Torin™ BIG RED JACKS

OPERATOR'S MANUAL

10 TON

CHASSIS AIR/HYDRAULIC SERVICE JACK

Setup

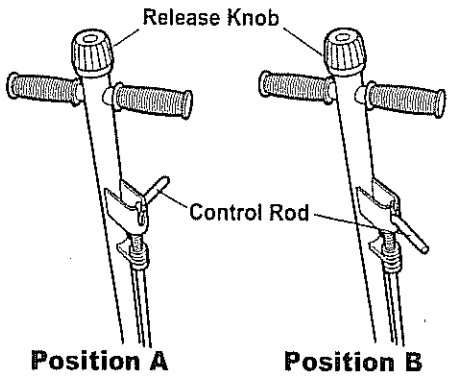
Assemble the Handle

1. Loosen the bolt on the handle socket.
2. Insert the handle.
3. Tighten the bolt.

Bleed Air from the Service Jack

Air can accumulate within a hydraulic system during shipment or after prolonged use. This entrapped air causes the jack to respond slowly or feel "spongy." To remove the air:

1. Open the release valve by turning the release knob counterclockwise.
2. Pump the jack handle six full strokes.
3. Close the release valve by turning the release knob clockwise.
4. If the jack does not immediately respond, repeat Steps 1-3.



Operating Instructions

(Refer to illustratibns above)

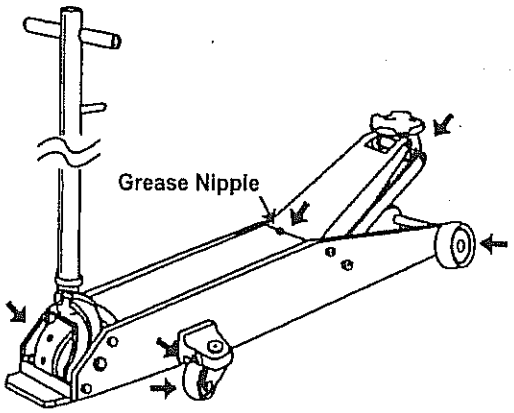
Control rod in Position A: Allows you to pump the jack using the handle.
Control rod in Position B: Locks the handle in place in three different positions.

1. Connect the shop air supply to the jack. (Shop air should be clean, dry, and regulated at 85-142 psi.)
2. Turn release knob completely counterclockwise, and place the control rod in Position A.
3. Position the jack under the vehicle using the manufacturer's recommended lifting points on the chassis. The jack must be free to roll without any obstructions while lifting or lowering the vehicle. The wheels of the vehicle must be in the straight-ahead position, with the emergency brake released.
4. Turn the release knob on the jack completely clockwise. Operate the air valve, pump the jack handle, or pump the foot pedal until the saddle touches the vehicle. Check the placement of the saddle lugs. Finish lifting the vehicle.
5. Place approved safety stands under the vehicle at points that will provide stable support. Before working on the vehicle, SLOWLY lower the vehicle onto the safety stands by turning the release knob counterclockwise.

Preventive Maintenance

IMPORTANT: Dirt is the greatest single cause of failure in hydraulic units. Keep the service jack clean and well lubricated to prevent foreign matter from entering the system. If the jack has been exposed to rain, snow, sand, or grit, it must be cleaned before it is used.

1. Store the jack in a well-protected area where it will not be exposed to corrosive vapors, abrasive dust, or any other harmful elements.
2. Refer to the illustration, and regularly (at least once per month) lubricate the moving parts shown.
3. Add grease to upper arm grease nipple (shown) every three months.
4. If necessary, add approved anti-wear hydraulic jack oil. **IMPORTANT: The use of alcohol, hydraulic brake fluid, detergent motor oil, or transmission oil could damage the seals and result in jack failure.**
5. Inspect the jack before each use. Take corrective action if any of the following problems are found:
   a. cracked or damaged housing
   b. excessive wear, bending, or other damage
   c. leaking hydraulic fluid
   d. scored or damaged piston rod
   e. malfunctioning swivel heads or adjusting screws
   f. loose hardware
   g. modified or altered equipment

