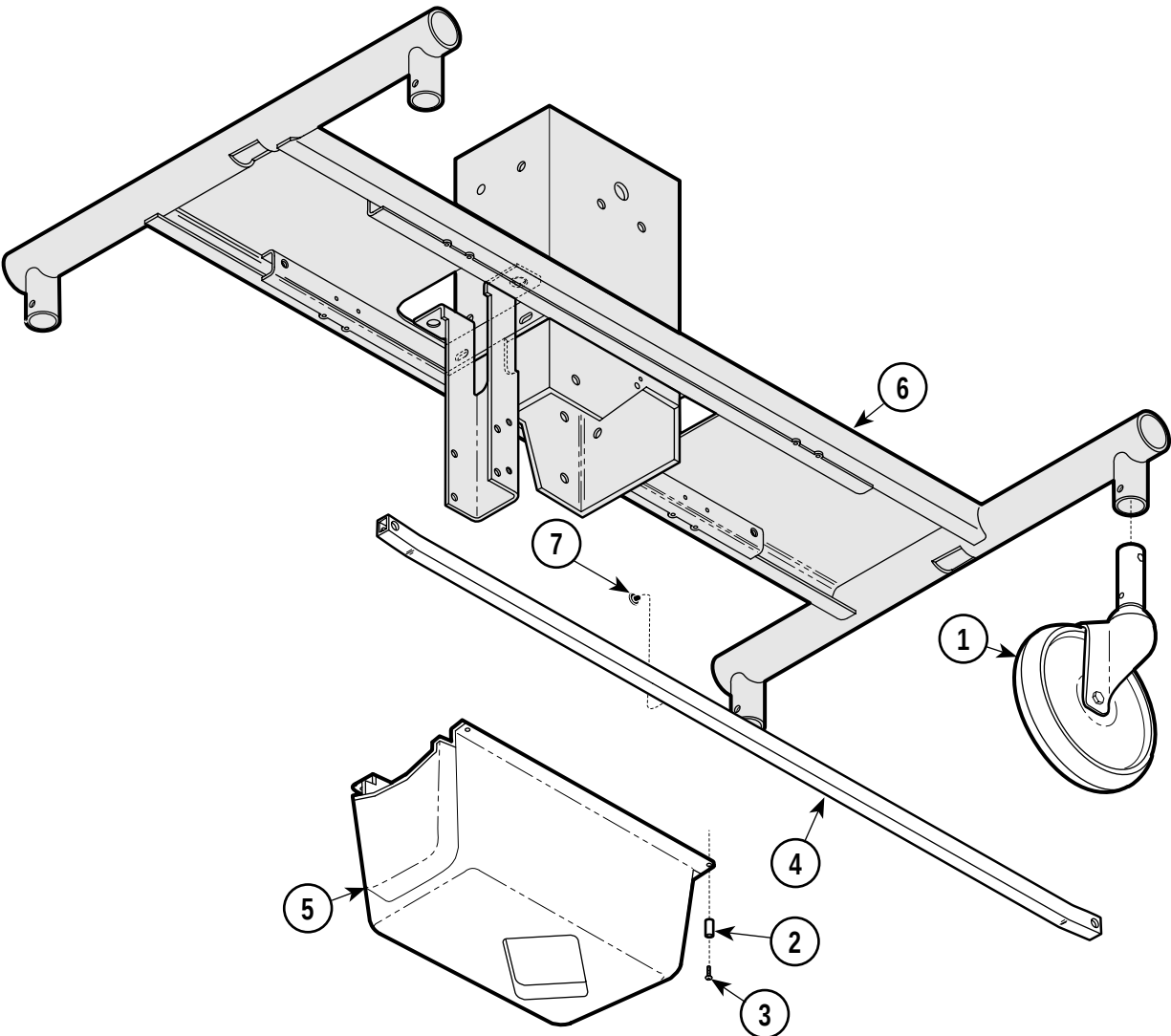
Used on Units with Serial Numbers:
TAE-11987 thru Present TAF-10419 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	K59132001	Rite Trac Steering Assembly		21	• 045-0015-00	• Washer	1
1	• 530-0790-00	• Wheel Housing	1	22	• 045-0001-85	• Spring	3
2	• 551-0691-00	• Lower Link	1	23	• 040-0010-91	• Screw	1
3	• 530-1021-00	• Middle Link	1	24	• 557-0761-00	• Axle	1
4	• 530-0808-00	• Pin Tab	1	25	• 516-0119-01	• Braking Caster	1
5	• 550-0968-00	• Upper Link	1	26	• 553-0461-00	• Lower Cover	1
6	• 530-1035-10	• Pivot Plate	1	27	• 040-0010-07	• Screw	4
7	• 040-0375-45	• Screw	1	28	• 559-0029-00	• Basket Retainer	4
8	• 553-0296-00	• Spring Seat	1	29	• 525-0067-00	• Extension Spring	1
9	• 530-1029-00	• Spring Guide	1	30	• 016-0076-24	• Bushing	1
10	• 042-0602-17	• Clevis Pin	2	31	• 045-0001-62	• Washer	1
11	• 550-0918-00	• Transfer Link	1	32	• 064-0015-00	• Lubricant	AR
12	• 525-0024-10	• Spring	1	33		• Chassis (See Caster and Linkage Components)	Ref
13	• 040-0375-66	• Bolt	4	34	• 042-0602-23	• Clevis Pin	1
14	• 042-0063-01	• Rue Ring	1	35	• 045-0001-02	• Spacer	1
15	• 042-0063-03	• Rue Ring	2	36	• 045-0001-02	• Washer	1
16	• 516-0262-00	• Caster	1	37	• 053-0110-11	• Spacer	1
17	• 042-0063-00	• Rue Ring	3	38	• 553-0464-00	• Stem Bumper	2
18	• 040-0008-26	• Screw	1	39	• 042-0602-22	• Clevis Pin	2
19	• 016-0392-10	• Bearing	1	40	• 041-0375-12	• Nut	4
20	• 041-0500-02	• Locknut	1				

