

JORDAN

MODEL A—GREAT LINE EIGHT (1924-25-26) AMERICAN BOSCH GENERATING, STARTING AND LIGHTING SYSTEM AMERICAN BOSCH IGNITION

BATTERY.—Willard, Type CRR-19. 6 volt, 135 ampere hour. Starting capacity is 145 amperes for 20 minutes. Lighting capacity is 5 amperes for 26 hours. The negative (—) terminal is grounded.

IGNITION:—Coil Model TC-30. Distributor Model T-8202. Breaker contacts separate .014 to .016 inch. They are made of tungsten. When the condition of the contacts affects the ignition, remove and resurface on a medium hard oilstone.

Oiling:—Fill the oiler on the side of the distributor housing with light engine oil once each month or every 1000 miles, if the car is driven more than 1000 miles in a month. Put one drop of oil on the interrupter lever pivot and place a small bit of grease on the interrupter cam under the fibre bumper every three months.

Timing:—Breaker contacts begin to separate when the piston entering power stroke reaches top dead center with the manual spark control lever in the half advanced position.

Firing Order:—The firing order is 1-6-2-5-8-3-7-4.

Spark Plugs:—Spark plugs diameters are $\frac{7}{8}$ inch. Gaps are .025 inch.

STARTER:—Model No. 937. Starter is connected to the engine through a Bendix drive. The direction of rotation is counter-clockwise, looking at the commutator end. Starter cranks the engine at 93 R.P.M.

Starter Data.

Torque.	R.P.M.	Volts.	Amperes.
0 lb. ft.	2000	6	60
22 "	Lock	3.5	500

Oiling:—Oilless bearings are used. They require no attention.

GENERATOR:—Model No. 1261. The direction of rotation is counter-clockwise, looking at the commutator end. The third brush system is used for current regulation. To adjust the generator output, remove the end-plate and loosen the slotted hexagon head screw which holds the third brush plate in position. Then move the third brush in a counter-clockwise direction (toward the engine) to increase the charging rate and in the opposite direction to decrease the charging rate. The maximum charging rate of 16-18 amperes (cold) is reached at 1300 R.P.M. of the generator armature or 23 M.P.H.

Generator Data.

Cold Test.			Hot Test.		
Amperes.	Volts.	R.P.M.	Amperes.	Volts.	R.P.M.
0	6.75	550	0	6.5	625
7	7.	700	2.5	6.5	700
12	7.6	850	8	7.5	900
17	8.	1300	13	8.	1300
12.6	8.	2000	11	8.	2000
9.5	7.6	2800	9	7.	2800

Motoring freely the generator takes 6 amperes at 6 to 6.5 volts. The shunt field draws 6.1 to 6.8 amperes at 6 volts.

Oiling:—Put 4 or 5 drops of light engine oil in each of the generator bearing oilers every month, or each 1000 miles if the car is driven more than 1000 miles in a month.

RELAY:—Relay is mounted on top of the generator. Relay closes at 500-600 R.P.M. when the generator voltage reaches 6.5 to 7.5 volts and opens at 400-500 R.P.M. with a discharge current of 0 to 3 amperes. Relay contacts separate .015 inch. Air gap between relay armature and coil core is .010 inch, contacts closed. Clean relay contacts by drawing well worn No. 00 sandpaper between them. Remove all grit and adjust before again putting into service.

LIGHTING.—Head and stop lamps are each 6-8 volt, 21 cp. S. C. Dimmer lamps are 6-8 volt, 6 cp. S. C. Dash and tail lamps are each 6-8 volt, 2 cp. S. C. A vibrating circuit breaker protects all lighting circuits and horn circuit. The ignition current does not pass through the circuit breaker.

FUSES:—Generator field fuse is 7.5 ampere capacity.

