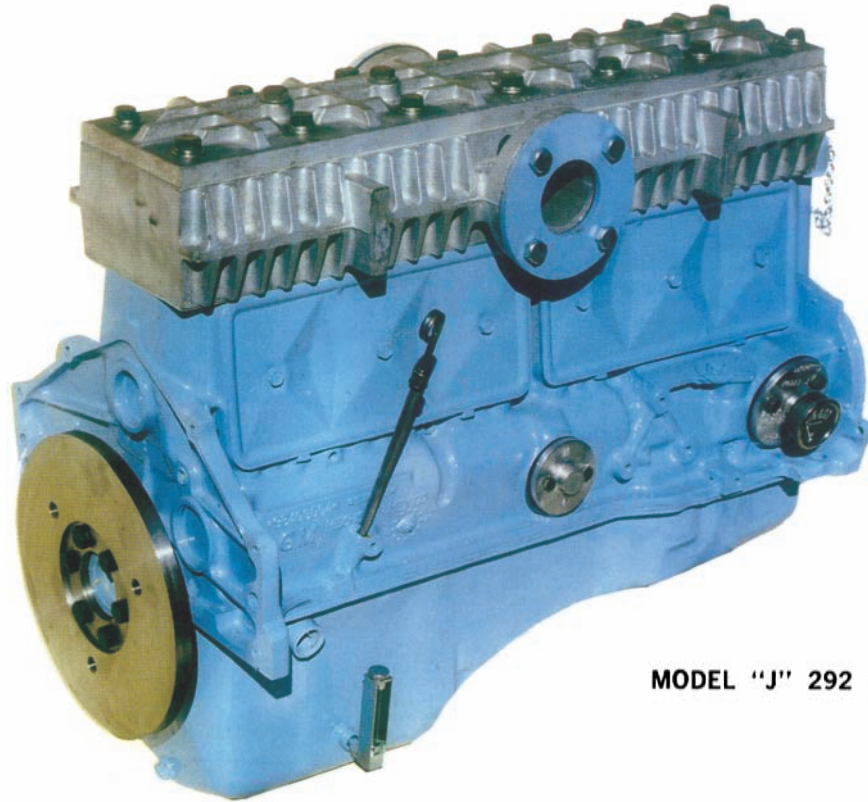




# THOMPSON VACUUM-PRESSURE UNITS

## THOMPSON MODEL "J" VACUUM-PRESSURE PUMP



MODEL "J" 292 cu. in.

### GENERAL DESCRIPTION

The Thompson Model "J" 292 cu. in. pump is an air-cooled, positive displacement, reciprocating vacuum-pressure pump designed to operate at continuous high vacuum and pressure without overheating.

The Thompson Model "J" Vacuum-Pressure Pump incorporates a standard Chevrolet engine short block, converted to accept our specially engineered head, valves and accessories. The efficient lubrication system, standard with the engine block, gives excellent protection against corrosion and overheating. This also provides a lower end considerably more durable than other piston-type pumps.

The pumps' size and shape is such that it will readily mount on the side of a truck chassis or on a platform in front of or underneath a semi-trailer.

- Over 30 years of leadership in the vacuum pump field.
- Engineered for durability.
- Easy accessibility to low-cost replacement parts.
- Rebuilding by any mechanic.
- Built-in reliability.
- Standard of the industry.
- Oil Recirculator.
- Multiple methods of mounting.
- More efficient with less H.P.
- Continuous duty.

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THOMPSON TANK, INC.  
P.O. BOX 790, LAKEWOOD, CA 90714-0790 • PHONE: (562) 869-7711 • FAX: (562) 869-7214



# THOMPSON VACUUM-PRESSURE UNITS

### DISASSEMBLY OF THOMPSON MODEL "J" VACUUM PUMP HEAD

1. Remove 4-J Head Bolts.
2. Loosen 5-J Valve Cover Plate Bolts. Loosen evenly, one-half to one revolution at a time, due to the high tension of the 14-C Hold-Down Springs.
3. Remove 14-C Hold-Down Springs, 5-C and 6-C Valves (including 15-C Valve Seat Gasket). Note the position of the suction and discharge valves for reassembly.
4. Inspect interior of pump for foreign matter and/or damage.
5. Inspect each valve, noting:
  - A. Foreign matter and/or damaged parts.
  - B. Condition of 8-C Valve Springs and 7-C Valve Discs.
  - C. Torque tightness of 11-C Bolt, 40 ft. lbs.
6. **WARNING:** Do not chuck 10-C Suction Valve Cap in a vise! Make temporary jig for disassembly and assembly of suction valve by:
  - A. Placing two (2) each 1/4" bolts in vise, threaded end up, with approximately 3/8" exposed, 1 3/8" on centers; and place suction valve guide holes over bolts.

### ASSEMBLY OF THOMPSON MODEL "J" VACUUM PUMP HEAD

1. Valve assemblies:
  - A. Place two (2) each 8-C Valve Springs on 10-C Suction Valve Cap or 13-C Discharge Valve Cap on top of each other, with the spring guides inserted into the valve guide recesses on each side of the cap.
  - B. Place 7-C Valve Disc over 8-C Valve Springs, hold assembled parts in place and insert into the 9-C Suction Valve Body and 12-C Discharge Valve Body.
  - C. Tighten 11-C Bolt with 11-C-A 7/16" external tooth Lock Washer to 40 ft. lb. torque.
  - D. Place 11-C-B 3/4" Shim Washer over 11-C Bolt on 5-C Suction Valve ONLY!
  - E. Place new 15-C Valve Seat Gaskets in valve parts.
  - F. Replace valves in their respective ports.
  - G. Place 14-C Hold-Down Springs over valves. (NOT PART OF 5-C or 6-C VALVE ASSY.)
2. Head:
 

Place 21-J Valve Cover Plate Gasket and 20-J Valve Cover Plate onto 14-C Hold-Down Springs.

  - A. Prior to inserting 5-J Valve Cover Plate Bolts, place a small amount of grease on the threads of each bolt to prevent the aluminum from seizing the bolts.
  - B. Tighten 5-J Valve Cover Plate Bolts **EVENLY**, 1/2 to 1 revolution at a time. Torque on 5-J Valve Cover Plate Bolts is approximately 50 to 60 ft. lbs.
  - C. Insert and tighten 4-J Head Bolts to approximately 50 ft. lbs.

### REPLACEMENT PARTS

1. **BLOCK:** Chevrolet cylinder blocks and their components are standard items at Chevrolet agencies. Replacement parts are obtainable world-wide.
2. **THOMPSON MODEL "J" VACUUM PUMP HEAD:** Replacement parts may be obtained through:

**THOMPSON TANK & MFG. CO., INC.**  
2019 E. Wardlow Rd. • P.O. Box 92780  
Long Beach, California 90809-2780  
Telephone: (213) 427-8938

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