

\*Designates those parts included in repair kit #282700

REPLACEMENT  
PARTS

MODEL NO.  
72500D

CAPACITY  
1/2 TON

DESCRIPTION  
TELESCOPIC TRANSMISSION JACK

**norco**

INDEX NO.	DESCRIPTION	PART NO.	REQ'D NO.
*1	Oil Wiper Seal	282201	1
*2	Pressure Seal	282202	1
3	Cylinder Nut (secondary)	282199	1
*4	O-Ring	282204	1
*5	Oil Wiper Seal	282206	1
*6	Pressure Seal	282207	1
7	Cylinder Nut (primary)	282195	1
*8	O-Ring	282209	1
*9	Backup Ring	282211	1
*10	O-Ring	282212	1
11	Ram (secondary)	282213	1
12	Fill Plugs w/"O" rings	282220	1
*13	O-Ring Seal	282192	1
14	Primary Ram Sleeve	282217	1
15	Ram (primary)	282218	1
16	Retaining Ring	282219	4
17	Pump Pedal	282221	1
18	Pedal Pivot Pin	282222	1
19	Pedal Bearing Pin	282223	1
20	Pedal Bearing	282224	1
21	Pump Piston	282269	1
*22	Oil Wiper Seal	282227	1
*23	Pressure Seal	282228	1
24	Pump Spring	282271	1
25	Hydraulic Block Assembly	282215	1
26	Release Pivot Pin	282231	2
27	Retaining Ring	282232	2
28	Pedal Support Pin	282233	1
*29	Release O-Ring	282234	1
30	Release Housing	282236	1
31	Release Spring	282237	1
32	Release Nut	282238	1
33	Valve Cover Screw	282239	2
34	Copper Washer	282241	1
35	1/4" Diameter Checkball	9004	4
36	5/16" Diameter Checkball	9005	2
37	1/4" - 20 x 5/16" Allen Socket Screw	3142	4
38	Copper Washer	282242	2
39	Valve Spring	282243	2
40	Checkball	9007	2
41	Ball Retainer	282244	1
42	Overload Spring	282246	1
*43	O-Ring	282247	1
44	Overload Screw	282248	1
45	Release Valve Shaft	282249	1
46	Release Valve Assembly	282250	1
47	Leg	282251	2
48			
49			
50	Small Handle	282383	1

INDEX NO.	DESCRIPTION	PART NO.	REQ'D NO.
51	Bolt	282596	1
52	Expansion Pin	282598	2
53	Large Handle	282599	2
54	Tilt Screw	282597	2
55	Threaded Trunion	282592	2
56	Retaining Ring	282589	8
57	Saddle Base	282594	1
58	Bronze Washer	282593	4
59	Saddle Tilt Pin	282587	1
60	Knob	282564	4
61	Retaining Ring	282586	2
62	Universal Saddle	282576	1
63	Caster Nut	1007	4
64	Shoulder Bolt	282558A	4
65	Nut	282568	8
66	Caster Assembly	282245	2
67	Washer	282569	8
68	Mounting Screw	282253	8
69	Flange Nut	282571	4
70	Washer	282254	8
71	Chain Tensioner Adjuster	282572	2
72	Eye Bolt	282578	4
73	Chain	282582	2
74	Containing Angle Assembly	282440	4
75	Washer	282561	8
76	Release Pedal	282256	1
77	Expansion Pin	282573	1
78	Castle Nut	282584	2
79	Washer	282367	2
80	Pivot Base	282588	1
81	Anchor Trunion	282591	2
82	Saddle Tilt Pin	282577	1
83	Clevis	282579	4
84	Clevis Bolt	282581	4
85	Set Screw	282257	1
86	Dust Cover	282272	1
87	"E" Retaining Ring	282273	1
88	Complete Saddle Assembly	282435	1
89	Cotter Pin	282574	1
90	Pin	282559	1
91	Bronze Bushing	282563	4
92	Washer	282562	4
93	Retaining Ring	282566	4
94	Cotter Pin	282583	2
95	Caster Washer	2001	4
96	Locking Caster Wheel	282260	2

