

Section V

COOLING SYSTEM

DATA AND SPECIFICATIONS

MODELS	MC-1, MC-2, MC-3, MY-1	
COOLING		
Type.....	Pressure Vent	
Capacity		
With Heater.....	17 qts.	
Without Heater.....	16 qts.	
Radiator Cap Relief		
Valve Pressure—psi.....	14	
With Air Conditioning—psi.....	16	
WATER PUMP		
Type.....	Centrifugal	
Bearing Type.....	Ball Bearing	
THERMOSTAT		
Type.....	Choke (Permanent By-Pass)	
Starts to Open (up to).....	177° to 182° F.	
Fully Open.....	202° F.	
FAN BELT		
Number Used (Standard Steering).....	One	
Power Steering.....	Two	
Type.....	V	
Tension.....	See Accessory Belt Drive, Section IV	
FAN		
Number of Blades.....	*Four	
Diameter.....	18 inches	
MC-3, MY-1 with Air Conditioning.....	18½ inches	
RADIATOR-TO-BLADE		
Clearance.....	Top—¾ inch Bottom—¾ inch	

	MC-1 & MC-2	MC-3 & MY-1
RADIATOR		
Type (Standard).....	Cellular Tubular	Cellular Tubular or Fin and Tube
Thickness.....	1½ inch	2 inch
Type (Air Conditioning).....	Cellular Tubular	Fin and Tube
Thickness.....	2¼ inch	2¼ inch

*MC-1 with Air Conditioning have box shroud six blade fan with 2¼ inch radiator.

*MC-2, MC-3, MY-1 with Air Conditioning have a box type fan shroud, five blade Silent Flite fan and the fan to engine ratio is 1.20 to 1.

*On MC-1, five blade Silent Flite fan is not available.

COOLING SYSTEM

The cooling system servicing is the same for 1959 with the exception of the following: The capacity of the radiator cooling system is 17 quarts with a heater and 16 quarts without a heater.

The radiator oil cooler located in the bottom of the pan in the radiator tank has a new service procedure.

Testing for Leaks

Remove the two oil cooler lines at the radiator. Connect a pressure gauge to one cooler outlet. Connect a source of air pressure with a shut-off valve (closed

position) to the other outlet. **Do not use pipe sealers since the sealer may get into transmission oil circuit.** Open valve slightly and admit air pressure not to exceed 50 psi gauge reading, then close valve. If the cooler and all fittings are leak proof, the gauge reading will remain constant.

When a leak is detected, remove radiator from car. Remove radiator lower tank (soft solder). Test the cooler with 50 psi air pressure in water to locate leak. Repair the leak using silver solder. If necessary, have a competent radiator repair shop repair the leak or install a new cooler.

Section VI ELECTRICAL SYSTEM DATA AND SPECIFICATIONS BATTERY

MC-1, MC-2, MC-3, MY-1

Voltage.....	12
Capacity.....	78 Plate 70 Amp Hour
Terminal Ground.....	Negative

STARTER

MC-1, MC-2, MC-3, MY-1

Car Model Usage.....	MDT-6002-1770712
Starter Model.....	MDT-6002
Voltage.....	12
No. of Fields.....	4
No. of Poles.....	4
Brushes.....	4
Spring Tension.....	32 to 48 Ounces
Drive.....	Solenoid Shift Overrunning Clutch
End Play.....	.005" Minimum
Free Running Test	
Voltage.....	11
Amperage Draw.....	80 Amps Minimum
Minimum Speed rpm.....	3800 Minimum
Stall Torque Test	
Torque Foot-Pounds.....	8.5
Voltage.....	4
Amperage Draw.....	350
Pinion to Housing.....	.070" to .120"
Clearance.....	Between Pinion Stop (with Armature End Play removed)