

HOFFMANN POWER PRODUCTS

PARTS LIST 2014

HOFFMANN R175A Diesel Engines

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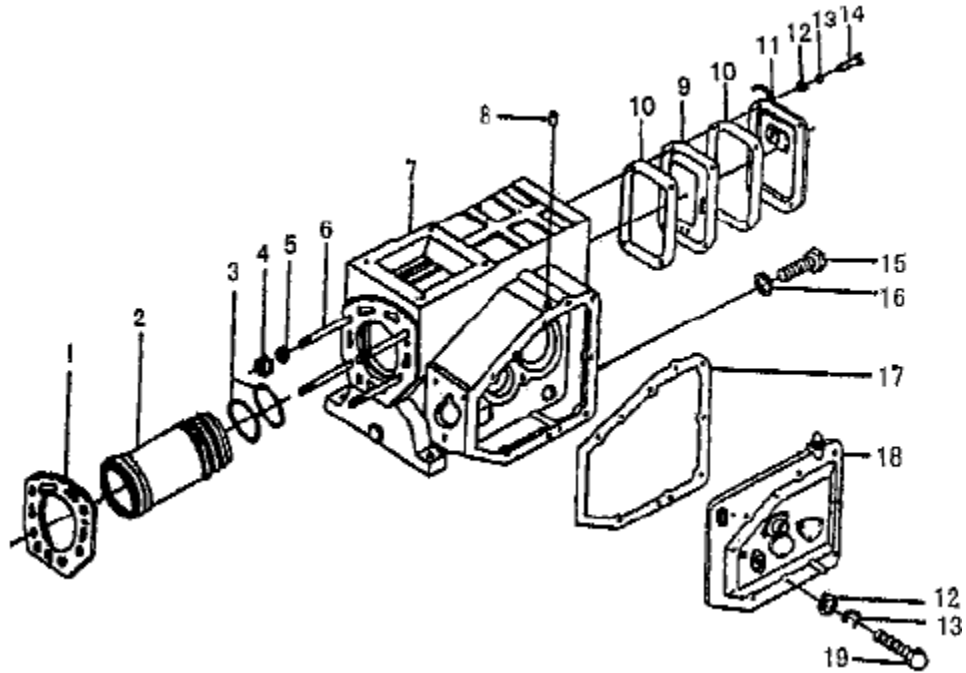
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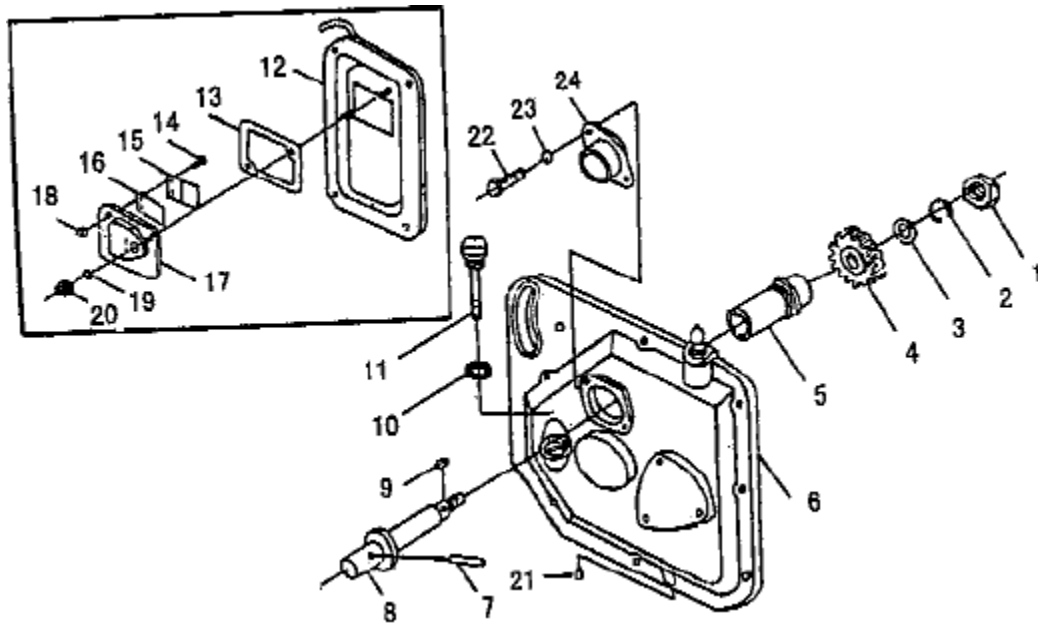
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Fig. 1. Cylinder Block Assembly