\* Designates those parts included  
in repair kit #282700





PROFESSIONAL LIFTING EQUIPMENT

## MODEL 72500D TELESCOPIC TRANSMISSION JACK

READ BEFORE OPERATING

Also Applies to 72550A

### ASSEMBLY INSTRUCTIONS

1. Install the swivel caster wheels on the jack legs with the washers and nuts provided. See figure 1.
2. Find a hard floor that is relatively flat. Install the legs on the jack's base with the allen socket cap screws and washers provided. Do not tighten the allen socket cap screws until all four caster wheels are touching the floor and the jack appears vertical to the floor.
3. Back the adapter screw out so the adapter on the saddle assembly can be mounted to the top of the ram. Once mounted, tighten the adapter screw and adapter nut.
4. Install the containing angles on the saddle assembly using the bolts and washers provided. The containing angles fit on top of the saddle assembly's flat base and the screws and washers enter in from the top of the containing angles.
5. The chains and corresponding chain hardware are provided in order to secure the transmission to the saddle assembly and containing angles. One end of each chain should be anchored to it's own containing angle. The restraint system (chain, chain hardware and containing angles) may be adjusted according to the specific transmission.

**WARNING** DO NOT ATTEMPT TO RAISE, LOWER OR TRANSPORT TRANSMISSION WITHOUT USING THE RESTRAINT SYSTEM PROVIDED. THE USE OF THE RESTRAINT SYSTEM PROVIDED IS ONLY LIMITED TO THE CREATIVITY OF IT'S USER. NORCO CANNOT BE HELD RESPONSIBLE FOR IMPROPER SETUPS OR OFF BALANCE SETUPS THAT MAY CAUSE PERSONAL INJURY AND/OR PROPERTY DAMAGE.

6. **IMPORTANT** The model 72500D comes with two reservoir plugs. Both plugs can be installed with a philips head screw driver. The jack is shipped with a plug installed that does not leak during shipment. Before using the jack, remove the shipping plug and install the vented plug for proper operation of the jack.

7. **IMPORTANT** The jack is also shipped with a bar that is taped between the pump foot pedal and the jack base. The tape and bar must be removed before the jack can be operated.

### PURGING AIR FROM THE JACK

The jack may become air bound during shipment or if the jack is turned on it's side or upside down. You may experience the air bound condition if the hydraulic unit does not function properly during the pumping operation.

Follow these steps:

1. Make sure the rams are in a retracted position.
2. Have one person depress the release pedal while at the same time another person activates the pump foot pedal about 20 times.
3. Remove your foot from the release pedal and the jack should function properly. Sometimes air may be trapped in the top cylinder which requires bleeding air out of the air bleeder screw in the top cylinder nut. This may be done in the same manner as bleeding air out of brake lines.

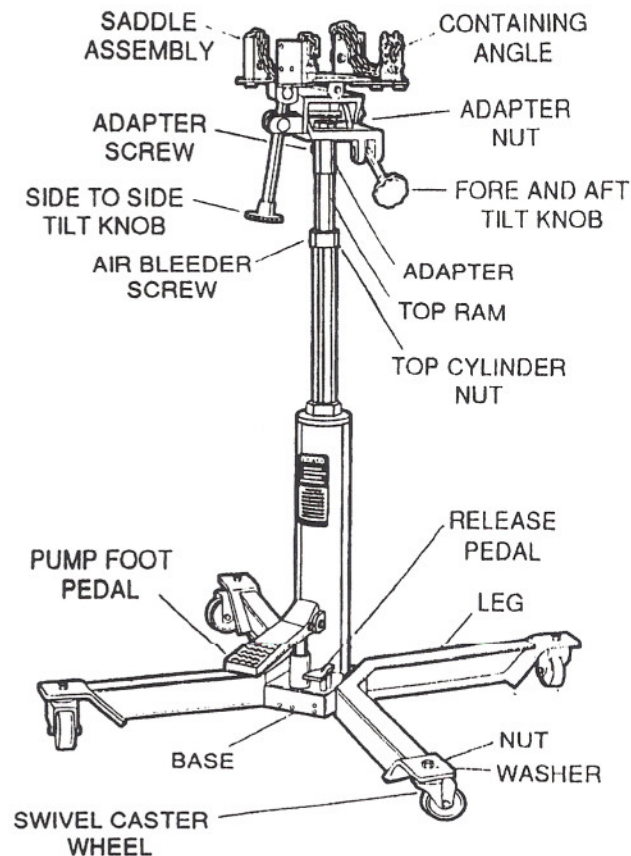
Pump the jack to maximum extension or as high as you can pump it. Install an allen wrench in the air bleeder screw located in the top cylinder nut and loosen the screw slowly while pushing the saddle assembly down. Continue opening the screw slowly until nothing but oil drains out of the hole. Tighten the screw and operate normally. It may be necessary to repeat this step several times.

