

FIGURE 1-1 - CHASSIS

KEY	PART NAME	GROUP	KEY	PART NAME	GROUP
1	Pivot, Upper Suspension Arm, Inner.....	13.016	17	Spring, Rear.....	12.200
2	Arm, Front Suspension, Upper.....	13.014	18	Pipe, Exhaust, Rear.....	5.040
3	Fan.....	6.000	19	Tube, Brake Frame Tee to Rear Brake Hose.....	15.070
4	Generator.....	7.400	20	Axle, Rear.....	12.000
5	Filter, Oil.....	2.300	21	Shock Absorber, Rear.....	20.010
6	Cap, Oil Filler.....	1.754	22	Frame.....	17.000
7	Carburetor.....	3.690	23	Shaft and Joints, Propeller.....	11.000
8	Air Cleaner.....	4.000	24	Transmission.....	9.000
9	Spacer, Air Cleaner to Hood.....	4.000	25	Pedal, Clutch.....	8.140
10	Wing Nut, Air Cleaner.....	4.000	26	Pipe, Exhaust, Front.....	5.040
11	Tube, Oil Distribution.....	2.240	27	Gear Assembly, Steering.....	14.100
12	Jacket, Steering Column.....	14.106	28	Cover, Wheel.....	16.028
13	Wheel, Steering.....	14.126	29	Bar Assembly, Front Sway Eliminator.....	13.200
14	Tank, Gasoline.....	3.520	30	Crossmember Assembly, No. 1.....	17.010
15	Crossmember, Frame, Rear.....	17.010	31	Bracket, Radiator Mounting, Left.....	17.005
16	Muffler and Tail Pipe, Exhaust.....	5.055	32	Support, Radiator Tie Rod.....	17.005

