

## 3.5L V6

1998 Mitsubishi Montero

1997-98 ENGINES  
Mitsubishi 3.5L V6

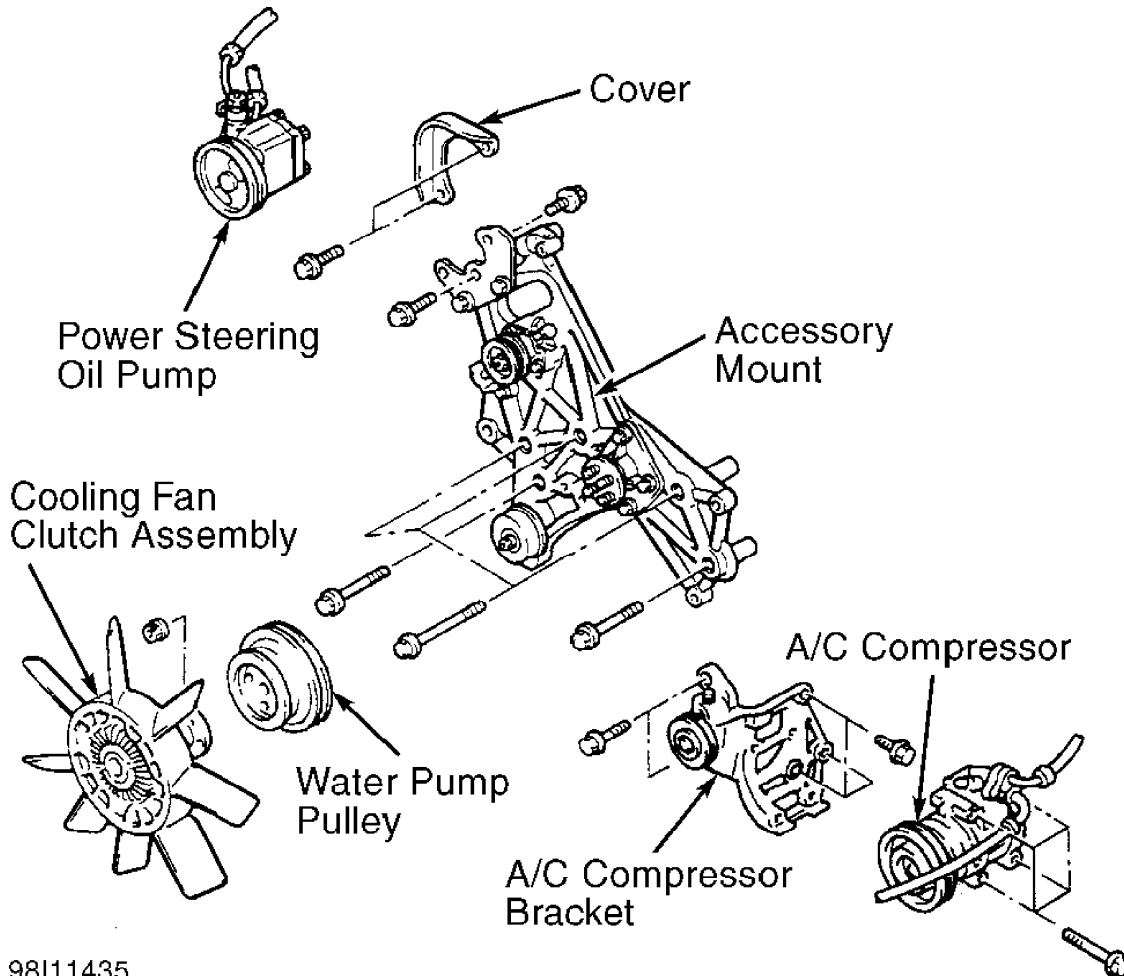
Diamante, Montero

### \* PLEASE READ THIS FIRST \*

NOTE: Minimal information is available from manufacturer. For repair procedures not covered in this article, see ENGINE OVERHAUL PROCEDURES - GENERAL INFORMATION article in the GENERAL INFORMATION section.

