STUDEBAKER Eight 1955

COMMANDER & PRESIDENT



A.E.A. TUNE UP SYSTEM



Standards of Adjustment Automotive Electric Association

ISSUED JUNE 1955

FORM NO. SB-69

BATTERY AND CABLES

WILLARD Type HDW-1-100

Capacity - 100 Amp. Hour (20 hr. rate)

Positive terminal grounded

CABLES - PACKARD -

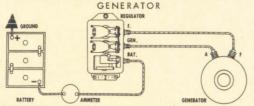
(President)

Battery to Ground Cable - Length 14"; Part No. 5L-14 or 5U-14. Battery to Switch Cable - Length 12"; Part No. 1L-12 or 1U-12. (Commander)

Battery to Ground Cable - Length - 23"; Part No. 1L-23 or 1U-23. Battery to Switch Cable - Length 19"; Part No. 1L-19 or 1U-19.

STARTING MOTOR STARTING TO SWITCH AND BATTERY-SHUNT GROUND O

DELCO-REMY No. 1107115 (Standard Transmission) No. 1107116 (Automatic Transmission)
Bendix Drive - DELCO-REMY No. 1922266; BENDIX No. A-3281 FREE RUNNING SPEED - 5500 R.P.M. 70 Amps. 5.65 Volts LOCK TORQUE (Stalled) - 11 ft. lbs. 550 Amps. 3.25 Volts



DELCO-REMY No. 1102778 Brush Spring Tension - 28 oz.

45 Amps. 8.0 Volts at approximately 2450 R.P.M. of Generator Rotation - Clockwise (viewing drive end)

GENERATOR REGULATOR

DELCO-REMY No. 1118950

Voltage Regulator Cut-Out Relay Current Regulator .020" Air Gap .075" Point Opening .020" Adjusting Specs 5.9-6.7 Volts* 42-47 Amps.* 6.9-7.4 Volts* * At 125° F. regulator ambient temperature.

COMPRESSION

VALVE CLEARANCE - Engine Cold - Intake - .025" - .027" Exhaust - .025" - .027"

Engine Hot - Intake - .023" - .025"

Exhaust - .023" - .025"

VALVE TIMING - Inlet valves open 19 before top dead center (Commander) open 11 before top dead center (President). TAPPET LASH for timing: .030" (Cold)

SPARK PLUGS

CHAMPION Type H-11

Gap .035"

Size 14mm.

Use Round Wire Gauge

IGNITION COIL

DELCO-REMY No. 1115392

Servicing Coil No. 1115380

Mounting Bracket No. 1909326

HIGH TENSION CABLES

Ignition Cable Set - PACKARD No. 448-F

DISTRIBUTOR

DELCO-REMY No. 1110839

Firing Order - 1-8-4-3-6-5-7-2 Breaker Contact Gap .013" at 28° - 34° Cam Angle Breaker Contact Set Part No. 1918148 Breaker Arm Spring Tension - 19 - 23 oz. Condenser - Part No. 1869704 Capacity - .18 - .23 Mfds. Automatic Advance - Start .5 - 2.5 a

400 R.P.M.; Maximum 15° - 17° at 1450 R.P.M.

(Distributor degrees at 150° - 17° at 1450 R.P.M.

Vacuum Control - No. 1116058 4" - 6" hg. to start plunger travel;

IGNITION TIMING



USE TIMING LIGHT -Breaker points to open 80 before top dead center (Commander); 40 before top dead center (President). Timing mark on

vibration damper.

FUEL PUMP

AC Type 9647 Series CC Capacity - 1 pint or over in 45 seconds Pressure - 4 lbs. minimum; 5 lbs. maximum

CARBURETOR

STROMBERG - WW 380334, 380401 (For Commander with Auto, Trans.) Fuel Level - 5/8" below top surface of float chamber (without gasket) at 3-1/2 to 5 lbs. pressure (380334); at 4 lbs. pressure (380401). Float Level - 3/16" from top of main body to top of float without gasket, as measured at center of float.