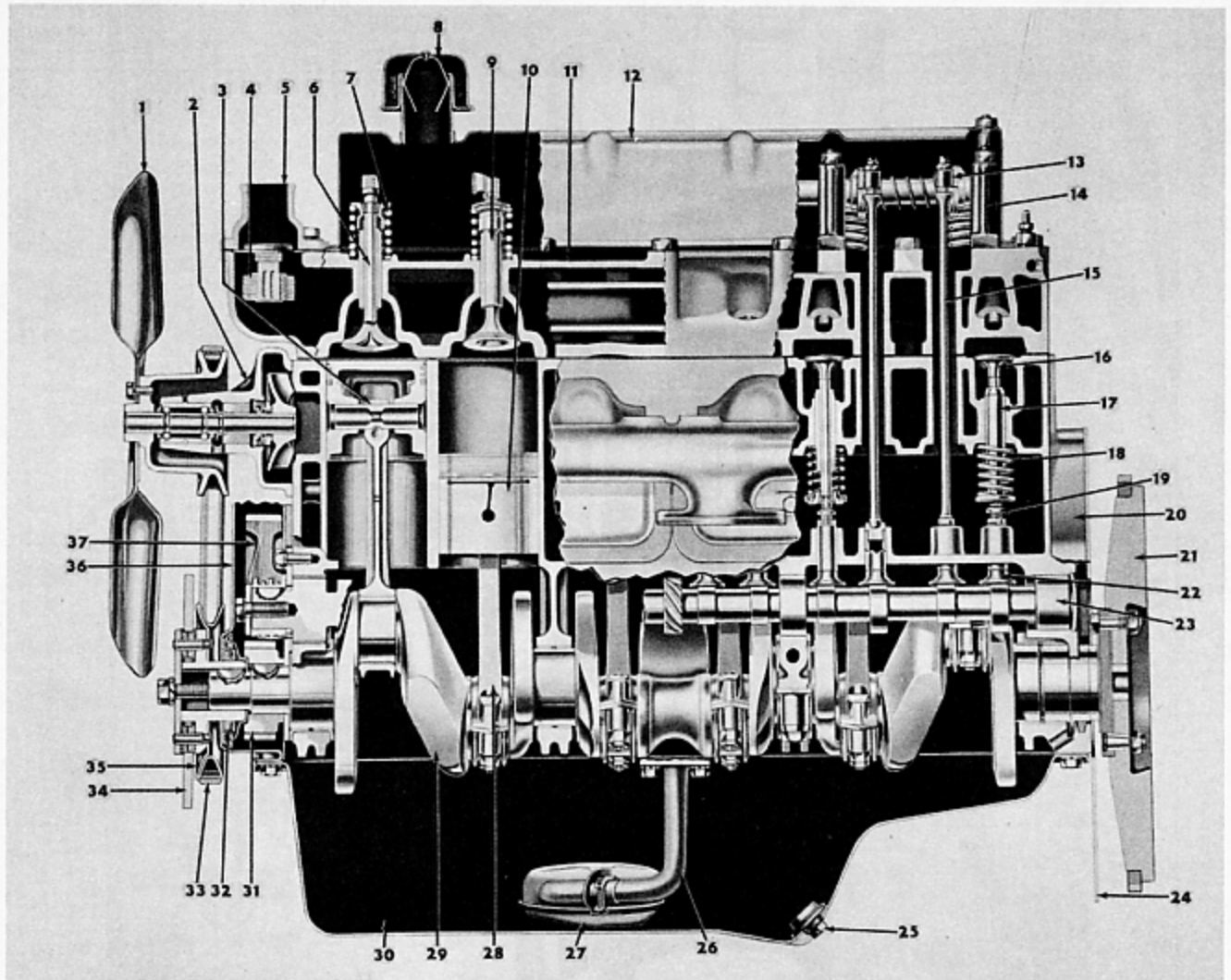


FIGURE 1-2 - SECTIONAL VIEW OF ENGINE - LEFT SIDE

KEY	PART NAME	GROUP	KEY	PART NAME	GROUP
1	Fan.....	6.000	20	Block, Cylinder.....	1.100
2	Pump, Water.....	6.300	21	Flywheel.....	1.360
3	Pin, Piston.....	1.420	22	Tappet, Exhaust Valve.....	1.740
4	Thermostat.....	6.410	23	Camshaft.....	1.500
5	Elbow.....	6.425	24	Plate, Cylinder Block End - Rear.....	1.110
6	Valve, Intake.....	1.720	25	Plug, Drain.....	2.400
7	Spring, Intake Valve.....	1.720	26	Support, Oil Float.....	2.235
8	Breather Cap.....	1.754	27	Float, Oil.....	2.235
9	Guide, Intake Valve.....	1.720	28	Rod, Connecting.....	1.400
10	Piston with Pin.....	1.410	29	Crankshaft.....	1.300
11	Head, Cylinder.....	1.200	30	Pan, Oil.....	2.400
12	Cover, Rocker Arm.....	1.754	31	Gear, Crankshaft Timing.....	1.600
13	Arm, Rocker, Right.....	1.752	32	Seal, Crankshaft Front Oil.....	1.303
14	Bracket, Rocker Shaft.....	1.752	33	Belt, Fan.....	6.000
15	Rod, Push.....	1.752	34	Disc, Vibration Damper.....	1.330
16	Valve, Exhaust.....	1.720	35	Pulley and Hub, Crankshaft.....	1.350
17	Guide, Exhaust Valve.....	1.720	36	Cover, Timing Gear.....	1.610
18	Spring, Exhaust Valve.....	1.720	37	Gear, Camshaft Timing.....	1.600
19	Screw, Valve Tappet Adjusting.....	1.740			

