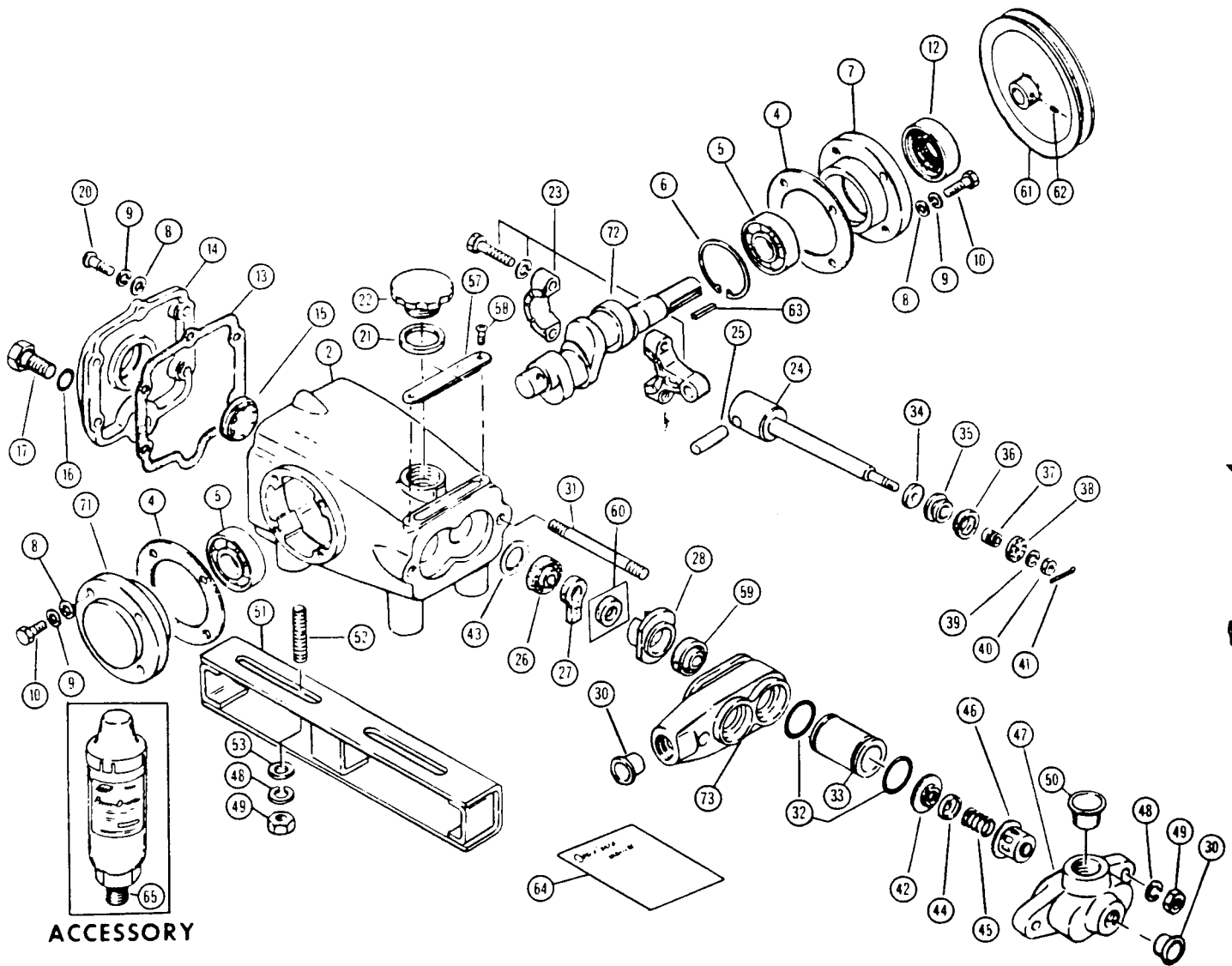


# PARTS FOR **T** SERIES CAT PUMPS

## MODEL 00250



### MOTOR PULLEY SELECTION

Pump speed and pump output in gallons per minute as tabulated is based upon a 1725 RPM drive motor. Select motor pulley size to provide GPM of the approximate pump output desired.

The values of GPM and RPM may differ slightly due to variations in drive selection.