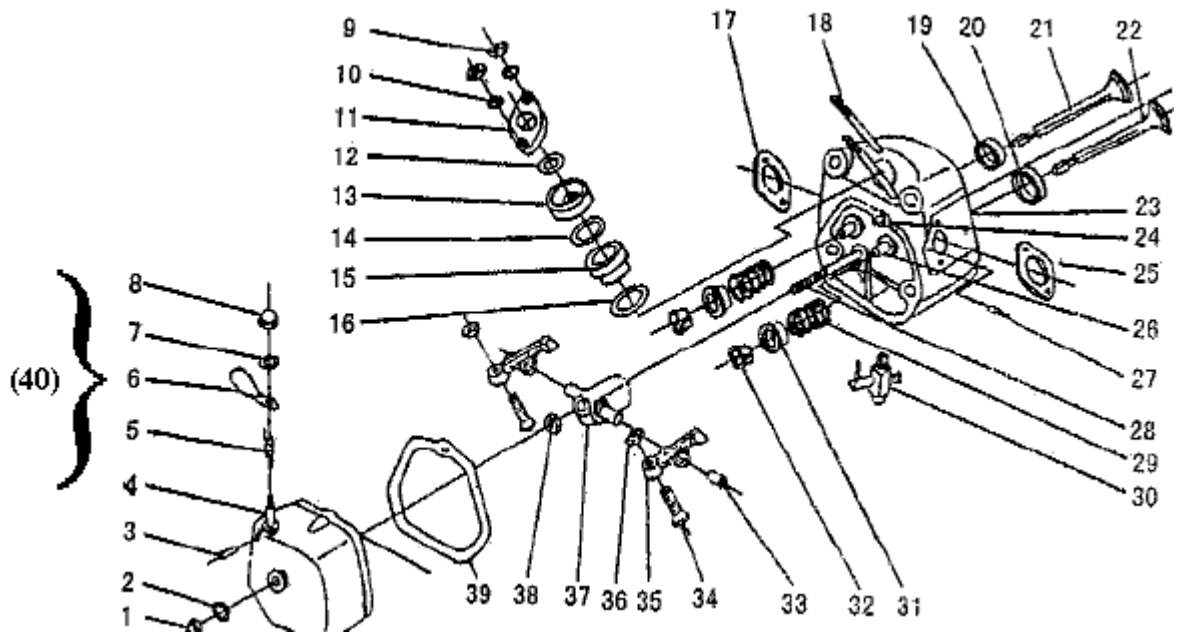
No	Description	QTY.	Part No.
1	Cylinder Head Gasket	1	HD175A-01003
2	Cylinder Liner	1	HD175A-01005
3	Cylinder "O" Ring	2	HD175A-01006
4	Cylinder Head nut	4	
5	Washer	4	
6	Cylinder Head Stud	4	HD175A-01002
7	Cylinder Block	1	HD175A-01004
8	Bushing for Governor Lever Shaft	1	
9	Breather Inner Plate	1	HD175A-01102
10	Packing for Rear Cover	2	HD175A-01110
11	Breather Cover Weldment	1	HD175A-011101
12	Washer	11	
13	Washer	4	
14	Bolt	4	
15	Oil-Drain Plug	5	HD175A-01015
16	Washer – Drain Plug	1	HD175A-01016
17	Gear Cover Gasket	1	HD175A-01017
18	Gear Cover	1	HD175A-01200
19	Bolt	7	

Fig 2. Breather Timing Gear Cover Assembly



No	Description	QTY.	Part No.
1	Nut	1	
2	Washer	1	
3	Washer	1	
4	Starting Gear	1	HD175A-01202A
5	(Sleeve-Bush) – Driving Shaft	1	HD175A-11204
6	Timing Gear Case Cover	1	
7	Pin	1	
8	Starting Shaft	1	HD175A-01205
9	{ 'O' Ring c/w Dip Stick	1	HD175A-01203
10			
11	Oil Filter Plug	1	
12	Breather Cover Weldment Assembly	1	
13	Breather Gasket	1	
14	Screw	2	
15	Breather Plate	1	
16	Breather Spring Plate	1	
17	Breather Inner Cover	1	
18	Nut	2	
19	Washer	2	
20	Nut	2	
21	Plug	2	
22	Bolt	2	
23	Washer	2	
24	Shelter of Starting Shaft	2	