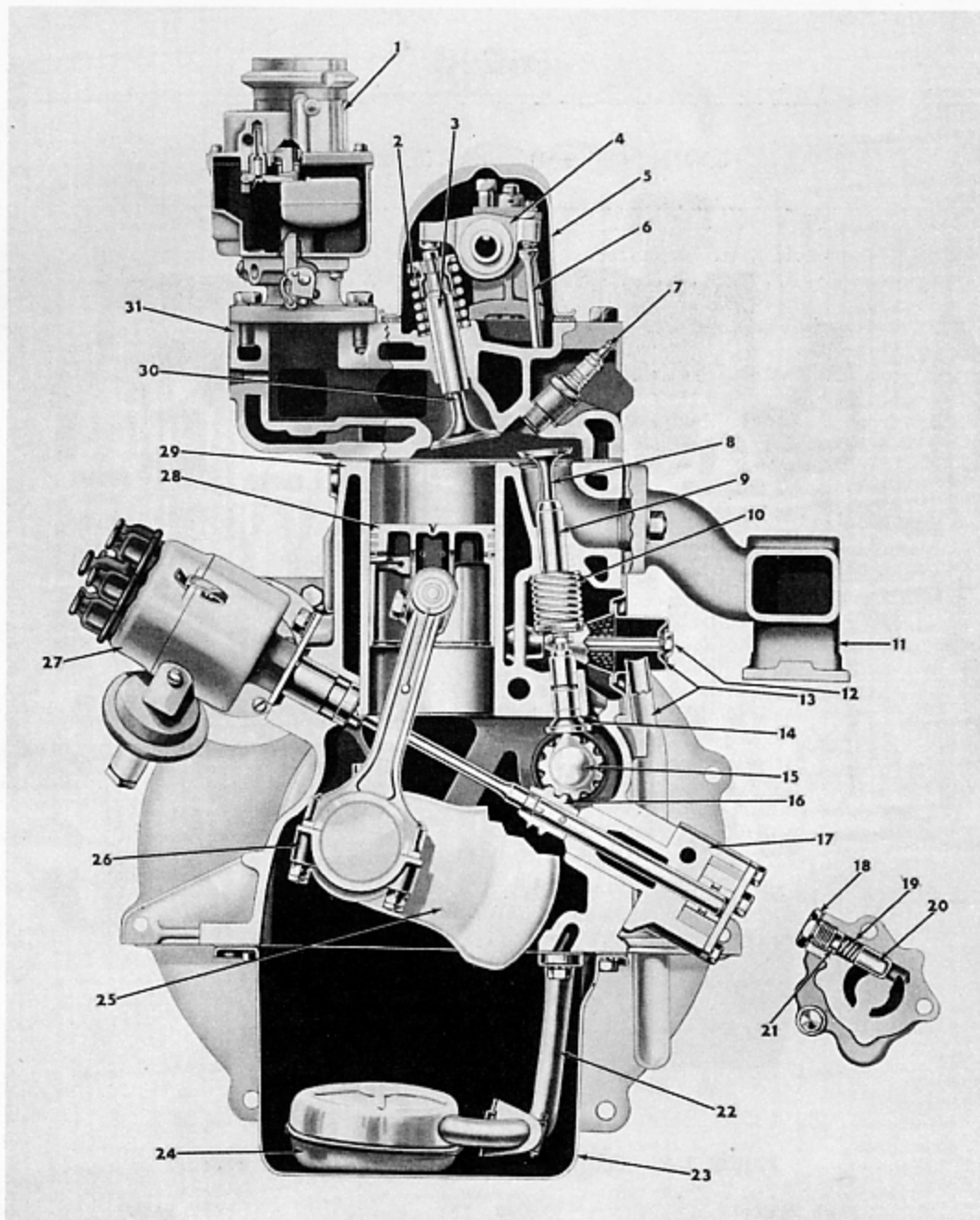


FIGURE 1-3 - SECTIONAL VIEW OF ENGINE - FRONT

KEY	PART NAME	GROUP	KEY	PART NAME	GROUP
1	Carburetor.....	3.600	17	Pump, Oil.....	2.200
2	Spring, Intake Valve.....	1.720	18	Plug, Oil Pressure Relief.....	2.212
3	Guide, Intake Valve.....	1.720	19	Spring, Oil Pressure Relief.....	2.212
4	Arm, Rocker, Left.....	1.752	20	Valve, Oil Pressure Relief.....	2.212
5	Cover, Rocker Arm.....	1.754	22	Support, Oil Float.....	2.235
6	Rod, Push.....	1.752	23	Pan, Oil.....	2.400
7	Spark Plug.....	7.375	24	Float, Oil.....	2.235
8	Valve, Exhaust.....	1.720	25	Crankshaft.....	1.300
9	Guide, Exhaust Valve.....	1.720	26	Rod, Connecting.....	1.400
10	Spring, Exhaust Valve.....	1.720	27	Distributor.....	7.300
11	Manifold, Exhaust.....	5.000	28	Piston with Pin.....	1.410
12	Bolt, Valve Tappet Cover.....	1.750	29	Block, Cylinder.....	1.100
13	Body, Crankcase Ventilation.....	1.760	30	Valve, Intake.....	1.720
14	Tappet, Exhaust Valve.....	1.740	31	Head, Cylinder.....	1.200
15	Camshaft.....	1.500			
16	Gear, Oil Pump Drive.....	2.210			

