

HAYNES

MODEL 57 (1923)

LEECE-NEVILLE GENERATING, STARTING AND LIGHTING SYSTEM KINGSTON IGNITION

BATTERY.—Prest-O-Lite, Type 615-SHC, 6-8 volts, 125 ampere-hours. The positive (+) terminal is grounded.

IGNITION.—Coil Model No. 68. Distributor Model No. 42. Breaker contacts separate .020 inch. They are made of tungsten. When the condition of the contacts affects the ignition, remove and resurface on a hard oilstone.

Oiling.—Put 5 or 6 drops of light engine oil into distributor oilers every two weeks. If car is driven over 500 miles in two weeks, these attentions must be given once every 500 miles.

Timing.—Breaker contacts just opens when piston No. 1 is slightly past top center on power stroke, when marking "Inlet Open" on flywheel indicator, and spark control lever and breaker assembly is fully retarded.

Firing Order.—The firing order is 1, 4, 2, 6, 3, 5.

Spark Plug Gaps.—Spark plug gaps separate .025 inch.

STARTER.—Model No. 448-M. The direction is rotation, looking at commutator end, is clockwise. Cranks the engine at 1100 R.P.M., requiring 300 amperes.

Starter Test Data		
Torque	R.P.M.	Amperes
2 ft. lbs.	2050	150
4 ft. lbs.	1350	240
6 ft. lbs.	920	330
8 ft. lbs.	700	390
20 ft. lbs.	0 (Stalled)	750

Brush tension on all brushes is 2½ to 3 lbs.

Oiling.—No oiling is required for this starter.

GENERATOR.—Model No. 474-G. The direction of rotation looking at commutator end is counter-clockwise. The third brush system is used to regulate the current. The maximum charging rate is 15 amperes, reached at 1200 R.P.M. of armature.

Generator Test Data					
Amperes	Hot Test	R.P.M.	Amperes	Cold Test	R.P.M.
0		430	0		430
5		620	5		550
10		800	10		660
15		1200	15		840
12		1800	18		1200
			15		1600

Brush tension—Main brushes, 2 to 2½ lbs. Third brush—2 lbs.

Oiling.—Put 5 or 6 drops of light engine oil into generator oilers every two weeks. If car is driven over 500 miles in two weeks, these attentions must be given every 500 miles.

RELAY.—Leece-Neville, Model No. 13-CC-6. Relay closes at 7 miles per hour, or 450 R.P.M. of armature, and opens at 7 miles per hour. Relay contacts separate 1/16 inch, air gap between regulator, armature and coil core is 1/64 inch, when contacts are closed.

LAMPS.—Head lamps are 6-8 volts, 21 cp. Dimmer lamps are 6-8 volts, 6 cp. Dash lamps are 6-8 volts, 2 cp. Tail lamps are 6-8 volts, 2 cp. Stop light, 6-8 volt, 21 cp.

FUSES.—Only one generator field fuse used in car.

