

PLYMOUTH Eight 1955

P-27-1 PLAZA (U.S.)
 P-27-3 SAVOY (U.S.)
 P-27-2 BELVEDERE (U.S. & CANADA)



A. E. A. TUNE UP SYSTEM



Standards of Adjustment Automotive Electric Association

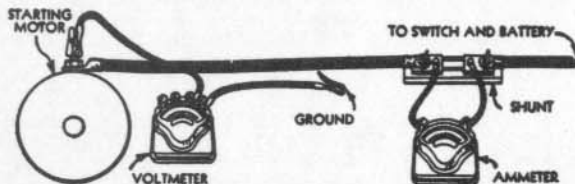
ISSUED JUNE 1955

FORM NO. PL-51

BATTERY

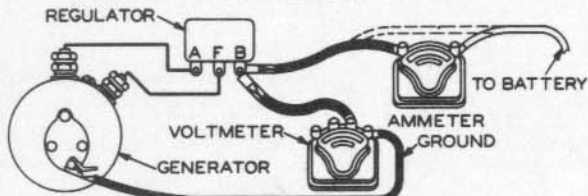
WILLARD - (U.S.)
 Type HDW-1-100 (Northern Area) 100 Amp. Hour (Northern)
 Type SW-1-90 (Southern Area) 90 Amp. Hour (Southern)
 (20 hr. rate)
 CHRYCO - (Canada) 105 Amp. Hour
 Positive terminal grounded

STARTING MOTOR



AUTO-LITE No. MCH-6206
 Bendix Drive - AUTO-LITE No. EBB-20; BENDIX No. A-3274
 FREE RUNNING SPEED - 4300 Min. R.P.M. 65 Max. Amps. 5.0 Volts
 LOCK TORQUE (Stalled) - 6.0 Min. Ft. Lbs. 335 Max. Amps. 2.0 Volts
 CONTROL - Starting Switch Part No. SST-4006
 Part No. SST-4013 (Power Flite Trans.)

GENERATOR



AUTO-LITE No. GGW-6012B (U.S.) GGW-6016E (Canada)
 No. GGW-6016A (Power steering)
 Brush Spring Tension - 35 - 53 oz. with new brushes
 MAXIMUM CONTROLLED OUTPUT:
 Hot - 45 Amps. 8.0 Volts at 2350-2550 R.P.M. Generator
 Cold - 45 Amps. 8.0 Volts at 1925-2125 R.P.M. Generator
 Rotation - Clockwise (viewing drive end)

GENERATOR REGULATOR

AUTO-LITE No. VBE-6001A (Early) VBE-6201A
 Cut-Out Relay - Armature air gap .031" to .034". Contact point gap .015" minimum. Contacts close 6.3 to 6.8 volts. Contacts open 4.1 to 4.8 volts from sealed position.
 Current Regulator - Armature air gap .048" - .052". Operating current - after 15 minutes operation at 10 amperes:

Temp. F.	40°	60°	70°	80°	100°
Amps.	54 max.	52 max.	51 max.	50 max.	48 max.

 Operating current - after additional 15 minutes operation at maximum output:

Amps.	46-50	44-48	43-47	42-46	40-44
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 Voltage Regulator - Armature air gap .048" - .052". Operating voltage while charging at 10 amps. (allowable variation ± .15 volts after 15 minutes operation 10 amperes):

Temp. F.	50°	60°	70°	80°	90°	100°	110°	120°
Volts	7.34	7.29	7.25	7.21	7.16	7.12	7.08	7.04

COMPRESSION

VALVE CLEARANCE - Hydraulic Valve Lifters
 VALVE TIMING - Inlet valves open at 14° before top dead center.

SPARK PLUGS

AUTO-LITE Type 45-165 Gap .035" Size 14mm.
 Use Round Wire Gauge

IGNITION COIL

AUTO-LITE No. CR-6012C Servicing Coil No. CR-6012C
 Mounting Bracket On Coil

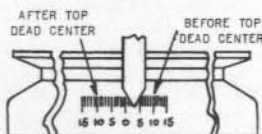
DISTRIBUTOR



AUTO-LITE -
 No. IAZ-4003C (Early) 241 cu. in. Engine
 No. IAZ-4003E (Late) 241 cu. in. Engine
 No. IAZ-4003G 260 cu. in. Engine
 Firing Order - 1-8-4-3-6-5-7-2
 Breaker Contact Gap - .017"
 Cam Angle - 34° ± 3°
 Breaker Contact Set - Part No. IGP-3028ZS
 Breaker Arm Spring Tension - 17 - 20 oz.
 Condenser - Part No. IBB-2015R
 Capacity - .25 - .28 Mfd.

