



522400

Illustrated Parts List

Model Series

**522400
850CC
DIESEL**

TYPE NUMBERS

0105, 0106, 0107,
0108, 0109, 0111,
0112, 0314, 0376.

TO FIND

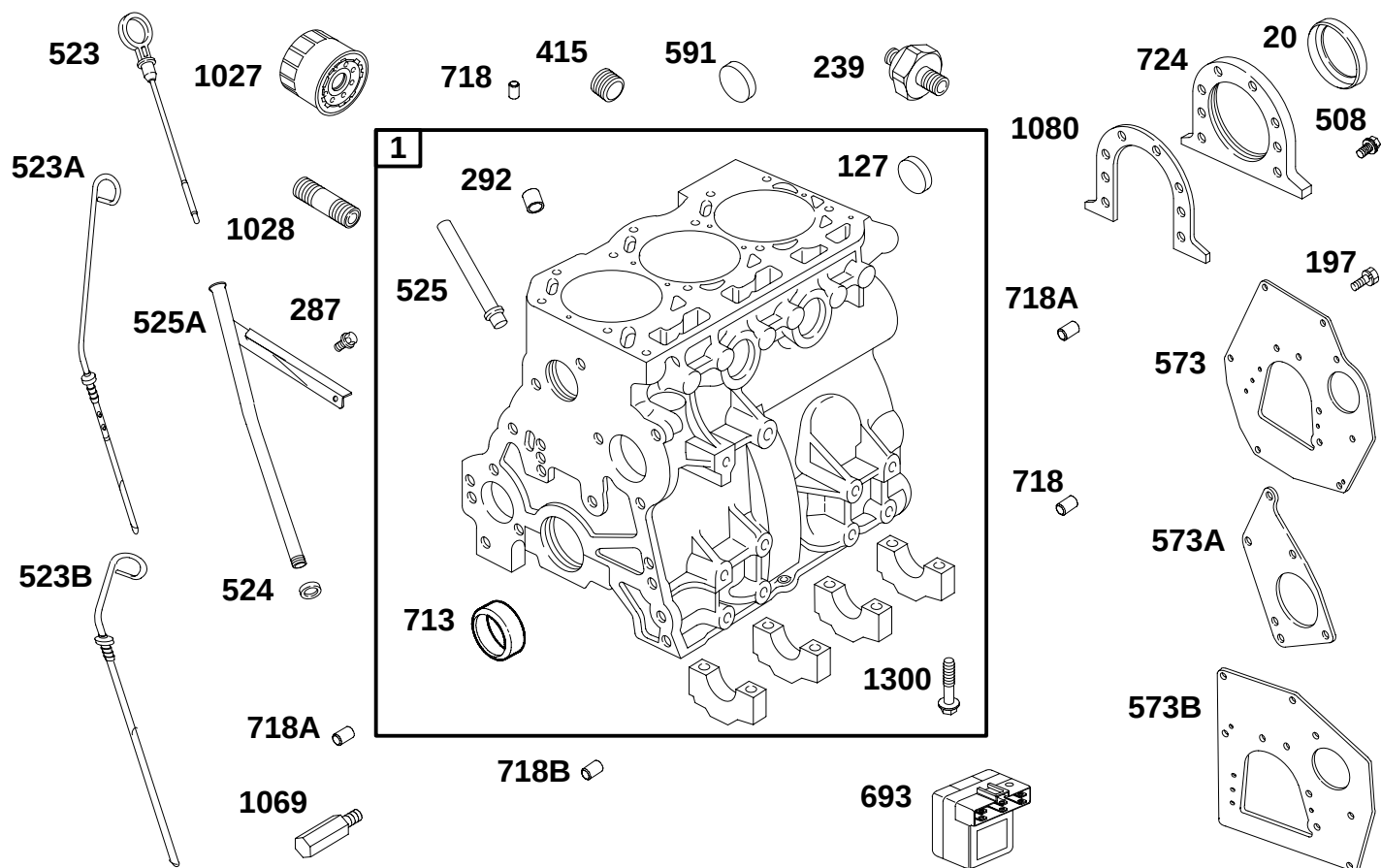
THE CORRECT NUMBER OF THE PART YOU NEED: FOLLOW THE INSTRUCTIONS BELOW

- A. Refer to Model, Type and Code Number that is located on the engine. Engine type numbers such as 0123 01 are listed only as 0123 in most instances. The two digits (01 or 02, etc.) to the right of the space may be required for more accurate parts identification in some instances. Select the Illustrated Parts List covering the correct Model Series and Type Number.
- B. Refer to the Illustrations and compare the original part with Illustration. The number next to the illustration is the Reference Number. Assemblies include all parts shown in frames. All parts shown in assembly frames having individual reference numbers can be purchased separately.
- C. After the Reference Number has been identified, refer to the Numerical text, where Reference and Primary Part Number are listed. **THE PRIMARY PART IS USED ON ALL TYPE NUMBERS EXCEPT THOSE TYPE NUMBERS UNDER NOTE.**
- D. If a *Note* appears below the Primary Part Number, it means that this part differs from the Primary Part for certain types. If your Type number is listed under *Note*, order the part referred to at the *Note*.
- E. If your Engine Type Number does not appear after any part number listed under *Note*, use the Primary Part Number.
- F. For Engine Type Numbers not covered by this book, check other Parts Lists having the same engine model or contact your source of supply.

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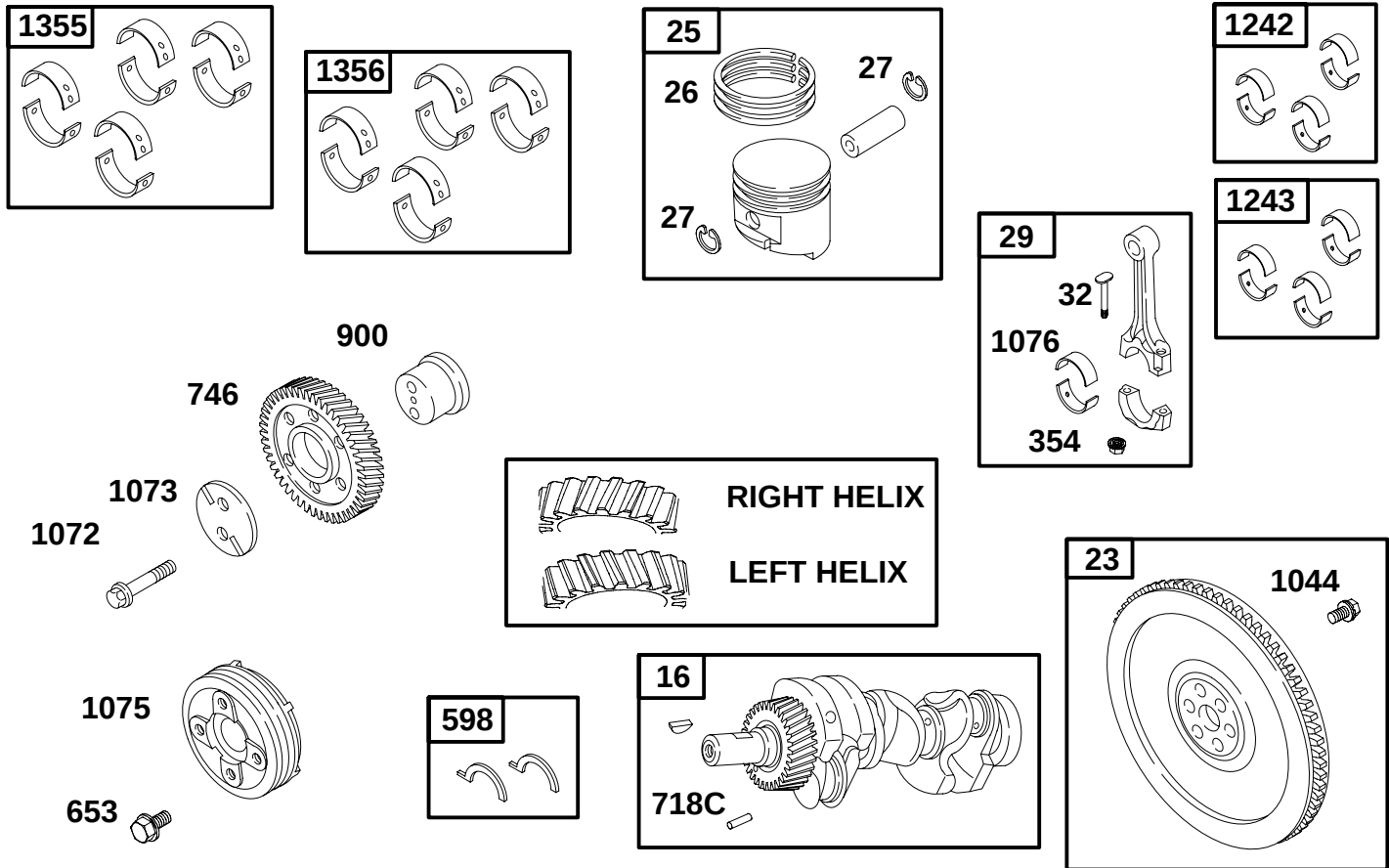
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522400