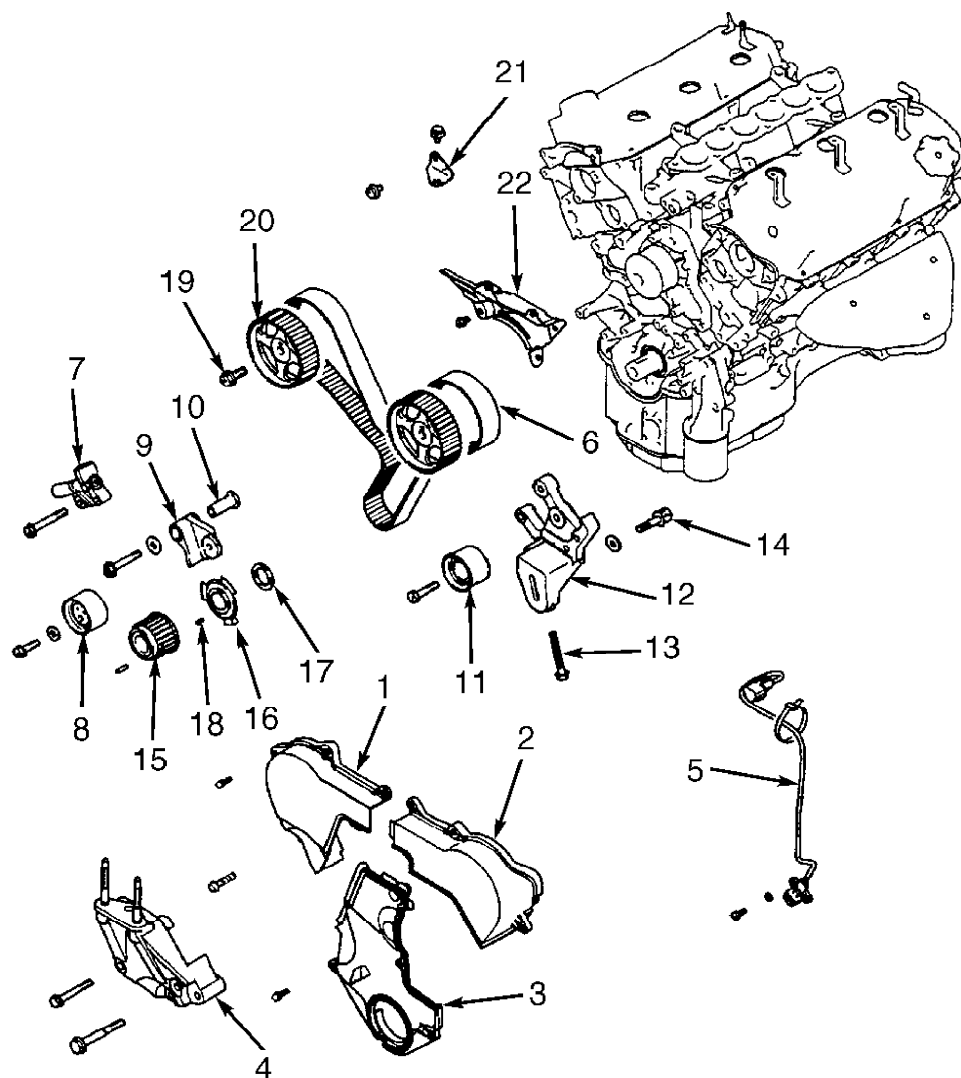
### REMOVAL & INSTALLATION

NOTE: Use appropriate illustrations to aid in removal and installation. See Figs. 1-9.



98111435

Fig. 1: Accessories & Mounting (Montero)  
Courtesy of Mitsubishi Motor Sales of America.