Always Specify Model & Serial Number

True Direction Steering Assembly

SECTION VI PARTS LIST



HA539505

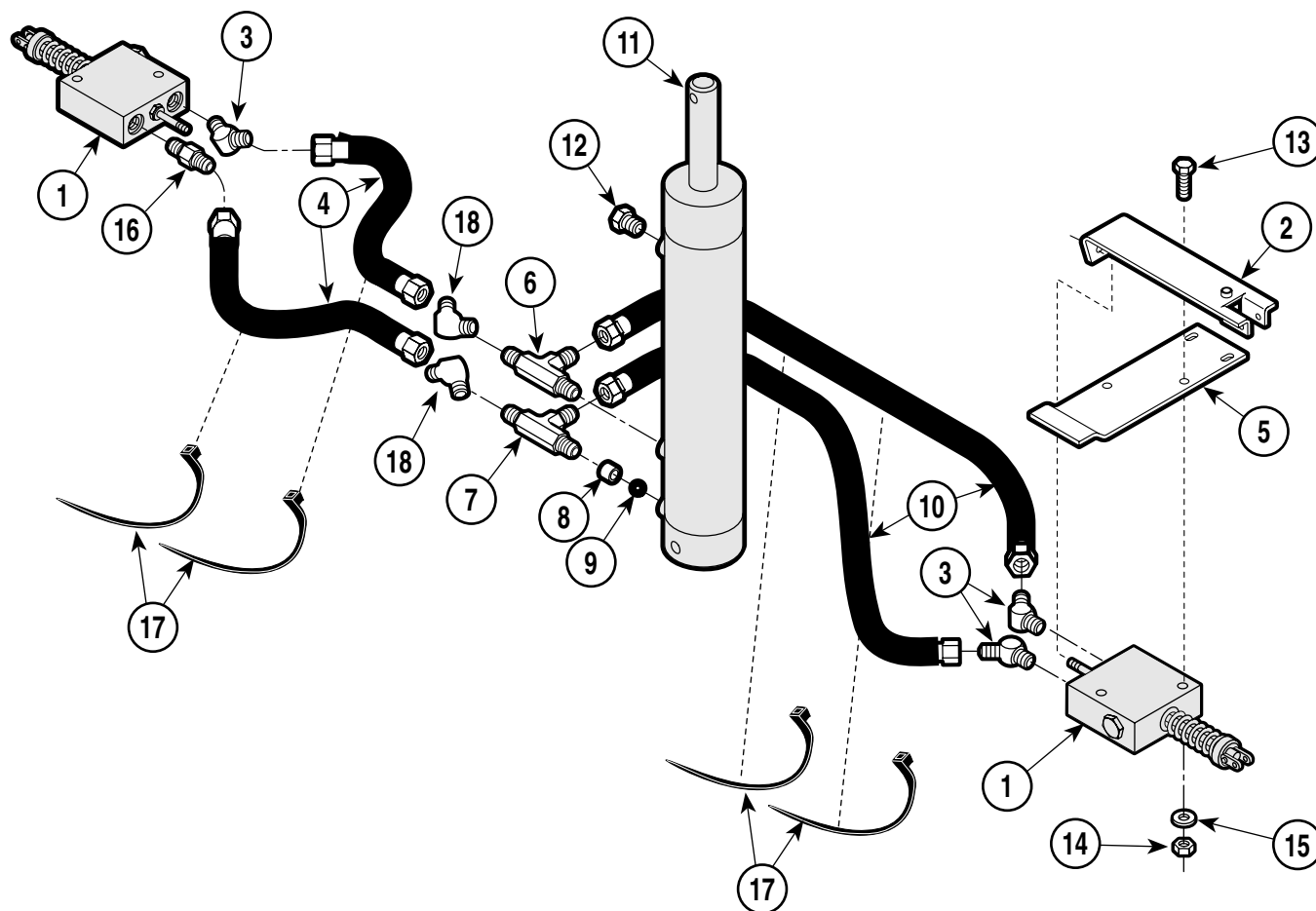
Used on Units with Serial Numbers:
TAE-11038 thru Present TAF-9383 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
	K59133001	True Direction Steering Assembly					
1	• 516-0119-00	• Steer Caster	1	5	• 553-0511-00	• Lower Cover	1
2	• 016-0138-10	• Spacer	4	6		Chassis (Refer to "Caster Linkage Components" Elsewhere)	Ref
3	• 040-0010-76	• Screw	4	7	• 553-0464-00	• Stem Bumper	1
4	• 552-0462-10	• Transfer Link	1				