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1	825593	Cylinder Assembly (Used After Code Date 02053100). ----- Note ----- 825356 Cylinder Assembly (Used Before Code Date 02060100).	415	820375	Plug (Cylinder)	718	820063	Pin-Locating
20	★821073	Seal-Oil (PTO Side)	508	820031	Screw (Seal Retainer)	718A	820062	Pin-Locating
127	820004	Plug-Welch	523	821158	Dipstick	718B	820061	Pin-Locating
197	820176	Screw (Back Plate)	523A	820572	Dipstick	724	820146	Retainer-Seal
239	821135	Switch-Oil Pressure	523B	820643	Dipstick	1027	820314	Filter-Oil
287	820273	Screw (Dipstick Tube)	524	820654	Seal-Dipstick Seal	1028	820851	Adapter-Oil Filter
292	820662	Collar-Dipstick Tube	525	820144	Tube-Dipstick	1069	820102	Nozzle-Oil
			525A	820666	Tube-Dipstick	1080	★820145	Gasket-Seal Retainer
			573	820170	Plate-Back	1300	820042	Screw (Crankshaft Bearing Cap)
			573A	820147	Plate-Back			
			573B	820283	Plate-Back			
			591	821069	Plug-Camshaft			
			693	820373	Module-Pre Heat			
			713	820129	Bushing-Camshaft			

★ Engine Gasket Set-Reference 358

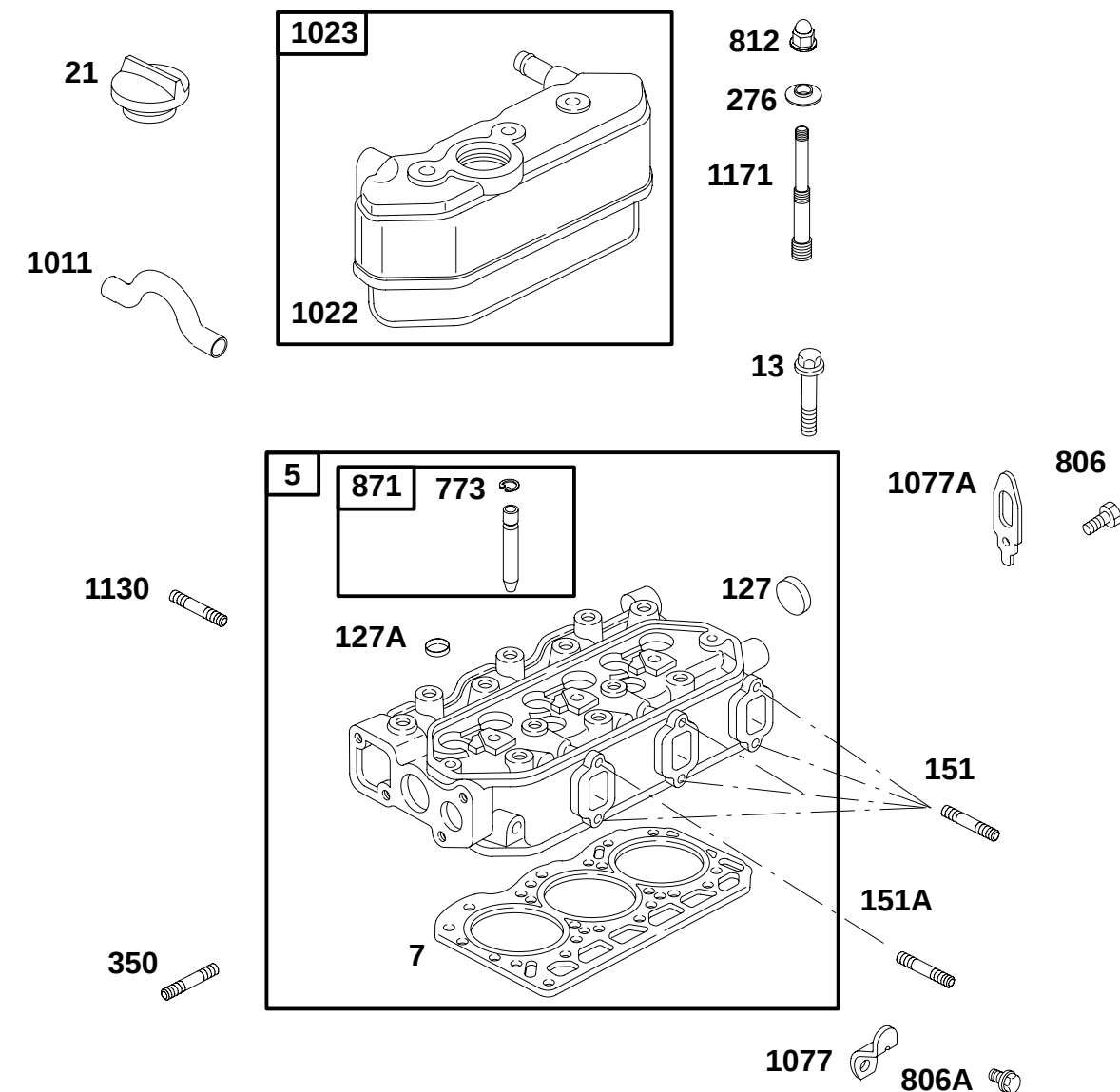
△ Valve Gasket Set-Reference 1095

522400 to 522499

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
16	825552	Crankshaft	27	820402	Lock-Piston Pin	746	820611	Gear-Idler (Left Helix)
23	825303	Flywheel	29	825171	Rod-Connecting			(Used After Code Date 98123100).
		----- Note -----	32	820128	Screw (Connecting Rod)			----- Note -----
		825302 Flywheel	354	820073	Nut (Connecting Rod)			825013 Gear-Idler (Right Helix)
		Used on Type No(s). 0106, 0109.	598	820140	Shim-Endplay (Crankshaft) (Standard)			(Used Before Code Date 99010100).
25	825311	Piston Assembly (Standard)			----- Note -----	900	820116	Shaft-Gear
		----- Note -----			820139 Shim-Endplay (Crankshaft) (.005" Oversize)	1044	820080	Screw (Flywheel)
		825312 Piston Assembly (.010" Oversize)				1072	820081	Screw (Idle Gear Plate)
26	825164	Ring Set (Standard)	653	820079	Screw (Crankshaft Pulley)	1073	820117	Plate-Idle Gear
		----- Note -----	718C	820059	Pin-Locating (Crankshaft)	1075	820236	Pulley-Crankshaft
		825165 Ring Set (.010" Oversize)				1076	820142	Bearing/STD-Rod
						1242	825504	Bearing Set/STD-Rod
						1243	825506	Bearing Set/010-Rod
						1355	825040	Bearing Set/STD-Main
						1356	825039	Bearing Set/010-Main