### PREPARING THE VEHICLE FOR TRANSMISSION REMOVAL OR INSTALLATION

**WARNING** The entire vehicle must be lifted and supported (use underhoist stands) high enough above the floor so there is space for the jack with transmission to clear the vehicle.

**WARNING** USE ALL THE PRECAUTIONARY MEASURES GIVEN BY THE ABOVE GROUND LIFT MANUFACTURER TO SECURE, SUPPORT AND LIFT THE VEHICLE TO IT'S REQUIRED HEIGHT.

**IMPORTANT** It is important to know the center weight balance of the transmission. The transmission saddle should support the center balance of transmission weight. Consult the vehicle manufacturer for information on the transmission.



(SEE BACK SIDE)

## OPERATING INSTRUCTIONS (Continued)

### LOWERING THE LOAD

1. Depress the push button on the air valve (#32) to raise the load just high enough to remove the safety stands.
2. Turn the release valve (#26) very slowly in a counterclockwise direction in order to lower the load safely. **DON'T** use the jack handle (#15 and #16) as a prybar to dislodge the jack.
3. The jack may be stored in its normal use position only. **DON'T** use or store the jack with the release valve (#26) end of the jack pointing or angling down. Loss of fluid could render the jack inoperable. **NOTE** The jack is designed with an additional air line (#21) that adds pressure to the oil in the reservoir and forces the oil into the pump. The air line (#21) is vented by way of a hole located in the 1/8 NPT 90° elbow fitting (#27). Oil from the reservoir can seep

out of the hole if the jack is used or stored with the release valve end of the jack pointing or angling down. Excessive leaking from this hole could reduce the required oil level in the reservoir and render the jack inoperable. Slight or occasional leakage from this hole should not cause any concerns.

### IMPORTANT

The oil fill level should be no higher than one inch below the air inlet (#19) on the oil reservoir when the ram (#5) is completely retracted. Use hydraulic jack oil or turbine oil only.

**IMPORTANT** ANY DAMAGE TO THE JACK OR ITS COMPONENTS DUE TO MISUSE, ABUSE, NEGLECT, POOR OPERATOR JUDGEMENT OR SETUP WILL NOT BE CONSIDERED FOR WARRANTY COVERAGE.

---

## MAINTENANCE AND INSPECTION

### DAILY

1. Check the condition of all moving parts and replace or repair when necessary.
2. Check the condition of the air hose (#31) and replace when necessary.
3. Check for external hydraulic fluid leakage and correct the problem immediately.

### MONTHLY

All checks mentioned in the "Daily Maintenance and Inspection" procedures must be conducted.

1. Check and lightly grease the saddle extension screw threads.
2. Remove the in-line filter (#33) and clean the debris from the filter element and inside the filter housing.
3. Remove any signs of rust and lubricate the area to inhibit further rusting.

### SERVICE

Regular or warranty repairs can be handled at the Norco Authorized Service Center nearest you. Please contact the Norco Customer Service office for the location of the closest center.

Parts purchases can be made at the closest Norco Authorized Service Center or through the Norco Customer Service Office.

All service related questions can be answered by contacting the Norco Customer Service Office.

Norco Customer Service: 365 W. Victoria St., Compton, CA 90220. Phone: (310) 639-4000, Fax: (310) 639-7411.