ENGINE

1

FIGURE NUMBER	GROUP PART NAME and DESCRIPTION	PART NUMBER	P E R C A R
	1.000 - ENGINE		
	Engine (Partial)(less Accessories, Manifold, Head, Clutch and Housing).....	215550	1
	Flatwasher, 1/2".....	GM-120396	2
	Locknut, 1/2"-20 Hx.....	GM-451019	2
	Gasket Set, Engine Overhaul.....	215622	1
	Consists of:		
	1 - 208726 Gasket, Cylinder Block End Plate, Front		
	1 - 215246 Gasket, Cylinder Head		
	1 - 215337 Gasket, Carburetor Mounting		
	2 - 215299 Gasket, Exhaust Manifold, Inner Ports		
	2 - 215300 Gasket, Exhaust Manifold, Outer Ports		
	1 - 209573 Gasket, Exhaust Pipe Flange		
	1 - 200283 Gasket, Fuel Pump (to Block)		
	1 - 208814 Gasket, Timing Gear Cover		
	1 - 208867 Gasket, Oil Float Support		
	1 - 208872 Gasket, Oil Pan		
	1 - 208857 Gasket, Oil Pump Cover		
	1 - 208848 Gasket, Oil Pump (to Block)		
	4 - 208843 Gasket, Valve Tappet Cover Bolt		
	2 - 208844 Gasket, Valve Tappet Cover		
	1 - 208885 Gasket, Crankcase Ventilator		
	1 - 215302 Gasket, Water Outlet Elbow		
	1 - 208916 Gasket, Water Pump (to Block)		
	1 - 208816 Oil Seal, Crankshaft, Front		
	2 - 215271 Oil Seal, Crankshaft, Rear		
	2 - 208747 Packing, Crankshaft Bearing Cap, Rear		
	1 - 200269 Gasket, Oil Pan Drain Plug		
	1 - 215272 Gasket, Rocker Arm Cover		
	1.010 - ENGINE SUPPORT INSULATOR - FRONT		
	Insulator.....	209522	2
	Bolt, 5/16"-24 x 3/4" Hx. Hd.....	GM-120741	4
	Locknut, 5/16"-24 Hx.....	GM-451007	4
	Flatwasher, 1/2".....	GM-120396	2
	Locknut, 1/2"-20 Hx.....	GM-451019	2
		[to]	
		[Frame]	
		[to]	
		[Engine]	
	1.020 - ENGINE SUPPORT INSULATOR - REAR		
	Insulator, Right.....	215381	1
	Insulator, Left.....	215382	1
	Spacer.....	215383	2
	Bolt, 7/16"-20 x 7/8" Hx. Hd.....	GM-106290	4
	Flatwasher, 19/32" I.D. x 1 3/16" O.D.....	GM-121458	4
	Lockwasher, 7/16" Med.....	GM-120383	4
	Strap.....	215384	2
	Bolt, 7/16"-20 x 1 1/8" Hx. Hd.....	GM-106291	2
	Locknut, 7/16"-20 Hx.....	GM-451015	2
	Spacer.....	215385	4
	Bolt, 3/8"-24 x 3" Hx. Hd.....	GM-124128	4
	Lockwasher, 3/8" Med.....	GM-120382	4
	Nut, 3/8"-24 Hx.....	GM-121932	4
		[to]	
		[Flywheel]	
		[Housing]	
	1.100 - CYLINDER BLOCK		
	NOTE: Blocks include Pistons, Rings, Pins, Main and Camshaft Bearings.		
1-2-20	Block.....	215553	1
	Plug, Pipe (1/8" Sq. Hd.).....	GM-103865	1
	Plug, Oil Header (Expansion) 5/16" Dia.....	GM-117916	2
	Plug, Oil Header Pipe (3/8" Hd'ls. Ct'sk.).....	208720	2
	Plug, Oil Line Hole Pipe (1/4" Sq. Hd.).....	GM-103866	1
	Plug, Camshaft Rear Bearing (Expansion)(1 3/4" Dia.).....	GM-103897	1
	Plug, Water Jacket (Expansion)(1 1/4" Dia.).....	GM-103895	4