Fig. 3. Cylinder Head Assembly

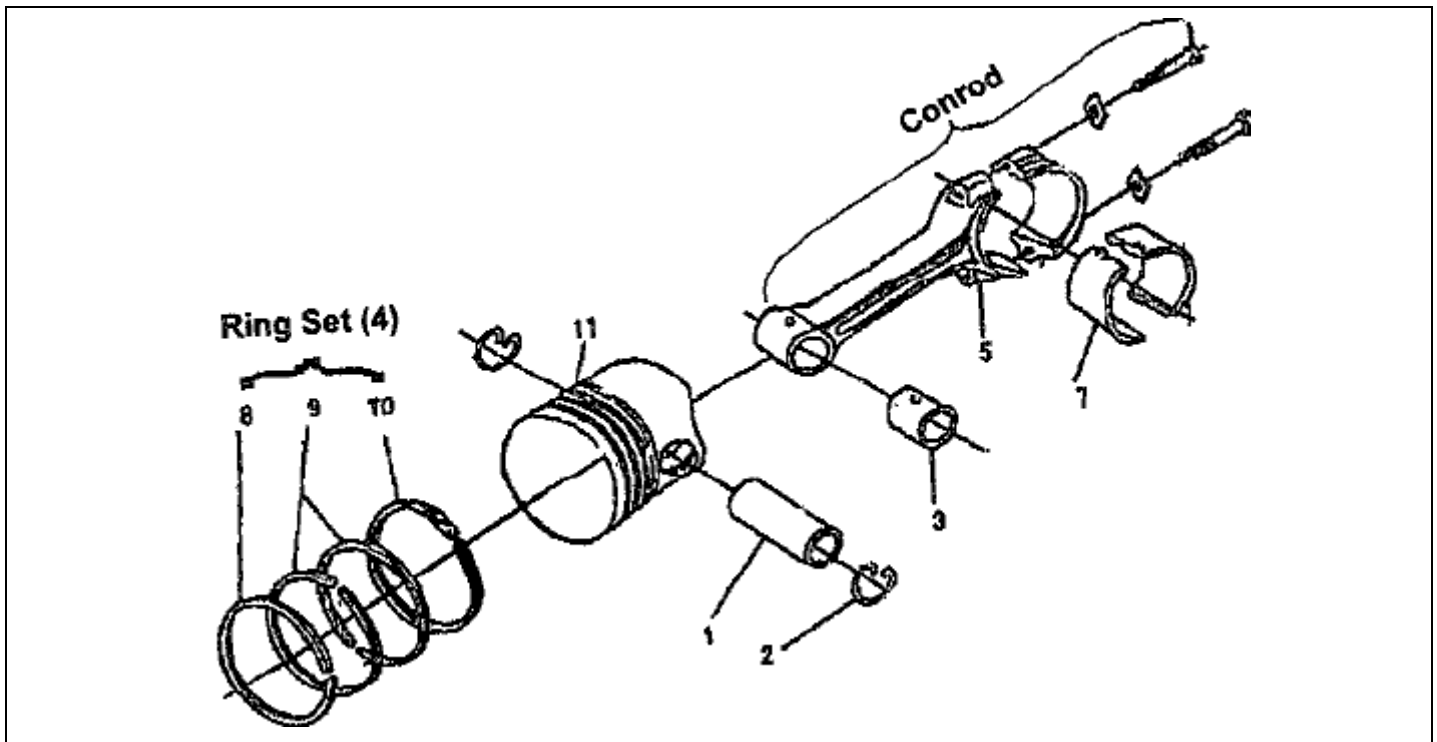


No	Description	QTY.	Part No.
1	Nut	1	
2	Washer	1	
3	Pin	1	
4	Decompression Shaft	1	
5	Decompression Shaft Spring	1	
6	Decompression Handle	1	
7	Washer	1	
8	Nut	1	
9	Nut	2	
10	Washer	2	
11	Injector Clamp Plate	1	
12	Washer	1	
13	Pre-Combustion Upper Charner	1	
14	Washer	1	
15	Pre-Combustion Lower Chamber	1	
16	Washer of Precombustion Chamber	1	
17	Packing for Exhaust Pipe	1	HD175A-03018
18	Stud	2	
19	Exhaust Valve Seat	1	HD175A-03303
20	Inlet Valve Seat	1	HD175A-03304
21	Exhaust Valve	1	HD175A-03003A
22	Inlet Valve	1	HD175A-03004A
23	Cylinder Head Bare	1	HD175A-03000

Fig. 3. Cylinder Head Assembly (Continued)