★ Engine Gasket Set-Reference 358

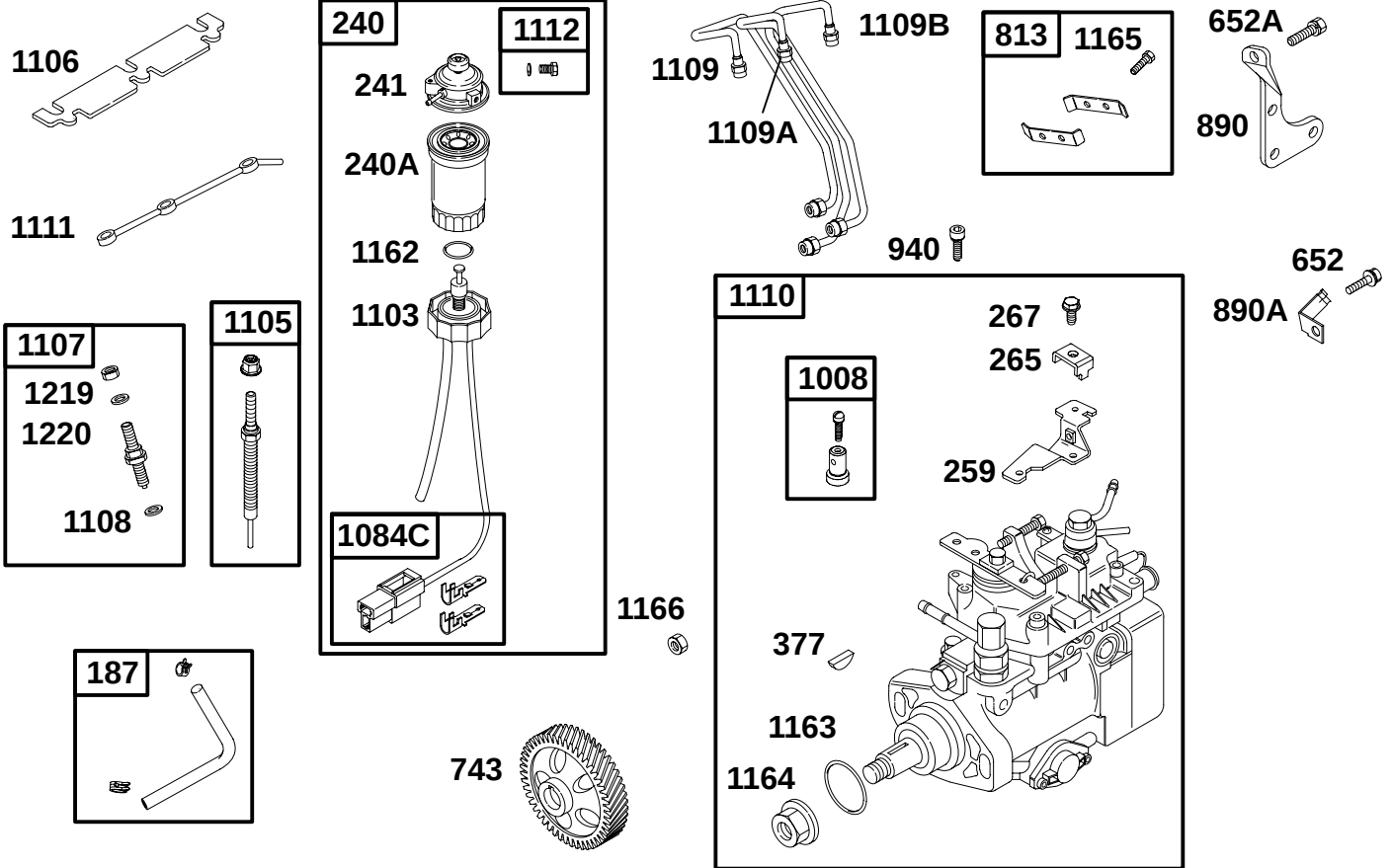
△ Valve Gasket Set-Reference 1095

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REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
5	825692	Head-Cylinder (Used After Code Date 04083100). ----- Note ----- 825307 Head-Cylinder (Used Before Code Date 04090100).	151	820014	Stud (Exhaust Manifold)	871	825030	Bushing-Valve Guide
7	★Δ820621	Gasket-Cylinder Head	151A	820466	Stud (Exhaust Manifold)	1011	821033	Tube-Vent
13	820623	Screw (Cylinder Head)	276	★Δ820064	Washer-Sealing (Rocker Cover)	1022	★Δ820150	Gasket-Rocker Cover
21	825024	Cap-Oil Fill	350	820078	Stud (Water Pump)	1023	825672	Cover-Rocker (Order Reference 1019, Label Kit and Reference 1036, Emissions Label for your Model, Type, Trim)
127	820004	Plug-Welch	773	820130	Retainer (Valve Guide Bushing)	1077	820260	Bracket-Lifting
127A	820005	Plug-Welch	806	820212	Screw (Lifting Bracket)	1077A	820254	Bracket-Lifting
			806A	820024	Screw (Lifting Bracket)	1130	820015	Stud (Intake Manifold)
			812	820071	Nut (Rocker Cover)	1171	820076	Stud (Rocker Cover)

★ Engine Gasket Set-Reference 358

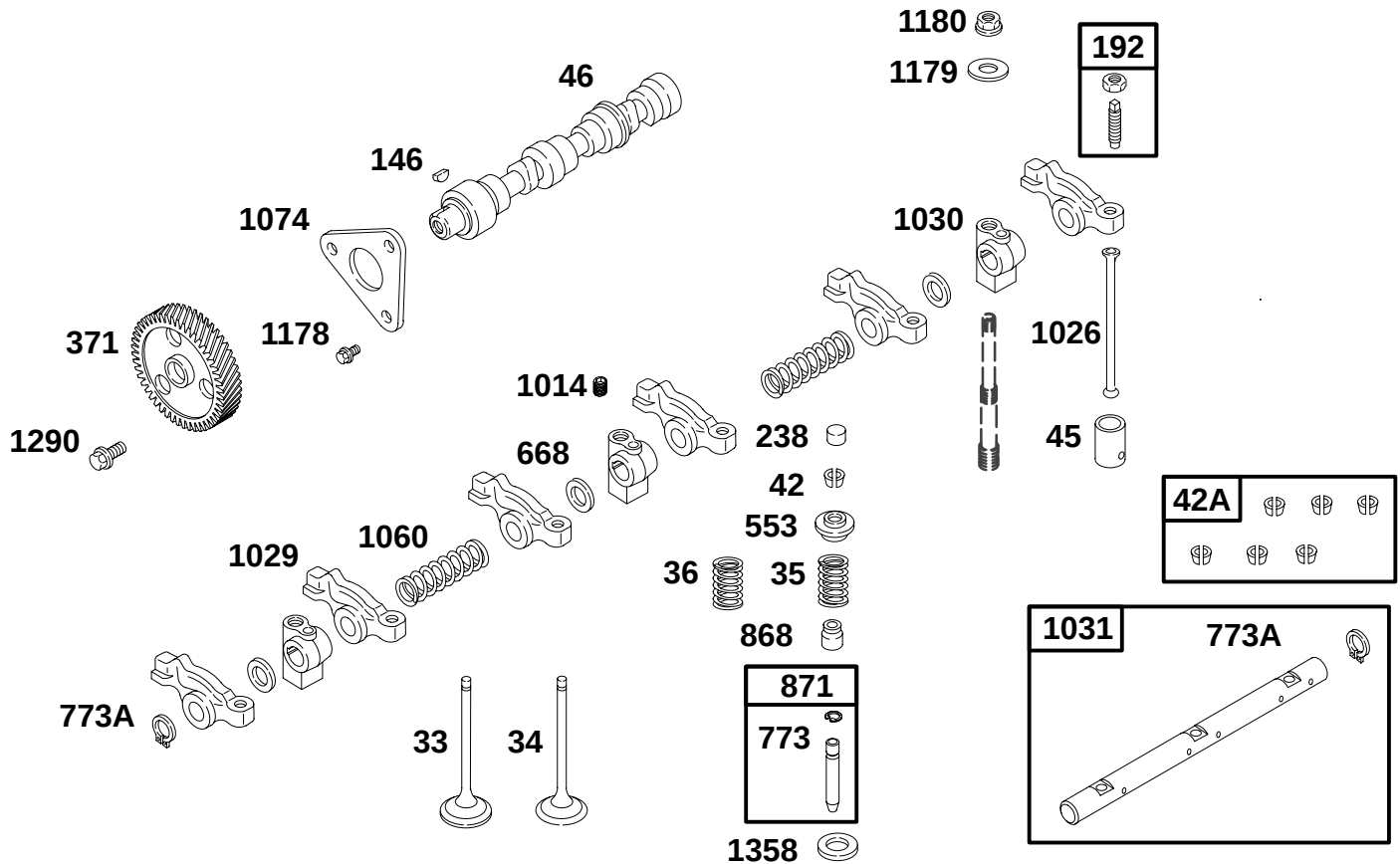
Δ Valve Gasket Set-Reference 1095

522400 to 522499

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
187	825179	Line-Fuel	1084C	825156	Connector-Terminal			Used on Type No(s).
240	825219	Filter-Fuel	1103	820347	Sensor-Fuel Filter			0107.
240A	820311	Filter-Fuel	1105	825176	Plug-Glow			(Used After Code Date
		(Includes	1106	820409	Strap-Glow Plug			99073100).
		Reference 1162)	1107	825178	Nozzle-Injector			825326 Pump-Injection
241	820344	Cover-Fuel Filter			----- Note -----			Injection
		(Includes			825589 Nozzle-Injector			Used on Type No(s).
		Reference 1112)			Used on Type No(s).			0107.
259	820634	Bracket-Casing Clamp			0107.			(Used Before Code
265	691024	Clamp-Casing						Date 99080100).
267	820229	Screw						
		(Casing Clamp)	1108	820411	Seat-Injector	1111	820412	Pipe-Fuel Return
377	821064	Key-Woodruff	1109	825194	Pipe-Injector # 1	1112	825198	Plug-Vent
		(Injector Pump)	1109A	825195	Pipe-Injector # 2	1162	820348	Seal-O Ring
652	820593	Screw	1109B	825196	Pipe-Injector # 3			(Fuel Filter Sensor)
		(Support Bracket)	1110	825324	Pump-Injection	1163	820414	Seal-O Ring
652A	820180	Screw			Used on Type No(s).			(Injection Pump Shaft)
		(Support Bracket)			0105, 0108, 0111,	1164	820419	Nut
					0376.			(Injection Pump Shaft)
743	820619	Gear-Drive			----- Note -----	1165	820031	Screw
813	825197	Clamp			825317 Pump-Injection			(Clamp)
890	820415	Bracket-Support			Used on Type No(s).	1166	820417	Nut
890A	820479	Bracket-Support			0106, 0109, 0314.			(Injection Pump)
940	820640	Screw			825434 Pump-Injection	1219	820829	Nut
		(Casing Clamp			Injection			(Injector Nozzle)
		Bracket)				1220	820831	Washer
1008	820467	Clamp-Swivel						(Injector Nozzle)

