

PONTIAC Eight 1951

SERIES 27 (U.S.); SERIES 2700 (CANADA)

SERIAL NO. (SEE BELOW) U.S. & CANADA **



A. E. A. TUNE-UP SYSTEM



Standards of Adjustment Automotive Electric Association

ISSUED SEPTEMBER 1951

FORM NO. PD-42

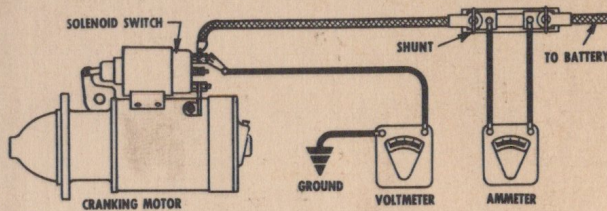
BATTERY AND CABLES

DELCO Type 15E (U.S.) PREST-O-LITE Type RM-15Z (Can.)
Capacity - 100 Amp. Hour (20 hr. rate) Negative Ground

CABLES - PACKARD

(U.S.) - Battery to Ground Cable - Length 14"; Gauge No. 4; Part No. 5L-16 or 5U-16. Battery to Switch Cable - Length 21-3/4"; Gauge No. 1; Part No. 1L-23 or 1U-23.
(Can.) - Battery to Ground Cable - Length 14-1/8"; Gauge No. 4; Part No. 5B37812. Battery to Switch Cable - Length 21-1/16"; Gauge No. 1; Part No. 5B37823.

STARTING MOTOR



DELCO-REMY No. 1107957

Drive - Overrunning Clutch No. DELCO-REMY 1873789

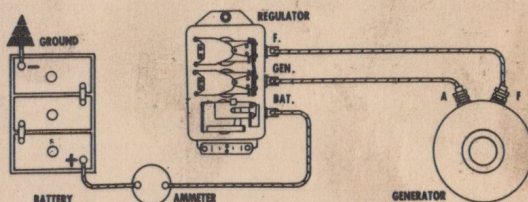
FREE RUNNING SPEED - 6000 R.P.M. 60 Amps. 5.0 Volts
LOCK TORQUE (STALLED) - 15 Ft. Lbs. 600 Amps. 3.0 Volts

CONTROLS - Solenoid Switch No. 1118140
Switch No. 1996045

The overrunning clutch drive pinion must be in proper relation to the solenoid switch. Adjust as follows: Remove pin connecting solenoid plunger linkage and motor shift lever, push solenoid plunger all the way forward. Take lash out of overrunning clutch by pressing back on clutch shell. Adjust solenoid plunger linkage by screwing in or out until the connecting pin removed above can be inserted at forward end of slot (in shift lever) with clutch pinion face 3/16" from inside of motor housing.



GENERATOR



DELCO-REMY No. 1102750 (U.S. and Canada)

No. 1102701 (Canada - Early)

Brush Spring Tension - (1102750) 28 oz.
(1102701) 25 oz.

Cold Output:
(1102750) - 40 Amps. 8.0 Volts at approximately 2150 R.P.M.
(1102701) - 30 Amps. 8.0 Volts at approximately 1900 R.P.M.
Rotation - Clockwise (viewing drive end)
Regulation - Current and Voltage Regulator

GENERATOR REGULATOR

DELCO-REMY No. 1118300 (1102750)
No. 1118301 (1102701)

Cut-Out Relay	Current Regulator	Voltage Regulator
Air Gap .020"	.075"	.075"
Point Opening .020"		
Checking Range 5.9-6.8 Volts	40-46 Amps. (1118300) 32-40 Amps. (1118301)	7.0-7.7 Volts
Adjusting Specs. 6.4 Volts	42 Amps. (1118300) 36 Amps. (1118301)	7.4 Volts

COMPRESSION - MANIFOLDS

MANIFOLD HEAT CONTROL - Automatic Non-Adjustable

VALVE CLEARANCE - Engine Hot - Intake - .011" - .013"
Exhaust - .011" - .013"

VALVE TIMING - Inlet valves open 5° before top dead center.
TAPPET LASH for checking valve timing: .015" (Cold).

SPARK PLUGS

AC Type 45 Gap .025" (U.S.) Size 14mm.
Gap .030" (Can.)
Use Round Wire Gauge

IGNITION COIL

DELCO-REMY No. 1115378 Servicing Coil No. 1115380
Oil Filled Type

HIGH TENSION CABLES

Ignition Cable Set - PACKARD No. 458-P (U.S.)
No. 5261886 (Can.)

