



PROFESSIONAL LIFTING EQUIPMENT

MODEL 72050B • 1/2 TON CAPACITY • TRANSMISSION JACK OPERATING INSTRUCTIONS

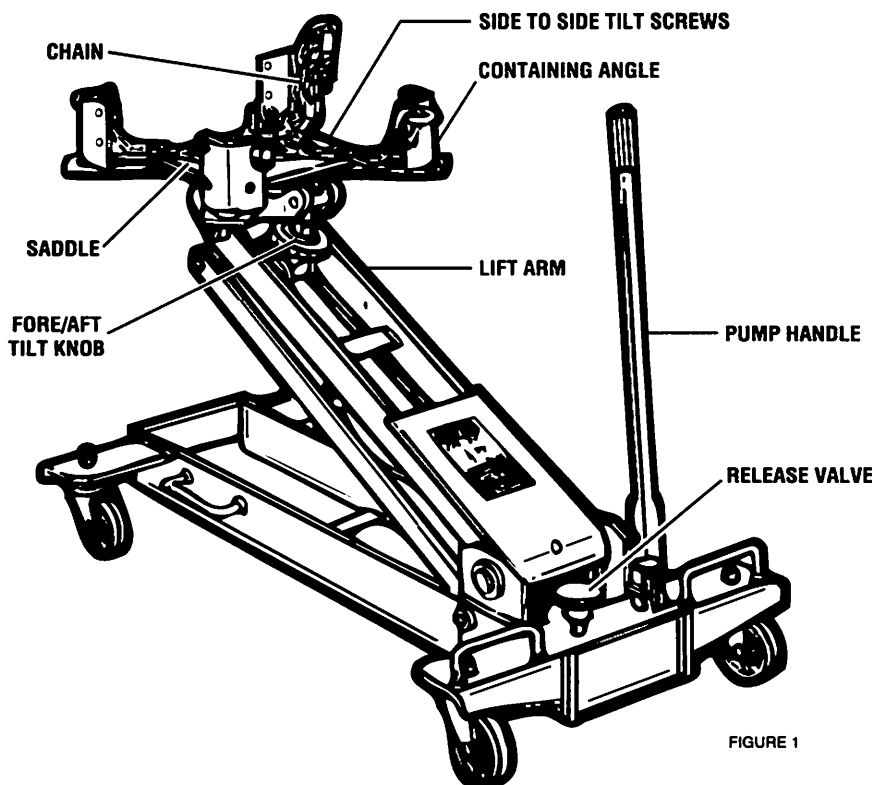


FIGURE 1

READ, UNDERSTAND AND FOLLOW THESE INSTRUCTIONS BEFORE USING THE TRANSMISSION JACK

PURGING AIR FROM THE JACK

The Model 72050B Transmission Jack may become air bound during shipment or if the jack is turned on its 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:

- Step 1. Make sure the lift arm is in the down position.
- Step 2. Open the release valve by turning it counter-clockwise two full turns.
- Step 3. Pump the jack handle approximately 10 full strokes.
- Step 4. Close the release valve by turning it clockwise until it stops. The jack should pump normally at this time.

PREPARING THE JACK FOR USE

Install the containing angles on the saddle as shown in fig. 1. The chains and corresponding chain hardware are provided in order to secure the transmission to the saddle before removal or installation. One end of each chain should be anchored to its own containing angle using the chain hardware provided.

PREPARING THE VEHICLE FOR TRANSMISSION REMOVAL OR INSTALLATION

NOTE: The entire vehicle must be lifted and supported above the floor so there is enough space for the jack with transmission to clear the vehicle.

WARNING: BEFORE LIFTING ANY VEHICLE MAKE SURE THE VEHICLE IS UNABLE TO ROLL. AUTOMATIC TRANSMISSIONS SHOULD BE IN "PARK". MANUAL TRANSMISSIONS SHOULD BE PUT IN GEAR. BOTH TRANSMISSIONS SHOULD HAVE THE EMERGENCY BRAKE ON. USE WHEEL CHOCKS FOR ADDED SAFETY.