★ Engine Gasket Set-Reference 358

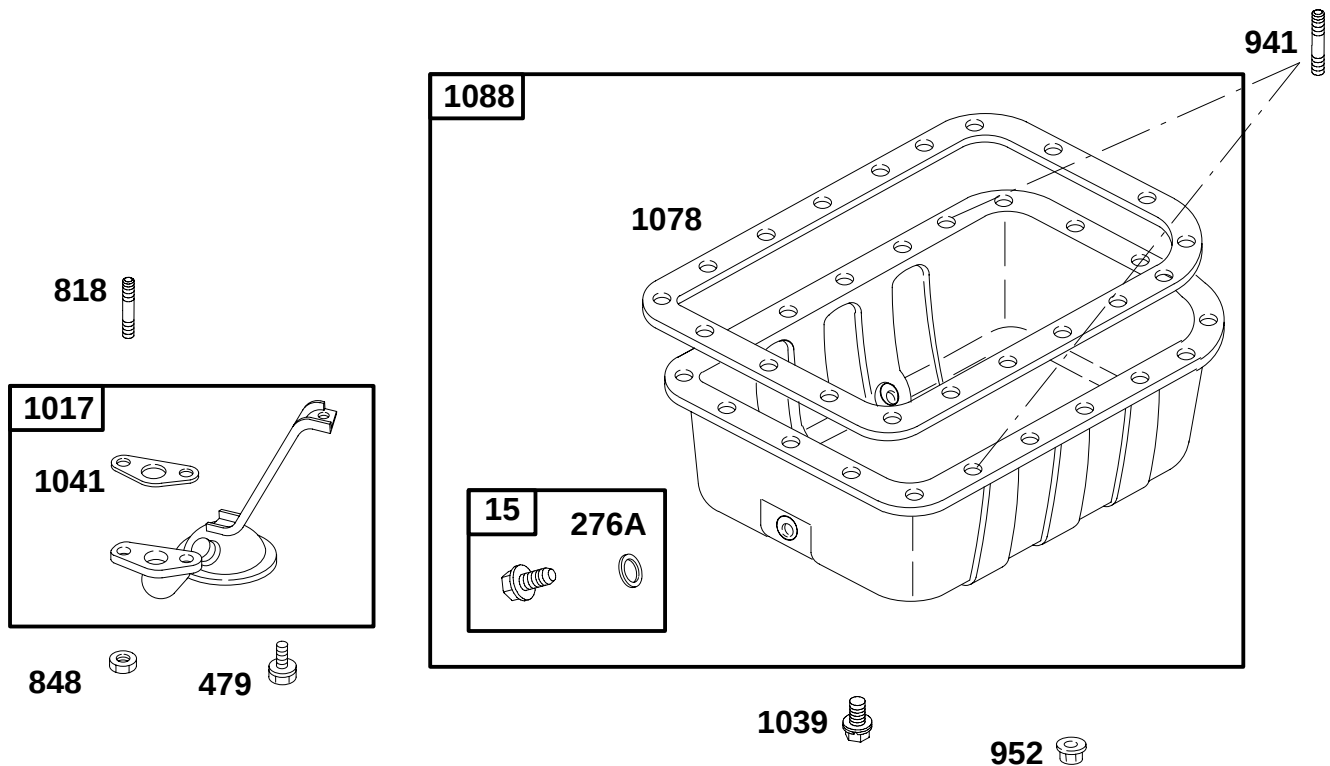
△ Valve Gasket Set-Reference 1095

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REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
33	820404	Valve-Exhaust	238	821214	Cap-Valve (Used After Code Date 04083100).	1026	821218	Rod-Push (Used After Code Date 04083100).
34	820403	Valve-Intake			----- Note -----			----- Note -----
35	820406	Spring-Valve (Intake)			820113 Cap-Valve (Used Before Code Date 04090100).			820422 Rod-Push (Used Before Code Date 04090100).
36	820406	Spring-Valve (Exhaust)	371	820613	Gear-Cam	1029	820387	Arm-Rocker
42	825042	Keeper-Valve	553	820111	Retainer-Valve Spring	1030	820106	Support-Rocker Arm
42A	825082	Keeper-Valve	668	820065	Spacer (Rocker Arm Shaft)	1031	825093	Shaft-Rocker Arm
45	820110	Tappet-Valve	773	820130	Retainer (Valve Guide Bushing)	1060	820044	Spring-Rocker Shaft
46	820388	Camshaft	773A	820003	Retainer (Rocker Arm Shaft)	1074	820118	Retainer-Camshaft
146	691639	Key-Timing	868	820405	Seal-Valve	1178	820032	Screw (Camshaft Retainer)
192	825688	Adjuster-Rocker Arm (Used After Code Date 04083100).	871	825030	Bushing-Valve Guide	1179	820177	Washer (Rocker Arm Support)
	----- Note -----		1014	820105	Screw (Rocker Arm Support)	1180	820070	Nut (Rocker Arm Support)
	825041 Adjuster-Rocker Arm (Used Before Code Date 04090100).					1290	820075	Screw (Cam Gear)
						1358	820112	Seat-Valve Spring