DISTRIBUTOR

DELCO-REMY No. 1110818

Firing Order - 1-6-2-5-8-3-7-4
Breaker Contact Gap-.016" at 21°-30° Cam Angle
Breaker Contact Set Part No. 1871870
Breaker Arm Spring Tension - 19-23 oz.
Condenser - Part No. 1869704



Capacity - .18-.23 Mfd.
Automatic Advance - Start 1° at 250 R.P.M.;
Intermediate 7.5° at 1200 R.P.M., 8.25° at
1500 R.P.M.; Maximum 13.5° at 2100 R.P.M.

(Distributor degrees at distributor R.P.M. Tolerance
+ 0° - 2°)
Vacuum Control - No. 1116050 7"-9" hg. to start plunger travel;
10° distributor advance at 17.5"-19.5" hg.

IGNITION TIMING



Breaker points to open 6°
before top dead center.
Timing mark on harmonic
balancer.

FUEL PUMP

AC - Combination Fuel & Vacuum Pump Type 539
Capacity - 1 pint or over in 45 seconds
Pressure - 4 lbs. minimum; 4-3/4 lbs. maximum.
Vacuum Test - 8-1/2" hg. minimum at 120 R.P.M.;
12" hg. maximum at 1800 R.P.M.

AIR CLEANER

AC - No. 1544256 (Standard); No. 1551001 (Heavy Duty)

CARBURETOR

CARTER - Model WCD 719SA (Standard)

Model WCD 720SA (Hydra-Matic)

Float Level - Distance from seam of float (both sides at top center) to lower edge of bowl cover, when needle is seated to be 3/16".

Fixed Jets - Metering Rod - Standard Part No. 75-664
Metering Rod - 1 Size Lean Part No. 75-683
Metering Rod - 2 Sizes Lean Part No. 75-684
Metering Rod Jet Part No. 120-655

Fast Idle Adjustment - With choke valve tightly closed, tighten fast idle adjusting screw until there is .026" opening between throttle valve and bore of carburetor.

Metering Rod Adjustment - With vacuum piston link held down and gauge T109-163 inserted in place of rod, bend lip of metering rod arm to contact lug of piston link.

Pump Adjustment - "32" as indicated on gauge T109-117S (short stroke) or 20/64" from top of pump shaft to the top of the dust cover housing.

Unloader Adjustment - With throttle wide open there should be 1/8" clearance between upper edge of choke valve and inner wall of air horn.

Climatic Control - Set at center index.

Idle Engine Speed - 3/4 to 1-1/4 turns open. OUT: To make rich.
Do not idle engine below 450 - 475 R.P.M. (719SA); 370 - 380 R.P.M. (720SA).

COOLING SYSTEM

Capacity - 19-1/2 Quarts (U.S. Measure)

14-2/3 Quarts (Imperial Measure)

Thermostat - (U.S.) HARRISON No. 3126560. Opens at approximately 150° F. (Can.) HARRISON No. 3126590. Opens at approximately 170° F.

In water outlet elbow on cylinder head.

Pressure Cap - HARRISON No. 850549 7 lbs. pressure

WINDSHIELD WIPER - HORN

Windshield Wiper - TRICO - Service Motor No. CHM-10-9

Wiper Arm (Both sides) AL-150

Blade (Both sides) RB-11

Linkage (Driver side) G-82703-C

(Pass. side) G-82702-C

ADDITIONAL SPECIFICATIONS

Gauges - AC

Temperature Gauge - Dash Unit No. 1512287 (U.S.)

No. 1512363 (Can.)

Motor Unit No. 1512015

Oil Pressure Gauge - No. 1507535

Gasoline Gauge - Dash Unit No. 1517378

Tank Unit No. 1517411

Ammeter - No. 1501286

Speedometer - AC No. 1580822

Cable Type 641 - 56-1/8" (U.S.)

Crankcase Capacity - 5 Quarts (U.S. Measure)

4-1/4 Quarts (Imperial Measure)

Recommended Tire Pressure -

Cold - 24 lbs. front and rear

Ignition Lock - BRIGGS & STRATTON

Key Series 8000 - 9499

Key Blank Part No. 32318

Lock Part No. 85373

* Serial Number - (U.S.) Left front door corner post.

PBUH1001 and up (U.S.) Hydra-Matic Transmission

PBUS1001 and up (U.S.) Synchro-Mesh Transmission

Serial number is prefixed by letter indicating manufacturing

plant. P for Pontiac, Mich.; L for Linden, N. J., etc.

(Canada) Right front side of cowl under hood. 12569000001

Engine Number- (U.S.) Same as serial number.

(Canada) P-9401 and up

NOTE: The SYMBOL "hg. used on this chart designates "Inches Vacuum" (mercury).

Original equipment service parts and accurate work to manufacturers' specifications with proper tools and equipment will restore original performance.