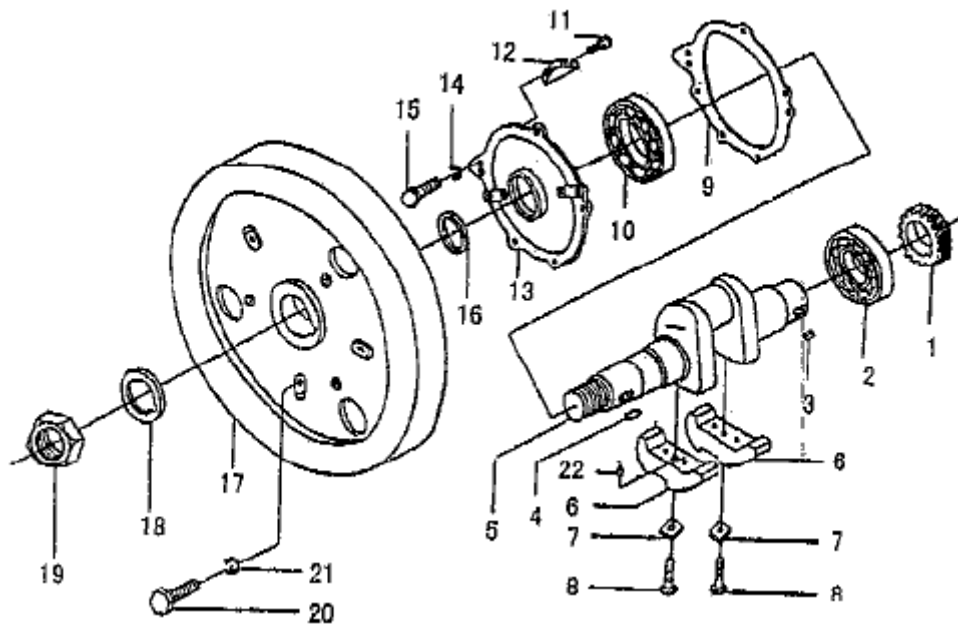
No	Description	QTY.	Part No.
24	Locating Pin	2	
25	Packing for Intake Pipe	1	
26	Valve Guide	2	HD175A-03301A
27	Oil Plug	1	
28	Stud for Rocker Arm	1	HD175A-03015
29	Valve Spring	2	HD175A-03005
30	Drain Cock	1	
31	Valve Spring Seat	2	HD175A-03002
32	Valve Collect	4	HD175A-03001
33	Rocket Arm Shaft Bushing	2	HD175A-03101
34	Adjusting Screw	2	HD175A-03006
35	Rocker Arm	2	HD175A-03102
36	Nut	2	
37	Rocket Arm Shaft Support	1	HD175A-03016
38	Nut	1	
39	Cylinder Head Cover Gasket	1	HD175A-03021
40	Cylinder Head Cover Assy	1	HD175A-03201AS
41	Cylinder Head Assembly	1	HD175A-030ASSY

Fig. 4. Piston and Connecting Rod Assembly



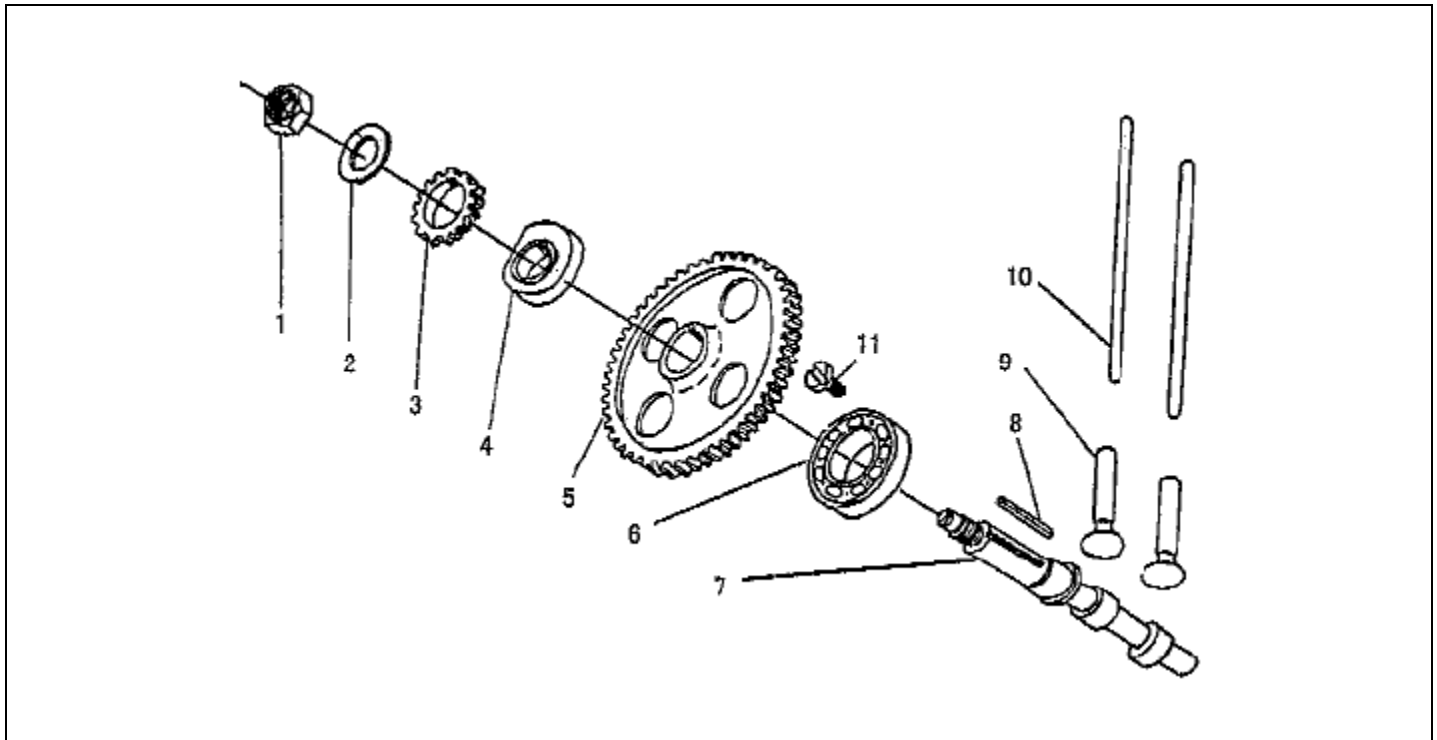
No	Description	QTY.	Part No.
1	Piston Pin	1	HD175A-04012
2	Piston Pin Circlip	2	HD175A-04004
3	Connecting Rod Bushing	1	HD175A-04013
5	Connecting Rod	1	HD175A-04005
7	Connecting Rod Bearing	2	HD175A-04009
8	Ring Set (4)	1	HD175A—04001/2
9		2	
10		1	
11	Piston 75mm		HD175A-04003