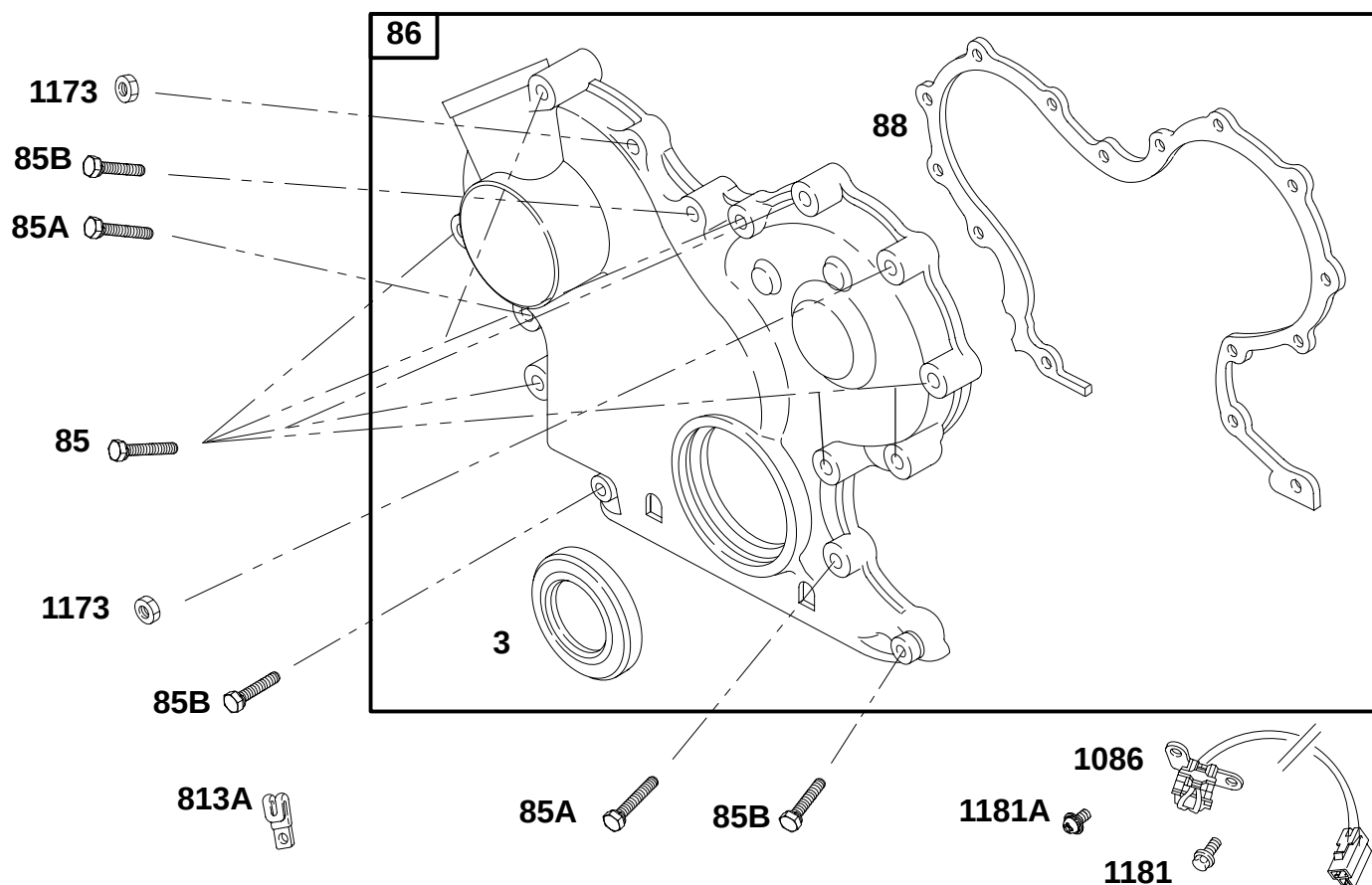
★ Engine Gasket Set-Reference 358

△ Valve Gasket Set-Reference 1095

522400 to 522499

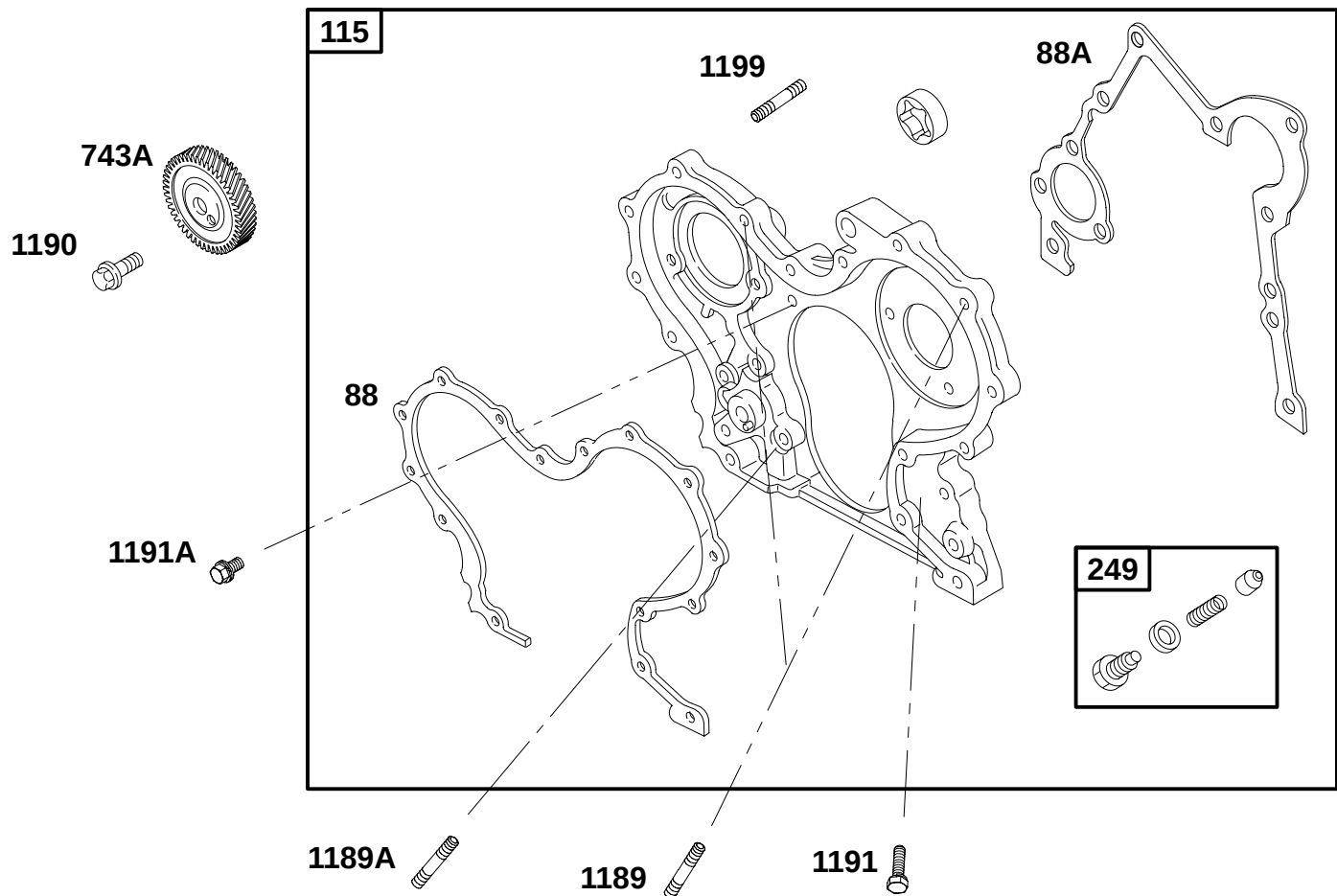
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
15	825278	Plug—Oil Drain	848	820069	Nut (Oil Pump Screen)	1017	825089	Screen—Oil Pump
276A	★820582	Washer—Sealing (Oil Drain Plug)	941	820017	Stud (Oil Pan)	1039	820034	Screw (Oil Pan)
479	820034	Screw (Oil Pump Screen)	952	820068	Nut (Oil Pan)	1041	★820104	Gasket—Oil Pump Screen
818	820017	Stud (Oil Pump Screen)				1078	★820137	Gasket—Oil Pan
						1088	825285	Pan—Oil (Dual Drain)

★ Engine Gasket Set—Reference 358
 Δ Valve Gasket Set—Reference 1095

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REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
3	★821071	Seal-Oil (Magneto Side)	86	825185	Cover-Gear	1181	820029	Screw (Ignition Trigger) Used on Type No(s). 0111.
85	820425	Screw (Gear Cover to Gear Reduction Case)	88	★820377	Gasket-Gear Reduction Cover	1181A	820013	Screw (Ignition Trigger) Used on Type No(s). 0111.
85A	820029	Screw (Gear Cover to Gear Reduction Case)	813A	820047	Clamp Used on Type No(s). 0111.			
85B	820027	Screw (Gear Cover to Gear Reduction Case)	1086	825009	Trigger-Ignition Used on Type No(s). 0111.			
			1173	820069	Nut (Gear Cover)			

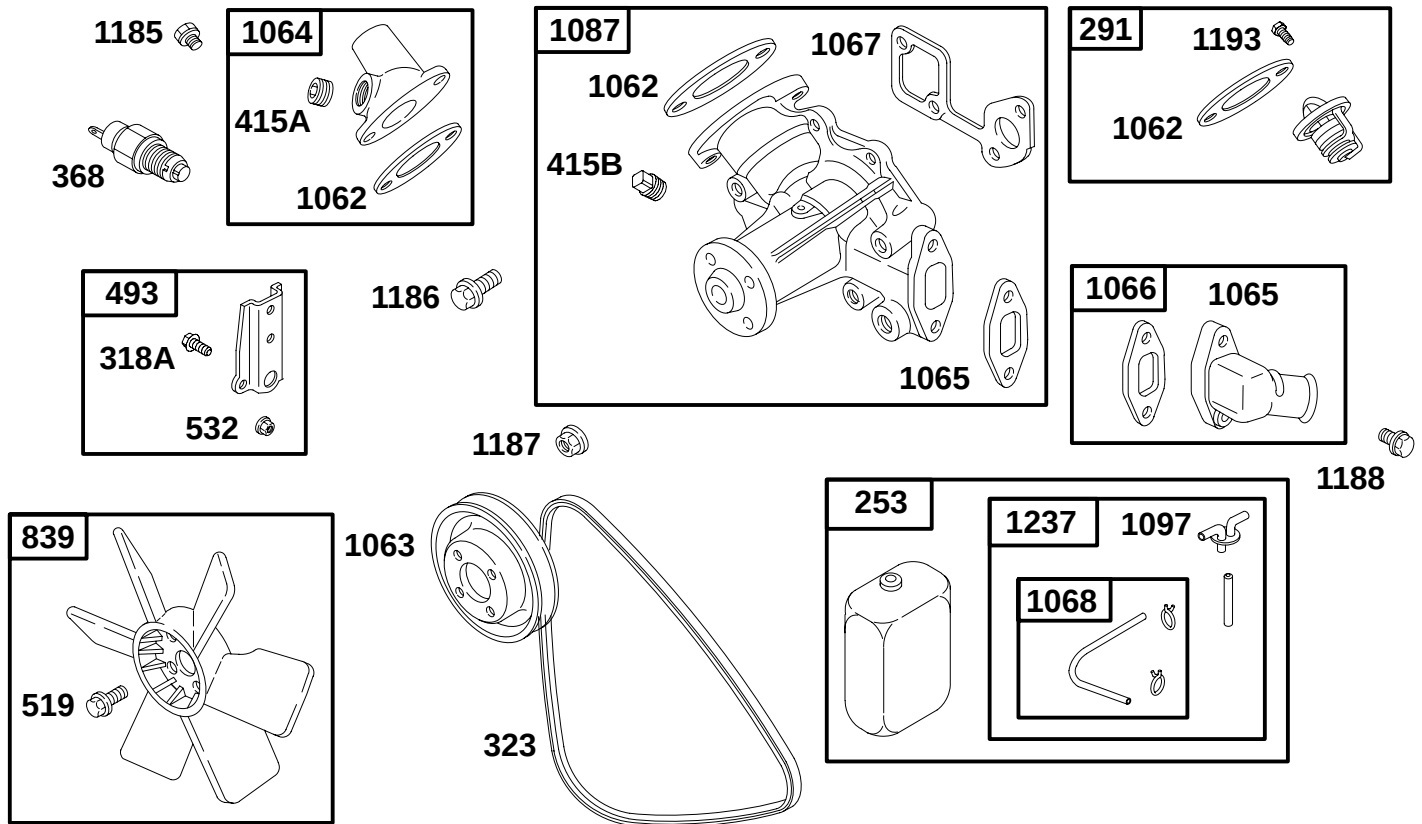
★ Engine Gasket Set-Reference 358
 Δ Valve Gasket Set-Reference 1095



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
88	★820377	Gasket-Gear Reduction Cover	743A	820615	Gear-Drive (Gear Housing)	1191	820030	Screw (Gear Housing)
88A	★820155	Gasket-Gear Reduction Cover	1189	820156	Stud (Gear Housing)	1191A	820033	Screw (Gear Housing)
115	825186	Housing-Gear	1189A	820016	Stud (Gear Housing)	1199	820426	Stud (Injection Pump)
249	825032	Valve-Pressure Relief	1190	820180	Screw (Drive Gear)			