Always Specify Model & Serial Number

Dual Pump - Rite Trac Steering

SECTION VI PARTS LIST



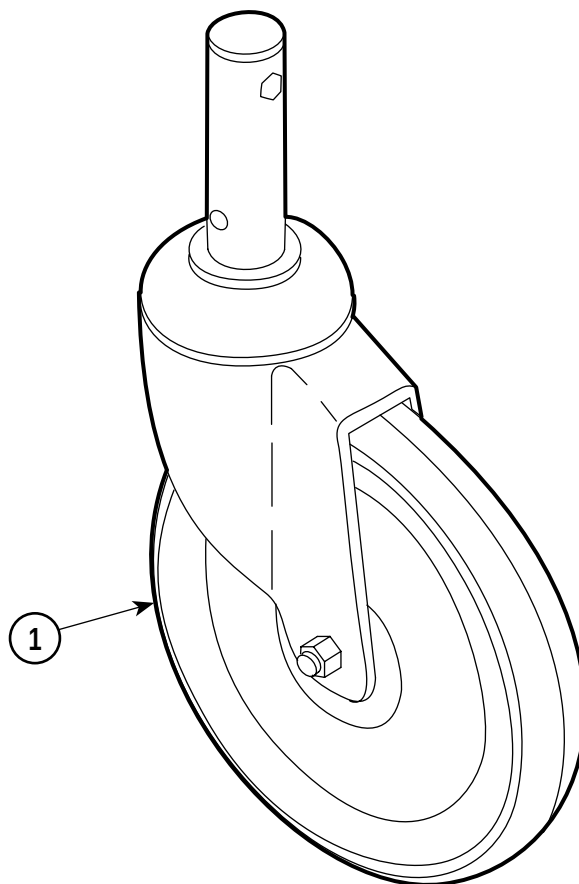
HA542200

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	529-0491-00	Dual Pump Rite Trac Steering	1	9	• 516-0274-01	• Ball	1
2	•	• Elevation Pump (Refer to "Elevation Pump Assembly" Elsewhere)	2	10	• 014-0178-02	• Hose Assembly	2
3	• 014-0175-00	• Release Bar (Refer to "Elevation Pump Assembly" Elsewhere)	Ref	11	•	• Elevation Cylinder (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref
4	• 014-0178-00	• Elbow - 45° Apply Loctite Sealant #K902659)	3	12	•	• Plug (Refer to "Elevation Cylinder Assembly" Elsewhere)	Ref
5	• 550-0583-10	• Hose Assembly	2	13	• 040-0375-29	• Bolt	4
6	• 014-0264-00	• Pump Plate	1	14	• 041-0375-10	• Nut	4
7	• 014-0264-01	• Branch Tee (Apply Loctite Sealant #K902659)	1	15	• 045-0001-49	• Washer	4
8	• 557-0040-00	• Branch Tee - Altered (Apply Loctite Sealant #K902659)	1	16	• 014-0263-00	• Straight Fitting (Apply Loctite Sealant #K902659)	1
		• Restrictor Seat	1	17	• 015-0013-01	• Cable Tie	4
				18	514-0171-00	• Elbow - 90°	2
					502-0151-00	Rite Trac Hydraulic System Kit	

