

SERVICE BULLETIN

Service Department . . . Chrysler and Imperial Division
CHRYSLER CORPORATION



Information for Service Mgr. Shop Foreman Parts Mgr. Technicians

March 26, 1959

No. 59-53

TO ALL CHRYSLER AND IMPERIAL DEALERS:

If you experience a thumping, gurgling, or rattling noise in the cooling system or hot water heater, the information in this bulletin may be of assistance to you.

The condition may be caused by incorrectly connected heater hoses, a restricted water pump by-pass passage, or restrictions in the cooling system. If you encounter this condition, it is recommended that the diagnosis and corrections be performed following the procedure outlined below:

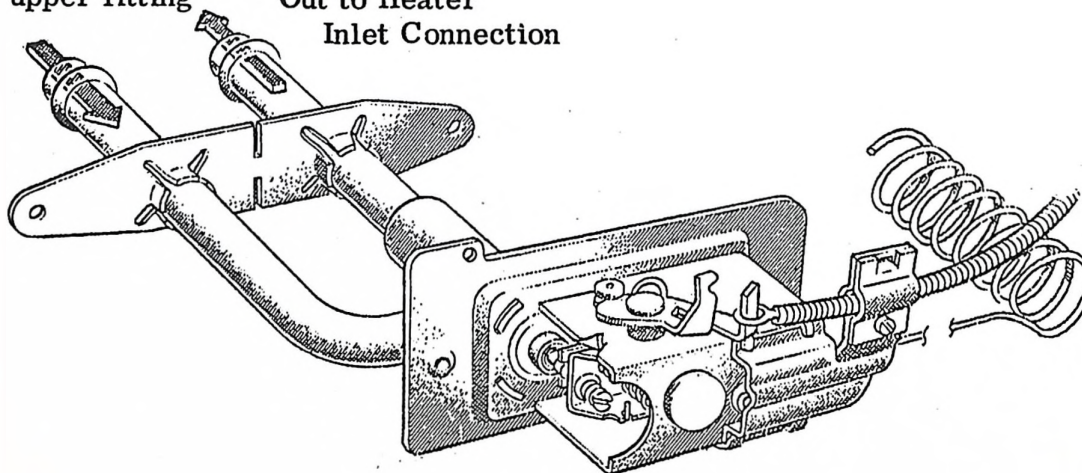
- (1) Inspect the routing and connection of the hoses to the heater temperature control valve. See diagram.

COOLING

THUMPING
NOISE
IN THE
COOLING
SYSTEM

In from water
pump housing
upper fitting

Out to Heater
Inlet Connection



P-313

- (2) Compare the two banks of cylinders for uniform temperatures. If one bank is considerably hotter than the other, it may be an indication of restriction in the passages to the water pump.
- (3) Remove and test the operation of the thermostat. While the thermostat is removed, inspect the water pump by-pass hole for restriction. The by-pass hole should be 1/2 inch diameter. If the hole is restricted, remove the water pump and housing and enlarge the by-pass hole to 1/2 inch diameter.
- (4) With the water pump removed, inspect the water passages in the block for restriction. Remove any casting flash or any other obstructions. Install the water pump and housing, using new gaskets.
- (5) If the thermostat tested satisfactorily, reinstall it using a new gasket. If the thermostat is unsatisfactory, replace it with a new one.
- (6) Fill the cooling system and test the operation.
- (7) If the cause is not corrected in steps (1) through (6), remove the cylinder heads and examine the water passages at the front and rear of the cylinder blocks and heads for casting flash or restriction. Remove the flash or restriction as required.

POLICY: This bulletin is for technical information only and is not to be used as the authority to perform the operations.

C. T. McClure

C. T. McCLURE
Director of Service

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TO ALL CHRYSLER AND IMPERIAL DEALERS:

When ethylene-glycol type anti-freeze compounds are exposed to heat and oxygen, a chemical reaction takes place, forming a highly corrosive acid which can cause extensive damage to the cooling system. Most permanent type, glycol-base anti-freeze compounds contain corrosion inhibitors which are mainly alkaline and act to neutralize this acid as it is formed. However, over a period of time, the corrosion inhibitors are used up and the anti-freeze solution can then develop an extremely strong acid condition. This is particularly true during summer months when the acid-forming reaction takes place more rapidly due to higher temperatures.

To avoid the inconvenience and expense of cooling system damage, resulting from this acid condition, the following schedule for cooling system preventative maintenance and anti-freeze protection is recommended:

REPLACEMENT OF ANTI-FREEZE - CARS NOT EQUIPPED WITH AIR CONDITIONING: In the spring, as soon as the danger of freezing is past, drain and flush the cooling system thoroughly, using MoPar Radiator Flush, Part No. 1450344. Then fill with clean water and add MoPar Rust Resistor, Part No. 680195. In the fall, the system should again be drained and flushed, and new MoPar permanent type Anti-Freeze, Part No. 1316209, installed as required. Note: For proper protection against corrosion the minimum quantity of anti-freeze added should be at least enough to protect to $\neq 15^{\circ}$ F. for glycol-base, or $\neq 10^{\circ}$ F. for methanol type, if used.

REPLACEMENT OF ANTI-FREEZE - CARS EQUIPPED WITH AIR CONDITIONING: In the spring, drain and flush the cooling system thoroughly, using MoPar Radiator Flush, Part No. 1450344. Then install one gallon of new permanent type, glycol-base anti-freeze in the cooling

(Over)

June 17, 1959

No. 59-78

COOLING

ANTI-FREEZE

AND COOLING

SYSTEM

PROTECTION

CHRYSLER
AND
IMPERIAL

ALL 1959

MODELS

P-1719-C
81-070-0016

IMPORTANT: This bulletin contains valuable information and was prepared at considerable expense to be of service to you. Failure to use this information may cost you good will and money. We suggest that you insure it is read by all those concerned, and then filed for future reference in your Service Bulletin binder.

system and fill with clean water. This will afford summer protection to $\neq 15^{\circ}$ F. In the fall, drain and flush the system before installing new MoPar permanent type, glycol-base anti-freeze for winter protection. Note: Permanent type, glycol-base anti-freeze MUST be used in the cooling system all year around, and the amount installed should always be at least enough to protect to $\neq 15^{\circ}$ F. for proper protection against corrosion.

This bulletin cancels and supersedes all previous recommendations, regarding cooling system protection, including the instructions in the 1959 Owner's Manuals. Your Chrysler and Imperial owners should be advised of this important new preventative maintenance service schedule.

C. T. McClure

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Director of Service

P-1719-C

81-070-0016

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Information for Service Mgr. Shop Foreman Parts Mgr. Technicians

TO ALL CHRYSLER AND IMPERIAL DEALERS:

The addition of permanent anti-freeze to the radiator coolant solution will be discontinued in all plants from April 30, 1959 to October 1, 1959, with the exception of air conditioning equipped cars.

For the period from May 1 to September 30, 1959, air conditioning equipped cars only will have sufficient permanent anti-freeze in the cooling system to test \neq 16 degrees F.

A mixture of 20 per cent by volume is necessary in air conditioning equipped cars to prevent freezing of the heater core coolant when the air conditioning system is in operation.

C. T. McClure

C. T. McCLURE
Director of Service

June 17, 1959

No. 59-79

COOLING

ANTI-FREEZE

FOR

PRODUCTION

CARS

CHRYSLER
AND
IMPERIAL

ALL 1959

MODELS

P-1721-C
81-070-0017

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