

1 Ton 2-Stage Air/Hydraulic Transmission Jack

Models: ASM3324



WARNING: Cancer and Reproductive Harm
www.p65Warnings.ca.gov

SPECIFICATIONS

Capacity (Ton):	1
Minimum Height (in):	37-3/8
Maximum Height (in):	76-3/8
1st Stage Stroke (in):	19-1/4
2nd Stage Stroke (in):	20
Jack Base Area L x W (in):	29-5/8 x 23-3/16
Saddle Forward/Backward Tilt (deg.):	10-28°
Saddle Left/Right Tilt (deg.):	10-28°
Net Weight (lbs):	160.94
Gross Weight (lbs):	192.9

WARNING SYMBOLS AND DEFINITIONS

	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

IMPORTANT SAFETY INFORMATION

1. Study, understand, and follow all instructions before operating this device.
2. Adequately support the vehicle before starting repairs.
3. Do not exceed rated capacity.
4. Use only on hard, level surface capable of supporting the load.

5. Before moving, lower the load to the lowest possible height.
6. Failure to heed these markings may result in personal injury and/or property damage.
7. Before moving the load, ensure that the load is centered and secured with a load-restraint device.
8. Only attachments and/or adapters supplied by the manufacturer shall be used.
9. No alterations shall be made to this product.
10. Use of this product is limited to the removal, installation, and transportation in the lowered position, of transmissions, transfer cases, and transaxles.
11. Do not adjust safety valve.
12. Wear ANSI-approved safety goggles and heavy-duty work gloves during use.
13. Keep clear of load while lifting and lowering.
14. Lower load slowly.
15. Do not use for aircraft purposes.
16. Inspect before every use; do not use if parts loose or damaged.
17. The warnings, precautions, and instructions discussed in this manual cannot cover all possible conditions and situations that may occur. The operator must understand that common sense and caution are factors, which cannot be built into this product, but must be supplied by the operator.



WARNING



INSPECT BEFORE EACH USE

- Do not use if broken, bent, cracked, or damaged parts (including labels) are evident.
- If this product appears damaged in any way, operates abnormally or is missing parts, it needs to be removed from service immediately and the manufacturer notified.
- If you suspect that this product was subjected to a shock load (a load dropped suddenly or unexpectedly upon it), immediately discontinue use until it has been checked by a qualified person or factory authorized service center (contact distributor or manufacturer for list of Authorized Service Centers).
- It is recommended that an annual inspection be done by qualified personnel.
- Replace worn or damaged parts with Factory Authorized Replacement Parts only. Labels and owner's manuals are available from manufacturer.

BEFORE USE

When unpacking, check the parts diagram and part number listing to make sure all parts are included. If any parts are missing or damaged, please call your distributor.

INTENDED USE

To safely lift and support a vehicle's transmission during removal and installation. Always secure the transmission with the provided chain before moving.

WARNING

DO NOT use for any purpose other than those outlined in this manual. **DO NOT** use jack around corrosive materials such as chlorides - commonly used by road crews to melt snow and ice. Water and slush from vehicles exposed to chlorides may enter jack cylinder, severely and permanently damaging interior of cylinder and causing air leaks which adversely affect lifting performance and safety.

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AutoSport
MFG

ASSEMBLY

1. Attach 2 pieces of Locking Casters (#47) and 2 pieces of Casters (#52) to the Base Legs (#43) using Nut, Flat Washer and Lock Washer.
2. Connect Base Legs (#43) with the Pump (#30) using Flat Washer (#48), Lock Washer (#49) and Bolt (#50).
3. Attach support bars (#45) to the Transmission Jack using adjusting Bolt (#64), Nut (#44), Nut (#62), Lock Washer (#61), Flat Washer (#59) and Bolt (#60).
4. Install the Saddle (#04) onto the top of the piston (#05) and tighten the bolt on the bottom of the saddle to secure the saddle.

PREPARATION

BEFORE USE

1. Verify that the product and application are compatible.
2. Before use, read the operator's manual completely and familiarize yourself thoroughly with the product and its components, and recognize the potential hazards associated with its use. Know your jack and how it operates before attempting to use.
3. Refer to the exploded view drawing at the end of this manual to identify jack components.
4. Install the finger into the saddle plate mounting hole with the screw, the washer and the wing nuts.
5. Connect the finger and the chain together with the U-shaped bolt.