Fig. 5. Crankshaft and Flywheel Assembly



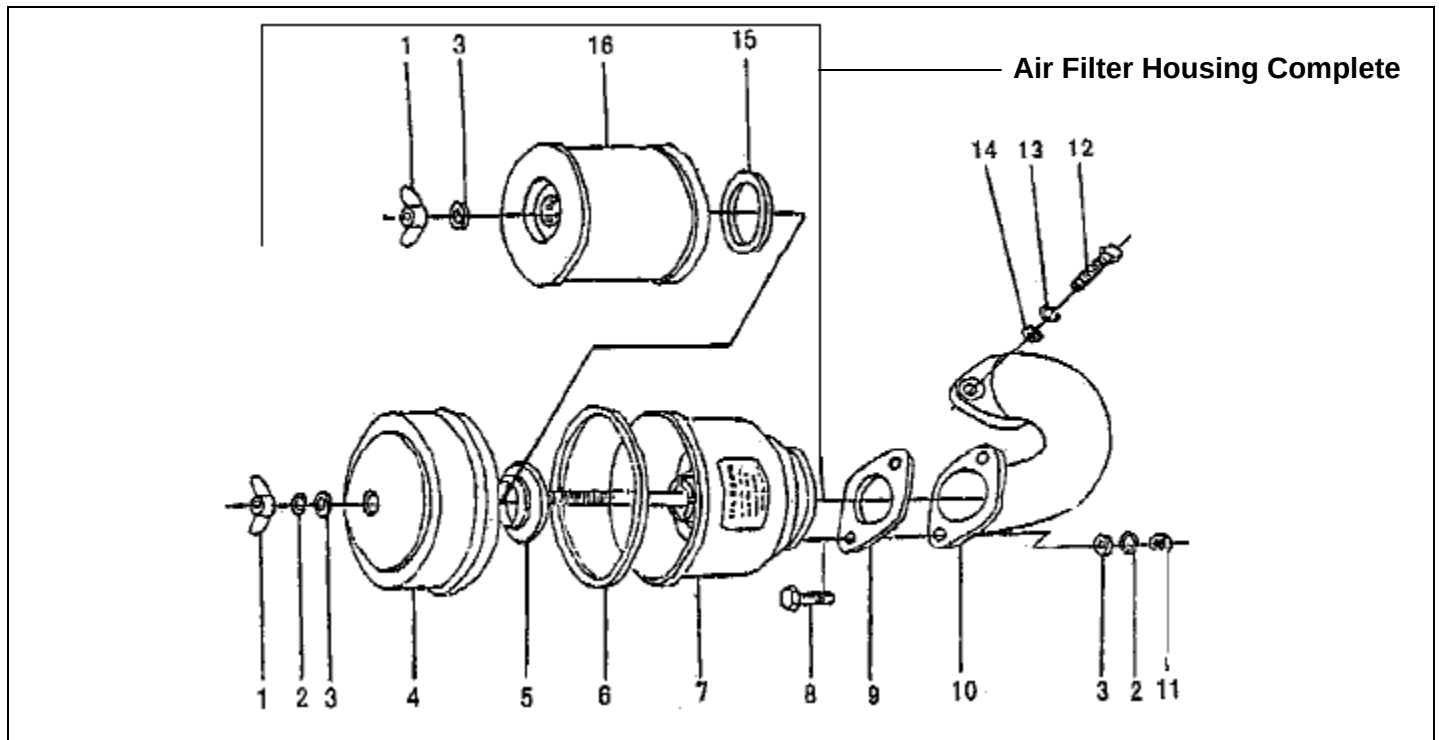
No	Description	QTY.	Part No.
1	Crankshaft Timing Gear	1	HD175A-05005
2	Bearing 209	1	
3	Key	1	
4	Flat Key of Flywheel	1	
5	Crankshaft	1	HD175A-05004
6	Balance Weight	2	HD175A-05006
7	Lock Washer	2	
8	Balance Weight Bolt	2	
9	Packing for Bearing Seat	1	HD175A-01029
10	Bearing 310	1	
11	Bolt	4	
12	Thrust Plate	2	HD175A—05009
13	Main Bearing Seat	1	HD175A-5012
14	Washer	6	
15	Bolt	6	
16	Oil Seal	1	
17	Flywheel	1	HD175A-05002
18	Flywheel Rock Plate	1	
19	Flywheel Nut	1	HD175A-05001
20	Bolt	3	
21	Washer	3	
22	Pin – Crank	4	GB119-86/8X28