★ Engine Gasket Set-Reference 358

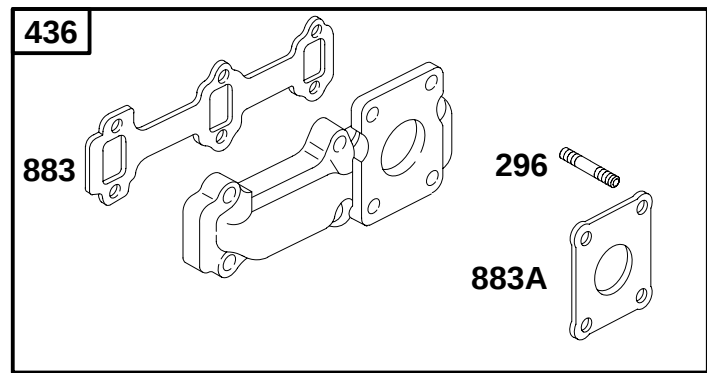
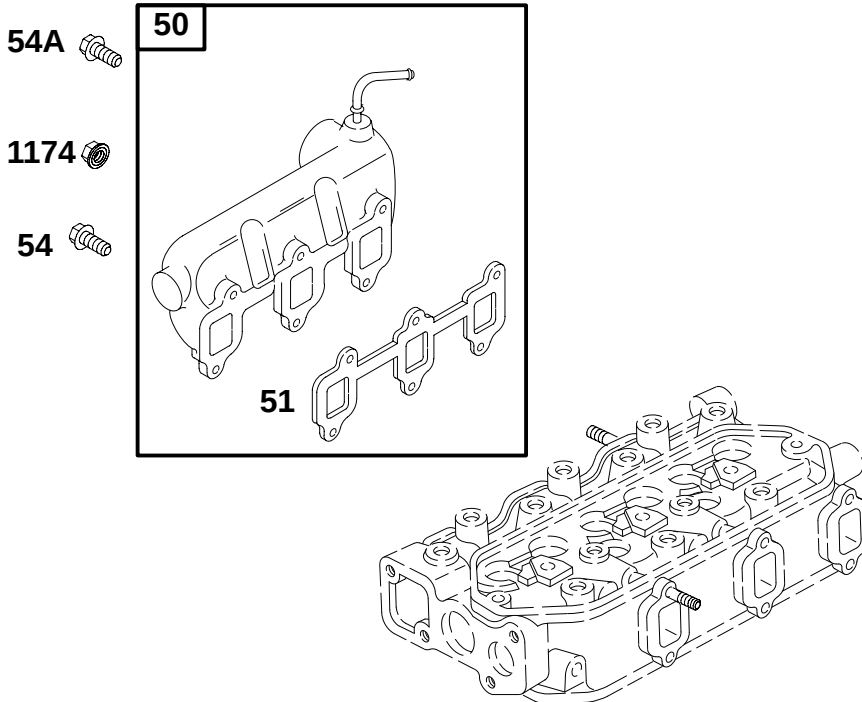
△ Valve Gasket Set-Reference 1095

522400

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
253	825462	Tank-Reserve	519	820034	Screw (Radiator Fan)	1062	★820093	Gasket-Outlet Housing
291	825064	Thermostat	532	820011	Nut (Mounting Bracket) (Reserve Tank)	1063	820095	Pump-Pulley
318A	820033	Screw (Mounting Bracket)	839	825223	Fan-Radiator Used on Type No(s). 0106.	1064	825074	Housing-Outlet
323	821075	Belt-Vee			----- Note -----	1065	★820098	Gasket-Inlet Housing
		820664 Belt-Vee Used on Type No(s). 0107, 0314.			----- Note -----	1066	825051	Housing-Inlet
368	820208	Switch-Water Temperature			825136 Fan-Radiator Used on Type No(s). 0108.	1067	★820100	Gasket-Water Pump
415A	820052	Plug (Outlet Housing) Used on Type No(s). 0111, 0314.			825435 Fan-Radiator Used on Type No(s). 0107.	1068	825296	Hose/Clamp Assembly
415B	820182	Plug (Water Pump)			825454 Fan-Radiator Used on Type No(s). 0105, 0111, 0112, 0314.	1087	825265	Pump-Water
493	825106	Bracket-Mounting (Reserve Tank)			825538 Fan-Radiator Used on Type No(s). 0376.			----- Note -----
		----- Note -----						825432 Pump-Water Used on Type No(s). 0107, 0314.
		825314 Bracket-Mounting (Reserve Tank) Used on Type No(s). 0111.				1097	820287	Cap-Surge Tank
						1185	820031	Screw (Outlet Housing)
						1186	820022	Screw (Water Pump)
						1187	820181	Nut (Water Pump)
						1188	820031	Screw (Inlet Housing)
						1193	820185	Screw (Thermostat)
						1237	825461	Cap/Hose-Reserve

★ Engine Gasket Set-Reference 358

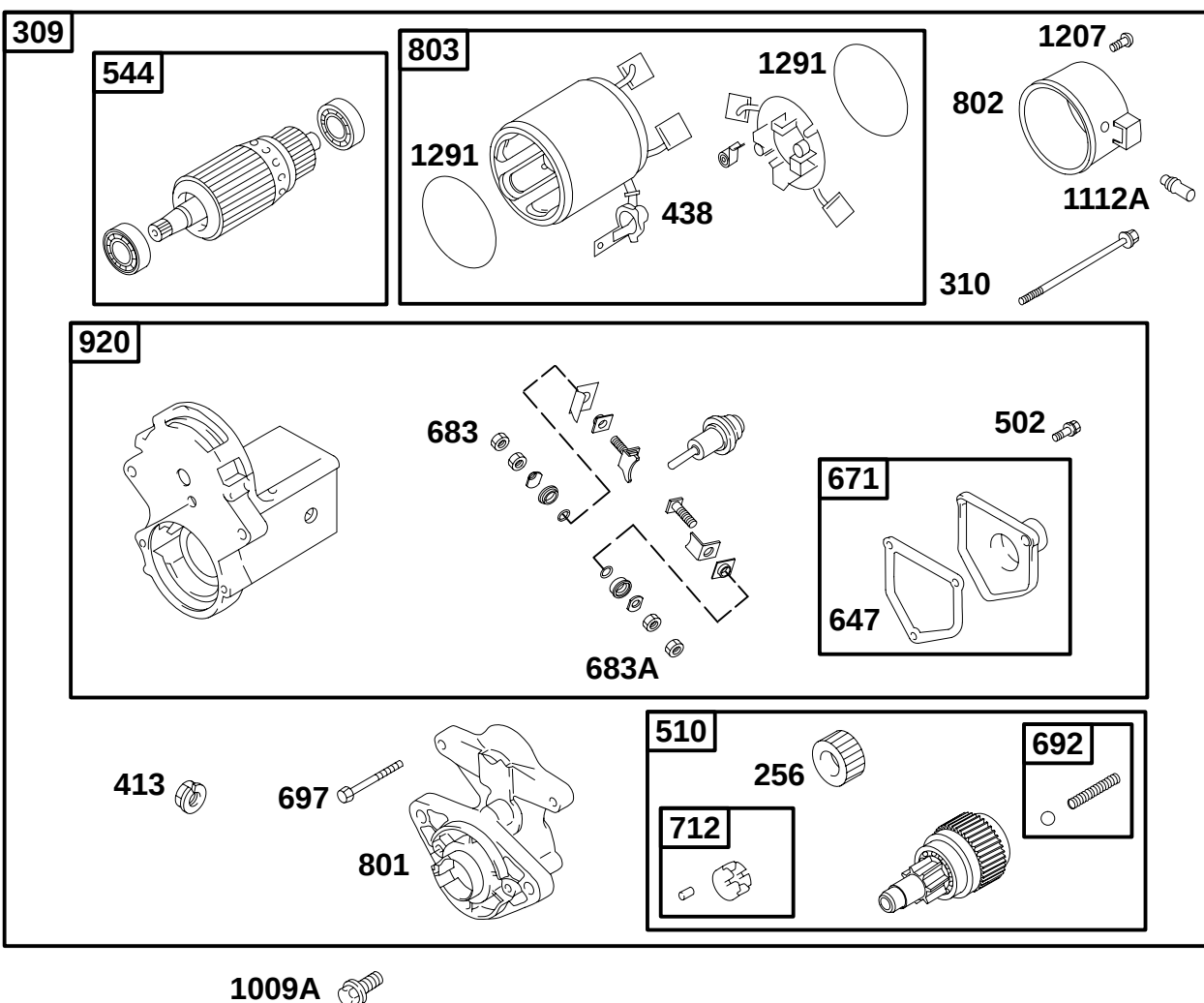
△ Valve Gasket Set-Reference 1095

522400 to 522499

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
50	825175	Manifold-Intake	296	820553	Stud (Muffler Mounting)	1174	820069	Nut (Intake Manifold)
51	★△820407	Gasket-Intake	436	825055	Manifold-Exhaust	1176	820010	Nut (Exhaust Manifold)
54	820031	Screw (Intake Manifold)	883	★△820817	Gasket-Exhaust (Exhaust Manifold)	1177	820178	Nut (Muffler)
54A	820408	Screw (Intake Manifold)	883A	★821001	Gasket-Exhaust (Muffler)			

