

REMOVAL AND INSTALLATION (Continued)

Item	Part Number	Description
110	6159	Piston Oil Control Ring (Top Rail) (12)
111	6161	Piston Oil Control Expander (6)
112	6110	Piston (6)
113	6135	Piston Pin (6)
114	6214	Bolt Connecting Rod (12)
115	6205	Connecting Rod (6)
116	6211	Bearing, Connecting Rod (Upper/Lower)(12)
117	6210	Cap, Connecting Rod (6)
118	N800113-S	Nut, Connecting Rod (12)
119	6200	Assy, Connecting Rod
120	6100	Assy, Piston
121	6507	Valve, Intake (6)
122	6505	Valve, Exhaust (6)
123	12405	Spark Plug (6)
124	6049	Head, Cylinder
125	N802516-S	Bolt, Cylinder Head Attaching (Short) (4 Per Side)
126	6A536	Seat, Valve Spring
127	6A517	Oil Seal Valve (6)
128	6514	Retainer, Valve Spring (12)
129	6518	Keys, Valve Spring Retainer (24)
130	N802515-S	Bolt Cylinder Head Attaching (Long) (4 Per Side)
131	6564	Rocker Arm (12)
132	N801365-S100	Bolt, Rocker Arm Retaining (12)
133	6A528	Fulcrum, Rocker Arm (12)
134	6565	Pushrod (12)
135	6A008	Dowel (Split) (4)
136	6500	Roller Tappet (12)
137	6K512	Tappet Guide Plate (6)
138	376958-S102	Cup Plug (2)
139	6A335	Cup Plug
140	6K564	Tappet Guide Plate Retainer (2)
141	6A333	Bearing-Balance Shaft (2)
142	6A306	Balance Shaft
143	73217-S	Key-Balance Shaft
144	6C341	Balance Shaft Thrust Plate

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Item	Part Number	Description
145	N804621-S2	Screw—Flat Head (2)
146	6A304	Balance Shaft Driven Gear
147	6267	Bearing—Camshaft Intermediate (2)
148	N804621-S2	Screw—Flat Head (2)
149	6K254	Tensioner and Snubber Assy
150	6256	Camshaft Sprocket
151	6255	Drive Gear
152	N806049-S2	Bolt and Washer Assy
153	6306	Crankshaft Sprocket
154	6268	Timing Chain
155	N605890-S2	Bolt (3)
156	6A303	Balance Shaft Drive Gear
157	6269	Camshaft Thrust Plate
158	6265	Spacer
159	N805256-S	Key, Camshaft
160	6250	Camshaft
161	6261	Bearing—Camshaft Front
162	6263	Bearing—Camshaft Rear
163	N621942-S2	Nut
164	N801689-S	Bolt (2)
165	6625	Gasket
166	6622	Oil Pump Screen and Cover
167	6333	No. 1 Upper Main Bearing
168	6333	No. 2 Upper Main Bearing
169	6337	No. 3 Upper Main Thrust Bearing
170	6333	No. 4 Upper Main Bearing
171	6701	Rear Oil Seal
172	N805416-S	Bolt (7)
173	6325	Rear Main Cap
174	6237	Rear Intermediate Main Cap
175	6334	Front Intermediate Main Cap
176	6329	Front Main Cap
177	N805417-S	Stud
178	6A338	No. 4 Lower Main Bearing
179	6A339	No. 3 Lower Main Bearing
180	6A338	No. 2 Lower Main Bearing
181	6A338	No. 1 Lower Main Bearing
182	388907-S	Key, Crankshaft
183	6303	Crankshaft
184	6513	Valve Spring

TA14885C

DISASSEMBLY AND ASSEMBLY

Engine

Disassembly

Tools Required:

- Crankshaft Damper Remover T58P-6316-D
- Front Cover Seal Installer T70P-6B070-A
- Spark Plug Wire Remover T74P-6666-A
- Damper / Front Cover Seal Installer T82L-6316-A

- Vibration Damper Remover Adapter T82L-6316-B
- Rotunda Piston Ring Compressor 014-00290
- Rotunda Cylinder Ridge Reamer 014-00292

Before starting disassembly, remove accessories and any emission control equipment which is not directly attached to engine.

1. Remove flywheel and rear cover plate.