ENGINE

FIGURE NUMBER	GROUP PART NAME and DESCRIPTION	PART NUMBER	P E C E A R
	1.100 - CYLINDER BLOCK (CONT'D.)		
	Tube, Water Pump By-Pass.....	208722	1
	Drain Cock.....	GM-103647	1
	1.105 - CYLINDER BLOCK END PLATE - FRONT		
	Plate.....	208723	1
	Gasket.....	208726	1
	Bolt, 5/16"-18 x 3/4" Hx. Hd.....	GM-122007	3
	Lockwasher, 5/16" Med.....	GM-120214	3
	1.110 - CYLINDER BLOCK END PLATE - REAR		
1-2-24	Plate.....	214006	1
	1.200 - CYLINDER HEAD		
1-2-11	Head (7.6 Compression Ratio)(incl. Valve Stem Guides).....	215244	1
	Bolt, 7/16"-14 x 1/4" Hx. Hd.....	215245	24
	Gasket.....	215246	1
	Plug, Pipe (3/8" Sq. Hd.)(to Heater Hose).....	GM-103867	1
	Plug, Expansion (1 1/4" Dia.).....	GM-103895	2
	Plug, Pipe (1/8" Hd'ls. Sl.).....	GM-103883	1
	1.300 - CRANKSHAFT		
	NOTE: When ordering a Crankshaft, a Repair Kit, Part No. 209719, <u>must</u> also be ordered.		
1-2-29	Crankshaft.....	209513	1
	Repair Kit.....	209719	1
	Consists of:		
	Bolt.....	209580	2
	Lockwasher, 1/2" Ext. Tooth.....	GM-135629	2
	Jam Nut, 1/2"-20 Hx.....	GM-124934	2
	Instruction Drawing		
	1.303 - CRANKSHAFT OIL SEAL		
1-2-32	Seal, Front (in Timing Chain Cover).....	208816	1
	Seal, Rear (in Main Bearing Cap).....	208746	2
	1.310 - CRANKSHAFT THRUSTWASHER		
	Thrustwasher, Front.....	208737	1
	Shim, .002.....	208741	*
	Shim, .003.....	214391	*
	Oil Slinger.....	214390	1
	1.315 - CRANKSHAFT MAIN BEARINGS		
	Bearing, No. 1 Std.....	209523	1
	Bearing, No. 2 and 3 Std.....	209533	2
	Bearing, No. 4 Std.....	209543	1
	Bearing, No. 1 .001 Undersize.....	209525	1
	Bearing, No. 2 and 3 .001 Undersize.....	209535	2
	Bearing, No. 4 .001 Undersize.....	209545	1
	Bearing, No. 1 .002 Undersize.....	209527	1
	Bearing, No. 2 and 3 .002 Undersize.....	209537	2
	Bearing, No. 4 .002 Undersize.....	209547	1