Fig. 6. Camshaft



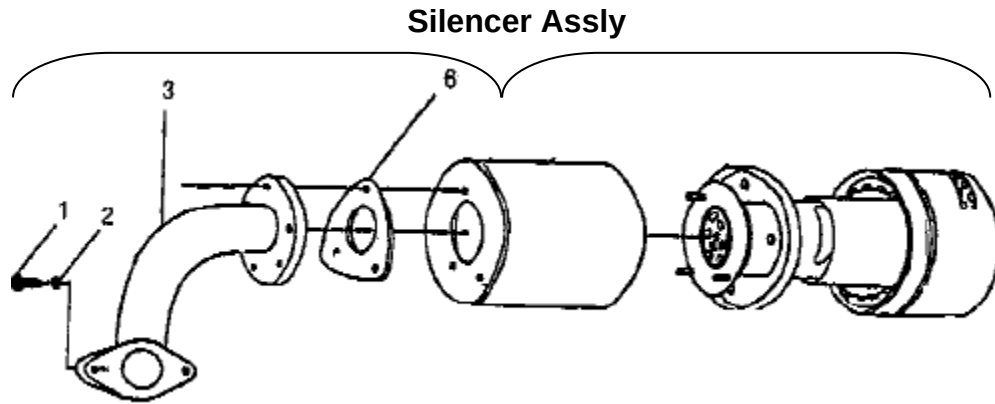
No	Description	QTY.	Part No.
1	Nut	1	
2	Camshaft Gasket	1	
3	Starting Driven Gear	1	HD175A-06004
4	Injection Pump Cam	1	HD175A-06006
5	Camshaft Timing Gear	1	HD175A-06007
6	Ball Bearing 205	1	
7	Camshaft	1	HD175A-06009
8	Key C5 x 46	1	
9	Tappet	1	HD175A-06002
10	Push Rod	2	HD175A-06001
11	Thrust screw	1	HD175A-06008

Fig. 7. Intake System



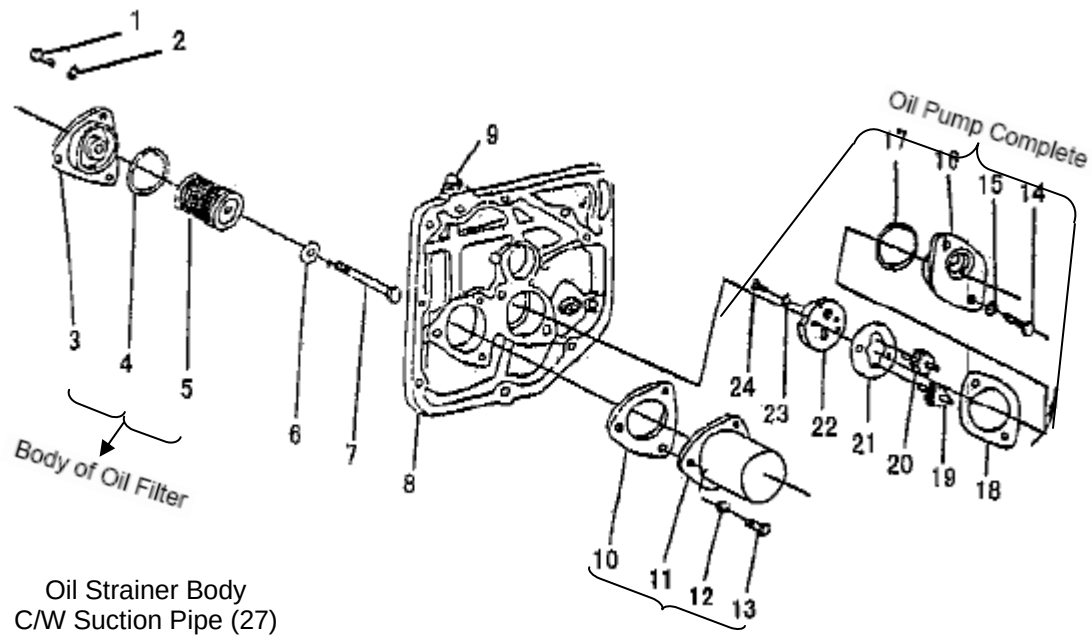
No	Description	QTY.	Part No.
1	Nut	2	
2	Washer	3	
3	Washer	4	
4	Air Filter Cover	1	HD175A-3000
5	Support Ring	1	
6	Cover Seal-Ring	1	
7	Air Filter Body	1	HD175A-20000
8	Bolt	2	
9	Packing for Air Filter	1	HD175A-07001
10	Intake Pipe	1	HD175A-0702
11	Nut	3	
12	Bolt	2	
13	Washer	2	
14	Washer	2	
15	Paper Element Seal Ring	1	
16	Air Filter Element	1	HD175A-07120
17	Air Filter Housing Complete	1	