CHECK THE JACK

1. Examine the jack for broken or damaged parts. Roll the jack to ensure that it rolls freely and smoothly.
2. Raise and lower the unloaded saddle throughout the lift range to ensure proper operation before placing any load on the product.
3. Replace worn or damaged components with factory replacement parts only. (See Parts List and Breakdown).
4. Lubricate as instructed in Maintenance section.

BLEEDING THE TRANSMISSION JACK OF AIR

If the jack is not able to raise the load or raises very slowly, follow these instructions:

1. Turn the Screw (#26) counterclockwise to make it open.
2. Use an Allen wrench to open the following screw on the foot pedal. (See Figure 1)
3. Operate the Pump Pedal (#38) until the hydraulic fluid escapes from the screw hole and there are no air bubbles.
4. Tighten the Screw (#26).
5. Test to see if the telescopic rams are working smoothly or not.
6. Repeat steps 1 through 4 if the condition has not been fully corrected. If the jack's telescopic rams do not raise or lower smoothly, follow these instructions:
7. Turn the Screw (#26) counterclockwise to make it open.
8. Press the Pump Pedal (#38) until both rams are at maximum extension.
9. Use an Allen wrench to turn the screw in the primary cylinder nut counterclockwise 1/2 turn. (See Figure 2)
10. Press the Pump Pedal (#38) two or three times until the hydraulic fluid escapes from the screw hole and there are no air bubbles.
11. Tighten the Screw (#26).
12. Test to see if the telescopic rams are working smoothly or not.
13. Repeat steps 1 through 4 if the condition has not been fully corrected



Figure 1



Figure 2

OPERATION

1. Lift the vehicle to the desired work height, and support the vehicle in accordance with the lift manufacturer's recommended lifting and support procedures.
2. Position the transmission jack directly under the transmission. Turn the release knob all the way in a clockwise direction until it stops. Pump the handle, and the saddle will start to rise. Raise the saddle to a height very close to the center of balance point of the transmission, but do not touch the transmission.
3. Loosen the four bolts that secure the four fingers to the saddle. The fingers and can be adjusted in and out to help position the transmission on the saddle. Now gently raise the saddle so it supports the transmission. Adjust the four fingers in position against the transmission, and tighten the bolts that secure the fingers to the saddle. Fore and aft saddle tilt adjustments and side to side adjustments are necessary to properly position the transmission on the saddle. These adjustments can be made by rotating the two knobs.
4. The chain should be pulled over the center of balance portion of the transmission and secured on the chain hooks.
5. Rotate the wing nuts to take up the slack in the chain secure the transmission to the saddle.
6. Remove the transmission from the engine according to instructions in the vehicle service manual. Once the transmission has been disconnected from the engine, slowly turn the jack's release knob in a counterclockwise direction to start to lower the transmission. Make sure the saddle and transmission do not hang up on any under vehicle components, wiring, fuel lines, etc. Continue to lower the jack all the way down.
7. Remember to secure the transmission to the saddle before installing, and follow the vehicle manufacturer's installation instructions.

NOTE: ALWAYS store the jack in the fully lowered position. This will protect critical areas from excessive corrosion.

MAINTENANCE

1. When not in use, store the jack in a dry location with saddle in lowest position.
 2. Periodically check the piston rod for signs of rust or corrosion. Clean exposed areas with a clean oiled cloth.
- WARNING:** Never use sandpaper or abrasive material on these surfaces!
3. A coating of light lubricating oil to pivot points, axles and hinges will help to prevent rust and assure that casters, foot pedal and pump assemblies move freely. Periodically lubricate the pivot points, axles and hinges with a light lubricating oil as needed.
 4. With jack in its lowest position, remove the air vent screw (26) to check the hydraulic oil level. If it is not adequate, add high quality hydraulic jack oil as necessary. Insert and tighten the air vent screw. Then purge away air from hydraulic system as described in Part 6.

WARNING: DO NOT use brake fluid or any other improper fluid and avoid mixing different types of oil when adding hydraulic oil.