*As Required

ENGINE

1

FIGURE NUMBER	GROUP PART NAME and DESCRIPTION	PART NUMBER	P E C A R
	1.315 - CRANKSHAFT MAIN BEARINGS (CONT'D.)		
	Bearing, No. 1 .010 Undersize.....	209529	1
	Bearing, No. 2 and 3 .010 Undersize.....	209539	2
	Bearing, No. 4 .010 Undersize.....	209549	1
	NOTE: Engines with Engine Numbers followed by letter "A" have .010 Undersize Main Bearings.		
	Bearing, No. 1 .012 Undersize.....	209531	1
	Bearing, No. 2 and 3 .012 Undersize.....	209541	2
	Bearing, No. 4 .012 Undersize.....	209551	1
	Bearing, No. 1 .020 Undersize.....	213268	1
	Bearing, No. 2 and 3 .020 Undersize.....	213270	2
	Bearing, No. 4 .020 Undersize.....	213272	1
	Packing, Rear Bearing (between Bearing Cap and Block).....	208747	2
	1.320 - CRANKSHAFT MAIN BEARING CAP BOLTS		
	Bolt.....	208743	8
	Lockwasher, 7/16" Med.....	GM-120383	8
	1.330 - VIBRATION DAMPER		
1-2-34	Disc.....	208751	1
	Insulator, Disc, Front.....	208753	1
	Insulator, Disc, Rear.....	208754	1
	Plate, Clamp.....	208755	1
	Bolt, 7/16"-20 x 1 7/8" Hx. Hd.....	GM-123869	1
	Lockwasher, 7/16" Hy.....	GM-131100	1
	1.350 - CRANKSHAFT PULLEY		
1-2-35	Pulley and Hub (incl. Studs).....	208749	1
	Key, Woodruff No. 9.....	GM-106751	1
	1.360 - FLYWHEEL		
	NOTE: When ordering a Flywheel, a Repair Kit, Part No. 209719, <u>must</u> also be ordered.		
1-2-21	Flywheel (incl. Ring Gear and Pilot Bushing).....	214004	1
	Bolt.....	208759	4
	Dowel Screw.....	208758	2
	Lockwasher, 3/8" Ext. Tooth.....	GM-138489	6
	Nut, 3/8"-24 Hx.....	GM-121932	6
	Ring Gear.....	214005	1
	Bushing, Pilot.....	208761	1
	Repair Kit.....	209719	1
	Consists of:		
	Bolt.....	209580	2
	Lockwasher, 1/2" Ext. Tooth.....	GM-135629	2
	Jam Nut, 1/2"-20 Hx.....	GM-124934	2
	Instruction Drawing		
	1.370 - TIMING POINTER		
	Pointer.....	208757	1
	1.400 - CONNECTING ROD		
1-2-28	Rod.....	208763	6
	Bolt.....	208766	12
	Nut.....	208768	12
	Locknut, 11/32"-24 Hx.....	208770	12

ENGINE

FIGURE NUMBER	GROUP PART NAME and DESCRIPTION	PART NUMBER	PER CAR
	1.405 - CONNECTING ROD BEARING		
	Bearing, Std.....	213008	6
	Bearing, .001 Undersize.....	213010	*
	Bearing, .002 Undersize.....	213012	*
	Bearing, .010 Undersize.....	213014	*
	NOTE: Engines with Engine Numbers followed by letter "A" have .010 Undersize Connecting Rod Bearings.		
	Bearing, .012 Undersize.....	213016	*
	Bearing, .020 Undersize.....	213275	*
	1.410 - PISTONS		
1-2-10	Piston with Pin, Std.....	214369	6
1-2-10	Piston with Pin, .010 Oversize.....	214370	6
1-2-10	Piston with Pin, .020 Oversize.....	214371	6
	NOTE: Engines with Engine Numbers followed by the letter "N" have .020 Oversize Pistons.		
1-2-10	Piston with Pin, .030 Oversize.....	214372	6
1-2-10	Piston with Pin, .040 Oversize.....	214373	6
	1.415 - PISTON RING		
	Ring, Compression, Upper, Std.....	214392	6
	Ring, Compression, Upper, .010 Oversize.....	214393	*
	Ring, Compression, Lower, Std.....	214397	6
	Ring, Compression, Lower, .010 Oversize.....	214398	*
	Ring, Oil Control, Std.....	214402	6
	Ring, Oil Control, .010 Oversize.....	214403	*
	1.417 - PISTON RING SETS - OIL CONTROL		
	Ring Set (Std. to .009 Oversize).....	213122	1
	Ring, Top Compression Piston.....	213103	6
	Ring, 2nd Steel Section Compression Piston.....	213104	6
	Ring, Steel Section Oil Control Piston.....	213105	6
	Ring Set (.010 to .029 Oversize).....	213123	1
	Ring, Top Compression Piston.....	213107	6
	Ring, 2nd Steel Section Compression Piston.....	213108	6
	Ring, Steel Section Oil Control Piston.....	213109	6
	Ring Set (.030 to .039 Oversize).....	213124	1
	Ring, Top Compression Piston.....	213111	6
	Ring, 2nd Steel Section Compression Piston.....	213112	6
	Ring, Steel Section Oil Control Piston.....	213113	6
	Ring Set (.040 to .049 Oversize).....	213125	1
	Ring, Top Compression Piston.....	213115	6
	Ring, 2nd Steel Section Compression Piston.....	213116	6
	Ring, Steel Section Oil Control Piston.....	213117	6
	Ring Set (Std. to .009 Oversize)(Chrome).....	213976	1
	Ring, Top Compression Piston.....	213981	6
	Ring, 2nd Steel Section Oil Control Piston.....	213986	6
	Ring, Steel Section Oil Control Piston.....	213991	6
	Ring Set (.010 to .029 Oversize)(Chrome).....	213977	1
	Ring, Top Compression Piston.....	213982	6
	Ring, 2nd Steel Section Oil Control Piston.....	213987	6
	Ring, Steel Section Oil Control Piston.....	213992	6
	Ring Set (.030 to .039 Oversize)(Chrome).....	213978	1
	Ring, Top Compression Piston.....	213983	6
	Ring, 2nd Steel Section Oil Control Piston.....	213988	6