Fig. 8. Exhaust System



No	Description	QTY.	Part No.
1	Bolt	2	
2	Washer	2	
3	Exhaust Pipe	1	HD175A-08105A
6	Muffler Gasket	6	HD175A-08002
9	Silencer Assly	1	HD175A-08104

Fig. 9. Lubricating System



No	Description	QTY.	Part No.
1	Bolt	3	
2	Washer	3	
3	Oil Filter Body	1	
4	O-Seal Ring 50 x 2.5	1	
5	Oil Filter Element	1	
6	Washer	1	HD175A-09310
7	Bolt	1	
8	Timing Gear Cover	1	HD175A-01200
9	Oil Pressure Indicator	1	HD175A-09200
10	Gasket Oil Strainer	1	HD175A-09302
11	Filter Cup	1	HD175A-09303
12	Washer	6	
13	Bolt	3	
14	Bolt	2	
15	Washer	2	
16	Oil Pump Body	1	
17	Big O-Seal Ring	1	
18	Oil Pump Gasket	1	HD175-09405
19	Driven Gear for Oil Pump	1	
20	Driving Gear for Oil Pump	1	
21	Oil Pump Cover Gasket	1	
22	Oil Pump Cover		
23	Washer	2	
24	Screw	2	
25	Oil Pump Complete		HD175A-09100
26	Body of Oil Filter		HD175A-09301
27			HD175A-093A55

No	Description	QTY.	Part No.
1	Knob	1	HD175A-11102
2	Washer GB97.1-858	1	
3	Governing Control Handle	1	HD175A-11100
4	Nut GB6172-86-M6	2	HD175A-11104
5	Adjusting Screw	1	HD175A-11101
6	Governor Spring	1	HD175A-11001
7	Nut GB6172-86-M6	1	
8	Washer GB93-87 6	1	
9	Pull Lever	1	HD175A-1203
10	Governor Lever Shaft	1	
11	Nut GB6173-86 – M12 x 1.25		
12	Adjusting Screw	1	HD175A-11204
13	Governor Fork Lever	1	HD175A-11201
14	Steel Ball	1	5/16" GB308-77
15	Governor Spindle	1	R175-11311
16	Bolt	1	GB29.1-88 M6 X 16
17	Washer	2	GB93-87 6
18	Flyweight sup-Port	1	R175-11302
19	Governor Spring	1	R175-11304
20	Governor Spring Seat	1	R175-31106
21	Nut GB170-86-M6	1	R175-11301
22	Governor Lever Assly	1	HD175A-11000

Fig. 12. Water Hopper Assembly

No	Description	QTY.	Part No.
1	Gasket for Water Hopper	1	R175-02002
2	Water Hopper	1	R175-02002
3	Water GB97.1-85 8	4	
4	Washer GB93-87 8	4	
5	Bolt GB5783-86-M8x25	4	
6	Screw GB825-88-M10	1	
7	Screw GB5783-86-M6x16	4	
8	Washer GB97.1-85 6	4	
9	Float Indicator Nut	1	R175-02006
10	Funnel	1	R175-02005
11	Gasket for Funnel	1	R175-02004
12	Float Stem	1	R175-02007-02008

