ENGINE ELECTRICAL

GENERAL DESCRIPTION

The 12 volt electrical system, used on 1955 cars, is basically the same as that used on 1954 cars with the exception of minor changes in spark plugs and distributor advance curves to make the ignition system compatible with the new higher compression engine.

Type 44-5 spark plugs are installed as original equipment on 1955 standard Cadillac engines, while 43-5 spark plugs are installed on Eldorado engines. For owners who drive at higher speeds on long trips, the cooler type 43-5 spark plug is recommended for the standard 1955 engine. Under no circumstances, however, should a 46-5 spark plug be used in a 1955 engine.

Service procedures for this section remain the same as those outlined in the 1954 Shop Manual.

NOTE: When checking and setting the ignition timing on 1955 engines, it is very important that the vacuum pipe to the distributor be disconnected. This will eliminate the possibility of an inaccurate setting due to mispositioned vacuum holes in the carburetor throttle body or poorly seating throttle valves which could expose the vacuum diaphragm to manifold vacuum. Check the timing after connecting the vacuum line. If timing is advanced, check carburetor.

SPECIFICATIONS

DISTRIBUTOR TEST INFORMATION

Centrifugal Advance				Vacuum Advance		
Engine Speed R.P.M.	Engine Spark	Distr. Speed	Distr. Spark	Vacuum-Inches of Mercury	Distributor Degrees	Engine Degrees
K.F.IVI.	Advance	R.P.M.	Advance	6	0	0
800	0	400	0	10	2.5- 5.5	5-11
1,200	2-5	600	1- 2.5	12	6.5-10.0	13-20
1,600	6.75- 9.75	800	3.5 - 5	14	10.0-13.5	20-27
2,000	11 -14.5	1.000	5.5 - 7.25	16	13.0-14.5	26-29
2,400	15.5 -19.25	1,200	7.75- 9.75	17	13.0-14.5	26-29
3,200	18.5 -22.5	1,600	9.25-11.25	NOTE: Advance s	tarts at 6.5" to 8.5	5" mercury
4,000	21.5 -25.5	2,000	10.75-12.75	Maximum advance is	13°-14.5° at 15"-10	5" mercury.

15 15 DEGREES 13 12 14 VACUUM ADVANCE -- DISTRIBUTOR DEGREES 13 12 AUTOMATIC ADVANCE - DISTRIBUTOR 11 10 9 8 7 6 5 4 3 2 4 8 12 16 20 24 32 36 40 6 8 10 12 14 16 18 20 ENGINE RPM (IN HUNDREDS) VACUUM - INCHES OF MERCURY

ENGINE ELECTRICAL

SPECIFICATIONS (Cont'd)

Subject and Remarks All Series	Subject and Remarks All Series
IGNITION	*Current setting in amperes
Coil, amperes draw, engine running 1.25A Coil, Delco-Remy type number 1115082 Distributor, Delco-Remy type number	Range
Vacuum advance	Voltage regulator Air gap
Spark plugs - Standard Engine A.C. type number	Range
Gap	*At operating temperature after 15 minutes running with 8 to 10 amps. current flow through regulator.
Gap	STARTING MOTOR Delco-Remy type number
Delco-Remy type number	Commutator out-of-round, not over005" Bearings Commutator end Oilless Bushing
GENERATOR	No center bearing Drive end Oilless Bushing
Delco-Remy type number	Lock Amperage 460 Lock torque, in ft. lbs 11.5 Lock voltage 5.2 Gear ratio 19.5-1 No load RPM 6500 Amperage 75 Volts 10.3 Brush spring tension 30-40 Solenoid switch 9ull in coil 44 amps. at 13.5 volts Hold in coil 19 amps. at 14.0 volts
Amperes 0 Volts 12.8 Given Speed Engine RPM 1000 Amperes 30 Volts 14.0	BATTERY Capacity, ampere hours 55-62,608,75
GENERATOR REGULATOR	55-62,60\$,75
Delco-Remy type number	Plates, number of 55-62,60S,75