*As Required

ENGINE

1

FIGURE NUMBER	GROUP PART NAME and DESCRIPTION	PART NUMBER	P E R C A R
	1.417 - PISTON RING SETS - OIL CONTROL (CONT'D.)		
	Ring, Steel Section Oil Control Piston.....	213993	6
	Ring Set (.040 to .049 Oversize)(Chrome).....	213979	1
	Ring, Top Compression Piston.....	213984	6
	Ring, 2nd Steel Section Oil Control Piston.....	213989	6
	Ring, Steel Section Oil Control Piston.....	213994	6
	1.420 - PISTON PIN		
1-2-3	Pin, Std.....	208777	6
1-2-3	Pin, .003 Oversize (Orange).....	208779	*
1-2-3	Pin, .005 Oversize (Purple).....	208781	*
	Bolt.....	208759	6
	Lockwasher, 3/8" Med.....	GM-120382	6
	1.500 - CAMSHAFT		
1-2-23	Camshaft.....	215247	1
	Thrustplate.....	208800	1
	Spacer.....	208802	1
	Bolt, 5/16"-18 x 5/8" Hx. Hd.....	GM-120228	2
	Lockwasher, 5/16" Med.....	GM-120214	2
	1.510 - CAMSHAFT BEARING		
	Bearing, No. 1.....	209563	1
	1.600 - TIMING GEAR		
1-2-31	Gear (on Crankshaft).....	214389	1
	Key, 3/16" x 3/4" Woodruff No. 9.....	GM-106751	1
1-2-37	Gear (on Camshaft).....	214388	1
	Key, 3/16" x 3/4" Woodruff No. 9.....	GM-106751	1
	Bolt, 7/16"-14 x 1 1/8" Hx. Hd.....	GM-106336	1
	Lockwasher, 7/16" Ext. Tooth.....	GM-136857	1
	Washer.....	208809	1
	Jet, Oil.....	208810	1
	1.610 - TIMING GEAR COVER		
1-2-36	Cover (less Seal and Plug).....	214407	1
	Gasket.....	208814	1
	Plug.....	208817	1
	Bolt, 5/16"-24 x 3/4" Hx. Hd.....	GM-120741	3
	Lockwasher, 5/16" Med.....	GM-120214	3
	Nut, 5/16"-24 Hx.....	GM-121917	3
	Bolt, 5/16"-18 x 7/8" Hx. Hd.....	GM-120229	2
	Bolt, 5/16"-18 x 3/4" Hx. Hd.....	GM-122007	7
	1.720 - VALVES		
1-2-6	Valve, Intake.....	215248	6
1-2-9	Guide, Intake Valve.....	215551	6
1-2-7	Spring, Intake Valve.....	215249	6
	Retainer, Upper.....	215250	6
	Lock.....	208830	12
	Oil Seal.....	215251	12
1-2-16	Valve, Exhaust.....	215252	6
1-2-17	Guide, Exhaust Valve.....	209565	6
1-2-18	Spring, Exhaust Valve.....	208825	6
	Rotocap.....	215253	6
	Lock.....	203328	12