Step 1. Raise the rear of the vehicle and position vehicle support stands under the axle so the bottom of the axle is approximately 24" off the floor.

Step 2. Raise the front of the vehicle until it appears level and support the front end by using vehicle support stands under the front axle or spring pads.

Step 3. Make sure the jack with transmission will clear the car before any work is done.

WARNING: MAKE SURE THE SETUP IS STABLE AND SAFE BEFORE GETTING UNDER THE VEHICLE OR PERFORMING ANY WORK ON THE VEHICLE. FOR YOUR SAFETY: USE VEHICLE SUPPORT STANDS (JACK STANDS) TO SUPPORT THE VEHICLE BEFORE GETTING UNDER IT.

OPERATING THE TRANSMISSION JACK

Lowering the Load

Step 1. Do not use this jack beyond its rated capacity or for purposes other than what were intended.

Step 2. The release valve must be opened slowly by rotating it in a counter-clockwise direction in order to lower the load. Lowering can be controlled by slightly opening the release valve and then shutting it off. This may be executed incrementally.

Raising the Load

Step 1. Make sure the load to be raised is positioned properly and securely attached to the saddle with the chain and chain hardware provided.

Step 2. In order to raise a load, the release valve must be closed by rotating it in a clockwise direction until it stops.

Step 3. The pump handle swivels 360°, however you must choose the most convenient position and make sure the up and down pump handle stroke will not be obstructed by any part of the vehicle.

Step 4. Pumping the jack does not require lifting the pump handle to maximum height. Maximum lifting per incremental pump stroke can be accomplished when you lift the pump handle to its maximum height and then push it all the way down. The shorter the incremental pump stroke, the shorter the incremental lift of the saddle.

Saddle Adjustment

Step 1. Once the load is centered and positioned near the saddle, the four containing angles can be slid into a position where the transmission oil pan flange will rest on top of the angles. The containing angles must be secured to the saddle by tightening the hex bolts. Now gently lower the transmission oil pan flange on top of the containing angles.

Step 2. The chains should be anchored to the two containing angles on one side. The loose ends of the chain should be pulled over the top of the transmission and be secured to the two remaining containing angles on the opposite side of the saddle. The chains should be tight.

Step 3. Fore and aft saddle tilt adjustments are sometimes necessary to properly position the transmission on the saddle or for alignment with the engine. You may turn the fore/aft tilt knob by hand or by using an adjustable or open end wrench.

Step 4. Side to side tilt adjustments may also be necessary for transmission positioning or alignment. You may turn the bolts located under the saddle with your fingers, adjustable or 3/4" open end wrench to accomplish side to side saddle adjustments.

Removing the Transmission

Step 1. Place the transmission jack under the vehicle with the saddle facing the front of the vehicle and the pump handle facing the rear.

Step 2. Pump the jack so the saddle is close to the transmission oil pan. You may now follow the instructions for "SADDLE ADJUSTMENT".

Step 3. Proceed with the removal of the transmission in accordance with the vehicle manufacturer's instructions.

Installing the Transmission

Step 1. After removal of the transmission it is recommended to keep the transmission jack saddle adjustment the same. This will help in reinstalling the transmission into its proper position.

Step 2. Proceed with the installation of the transmission in accordance with the vehicle manufacturer's instructions.

MAINTENANCE INSTRUCTIONS

1. Lubricate the jack frequently. A medium weight lubricating grease should be used on all external moving parts such as bearing surfaces, pivot points and control screws.
2. Do not use this jack as a wash rack when washing or steam cleaning transmissions.

SERVICE

In the event the jack becomes inoperable or a part is damaged you may obtain service information or replacement parts by contacting the Norco Customer Service Department, 365 W. Victoria Street, Compton, California 90220, (800) 347-2232.

IMPORTANT: IF YOU NOTICE AN EXTERNAL OIL LEAK, OTHER THAN NORMAL OPERATING CONDITIONS OR A WORN PART, IMMEDIATELY DISCONTINUE USE OF THE JACK AND CONTACT THE NORCO CUSTOMER SERVICE DEPT. FOR FURTHER INSTRUCTIONS.