**TABLE I**

Model 00250 CAT PUMP		Motor Pulley Outside Diameter							
		1.50"	2.0"	2.25"	2.5"	2.75"	3.0"	3.25"	3.50"
3.5" OD Pump Pulley	GPM	1.0	1.4	1.6	1.8	2.0	2.1	2.3	2.5
	RPM	690	950	1080	1210	1345	1465	1595	1725

# PARTS LIST

**T** Series CAT PUMP, MODEL 00250

Item	Part No.	Qty.	Description	Item	Part No.	Qty.	Description
2	22945	1	✓ Crankcase 25357	36	22024	2	Cup, Piston 43172
4	24280	2	Gasket, Bearing Case 25526	37	23357	2	Spacer, Piston
5	13832	2	✓ Bearing	38	22023	2	Retainer, Piston
6	12381	1	Retaining Ring, Internal	39	15848	2	Lock Washer
7	24279	1	✓ Bearing Case	40	18955	2	Nut
8	12488	13	Washer, Flat (m6)	41	12758	2	Cotterpin 14154
9	12502	13	Lock Washer (m6)	42	22030	2	Valve Seat, Discharge 2554-224457
10	12405	8	Bolt 24413	43	16949	2	Retainer, Seal 20017
12	20355	1	✓ Oil Seal, Crankshaft	44	22842	2	Valve, Discharge
13	24278	1	✓ Gasket, Crankcase Cover	45	22031	2	Valve Spring
14	24277	1	✓ Crankcase Cover 0721242	46	22841	2	Retainer, Valve Spring
15	22289	1	Oil Gauge	47	23945	1	Discharge Manifold
16	11348	1	Gasket, Oil Drain Plug 23170	48	15845	6	Lock Washer
17	23949	1	Drain Plug, Oil	49	15498	6	Nut 23104
20	15889	5	Screw 15700 9/16 5/8	50	23947	1	Plug, Plastic
21	11227	1	✓ Gasket, Oil Cap 23172	51	23950	2	Mounting Rail
22	15011	1	Cap, Oil Filler 21561	52	14137	4	Stud, Mounting
23	16941	2	✓ Connecting Rod Ass'y	53	12489	4	Washer, Flat
24	24281	2	✓ Piston Rod	57	23941	1	Cover, Oil Wick
25	16948	2	✓ Piston Rod Pin	58	12427	2	Screw
26	20122	2	✓ Seal, Piston Rod 25461 1/2 25453 1/2 25453 1/2	59	22449	2	Seal, Piston Rod (Viton) 25550
27	22158	2	✓ Wick, Oil	60	11402	2	Felt Packing 24X
28	23942	2	Seal Retainer	61	30033	1	3 1/2" A Pulley C.A.X.
30	23946	2	Plug, Plastic C.A.X.	62	30031	1	Set Screw 3/8 3/4
31	14053	2	Stud	63	30034	1	Key (Pulley) 3/8 3/4
32	11378	4	O-Ring 23172	64	30036	1	Operating Instructions
33	24285	2	Cylinder	71	24291	1	Bearing Case
34	22020	2	Valve, Inlet	72	23938	1	Crankshaft
35	22021	2	Piston	73	24283	1	Inlet Manifold

## ACCESSORY

65

06000

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Prrrrr-O-Lator Accumulator

**TABLE II**  
**HORSEPOWER REQUIREMENTS\***

GPM	Pressure — Pounds Per Square Inch			
	300	400	500	600
1.0	.5	.5	.5	.5
1.4	.5	.5	.5	.75
1.6	.5	.5	.75	.75
1.8	.5	.5	.75	.75
2.0	.5	.75	.75	1.0
2.1	.5	.75	.75	1.0
2.3	.5	.75	.75	1.0
2.5	.5	.75	1.0	1.0

\*Horsepower figures shown are for electric motor only. For gas engine requirements, follow engine manufacturer's recommendations. In general, use a gas engine with approximately double the electric motor horsepower.

## Servicing discharge valves and valve seats

Remove the discharge manifold as described and pictured on page 5. Remove the discharge valve seats and invert the manifold. The discharge valve springs and spring retainers will fall out.

Inspect the discharge valves for wear or ridges. If damaged, replace them. Check valve seats. If nicked or rough, lap on a fine oilstone until smooth. Check seal by placing the discharge valve tightly over face of the valve seat and blow through the valve. No air will pass through if properly seated.

Reassemble valves and valve seats in the manifold — spring retainer first, then the spring and then the valve. The flat side of the discharge valve faces out. The recessed side of the discharge valve fits over the spring. Insert the discharge valve seats.

Insert one end of cylinders into the discharge manifold, being careful not to damage cylinder O-rings. Position assembly back on the pump, again being careful not to damage cylinder o-rings when inserting cylinders into the inlet manifold. Replace lockwashers and nuts. torque to 125 inch-pounds.

**CAUTION:** Any cylinder motion will cause premature failure of the O-ring cylinder seals. As the pump is started, check carefully to see that there is no cylinder motion. If cylinders move, loosen both stud nuts and check the seating of cylinders. Retighten the nuts, being sure they are tightened evenly to a torque of 125 inch-pounds.