

# Hydraulic Motor Drive Kit

Frame mounted pumps/Model B-ZR ball bearing brackets

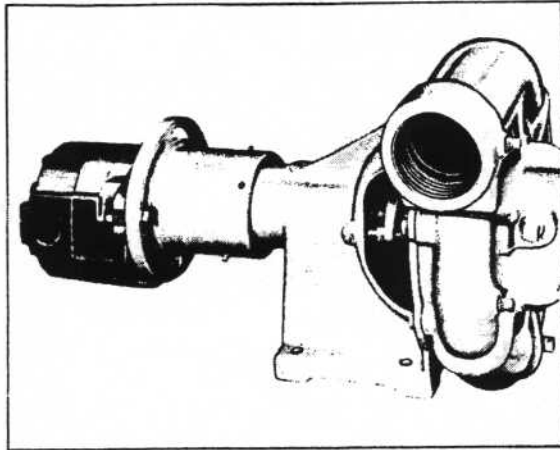


Fig. 1 - Hydraulic Motor Drive Kit on

Model B3ZRM Pump

[PumpBiz.com](http://PumpBiz.com)

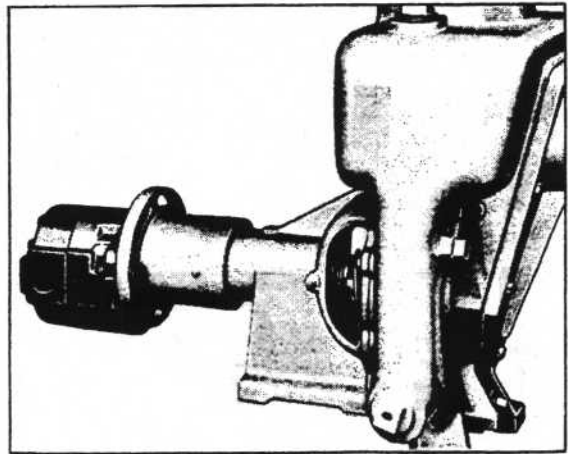


Fig. 2 - Hydraulic Motor Drive Kit on

Model B4ZRKS Self-Prime Pump

- Ideal for mobile units, where truck hydraulic system is adequate to drive pump.
- Can be used to drive pump in explosive atmosphere.
- Pump unit can be installed in any convenient location. Alignment with transmission side power take-off not required.
- Very small hydraulic motor eliminates large mounting space envelope required by engine. Engine fuel system, cooling system, exhaust system, and batteries, are not required.
- The hydraulic motor drive kit can be used with the following pump models: (Kit can be installed on existing pump, or ordered for new pump.)

Pump Model	Pump Rotation		Performance Curve	RPM Range	HP Range
	CW	CCW			
B2ZRKL		X	C-5754	1800 to 3000	3 to 12
B4ZRKS	X		C-7148	1600 to 2200	7½ to 25
B1½ZRM	X		C-6323	2600 to 3000	6 to 12
B2ZRM	X		C-1499	2000 to 2800	6 to 18
B1½ZRM	X		C-1500	2200 to 3000	10 to 35
B3ZRM	X	X	C-2091	1400 to 2500	5 to 35
B6ZRL	X		C-5568	1800 to 2300	20 to 45
B6ZRM		X	C-7417	1400 to 2200	6 to 35
B6ZRH	X		C-5571	1200 to 2000	8 to 45
B3KWRKNCS	X		C-7942	1800 to 2400	4 to 14

## Hydraulic Motor Drive Kit

Catalog Number B07779, Shipping Weight: 25 Lbs.

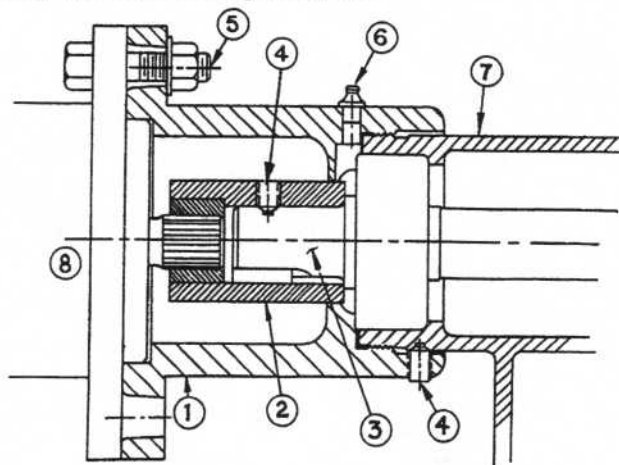
Price includes mounting bracket, splined shaft coupling, shaft key, set screws, grease fitting and two bolts, nuts and washers to secure hydraulic motor to mounting bracket.

(Price does not include Centrifugal Pump or Hydraulic Motor, or Installation.)

If ordered with any of the above pump models, the Hydraulic Motor Drive Kit will be installed on the pump without an installation charge.

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## Frame mounted pumps/Model B-ZR ball bearing brackets



**FIG. 3** (BASED ON L-5750)

- ① MOUNTING BRACKET - CAST IRON. Fits on Model B-ZR Ball Bearing Bracket in place of outer bearing cap. Supports Hydraulic Motor and maintains exact shaft alignment.

② SPLINED SHAFT COUPLING - STEEL. Precision machined to fit SAE Standard Hydraulic Motor Shaft Spline (See Fig. 4, below, for size). Coupling is installed on pump shaft and locked in place with drive key and set screw.

③ PUMP SHAFT - STEEL. Length of new or existing shaft projection to be shortened by saw cut, as shown in installation instructions (disassembly of pump is not required).
- ④ SET SCREWS - STEEL.

⑤ BOLTS, WITH NUTS AND FLAT WASHERS - STEEL.

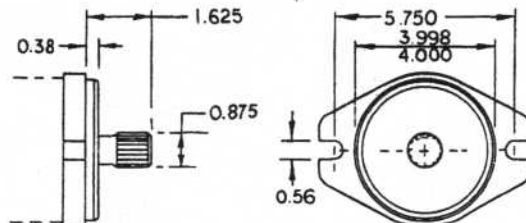
⑥ GREASE FITTING FOR OUTER PUMP BEARING - STEEL

⑦ MODEL B-ZR BALL BEARING BRACKET - CAST IRON. Component of new or existing pump unit (see listing on Page 1).

⑧ HYDRAULIC MOTOR - (SEE BELOW FOR DETAILED REQUIREMENTS.)

### HYDRAULIC MOTOR REQUIREMENTS:

The Hydraulic Motor must have an SAE Standard (SAE J744C) mounting flange and shaft size **B**, with 30° involute spline, 13T, 16/32 pitch, as shown in Fig. 4.



**FIG. 4**

The Hydraulic Motor must produce the Torque required to drive the centrifugal pump at the desired operating speed. For the centrifugal pump GPM and TDH, read the required RPM and BHP from the pump performance curve (listed on Page 1), and calculate the required Torque, in Lbs-Ft, as follows:

$$\text{Torque} = \frac{(5252) \times (\text{BHP})}{(\text{RPM})}$$

The Hydraulic Motor selected must match with the flow and pressure capability of the hydraulic power source system. The operating speed of the centrifugal pump will be controlled by valves in the hydraulic power source system.