PROFESSIONAL LIFTING EQUIPMENT

A DIVISION OF NORCO INDUSTRIES, INC. 310-639-4000

FACTORY AND MAIN WAREHOUSE

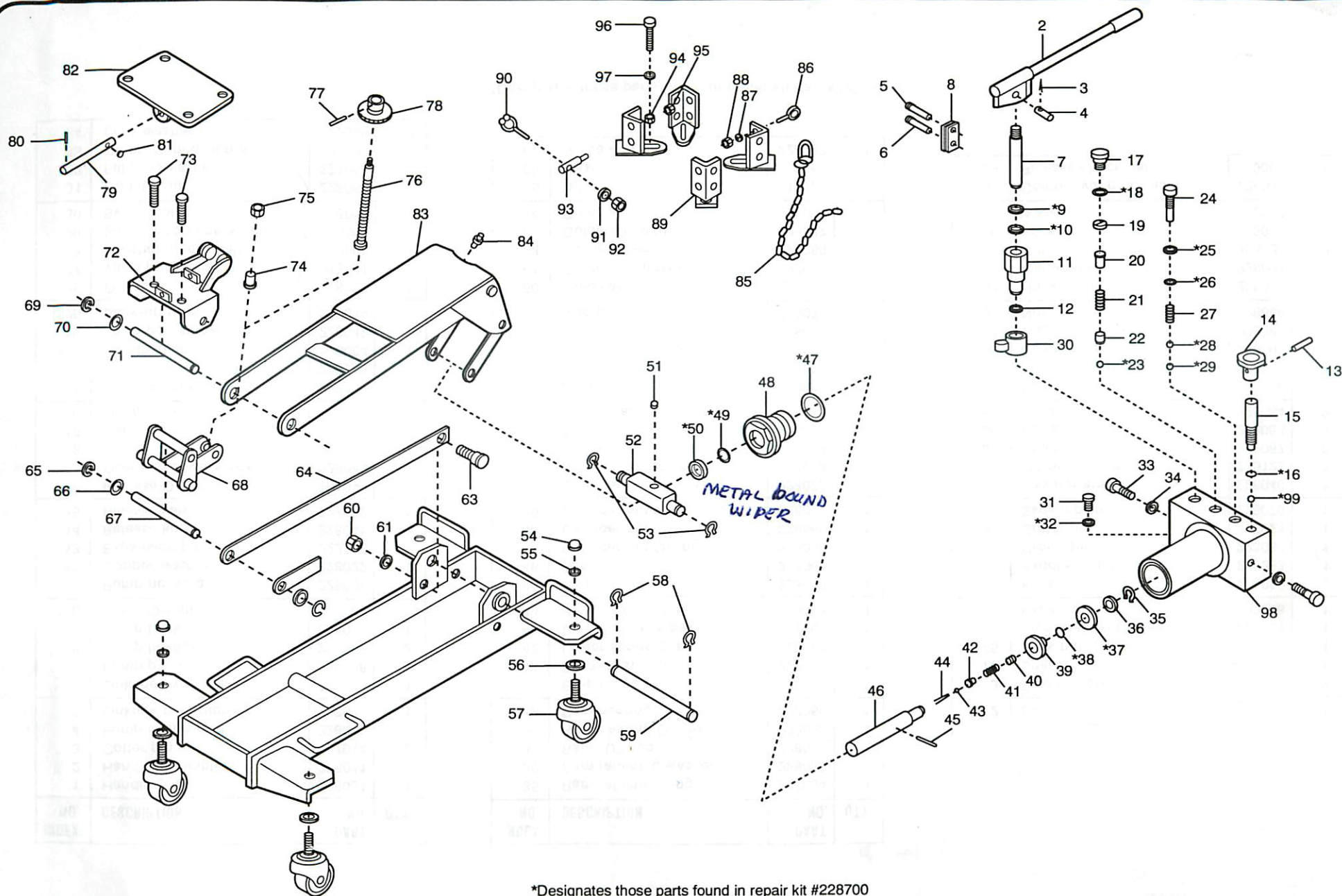
Compton, CA

BRANCH WAREHOUSES

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*Designates those parts found in repair kit #228700