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- To ensure best performance and longer equipment life, replace the complete hydraulic oil at least once a year. With jack in its lowest position, remove the air vent screw (#26), lay the jack on its side and drain the oil into a suitable container. Ensure that no dirt gets into the system. Set the jack in its level upright position, fill with approved hydraulic jack oil. Then replace the air vent screw (#26) and bleed air from hydraulic system as described in previous page.

NOTE: Dispose of hydraulic oil in accordance with local regulations.

- When equipment efficiency drops, bleed air from hydraulic system as described in previous page.
- It is recommended that an annual inspection be done by qualified technicians. Maintenance

DECOMMISSIONING THE JACK

Should the jack become completely unserviceable and require disposal, drain oil into an approved container and dispose of the jack and oil in accordance with local regulations.

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Unit fails to extend or extends partially	1. Low fluid level	1. Refer to maintenance section and fill to correct fluid level (5.4)
Incomplete or spongy cylinder response when foot pedal is pumped	1. Low fluid level	1. Fill to correct fluid level (5.4)
	2. Air in system	2. Follow Part 6 to eliminate the air in the hydraulic system
	3. Low pressure	3. Pressure regulating again
Unit fails to extend when foot pedal is pumped	1. Release the jack	1. Operate the foot pedal and release pedal together
	2. Contamination	2. Disassemble and clean unit

Index No.	Repair Kit Part No.	Description	Qty.
1		DUST RING	1
2		O-RING	1
3		U-RING	1
4	PRT3324-04	SADDLE	1
5		2ND STAGE PISTON	1
6		OIL FITTING	1
7		RETAINER RING	1
8		DUST RING	1
9		O-RING	1
10		U-RING	1
11		NUT	1
12		O-RING	1
13		1ST STAGE PISTON	1
14		RETAINER RING	1
15		COVER	1
16		SCREW	1
17		STEEL BALL	1
18		O-RING	1
19		NUT SEAT	1
20		SEAL RING	2
21		RESERVOIR	1
22		PIN	1
23		PIN	3
24		HANDLE	1
25		HANDLE SLEEVE	1
26		SCREW	1
27		SEAL RING	1
28		RAM	1
29		SEAL RING	1
30		PUMP	1
31		U-LIMIT BRACKET	1
32		LOCK WASHER	1
33		SCREW	1
34		RELEASE PEDAL	1

Index No.	Repair Kit Part No.	Description	Qty.
35		PIN	1
36		PIN	1
37		FLAT WASHER	2
38		PUMP PEDAL	1
39		RETAINER RING	4
40		LINKAGE	2
41		PIN	2
42		PIN	1
43		BASE LEG	2
44		NUT	4
45	PRT3324-44-64	SUPPORT BAR	4
46	PRT3324-44-64	BOLT	1
47	PRT3324-47	LOCKING CASTER ASSEMBLY	2
48		FLAT WASHER	4
49		LOCK WASHER	4
50		BOLT	4
51		SCREW	2
52	PRT3324-52	NON LOCKING CASTER ASSEMBLY	2
53		WASHER	1
54		O-RING	1
55		STEEL BALL	1
56		SPRING	1
57		LIMITING VALVE SEAT	1
58		SUPPORT BAR SEAT	1
59		FLAT WASHER	8
60		BOLT	8
61		LOCK WASHER	8
62		NUT	8
63	PRT3324-63	AIR HOSE	1
64	PRT3324-44-64	BOLT	4
65	PRT3324-65	AIR MOTOR	1
/	PRT3324-SK	SEAL KIT	1

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1-YEAR LIMITED WARRANTY

AutoSport MFG warrants that AutoSport branded products are free from defects in workmanship and materials. We will repair or replace products that fail to give satisfactory service due to workmanship or materials.

The warranty for AutoSport branded products is ONE YEAR from the date of the original purchase. The proof of purchase must be available for any warranty consideration. Repair or replacement shall be at the sole direction of AutoSport MFG. AutoSport warranty is administered where the original purchase was made. AutoSport MFG will not provide any warranty for any product subjected to misuse, modification, unreasonable use, neglect, lack of maintenance or use after the unit is significantly worn.

CONTACT US

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ORDERABLE REPAIR PARTS & KITS BREAKDOWN

