

GROUP 10

ELECTRICAL SYSTEMS

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SECTION 10-A

ELECTRICAL SPECIFICATIONS

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10-1 BATTERY SPECIFICATIONS

Make	Delco-Remy
Model	562
Cat. No.	562
Location Under Hood	L.F. Fender Skirt
Terminal Grounded	Negative
Voltage	12
Capacity—Wet (Amp. Hrs. @ 20 Hr. Rate)	70
Number of Cells & Plates/Cell	6,11
Specific Gravity, Full Charge @ 80° F.	1.260 to 1.280
Bench Charging Rate, Start	5 Amps.
Bench Charging Rate, Finish	2 Amps.
Separators	Porous Rubber
Case	Hard Rubber
Dimensions	13 ¹ / ₁₆ " x 6 ¹⁷ / ₆₄ " x 8 ¹³ / ₁₆ "

10-2 GENERATING SYSTEM SPECIFICATIONS

a. Generator

	Standard	Air Condition
Make and Type	←————— Delco-Remy, Shunt —————→	
Number	1102147	1102138
Location, Side of Engine	←————— Right —————→	
Drive and Rotation (Viewing Drive End)	←————— Fan Belt, Clockwise —————→	
Speed Ratio, Generator to Engine	2.40 to 1	2.82 to 1
Brush, Spring Tension, ounces	←————— 26-32 —————→	
Field Current Draw (Amps.) @ 80°F at 12 Volts	1.69 to 1.79	2.66 to 2.86
Bench Test (Amps.) Cold at 14 Volts and 2630 Generator RPM	35	45

10-2 SPECIFICATIONS

ELECTRICAL SYSTEMS

b. Generator Regulator

	Standard	Delco-Remy	Air Condition
Make		Delco-Remy	
Number (Including Fuse)	1119242		1119617
Fuse Rating, Amperes	40		50
Cutout Relay Closing Voltage	12 to 13.5		12 to 13
Adjust to	12.8		12.5
Cutout Relay Opening Current		Reverse or Discharge	
Cutout Relay Air Gap Points Closed		.020"	
Cutout Relay Contact Point Opening		.020"	
Current Regulator Air Gap, Points Just Touching		.075"	
Current Regulator Setting @ 1500 Eng. RPM (After 15 Min. Warm-Up)		See Chart on Page 10-31	
Voltage Regulator Air Gap, Points Just Touching	.075"		.067"
Voltage Regulator Upper Contact Point Opening	None		.016"
Voltage Regulator Setting @ 2000 Eng. RPM (After 15 Min. Warm-Up)		See Chart on Page 10-31	

10-3 CRANKING (STARTER) SYSTEM SPECIFICATIONS

a. Cranking Motor

	364 Engine	401 Engine
Make		Delco-Remy
Number	1107724	1107739
Location, Side of Engine		Left
Type of Shift		Mechanical—Electrically Controlled
Shift Actuation		Solenoid
Shift Operation		Accelerator Pedal
Type of Drive		Overrunning Clutch
Rotation, Viewing Drive End		Clockwise
Gear Ratio, Motor to Engine		18.4 to 1
No. Teeth on Ring Gear and Drive Pinion		166, 9
Cranking Speed, Engine RPM (at Operating Temperature)		160
No Load Test		
Amperes	65 to 100	80 to 120
Volts		10.6
R.P.M.	3600 to 5100	4700 to 5400
Locked Armature Test		
Amperes	300 to 360	290 to 370
Volt	3.5	2.0
Brush Spring Tension—Ounces		35 min.
Armature End Play		.005" to .050"
Pinion Clearance in Cranking Position		.010" to .140"

b. Solenoid Switch and Relay

	364 Engine	401 Engine
Make		Delco-Remy
Solenoid Switch Number	1118816	1114252
Current Draw of Solenoid Windings @ 80°F.		
Hold-in Winding, Amps. @ 10 Volts	10-12	15.5-17.5
Both Windings in Parallel, Amps. @ 10 Volts	40-45	47-54
Voltage Required for Solenoid Switch Pull-In @ 80°F.	7.2 Max.	
Relay Number		1116963
Air Gap—Points Closed		.011"
Point Opening		.020"-.030"
Closing Voltage		3.8 to 5.0
Adjust to		4.4
Sealing Voltage, Max. Above Closing Voltage		0 to .2
Opening Voltage, Min.		.6

10-4 IGNITION SYSTEM SPECIFICATIONS

a. Ignition Coil and Resistor

	Delco-Remy
Make	Delco-Remy
Coil Number	1115100
Current Draw, Amperes:	
Engine Stopped	4.5
Engine Idling	2.5
Coil Resistance (Ohms) @ 80°F.	
Primary	1.28 to 1.42
Secondary	7200 to 9500
Resistor Number	1931614
Resistance, Ohms @ 80°F.	1.40 to 1.62

b. Spark Plugs

Make and Model.....	AC 44S
Thread and Shell Hex. Sizes.....	14MM, 13/16"
Gap at Points.....	.035"
Terminal Nut Length.....	3/8"
Tightening Torque (ft. lbs.).....	25

