SPECIAL SERVICE NOTES: Engine Installation—Complete engine and drive unit (including steering gear) mounted on separate sub-assembly which is bolted to main body side members at engine cowl.

Supercharged Model-This model has special Carburetor, Distributor (requires synchronization),

Valve Timing and Ignition Setting.

CORD 1936-37

Rotation-Crankshaft rotation counter-clockwise or opposite direction from conventional (occasioned by reversal of engine).

MODEL IDENTIFICATION

SERIAL NUMBER: First number 1101 (1936). Stamped on Service Motor Plate on right side of cowl under engine hood.

ENGINE NUMBER: First number FB-100 (1936). Stamped on left side of engine block at front end.

TUNE-UP

COMPRESSION: Ratio-6.5-1 (1936), 6.32-1 (1937) Std. Aluminum Heads.

Pressure-110 lbs. at cranking speed of 130 R.P.M. VACUUM READING:-18-20" steady reading with engine idling at 6 M.P.H.

FIRING ORDER: 4L-2L-2R-1R-3R-4R-1L-3L (Std.), 1L-3L-3R-2L-2R-1R-4L-4R (Schgd. 812) with cylinder banks right 'R' and left 'L' as viewed from drivers seat and #1 cylinder at front or flywheel

SPARK PLUGS: Champion Type J9B. 14 mm. Metric Gaps-.025" (Std. 810, 812), .028" (Schgd. 812).

IGNITION: See Coil, Condenser, and Distributor. Breaker Gap (810, 812)—.017". (Schgd. 812) .020". Cam Angle (810, 812)—27.5*. (Schgd. 812) 36°. Breaker Arm Spring Tension—17-20 ounces. Synchronization (Schgd. 812)—Movable contacts open 45° (distr.) after fixed set. Automatic Advance—See Distributor.

IGNITION TIMING: See Ignition Timing. Std. Setting—5° BTDC (Std. 810, 812), 2° BTDC (Schgd. 812) with point on flywheel 2 teeth (Std. 810, 812), 1 (Schgd. 812) before dead center mark "4L" at pointer in inspection hole on right side of housing, NOTE—On Schgd. 812, contacts open alternately at 45-45° (distr.) intervals.

CARBURETION: See Carburetor & Carb. Equipment. Idle Setting—Both idle screws midway between "miss" and "roll" points. Idle speed 500 RPM or 6 MPH.

Float Level—Fuel level 15/32" (EE-15), 5%" (AA-25) below top edge of bowl.

Accelerating Pump-Not adjustable.

Fuel Pump Pressure: 41/4 lbs. maximum.

VALVES: See Valve Timing.

Tappet Clearance-..008" all valves (Std. 810, 812), .008-.010" all valves (Schgd. 812) with Engine cold. NOTE-Carburetor and intake manifold must be removed to get at valves (manifold serves as cover for valve chamber). Tappet adjusting screw located on upper end of rocker arms.

STARTING: See Battery, Starter, Generator, Regulator.

IGNITION

Ignition Switch:-Mitchellock Model 16-S No. 6679. Connected to coil by armored cable. Switch has two "on" positions, Right Startix On, Left Startix Off. Ignition Lock—Yale & Towne No. 9366. Mitchell No. 6622.

COIL: Auto-Lite Model CE-4620. Service Coil (less Switch & Cable) CE-3224JS.

Ignition Current-3 amperes idling, 41/2-51/2 stopped.

CONDENSER: Auto-Lite Part No. IG-2671 (Std. 810, 812-IGP distr.), IGB-1025C (Schgd. 812-IGH

Capacity-20-.25 microfarad.

DISTRIBUTOR (STD. 810, 812): Auto-Lite Model IGP-4006. Single breaker, 8 lobe cam, full automatic advance type. No synchronization required.

Breaker Gap—Set at .017". Cam Angle or Dwell—27.5° closed, 17.5° open. Breaker Arm Spring Tension—18-20 ounces.

Automatic Advance-IGP-4006 Distributor R.P.M. Degrees R.P.M. Degrees Start. 300 600 2.5 600 1200 900 1800 1200 15. 2400 .1500 10. 20. .3000

Removal:—Distributor mounted between cylinder banks at forward end of engine. To remove, take out hold-down screw in advance arm.

DISTRIBUTOR (SCHGD. 812): Auto-Lite Model IGH-4028. Double breaker, 4 lobe cam, full automatic advance type. Must be synchronized.

Firing Interval—Contacts open alternately at regular 45° intervals corresponding to 90° firing intervals of the engine. See Ignition Timing for synchronization instructions.

Breaker Gap-Set at .020" (both sets equal).

Cam Angle or Dwell-36° closed, 9° open for both sets operating together when correctly synchronized.

Breaker Arm Spring Tension-16-20 ounces.

Automatic Advance—IGH-4028 Distributor Engine

Degrees R.P.M. R.P.M. Degrees Start. 300 600 1800 .3600

Removal:—Same as for IGP-4006 above. STOP LIGHT BEAM CONTROL SWITCH -RED & YELLOW TRACER WHITE GREEN CLUTCH PEDAL TANK UNIT CIRCUIT BREAKER (Bellin **(E) 1** INSTRUMENT LAMP SWITCH FBLACK-2 GNITION COL TRANSMISSION CONTROL SEE SEPARAT ARTICLE) STARTIX 1936 MODELS