



# **Tire Equipments**

FJ90310



INSTRUCTION & MAINTENANCE MANUAL Read this entire manual carefully and completelybefore

### OWNER'S MANUAL

CAUTION: Carefully Read Instructions and Procedures for Safe Operation

#### Important information WARNING

- This jack is a lifting device, designed ONLY for lifting part of the total vehicle (i.e.,one wheel). Do not move or dolly the vehicle while it is on the jack.
- Position this jack to ONLY lift on the areas of the vehicle as specified by the vehicle manufacturer.
- After lifting the vehicle, ALWAYS support the load with appropriately rated vehicle support stands
- BEFORE working on the vehicle. • Do not overload this jack beyond its rated capacity. Overloading can cause damage to or failure of
- This jack is designed ONLY for use on hard level surfaces capable of sustaining the load. Use on
- Into 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.
  Center load on jack saddle BEFORE lifting vehicle.Off-center loads and loads lifted when the jack is not level can c ause loss of liad or damage to the jack.
  Study, understand and follow all instructions in this manual BEFORE loperating the jack.
  Failure to heed this warning may result in loss of load, damage to the jack and/or jack failure resulting in personal injury or property damage.
  Never use speedy lift device to raise load.

#### OPERATING PRINCIPLES

- An upward stroke of the jack handle draws oil from the reservoir tank into the plunger cavity.
- A downward stroke of the jack handle release oil into the cylinder, which forces the ram out. This raise the saddle.(Note:Raises if the load exceeds the rated capacity, oil automatically released back to the reservoir through the safety overload valve.)
- When the ram reaches maximum extension, oil is bypassed back into the reservoir to prevent an overextended ram stroke and possible damage to the jack.
- $\bullet$  Opening the release valve allows oil to flow back into the reservoir.This releases hydraulic pressure on the ram, which results in lowering the daddle.

#### OPERATION

- RAISING the jack:

  Close release valve by turning the handle clockwise.

  Block the vehicle's wheels for lifting stability.
- Refer to the vehicle manufacturer owners manual to locate approved lifting points on the vehicle. Position jack so that the saddle(see Fig.1) is centered under the load at an appropriate lift point.
- Pump jack handle or speedy lift lever until saddle NEARS contact with the vehicle. Check to see
- Tunip fack handle of speedy in level unit assure NEARS contact win the venicle. Check to see that the saddle is centered and will contact the load lifting point firmly.
   Continue to pump the jack handle to lift the vehicle to the desired height. After lifting, support the load with appropriately rated vehicle support stands BEFORE working on the vehicle.
   No person should remain in a vehicle that is being jacked.

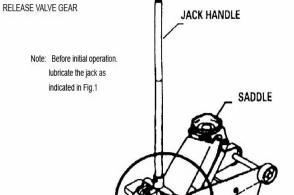
#### MAINTAINING OIL LEVEL

Important Note: When adding or replacing oil, ALWAYS use good grade hydraulic jack oil. DO NOT use hydraulic brake fluid, Alcohol, Glycerine, Detergent Motor Oil and dirty oil, Use of an improper fluid can cause serious internal damage to your jack.

Note: Before initial operation, lubricate the jack as indicated in Fig.1

## JACK HANDLE

SADDLE FRONT WHEEL ASSEMBLY REAR WHEEL ASSEMBLY



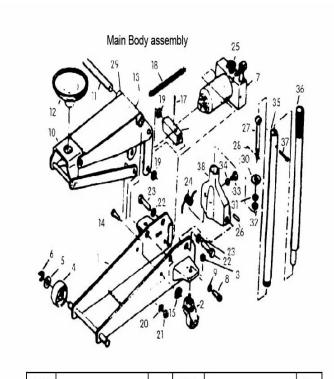
**ASSEMBLY** 

**GEAR** 

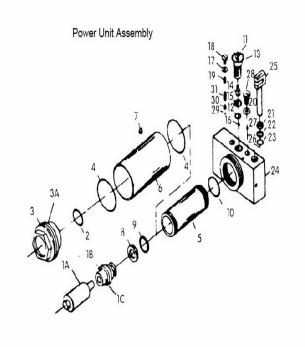
FIG.1

RELEASE VALVE ASSEMBLY





Index No.	Description	Qty	Index No.	Description	Qty
1	Side Plate	2	20	Lock Washer	2
2	Caster Assembly	2	21	Hex Nut	2
3	Lock Nut	2	22	Lock Washer	2
4	Wheel	2	23	Bolt	2
5	Washer	2	24	Torsion Spring	1
6	Retaining Ring	2	25	Release Valve Assembly	1
7	Power Unit Assembly	1	26	Plunger Pin	1
8	Screw	2	27	Gear Shaft	1
9	Lock Washer	2	28	Pin	1
10	Linkage Assembly	1	29	Lifting Arm Assembly	1
11	Shaft Arm	1	30	Release Valve Gear	1
12	Saddle	1	31	Lock Washer	1
13	Grease Fitting	1	32	Hex Nut	1
14	Bolt Link	2	33	Handle Bolt	
15	Retaining Ring	1	34	Spacer	
16	Ram	1	35	Handle (lower)	
17	Pin	1	36	Handle (upper)	
18	Return Spring	1	37	Screw 1	
19	Retaining Ring	2	38	Handle Socket 1	



Index No.	Description	Qty	Index No.		
1A	Ram Rod	1	16	Ball	
1B	Ram Head	1	17	Seal Washer	1
1C	Ram Head Pin	1	18	Plug Screw	1
2	O-Ring	1	19	Overload Valve Screw	1
3	Tank Nut	1	20	Washer	1
4	O-Ring	2	2 21 Wiper		1
5	Cylinder	1	22	Back-up Ring	1
6	Reservoir	1	23	O-Ring	1
7	Oil ill Plug	1	24	Valve Block	1
8	O-Ring Reatining	1	25	5 Plunger	
9	O-Ring	1	26	Ball	1
10	O-Ring	1	27	Ball	
11	Gear Retaining Nut	1	28	Plug Screw	
12	O-Ring	1	29	29 Ball	
13	Release Valve Assembly	1	30	Plunger	1
14	Actuator	1	31	Spring	
15	Guide Piate	1		Repair Kit(nor shown)	

			PROBLEM-S	SOLVING	HINTS	
		POSSIBLE	JACK PROBL	EMS		POSSIBLE
ck will t lift ad	Jack will lift load, butwill not load	lower	Poor jack lifting, Pump feels spongy	not lift to	Handle raises by itself when jack is under load	CAUSES AND SOLUTIONS (Refer to operation and maintenance procedures for detailed information)
Х						Release valve not tightly closed. To close or tighten, turn release v alve clockwise.
χ			Х	Х	х	Air is in hydraulic system.Release air from system.
X	Х		Х	Х		Oil level is low in jack.Add oil as required.
		х				Oil reservoir is over- filled.Drain out some oil_ Lubrication of moving parts is necessary.
χ	Х		Х			Power unit is maifunctioning. Replace the power unit.