*As Required

ENGINE

FIGURE NUMBER	GROUP PART NAME and DESCRIPTION	PART NUMBER	P P R E C A R
	1.720 - VALVES (CONT'D.)		
	Gasket Set, Valve Grind.....	215623	1
	Consists of:		
	1 - 215246 Gasket, Cylinder Head		
	1 - 215337 Gasket, Carburetor Mounting		
	2 - 215299 Gasket, Exhaust Manifold, Inner Ports		
	2 - 215300 Gasket, Exhaust Manifold, Outer Ports		
	1 - 209573 Gasket, Exhaust Pipe Flange		
	4 - 208843 Gasket, Valve Tappet Cover Bolt		
	2 - 208844 Gasket, Valve Tappet Cover		
	1 - 208885 Gasket, Crankcase Ventilator		
	1 - 215302 Gasket, Water Outlet Elbow		
	1 - 215271 Oil Seal, Crankshaft, Rear		
	1.740 - VALVE TAPPET		
	Tappet, Intake.....	215255	6
	Tappet, Intake, .001 Oversize.....	215586	*
	Tappet, Intake, .002 Oversize.....	215587	*
	Tappet, Intake, .005 Oversize.....	215588	*
	Screw, Adjusting.....	215256	6
	Jam Nut, 5/16"-24 Hx.....	GM-124920	6
1-2-22	Tappet, Exhaust (incl. Screw).....	208831	6
1-2-22	Tappet, Exhaust (incl. Screw) .001 Oversize (marked "B").....	208833	*
1-2-22	Tappet, Exhaust (incl. Screw) .002 Oversize (marked "D").....	208834	*
1-2-22	Tappet, Exhaust (incl. Screw) .005 Oversize (marked "K").....	213031	*
1-2-19	Screw, Adjusting.....	204029	6
	Jam Nut, 5/16"-24 Hx.....	GM-124920	6
	1.750 - VALVE TAPPET COVER		
	Cover, Front.....	208837	1
	Cover, Rear.....	208836	1
	Gasket.....	208844	2
1-3-12	Bolt, 5/16"-18 x 3 7/16" Hx. Hd.....	208839	1
	Bolt, 5/16"-18 x 2 3/16" Hx. Hd.....	208842	3
	Gasket, Bolt.....	208843	*
	1.752 - ROCKER ARMS AND PUSH RODS		
1-2-13	Arm, Rocker, Right.....	215257	3
1-3-4	Arm, Rocker, Left.....	215258	3
1-2-14	Bracket, Rocker Shaft.....	215259	6
	Stud, Rocker Shaft Bracket.....	215260	6
	Nut.....	208769	6
1-2-15	Rod, Push.....	215261	6
	Screw, Lock, Rocker Shaft, 5/16"-24 x 1 1/8".....	215262	4
	Shaft and Plug, Rocker.....	215263	1
	Spring, Shaft.....	215264	3
	1.754 - INTAKE VALVE AND ROCKER ARM COVER		
1-2-12	Cover (incl. Ignition Cables Bracket Stud).....	215265	1
	Stud.....	215266	2
	Gasket (or Oil Seal).....	215267	2
	Washer, 3/8" Med.....	GM-446363	2
	Nut, 5/16"-24 Hx.....	GM-121917	2
	Gasket.....	215272	1
1-2-8	Breather Cap.....	215268	1
	1.760 - CRANKCASE VENTILATION		
1-3-13	Body (on Valve Cover Plate).....	215269	1

*As Required

ENGINE

1

FIGURE NUMBER	GROUP PART NAME and DESCRIPTION	PART NUMBER	P E A R
	1.760 - CRANKCASE VENTILATION (CONT'D.)		
	Gasket.....	208885	1
	Baffle.....	215270	1
	Clip, Locating.....	215552	1