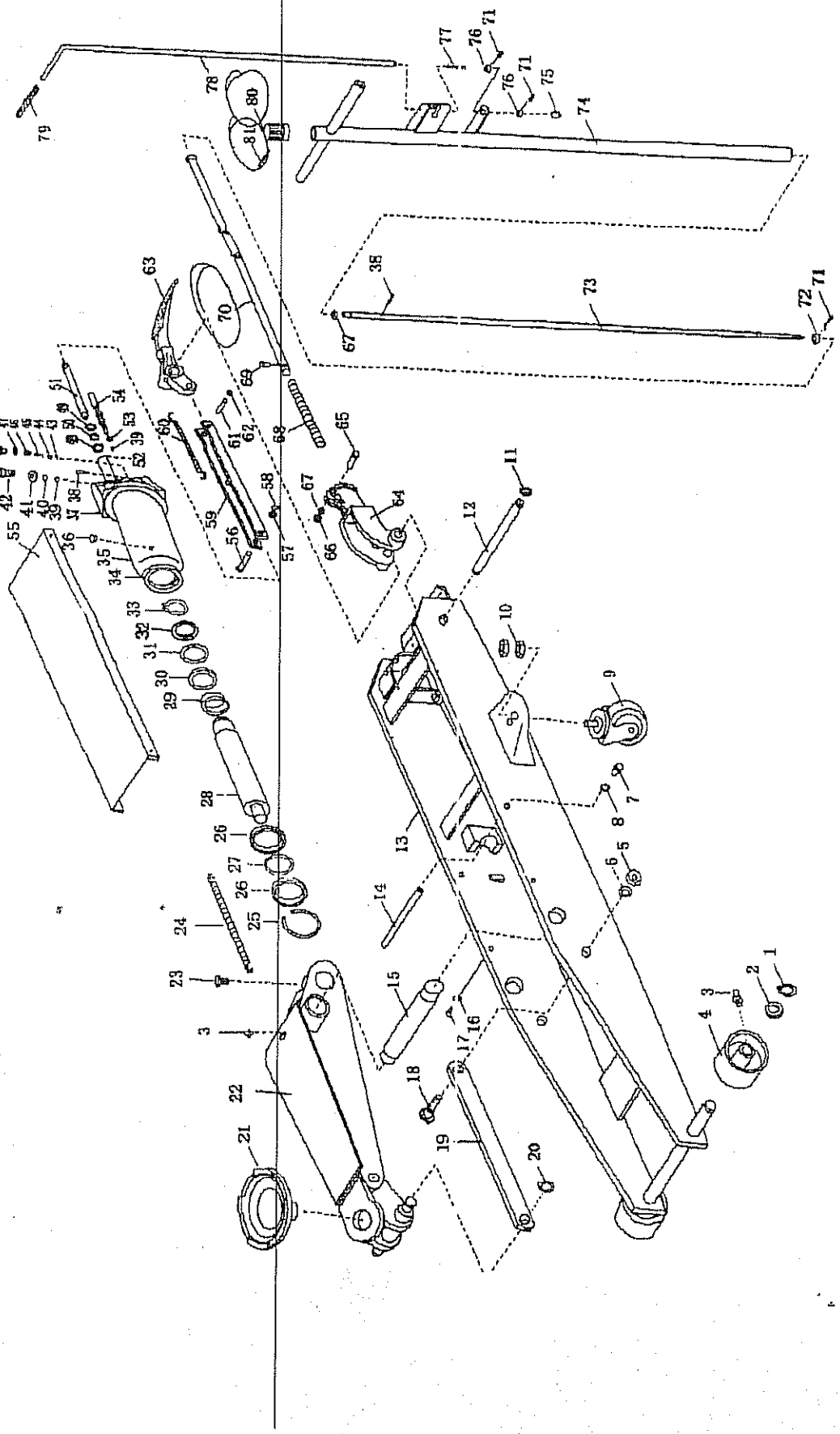


Troubleshooting Guide

Repair procedures must be performed in a dirt-free environment by qualified personnel who are familiar with this equipment.

Trouble	Cause	Solution
Jack does not lift	1. Release valve is open.	*1. Close release valve.*
	2. Low/no oil in reservoir.	*2. Fill with oil and bleed system.*
	3. Air-locked system.	*3. Bleed system.*
	4. Load is above capacity of jack.	*4. Use correct equipment.*
	5. Delivery valve and/or bypass valve not working correctly.	*5. Clean to remove dirt or foreign matter. Replace oil.*
	6. Packing worn out or defective.	*6. Install seal kit.*
	7. Leak in air line.	*7. Locate leak; tighten connections or replace hose.*
	8. Inadequate air pressure.	*8. Set air pressure to 85–142 psi.*
Jack lifts only partially	1. Too much or not enough oil.	*1. Check oil level.*
Jack advances slowly	1. Pump not working correctly.	*1. Install seal kit, or replace power unit.*
	2. Leaking seals.	*2. Install seal kit.*
Jack lifts load, but doesn't hold	1. Cylinder packing is leaking.	*1. Install seal kit.*
	2. Valve not working correctly (suction, delivery, release, or bypass).	*2. Inspect valves. Clean and repair seat surfaces.*
	3. Air-locked system.	*3. Bleed system.*
Jack leaks oil	1. Worn or damaged seals.	*1. Install seal kit.*
Jack will not retract	1. Release valve is closed.	*1. Open or clean release valve.*
Air motor won't run or runs erratically	1. Leak in air line.	*1. Locate leak, tighten connections, or replace hose.*
	2. Inadequate air pressure.	*2. Set air pressure to 85–142 psi.*