★ Engine Gasket Set-Reference 358

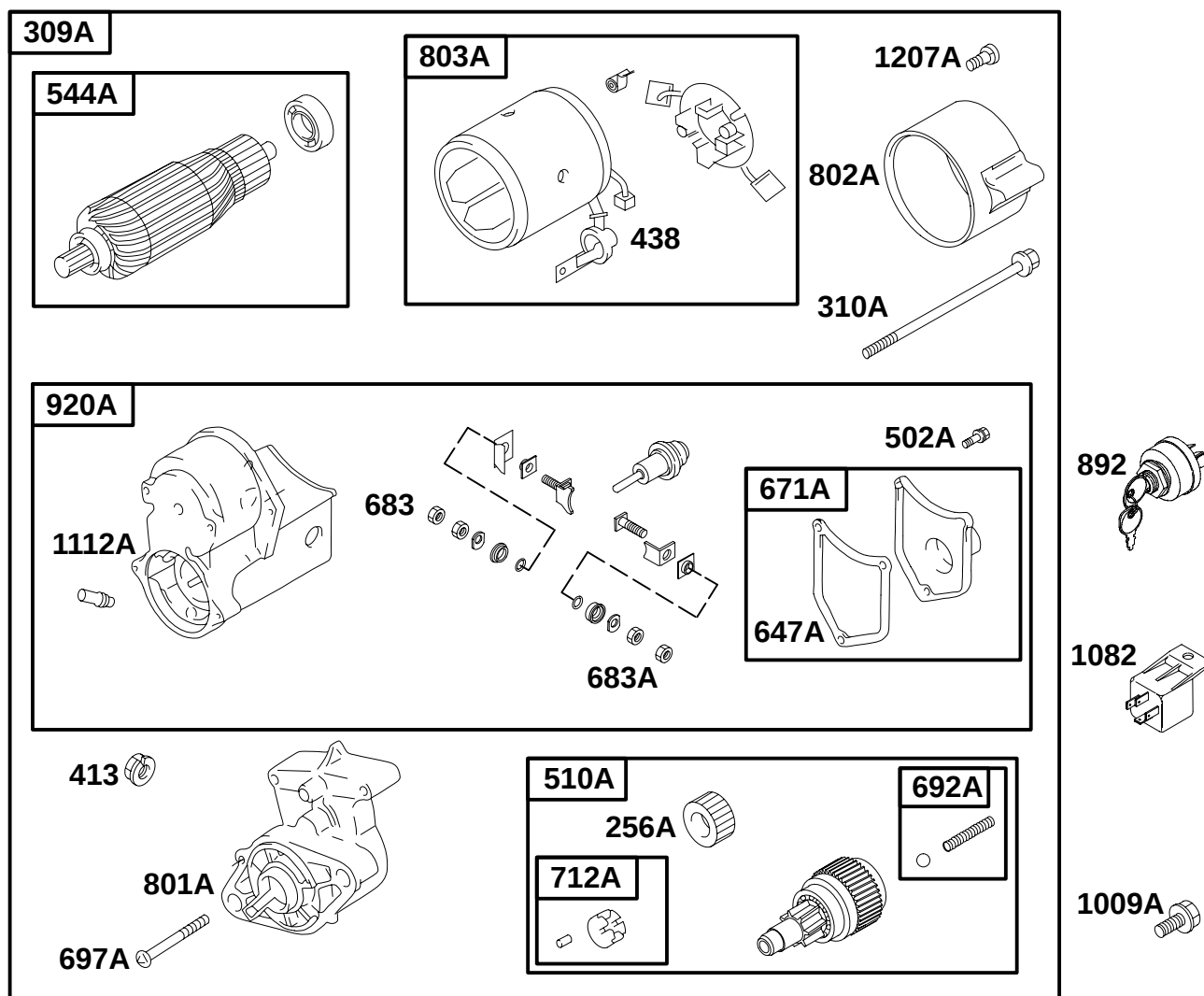
△ Valve Gasket Set-Reference 1095

522400**1.2 KW**

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
256	820767	Gear-Starter Drive	647	820719	Gasket-Solenoid Cover	712	825401	Roller-Clutch
309	825222	Motor-Starter Used on Type No(s). 0106, 0108, 0109.	671	825422	Cover-Solenoid	801	825408	Cap-Drive
310	820773	Bolt (Starter Motor)	683	820723	Nut (Starter Solenoid) (Terminal)	802	820771	Cap-End
413	820067	Nut (Starter Motor)	683A	820721	Nut (Starter Solenoid) (Terminal)	803	825423	Housing-Starter (Includes Brush Set)
438	820725	Boot-Terminal	692	825402	Spring-Detent	920	825410	Solenoid-Starter
502	820763	Screw (Solenoid Cover)	697	820777	Screw (Drive Cap)	1009A	820019	Screw (Starter Motor)
510	825406	Drive-Starter				1112A	820779	Plug-Vent
544	825404	Armature-Starter				1207	820775	Screw (End Cap)
						1291	820769	Seal-O Ring (Starter Housing)

★ Engine Gasket Set-Reference 358

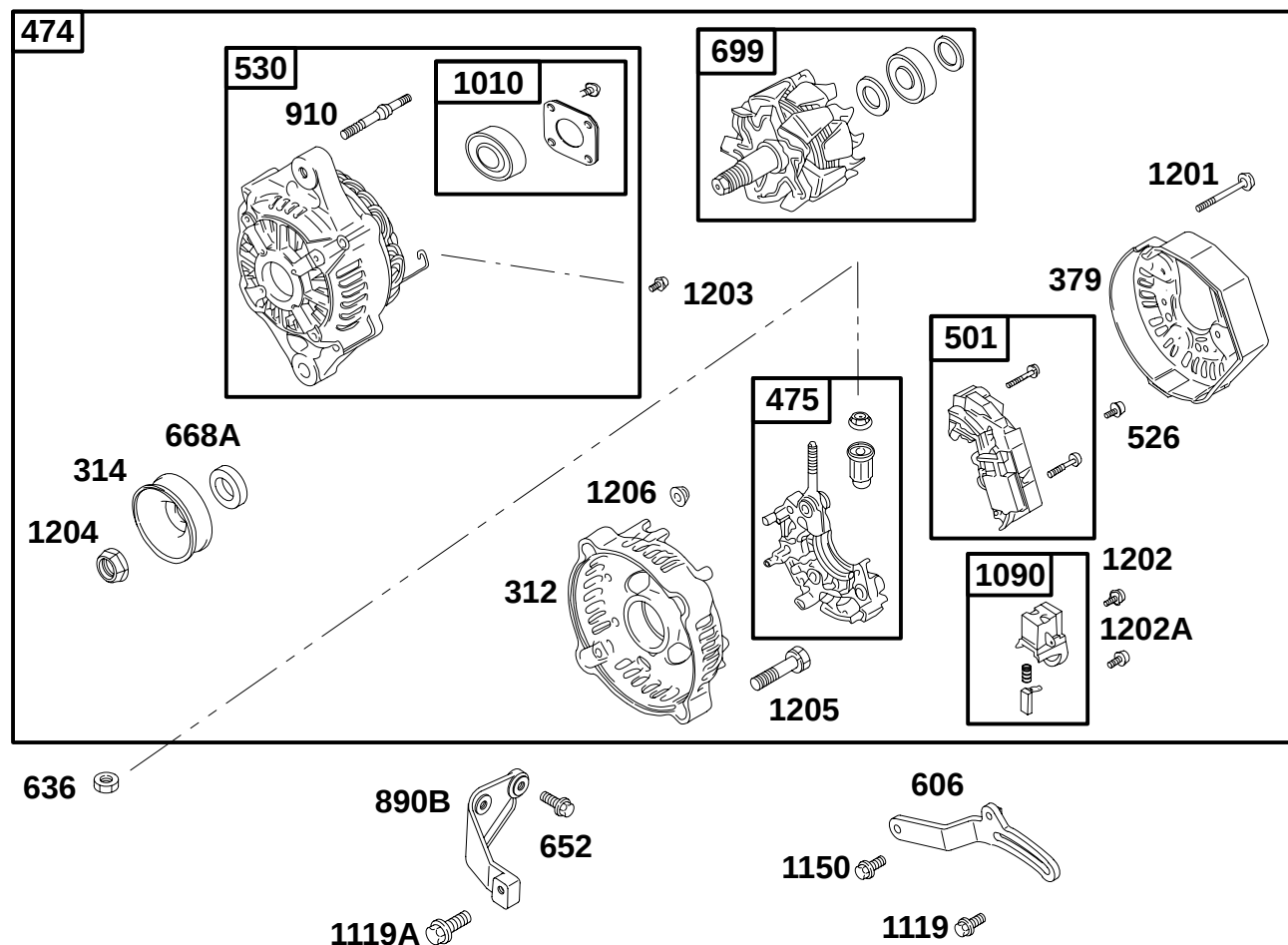
△ Valve Gasket Set-Reference 1095

522400 to 522499**1.0 KW**

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
256A	820745	Gear-Starter Drive	510A	825394	Drive-Starter	801A	825396	Cap-Drive
309A	825083	Motor-Starter	544A	825392	Armature-Starter	802A	820743	Cap-End
		Used on Type No(s). 0105, 0107, 0111, 0314, 0376.	647A	820733	Gasket-Solenoid Cover	803A	825399	Housing-Starter (Includes Brushes, Springs and Brush Retainer)
310A	820755	Bolt (Starter Motor)	671A	825400	Cover-Solenoid	892	692318	Switch-Key
413	820067	Nut (Starter Motor)	683	820723	Nut (Starter Solenoid) (Terminal)	920A	825398	Solenoid-Starter
438	820725	Boot-Terminal	683A	820721	Nut (Starter Solenoid) (Terminal)	1009A	820019	Screw (Starter Motor)
502A	820739	Screw (Solenoid Cover)	692A	825425	Spring-Detent	1082	820455	Relay-Starter
			697A	820751	Screw (Drive Cap)	1112A	820737	Plug-Vent
			712A	825424	Roller-Clutch	1207A	820754	Screw (End Cap)