Automatic Advance - (IAZ-4003C & E) Start 0° at 350 R.P.M.; Intermediate 5° at 450 R.P.M.; Maximum 18° at 1900 R.P.M. (IAZ-4003G) Start 0° at 350 R.P.M.; Intermediate 6.5° at 450 R.P.M.; Maximum 16° at 1650 R.P.M.
 Vacuum Control - No. IAZ-2023RA (IAZ-4003C Dist.) 5-1/4" hg. to start plunger travel; 11.5° distributor advance at 17" hg. max. No. IAZ-2023RB (IAZ-4003E Dist.) 5-1/4" hg. to start plunger travel; 7° distributor advance at 11" hg. max. No. IAZ-2023RC (IAZ-4003G Dist.) 5-1/4" hg. to start plunger travel; 4° maximum advance at 8-1/2" hg.

IGNITION TIMING



USE TIMING LIGHT -

Breaker contacts to open 4° before top dead center.
 Timing mark on vibration damper.

FUEL PUMP

AUTO-LITE - No. FB-4002 (Early)
 No. FB-4006
 Capacity - 1-1/2 pints or over in 1 minute.
 Pressure - 2-1/4 lbs. minimum; 2-3/4 lbs. maximum.

CARBURETOR

241 Cu. In. Engine
 260 Cu. In. Engine
 CARTER -
 No. 2141S 2259S, SA (Standard Trans.)
 No. 2154S 2260S, SA (Overdrive Trans.)
 No. 2155S 2261S, SA (Power Flite Trans.)
 Float Level - Distance from top surface of body casting to top of each float 7/32".
 Fixed Jets -

	241 Cu. In. Eng.	260 Cu. In. Eng.
Main Metering Jet - Std.	Part No. 120-2115	120-2135
Main Metering Jet - 1 lean	Part No. 120-2105	120-2125

 Climatic Control, set at index.
 Fast Idle Adjustment - Remove thermostatic coil housing assembly, gasket and baffle plate. With throttle adjusting screw backed out, crack throttle valve and hold choke valve in fully closed position. Then close throttle. This will allow fast idle cam to revolve to fast idle position. There should now be .009" - .013" (241 cu. in. engine),

CARBURETOR - Continued

.015" - .019" (260 Cu. in. engine) clearance between throttle valve and bore of carburetor (side opposite idle port).
 Pump Adjustment - Back out throttle adjustment screw and open choke valve so that throttle valves seat in bores of carburetor. Install throttle connector rod in outer hole (medium stroke) of throttle lever and outer hole of pump arm. The distance from the top of the bowl cover to top of plunger shaft (not pump arm) should be 58/65" (241 cu. in. engine), 1" (260 cu. in. engine).
 Unloader Adjustment - This adjustment must be made after the fast idle adjustment. Hold throttle valve wide open and close choke valve as far as possible, without forcing. There should now be 1/4" clearance between upper edge of choke valve and inner wall of air horn.
 Idle Engine Speed - (241 cu. in. engine) 1/2 to 1-1/2 turns open. Out to make rich. Idle at 450 - 500 R.P.M. in neutral. (260 cu. in. engine) 1/4 to 1-1/4 turns open. Out to make rich. Idle at 450 - 500 R.P.M. in neutral.

COOLING SYSTEM

Capacity - 19 Quarts (U.S. Measure)
 15 Quarts (Imperial Measure)
 Thermostat - Opens at 160° - 165° F. (U.S.)
 Opens at 157° - 162° F. (Canada)

WINDSHIELD WIPERS - HORNS

Windshield Wiper - AUTO-LITE -
 Service Motor No. EMU-4101 (single speed)
 Linkage (Driver side) No. EMU-1071L
 (Pass. side) No. EMU-1071R
 Service Motor No. EMZ-4001 (variable speed)
 Linkage (Driver side) No. EMZ-1071L
 (Pass. side) No. EMZ-1071R
 Pivot - Part No. EMU-1085
 Horns - AUTO-LITE -
 No. HAB-4701 Low pitch
 No. HAB-4702 High pitch
 Horn Relay - AUTO-LITE - No. RAF-4001

ADDITIONAL SPECIFICATIONS

Gauges - AUTO-LITE -
 Temperature Gauge - Dash Unit No. 13752A
 Motor Unit No. 13550A
 Oil Pressure Gauge - No. 13751A
 Gasoline Gauge - Dash Unit No. 13753A
 Tank Unit No. 13794A
 Dash Unit No. 13754A (Suburban)
 Tank Unit No. 13905A (Suburban)
 Ammeter - No. 13750A
 Speedometer - AUTO-LITE - No. 13739A
 Cable No. SPS-2181H - 62"
 No. SPS-2181J - 67" (Overdrive)
 Crankcase Capacity - 5 Quarts (U.S. Measure)
 4 Quarts (Imperial Measure)
 Recommended Tire Pressure -
 Cold - 26 lbs. front; 26 lbs. rear
 Ignition Lock - BRIGGS & STRATTON
 Key Series 1CB - 500CB
 Key Blank - Part No. 32546
 Lock - Part No. 600346
 SERIAL NUMBER - Left front door hinge post.
 15,663,001 and up - Detroit
 22,182,001 and up - Evansville
 26,524,001 and up - Los Angeles
 96,910,901 and up - (Canada)
 ENGINE NUMBER - On top of engine block.
 P-27-1001 and up - (U.S.)
 C-1001 and up - (Canada)