T81001 10TON. LONG FRAME FLOOR JACK



Lifting-Capacity	Lifting-Height	Max-Height	Min-Height	Gross-Weight	Net-Weight	Package Size	Air Pressure
(Ton)	(mm)	(mm)	(mm)	(kg)	(kg)	(cm)	(Mpa)
10TON	400	⩾560	⩽160	172	147	171x53x36	0.7-1.0

WARNING!!

1. This is a lifting device ONLY. Do not move or dolly the vehicle while on the jack.
2. Position this jack to ONLY lift on the areas of the vehicle as specified by the vehicle manufacturer.
3. After lifting the vehicle, ALWAYS support the load with appropriately rated vehicle support stands BEFORE working on the vehicle.
4. Do not overload this jack beyond its rated capacity. Overloading can cause damage to or failure of the jack.
5. This jack is designed ONLY for use on hard level surfaces capable of sustaining the load. Use on other than hard level surfaces can result in jack instability and possible loss of load.
6. Center load on jack saddle BEFORE lifting vehicle. Off-center loads and loads lifted when the jack is not level can cause loss of load or damage to the jack.
7. Study, Understand and follow all instructions in this manual BEFORE operating the jack.
8. Failure to head these warnings may result in loss of load, damage to the jack and/or jack Failure resulting in personal injury or Property damage.

Part List

Item No.	Description	Qty	Item No.	Description	Qty	Item No.	Description	Qty	Item No.	Description	Qty
2	Front Wheel	2	27	Snap Ring	1	52	Cylinder Pump Plunger	1	77	Washer	3
3	Washer	2	28	Washer	2	53	Pin	1	78	Screw	3
4	Snap Ring	4	29	O-ring	1	54	Steel Ball	1	79	Rod Joint	1
5	Grease Fitting	3	30	Piston Rod	1	55	Ball Seat	1	80	Spring	1
6	Rod Link	2	31	Piston Ring	1	56	Spring	1	81	Universal Joint Assy	1
7	Bolt	2	32	Sealing Washer	1	57	Screw	1	82	Convey Rod	1
8	Saddle	1	33	O-ring	1	58	Sealing Washer	1	83	Washer	1
9	Lockwasher	2	34	O-ring Retainer	1	59	Bolt	1	84	Pin	2
10	Nut	2	35	Snap Ring	1	60	Steel Ball	1	85	Copper Washer	1
11	Spring	1	36	Oil Cylinder Assembly	1	61	Spring	1	86	Pump Cylinder	1
12	Bolt	4	37	Oil Filler Plug	1	62	Copper Washer	1	87	Oil Seal	1
13	Bolt	1	38	Steel Ball	2	63	Bolt	1	88	Washer	1
14	SnapRing	4	39	Steel Ball	1	64	O-ring	2	89	Copper Washer	1
15	Shaft	2	40	Spring	1	65	Washer	2	90	Nut	1
16	Rear Wheel	2	41	Copper Washer	1	66	Handle Socket	1	91	Bolt	8
17	Nut	4	42	Bolt	1	67	Pedal	1	92	Front Cover	1
18	Snap Ring	2	43	Steel Ball	1	68	Nut	1	93	Steel Ball	1
19	Shaft	1	44	Spring	1	69	Washer	1	94	Air Pump Housing	1
20	Washer	1	45	Steel Ball	1	70	Bolt	1	95	Nut	1
21	Pin	1	46	Spring	1	71	Handle	1	96	Spring	1
22	Connecting Bar	1	47	Copper Washer	1	72	Sleeve	2	97	Cylinder Pump Plunger	1
23	Spring	1	48	Bolt	1	73	Knob	1	98	Pistom Body "A"	1
24	Snap Ring	2	49	Sealing Washer	1	74	Pin	1	99	O-ring	2
25	Shaft	1	50	Pin	1	75	Control Rod	1	100	Air Release	1
26	Cover Board	1	51	Release Valve Rod	1	76	Spring	1	101	O-ring	2