Fixed Jets - Main Metering Jet (380334) Part No. 386272 .050" (380401) Part No. 386272 .048" Part No. P-24674 #60 Power By-Pass Jet

Fast Idle Setting - With button of slow idle adjusting screw resting on high step of fast idle cam and light closing pressure applied to choke valve, the choke valve should be open sufficiently to insert .135" - .105" drill gauge between choke valve and wall of air horn.

Wide Open Kick Setting - Apply light closing pressure to choke valve and then open throttle to wide open position with throttle lever stop resting against throttle body stop. In this position the choke valve opening should be sufficient to insert .265" - .203" drill gauge between choke valve and wall of air horn.

Automatic Choke Setting - Set "^" mark on thermostat cover to line up with raised projection on housing.

CARTER - 22195, SA, 2330S (Standard Trans. or Overdrive) 2214S, SA (President with Automatic Transmission)

Float Level - Vertical distance between top of float and machined surface of casting must be 3/16" for both primary and secondary floats. Fixed Jets - Metering Rod, Standard (2219S, SA, 2214S, SA)

Part No. 75-114 (23305) Part No. 75-1154 Primary Metering Rod Jet Secondary Metering Jet Part No. 120-159 Part No. 120-196

CARBURETOR - Continued

Pump Adjustment - Install pump connector link in outer hole of pump arm with ends extending outward toward countershaft arm. Back out throttle lever set screw until throttle valves seat in bores of carburetor. Hold straight edge across top of dust cover boss at pump arm. Flat on top of pump arm should be parallel to straight edge.

Metering Rod Adjustment - Back out throttle lever set screw to allow throttle valves to seat in bores of carburetor and loosen metering rod arm clamp screw. With metering rods in place, press down on vacumeter link until metering rods bottom in carburetor body casting. Holding rods in downward position and throttle valves seated revolve metering rod arm until finger on arm contacts lip of vacumeter link.

Fast Idle Adjustment - Loosen choke lever clamp screw on choke shaft. Insert .020" feeler gauge between lip of fast idle cam and boss of flange casting. Hold choke valve tightly closed and take slack out of linkage by pressing choke lever toward closed position. Hold in place and tighten clamp screw. With choke valve tightly closed, tighten fast idle adjusting screw until there is .024" opening between throttle valve and bore of carburetor, side opposite idle ports.

Unloader Adjustment - With throttle wide open there should be 1/8" clearance between lower edge of choke valve and inner wall of air horn. Idle Engine Speed - 1/2 to 1-1/2 turns open. Do not idle engine below

COOLING SYSTEM

Capacity - 17-1/4 Quarts without heater (U.S. Measure) 14.4 Quarts without heater (Imperial Measure)

Thermostat - In water outlet. Opens at 157° - 162° F.

WINDSHIELD WIPER

Windshield Wiper - TRICO -Blade (Both sides) RB-11 Wiper Arm (Both sides) AL-150 Linkage (Both sides) H-87820-1

ADDITIONAL SPECIFICATIONS

Gauges - STEWART-WARNER Temperature Gauge - Dash Unit No. 442427 Motor Unit No. 362-K

Oil Pressure Gauge - Dash Unit No. 444469 Gasoline Gauge - Dash Unit No. 441159 Tank Unit No. 383-N or 383-B

Ammeter - No. 440274 Speedometer - STEWART-WARNER No. 565-CV (Commander) No. 565-CX (President)

Crankcase Capacity - 6 Quarts (U.S. Measure), 5 Quarts (Imperial Measure) Recommended Tire Pressure -

Cold - 26 lbs. front; 22 lbs. rear Station Wagon - 26 lbs. front; 24 lbs. rear Ignition Lock - HURD

Key Series HH000 - HH999 Key Blank No. Ignition Lock No.

Serial Number - On left front door hinge post. Commander - 8380601 and up (South Bend)

884 1201 and up (Los Angeles) 8957601 and up (Canada)

President - 7150001 and up (South Bend) 7805001 and up (Los Angeles)
7900001 and up (Canada)
Engine Number - On upper left front of cylinder block.

Commander - V-312701 and up (South Bend)

VL-101 and up (Los Angeles) VC-5701 and up (Canada)
President - P-101 and up (South Bend)

PL-101 and up (Los Angles) PC-101 andup (Canada)