

# 1973 AMC Technical Service Manual

## SIX CYLINDER ENGINE

232-258 Cubic Inch Displacement

I-A-1

|                                               | Page |                                                    | Page |
|-----------------------------------------------|------|----------------------------------------------------|------|
| <b>ENGINE ASSEMBLY</b>                        |      | <b>TIMING CHAIN COVER</b>                          | 11   |
| Description — Identification                  | 1    | Removal — Installation                             | 11   |
| Diagnosis Guide                               | 1    | Oil Seal Replacement                               | 12   |
| Mounting                                      | 3    | <b>TIMING CHAIN</b>                                | 12   |
| Removal — Installation                        | 3    | <b>CAVSHIFT AND BEARINGS</b>                       | 13   |
| <b>LUBRICATION SYSTEM</b>                     |      | Camshaft Identification                            | 13   |
| Lubrication Circuit                           | 4    | Measuring Cam Lobe Lift                            | 13   |
| Oil Filter — Oil Pump                         | 4    | Removal — Inspection — Installation                | 13   |
| Oil Pressure Relief Valve                     | 4    | <b>OIL PAN</b>                                     |      |
| <b>POSITIVE CRANKCASE VENTILATION</b>         | 5    | Removal — Installation                             | 14   |
| Air Inlet Filter — PCV Valve                  | 5    | <b>OIL PUMP</b>                                    | 14   |
| <b>CYLINDER HEAD COVER AND GASKET</b>         |      | Removal and Installation                           | 15   |
| Removal — Installation                        | 6    | <b>CONNECTING ROD BEARINGS</b>                     | 16   |
| <b>ROCKER ARM ASSEMBLY</b>                    |      | Removal and Inspection                             | 16   |
| Removal — Cleaning — Inspection               | 6    | Measuring Bearing Clearance With Plastigage        | 16   |
| Installation                                  | 6    | Measuring Connecting Rod Journal With a Micrometer | 16   |
| <b>VALVE SPRING — VALVE STEM OIL SEAL</b>     |      | Installation                                       | 16   |
| Removal and Testing                           | 7    | <b>CONNECTING ROD AND PISTON ASSEMBLIES</b>        |      |
| Installation                                  | 7    | Removal                                            | 16   |
| <b>INTAKE AND EXHAUST MANIFOLDS</b>           |      | Cylinder Bore Conditioning                         | 17   |
| Removal — Cleaning — Installation             | 7    | Pistons                                            | 17   |
| <b>CYLINDER HEAD AND GASKET</b>               |      | Piston Rings                                       | 17   |
| Removal                                       | 8    | Connecting Rods and Piston Pins                    | 18   |
| Cleaning — Inspection — Installation          | 8    | Installation                                       | 18   |
| <b>CYLINDER HEAD RECONDITIONING</b>           |      | <b>CRANKSHAFT MAIN BEARINGS</b>                    | 19   |
| Disassembly — Cleaning — Inspection           | 8    | Removal and Inspection                             | 19   |
| Valves                                        | 9    | Measuring Bearing Clearance With Plastigage        | 19   |
| Assembly                                      | 9    | Installation                                       | 19   |
| <b>HYDRAULIC VALVE TAPPETS</b>                |      | <b>CRANKSHAFT</b>                                  | 20   |
| Notes Diagnosis                               | 10   | <b>SHORT ENGINE ASSEMBLY</b>                       | 20   |
| Removal — Disassembly — Cleaning — Inspection | 10   | <b>FLYWHEEL AND STARTER BING GEAR ASSEMBLY</b>     | 20   |
| Assembly — Testing — Installation             | 11   | <b>SPECIFICATIONS</b>                              | 20   |
| <b>VIBRATION DAMPER</b>                       | 11   |                                                    |      |

### ENGINE ASSEMBLY

#### Description

The 232 and 258 CID six cylinder engines incorporate an overhead valve system in which the intake and exhaust valves are pivot on a bridged pivot assembly.

The cylinders are numbered from front to rear with a firing order of 1-5-3-4-2-6. The markshaft rotates in a counter-clockwise direction, viewed from the rear of the engine.

Seven two-piece main bearings are used to support the crankshaft and the camshaft is supported by four one-piece line bored bearings.

#### Identification

The Engine Code is located on a machined surface of the block between number five and three cylinders.

The letter contained in the code identifies the engine by cubic inch displacement, carburetor type and compression ratio (Fig. 1).

The letters used are coded as follows:

| Code | CID | Carb. | Comp. Ratio |
|------|-----|-------|-------------|
| A    | 232 | TV    | 8.6:1       |
| E    | 258 | TV    | 8.6:1       |

To identify engines built for sale in Georgia and Tennessee, an additional identification, by a non-repeating number, is located on the right side of the engine below the engine code.

Example: Kenosha built  
"E-1197273" or  
"W-1197273"  
Brampton (Canada) built  
"C03164473"

In the machining of cylinder blocks and crankshafts, it is sometimes necessary to machine the cylinder bores to .010" oversize, and the crankshaft main bearing journals or crank pins to .010" undersize.

These engines are marked with a single or two letter code (Fig. 2).

The code is located on a boss directly above the oil filter.

The letters used are coded as follows:

|                |      |                                                    |
|----------------|------|----------------------------------------------------|
| Single letter  | "S"  | Cylinder bore — .010" Oversize                     |
| Single letter  | "M"  | Main bearings — .010" Undersize                    |
| Single letter  | "C"  | Connecting rod bearings — .010" Undersize          |
| Double letters | "FM" | Main and connecting rod bearings — .010" Undersize |
| Single letter  | "C"  | Crankshaft block bores — .010" Oversize            |

### Diagnosis Guide

#### Conditions and Probable Causes Cannot Crack Engine

##### Electrical System

Trace circuits for faulty electrical units.

##### Coolant Leak into Cylinder

Remove spark plugs. To check for coolant in cylinders, crank with plugs removed. Cylinder heads must be removed to check gaskets, block, and head for a source of coolant leak. If permanent anti-leakage entered engine, complete disassembly

# Amc Technical Service Manual

**Scott Campbell**



## **Amc Technical Service Manual:**

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## **Table of Contents Amc Technical Service Manual**

1. Understanding the eBook Amc Technical Service Manual
  - The Rise of Digital Reading Amc Technical Service Manual
  - Advantages of eBooks Over Traditional Books
2. Identifying Amc Technical Service Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Amc Technical Service Manual
  - User-Friendly Interface
4. Exploring eBook Recommendations from Amc Technical Service Manual
  - Personalized Recommendations
  - Amc Technical Service Manual User Reviews and Ratings
  - Amc Technical Service Manual and Bestseller Lists
5. Accessing Amc Technical Service Manual Free and Paid eBooks

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- Amc Technical Service Manual eBook Subscription Services
- Amc Technical Service Manual Budget-Friendly Options
- 6. Navigating Amc Technical Service Manual eBook Formats
  - ePub, PDF, MOBI, and More
  - Amc Technical Service Manual Compatibility with Devices
  - Amc Technical Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Amc Technical Service Manual
  - Highlighting and Note-Taking Amc Technical Service Manual
  - Interactive Elements Amc Technical Service Manual
- 8. Staying Engaged with Amc Technical Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Amc Technical Service Manual
- 9. Balancing eBooks and Physical Books Amc Technical Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Amc Technical Service Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Amc Technical Service Manual
  - Setting Reading Goals Amc Technical Service Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Amc Technical Service Manual
  - Fact-Checking eBook Content of Amc Technical Service Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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