**REPLACEMENT
PARTS**

**MODEL NO.
72050B**

**CAPACITY
1/2 TON**

**DESCRIPTION
HYDRAULIC TRANSMISSION JACK**

norco®

INDEX NO.	DESCRIPTION	PART NO.	QTY.
1	Handle grip	228001	1
2	Handle assembly	228011	1
3	Cotter pin	7014	2
4	Pump piston rivet	228012	1
5	Linkage rivet (upper)	228013	1
6	Linkage rivet (lower)	228014	1
*7	Pump piston	228016	1
8	Pump linkage bar	228107	2
*9	Pump back-up ring	228018	1
*10	Pump O-ring	1	
11	Pump housing	228039	1
12	Copper washer	228022	1
13	Expansion pin	222228	1
14	Release knob	228041	1
15	Release valve	228042	1
*16	Release O-ring	201092	1
17	Overload cover screw	228043	1
*18	O-ring	218012	1
19	Overload adjustment screw	1	
20	Upper spring guide	1	
21	Overload spring	228047	1
22	Lower spring guide	228048	1
*23	Overload check ball	9004	1
24	Valve port screw	228049	1
*25	Back-up ring	218019	1
*26	O-ring	218021	1
27	Valve port spring	218041	1
*28	Injection check ball	9008	1
*29	Suction port check ball	9004	1
30	Swivel collar	228051	1
31	Oil fill plug	228052	1
*32	Fill plug washer	228053	1
33	Oil block mtg. screw	31003	2
34	Lock washer	22002	2

INDEX NO.	DESCRIPTION	PART NO.	QTY.
35	Ram retaining ring	228054	1
36	Ram retaining washer	228056	1
*37	Ram "U" cup	228057	1
*38	Ram bearing O-ring	228058	1
39	Ram bearing	228059	1
40	By-pass screw	228061	1
41	By-pass spring	228062	1
42	Lower spring adapter	228063	1
43	By-pass check ball	9004	1
44	By-pass valve pin	228064	1
45	By-pass limit pin	228066	1
46	Ram	228067	1
*47	Cylinder nut O-ring	228068	1
48	Cylinder nut	228069	1
*49	Cylinder nut wiper ring	228071	1
*50	Cylinder nut oil seal	228072	1
51	Trunion cotter pin	27004	1
52	Trunion	215063	1
53	Trunion "E" ring	215076	2
54	Caster castle nut	228073	4
55	Lock washer	22002	4
56	Caster washer	228026	4
57	Caster wheel assembly	228075	4
58	Elevator arm snap ring	215073	2
59	Arm pivot pin	228074	1
60	Guide arm nut	228076	2
61	Guide arm washer	22004	2
62	Frame assembly	228080	1
63	Guide arm bolt	228077	2
64	Guide arm	228031	2
65	"E" ring	12121	2
66	Washer	2068	2
67	Guide arm pin	228032	1

INDEX NO.	DESCRIPTION	PART NO.	QTY.
68	Saddle base support	228085	1
69	"E" ring	12121	2
70	Washer	228033	2
71	Elevator arm pin	228034	2
72	Saddle base	228090	1
73	Side tilt screw	228078	2
74	Spacer	228036	1
75	Lock nut	228079	1
76	Front/back tilt screw	228081	1
77	Expansion pin	222228	1
78	Knob	228082	1
79	Saddle tilt pin	228233	1
80	Cross pin	228037	1
81	Cotter pin	7021	1
82	Saddle plate	228070	1
83	Elevator arm assembly	228040	1
84	Oil zerk fitting	215122	1
85	Chain	282067	2
86	Eye bolt	228083	2
87	Washer	228084	2
88	Nut	228086	2
89	Containing angle	228231	4
90	Chain hook	228093	2
91	Washer	228087	2
92	Nut	228088	2
93	Hook guide	228089	2
94	Flat washer	228091	2
95	Nut	228092	2
96	Screw	3072	4
97	Washer	2017	4
98	Comp. hyd. block assy.	228300	1
*99	Release check ball	9004	1

*Designates those parts found in repair kit part #228700.