★ Engine Gasket Set-Reference 358

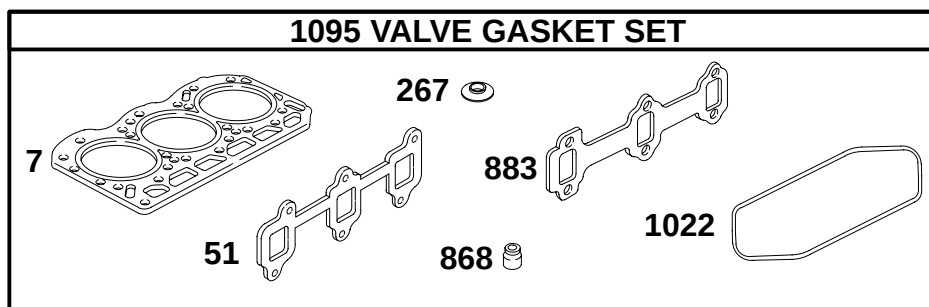
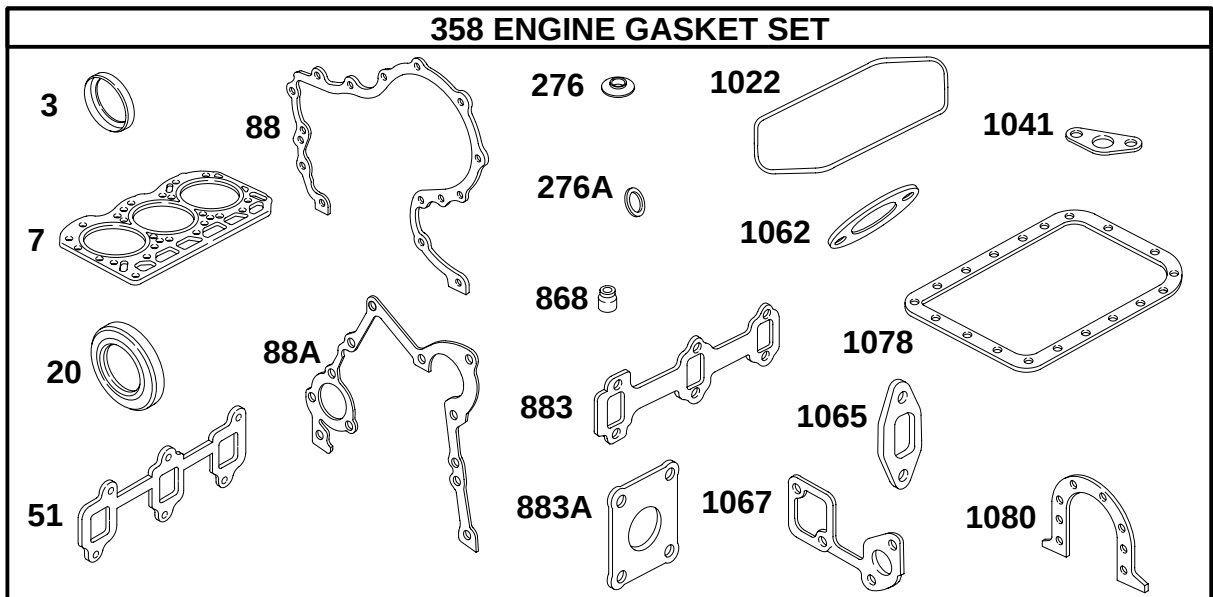
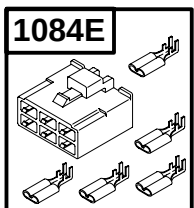
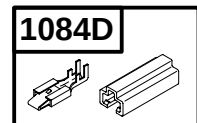
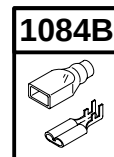
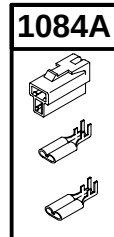
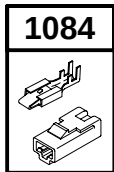
△ Valve Gasket Set-Reference 1095

522400**40 AMP**

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
312	820692	Housing-Brush End	668A	820713	Spacer (Alternator)	1201	820715	Screw (Brush Cover)
314	820711	Pulley-Alternator	699	825390	Rotor Assembly	1202	820701	Screw (Brush Retainer)
379	820703	Cover-Brush	890B	820213	Bracket-Support	1202A	820702	Screw (Brush Retainer)
474	825084	Alternator	910	820690	Stud (Alternator)	1203	820702	Screw (Ground Terminal)
475	825385	Rectifier	1010	825384	Retainer-Bearing	1204	820705	Nut (Alternator Pulley)
501	825388	Regulator	1090	825387	Retainer-Brush	1205	820707	Screw (Brush End Housing)
526	820702	Screw (Regulator)	1119	820483	Screw (Alternator)	1206	820709	Nut (Brush End Housing)
530	825383	Housing-Drive End	1119A	820270	Screw (Alternator)			
606	820819	Strap-Adjusting	1150	820023	Screw (Adjusting Strap)			
636	820069	Nut (Starting Switch)						
652	820023	Screw (Support Bracket)						

★ Engine Gasket Set-Reference 358

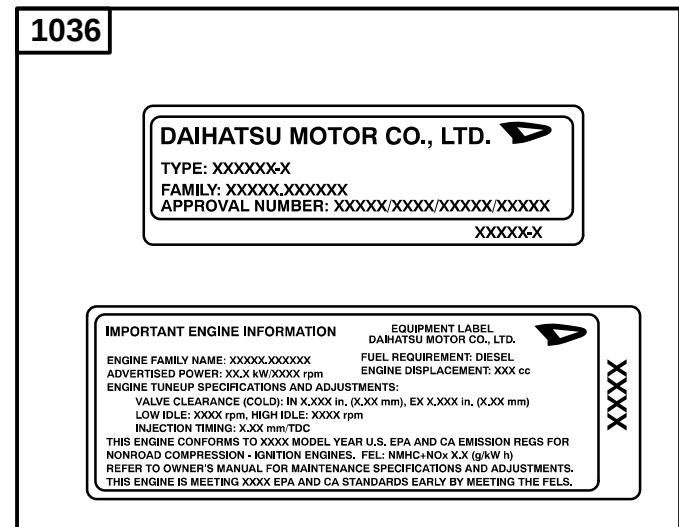
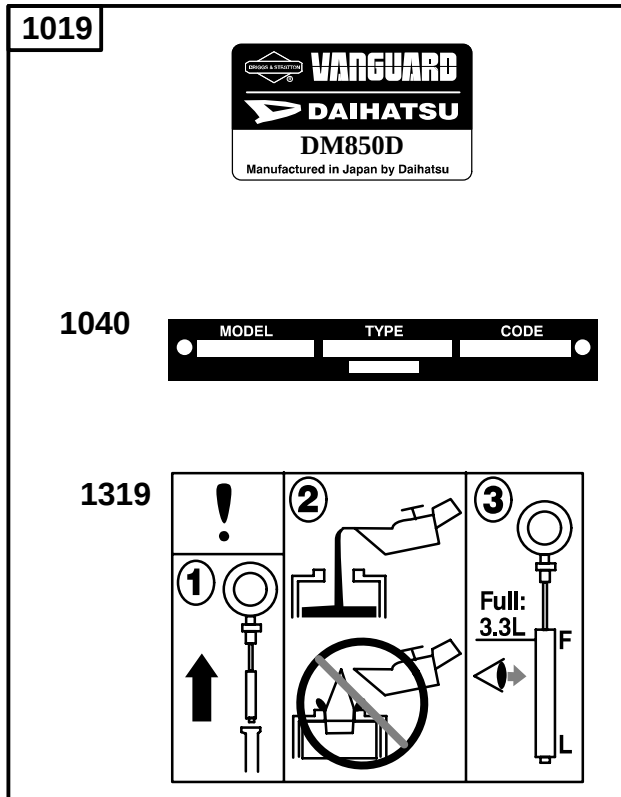
△ Valve Gasket Set-Reference 1095



REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
3	821071	Seal-Oil (Magneto Side)	358	825315	Set-Engine Gasket	1080	820145	Gasket-Seal Retainer
7	820621	Gasket-Cylinder Head	868	820405	Seal-Valve	1084	825266	Connector-Terminal
20	821073	Seal-Oil (PTO Side)	883	820817	Gasket-Exhaust (Exhaust Manifold)	1084A	825157	Connector-Terminal
51	820407	Gasket-Intake	883A	821001	Gasket-Exhaust (Muffler)	1084B	825160	Connector-Terminal
88	820377	Gasket-Gear Cover	1022	820150	Gasket-Rocker Cover	1084D	825154	Connector-Terminal
88A	820155	Gasket-Gear Cover	1041	820104	Gasket-Oil Strainer	1084E	825162	Connector-Terminal
276	820064	Washer-Seal (Rocker Cover)	1062	820093	Gasket-Outlet	1095	825316	Gasket Set-Valve
276A	820582	Washer-Seal (Oil Drain Plug)	1065	820098	Gasket-Inlet Housing			
			1067	820100	Gasket-Water Pump			
			1078	820137	Gasket-Oil Pan			

★ Engine Gasket Set-Reference 358

△ Valve Gasket Set-Reference 1095

522400**1058 OPERATOR'S MANUAL****1330 REPAIR MANUAL**

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
1019	825650	Kit-Label	1036	825661	Label-Emissions (Used After Code Date 03123100). ----- Note ----- 825648 Label-Emissions (Used After Code Date 01123100 and Before Code Date 04010100). 825647 Label-Emissions (Used After Code Date 99123100 and Before Code Date 02010100). 825227 Label-Emissions (Used Before Code Date 00010100).	1040	820290	Plate-Trim
						1058	820853	Operator's Manual
						1319	820891	Label-Warning
						1330	MS1055	Repair Manual

★ Engine Gasket Set-Reference 358
 △ Valve Gasket Set-Reference 1095