Always Specify Model & Serial Number

Caster Assembly

SECTION VI PARTS LIST



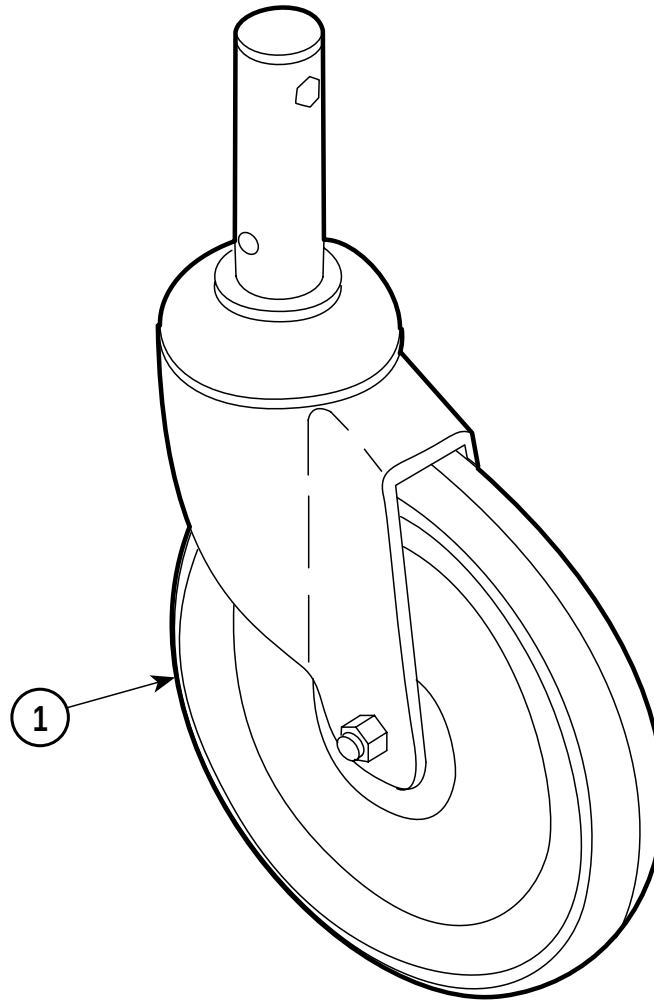
HA540200

Used on Units with Serial Numbers: TAE-11038 thru TAE-12170 TAF-9383 thru TAF-10565

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	516-0119-00	Steer Caster			• 042-0081-01	• Bolt	1
	• 516-0101-00	• Steer Caster Fork	1		• 041-0028-00	• Nut (Apply Loctite #042-0024-00)	1
	• 042-0081-01	• Bolt	1		• 516-0120-00	• Red Caster (Round Profile)	1
	• 041-0028-00	• Nut (Apply Loctite #042-0024-00)	1		• 516-0101-00	• Steer Caster Fork	1
	• 516-0120-00	• Red Caster (Round Profile)	1		• 516-0130-00	• Hub Cap	1
	• 516-0101-00	• Steer Caster Fork	1		• 516-0154-00	• Brake Puck	1
	• 516-0130-00	• Hub Cap	1		516-0061-00	Black Caster (Flat Profile)	Ref
	• 516-0154-00	• Brake Puck	1		516-0061-01	Black Caster (Round Profile)	Ref
	516-0119-01	Brake Caster					
	• 516-0101-01	• Brake Caster Fork	1				

Always Specify Model & Serial Number

Caster Assembly



HA540107

Used on Units with Serial Numbers:
TAE-12171 thru Present TAF-10566 thru Present

Item	Part No.	Description	Qty.	Item	Part No.	Description	Qty.
1	516-0409-00	Steer Caster			516-0409-01	Brake Caster	
	• 516-0101-04	• Steer Caster Fork	1		• 516-0101-05	• Brake Caster Fork	1
	• 042-0081-01	• Bolt	1		• 042-0081-01	• Bolt	1
	• 041-0028-00	• Nut (Apply Loctite #042-0024-00)	1		• 041-0028-00	• Nut (Apply Loctite #042-0024-00)	1
	• 516-0410-00	• Tire			• 516-0410-00	• Tire	1
	• 516-0154-00	• Brake Puck	1		• 516-0154-00	• Brake Puck	1

Always Specify Model & Serial Number

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