c. Distributor

	Auto. Trans.	Delco-Remy	Syn. Trans.
Make.....		1110936	1110949
Number (Less Cap).....			
Drive.....		From Camshaft	
Rotation, Top View.....		Clockwise	
Timing, Crankshaft Degrees Before U.D.C.....	12		5
Spark Advance—Crankshaft Degrees (In Addition to Initial Timing Advance)			
Vacuum, Max.....	18.5-21.5		18-21
Centrifugal, Max.....	12-16		24-29
Vacuum Control Number.....	1116151		1116106
Vacuum Advance Test, Inches of Vacuum			
Vacuum Needed to Start Advance.....	8-10		6.5-8.5
Vacuum Needed for Max. Advance.....	13-15		12-14
Centrifugal Advance Test, Dist. Degrees and RPM (1/2 Eng. Degrees and RPM)			
Start Advance.....	450 to 800 RPM		225 to 400 RPM
Medium Advance—1000 RPM.....	1° to 3°		5° to 7°
Maximum Advance—1900 RPM.....	6° to 8°		12° to 14.5°
Contact Point Opening.....		.0125" to .0175"	
Contact Point Dwell Angle.....		28° to 32°	
Adjust to.....		30°	
Breaker Arm Spring Tension, at Side of Point, Ounces.....		19 to 23	
Condenser Make and Capacity (Microfarads).....		Delco-Remy, .18 to .23	

10-5 LIGHTING SYSTEM SPECIFICATIONS

a. Lamps, Switches, Wiring

Headlamp Make and Type.....	Guide, Dual T-3 Sealed Beam
Headlamp Lens Diameter.....	5 3/4"
Tail, Stop, Parking, Signal Lamps, Make.....	Guide
Lighting Switch, Make.....	Delco-Remy
Wiring Circuit Type.....	Single Wire
Wiring Circuit Protection for Head and Front Parking Lights.....	Thermo Circuit Breaker
Thermo Circuit Breaker Location.....	In Lighting Switch
Thermo Circuit Breaker Calibration @ 75°F.	
Stay Closed Indefinitely @ Amps.....	15
Open Within 60 Seconds @ Amps.....	26

b. Fuses and Circuit Breakers

NOTE: Unless otherwise specified, all fuses are mounted on fuse block under cowl.

Back-Up Lights.....	10 Amp. AGC
Clock.....	2 Amp. AGA
Direction Signal and Stop Lights.....	10 Amp. AGC
Dome Light, Trunk Compartment Light and Rear Cigar Lighter.....	20 Amp. SFE
Glove Box and Map Light.....	5 Amp. AGC
Heater, Defroster, Air Conditioner Blower and Compressor Clutch.....	20 Amp. SFE
Instrument Lights and Rheostat.....	5 Amp. AGC
Radio (Portable Only).....	4 Amp. AGW
Radio (Except Portable).....	7.5 Amp. SFE
Speedometer Warning Buzzer and Parking Brake Warning Light.....	5 Amp. AGC
Tail Lights, License Light, and Instrument Lights.....	10 Amp. AGC
Wiper and Washer Motor.....	25 Amp. AGC
Antenna Motor.....	15 Amp. AGC
Location.....	In Wiring Connector Near Switch
Cigar Lighter.....	Special
Location.....	In Back of Lighter
Headlights and Front Parking Lights.....	15 Amp. Circuit Breaker
Location.....	In Lighting Switch
Power Windows, Seat, and Top.....	40 Amp. Circuit Breaker
Location.....	Left Shroud Panel
	plus Circuit Breaker in Each Motor

c. Lamp Bulbs

Ash Tray	53; 1 CP
Back-Up	1073; 32 CP
Clock Dial	57; 2 CP
Dome	1004; 15 CP
Direction Signal Indicator	53; 1 CP
Dynaflow Selector Dial	57; 2 CP
Glove Box	57; 2 CP
Headlamp High Beam Indicator	53; 1 CP
Headlamp Sealed Beam Unit, Type 1	4001; 37.5 Watt
Headlamp Sealed Beam Unit, Type 2	4002; 37.5-50 Watt
Heater or Air Conditioner Control Dial	57; 2 CP
Instrument Dials	57; 2 CP
License Plate, Rear	67; 3 CP
Light Switch Escutcheon	57; 2 CP
Map Light	90; 6 CP
Parking Brake Warning Signal	57; 2 CP
Parking and Dir. Signal, Front	1034; 32-4 CP
Radio Dial	1891; 2 CP
Side Rail or Arm Rest, Rear	90; 6 CP
Tail, Stop and Direction Signal, Rear	1034; 32-4 CP
Trunk Compartment	89; 6 CP

10-6 SIGNAL SYSTEMS SPECIFICATIONS

Stop Light Switch—Type	Hydraulic
Stop Light Switch Location	Left Frame Rail
Direction Signal Switch—Make	Delco-Remy
Direction Signal Flasher—Make	Tungsol
Lamp Bulbs—Mazda No. and Power	See Par. 10-5, c
Direction Signal and Stop Light Fuse	See Par. 10-5, b
Horn—Make and Type	Delco-Remy, Vibrator
Horn Number, High Note (Upper Location)	9000420
Low Note (Lower Location)	9000419
Horn Amperage Draw at 12 Volts (Either Horn)	7 to 11
Horn Relay and Junction Block Number	1116965 or 1189107
Horn Relay Adjustment	
Closing Voltage	5.0 to 9.5
Adjust to	6.5
Speed Warning Buzzer Number	1116937
Point Opening020-.025"
Amperage Draw @ 13.5-14.5 Volts04-.06
Air Conditioner Relay Number	1116956
Point Opening020"- .030"
Opening Voltage	4.0-5.0