Fig. 13. Fuel Injection Pump Assembly

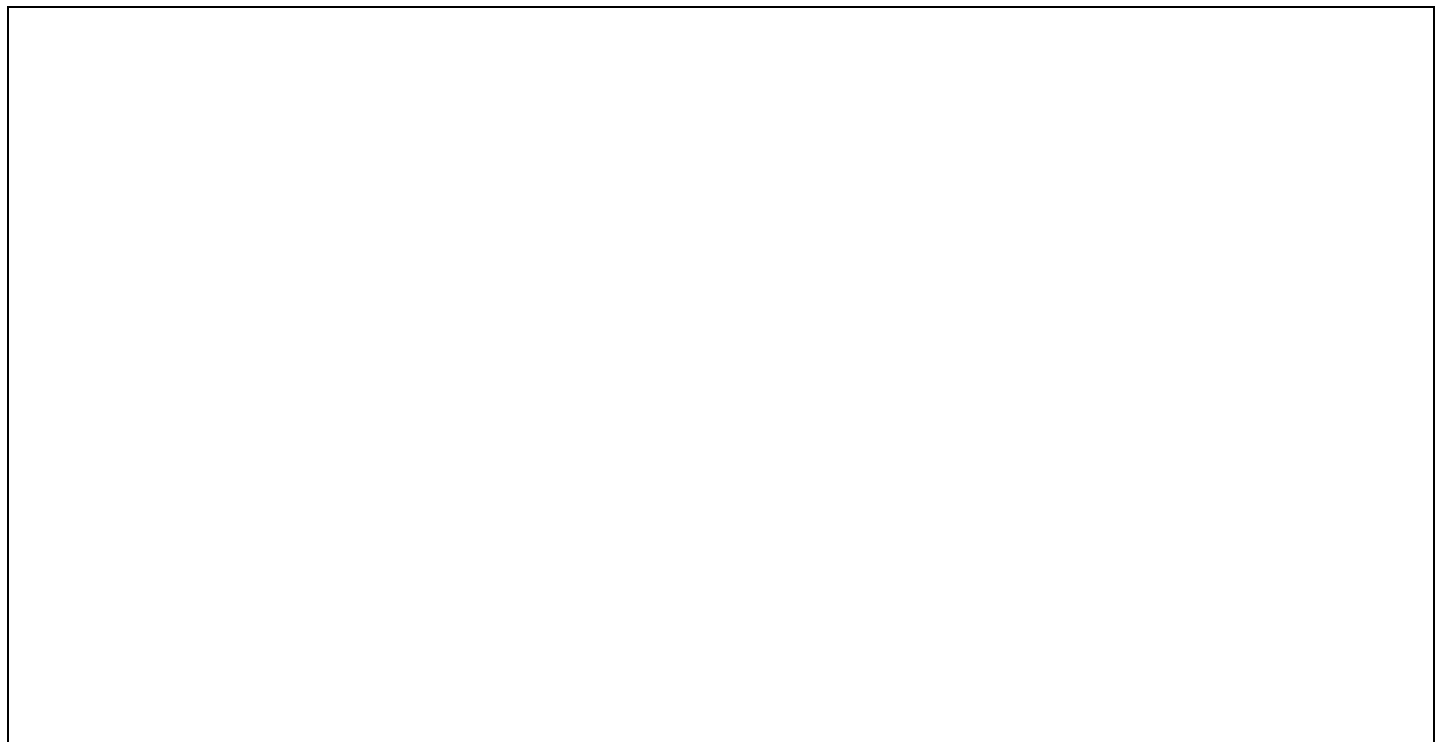
No	Description	QTY.	Part No.
1	Dust-proof	1	 Injector Pump Assly HD175A-BA11-00
2	Delivery Valve Holder	1	
3	Delivery Valve Spring	1	
4	Delivery Valve Holder	1	
5	Delivery Valve with Seat HD175A-F-0001	1	
6	Washer	2	
7	Positioning Screw	1	
8	Vent Screw	1	
9	Fuel Intake Hollow Bolt	1	
10	Washer	1	
11	Dust-Proof Washer	1	
12	Pump Body	1	
13	Rack	1	
14	Plunger and Barrel	1	HD175A-SA -----
15	Adjusting Gear Ring	1	
16	Upper Spring Seat	1	
17	Plunger Spring	1	
18	Lower Spring Seat	1	
19	Tappet	1	
20	Roller Pin	1	
21	Roller Bushing	1	
22	Roller	1	
23	Circlip	1	
24	Position Pin	1	

Fig. 15. Condenser Assembly

No	Description	QTY.	Part No.
1	Packing	1	
2	Base Plate	1	
3	Radiator Packing	1	HD175A-01007
4	Washer	4	
5	Washer	14	
6	Bolt	12	
7	Radiator	1	HD175A-02003
8	Washer	12	
9	Washer	10	
10	Bolt	3	
11	Connecting Bolt	1	
12	Washer	1	
13	Washer	2	
14	Screw	1	
15	Support	1	
16	Bolt	9	
17	Stator	1	
18	Screw	2	
19	Seal	1	
20	Fan Assembly	1	HD175A-02FAN
21	Fan Belt	1	HD175A-02BELT
22	V-Pulley	1	HD175A-03PULL
23	Tension Pulley Assembly	1	HD175A-02PULL
24	Radiator Cap	1	HD175A-02003C(1)

Fig. 16. Condenser Assembly LIST 2

No	Description	QTY.	Part No.
1	Fuel Tank	1	
2	Bolt	2	
3	Washer	11	
4	Nut	2	
5	Washer	7	
6	Bolt	4	
7	Screw	4	
8	Washer	15	
9	Washer	15	
10	Bolt	3	
11	Fan Shelter	1	
12	Cover Support	1	
13	Decorate Plate	1	
14	Bolt	4	
15	Bolt	4	
16	Bolt	3	
17	Washer	3	
18	Bush	3	
19	Cover	1	
20	Lighting Lamp	1	
21	Radiator Shelter	1	
22	Radiator Cover	1	HD175A-02400

Fig. 17. Tools Supplied with Engine

No	Description	QTY.	Part No.
1	V-Belt Pulley	1	
2	Wrench for Flywheel Nut	1	
3	Box Wrench	1	
4	Wrench for Cylinder Head Nut Connecting Rod Nut	1	
5	Wrench Lever	1	
6	Starting Crank Handle	1	HD175A-S/Hndle
7	Feeler Gauge	1	