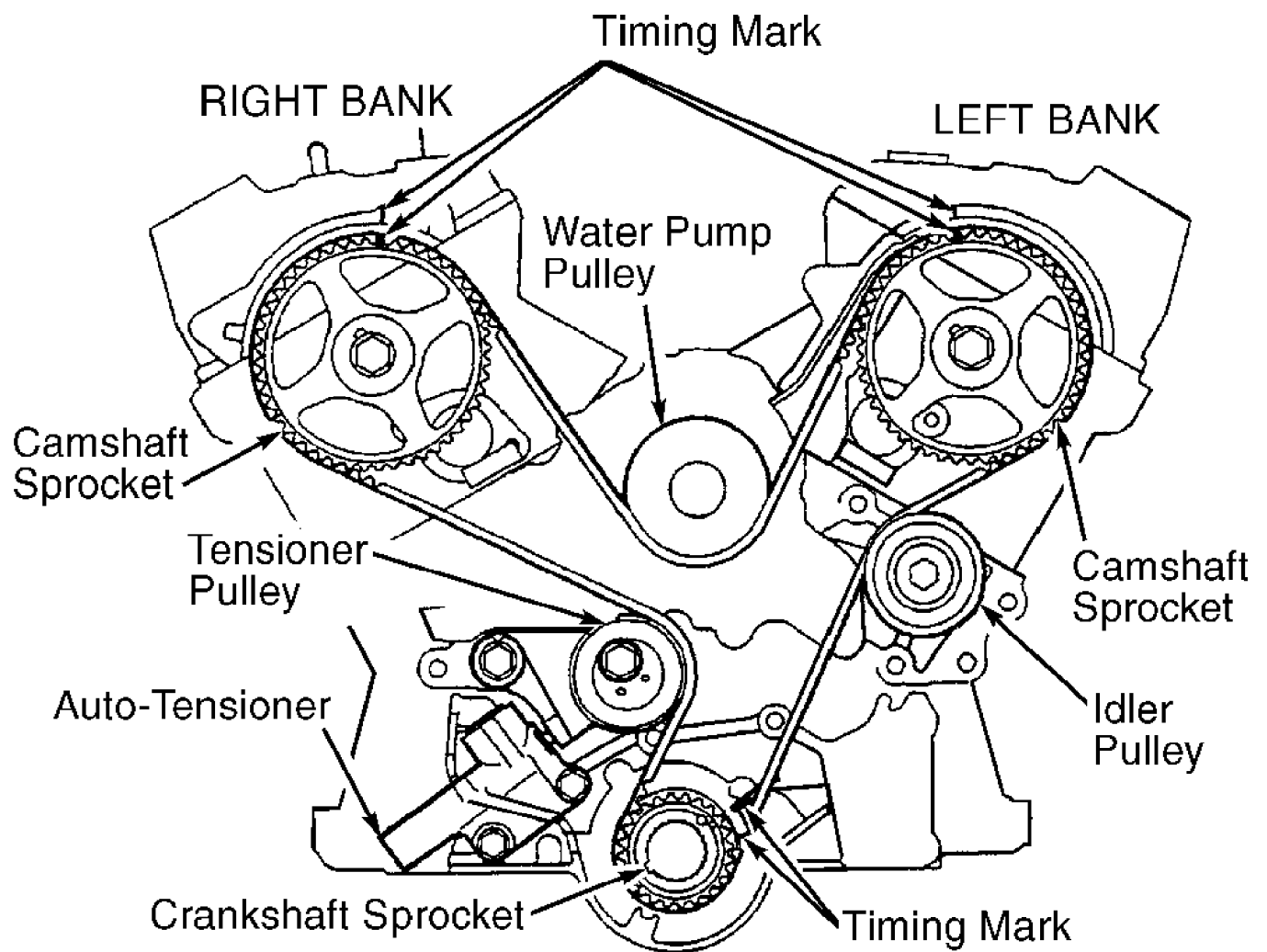


- |                                      |                                    |
|--------------------------------------|------------------------------------|
| 1. Timing Belt Front Cover           | 12. Idler Pulley Adjusting Bracket |
| 2. Timing Belt Front Cover           | 13. Adjusting Bolt                 |
| 3. Timing Belt Lower Cover           | 14. Adjusting Stud                 |
| 4. Engine Support Bracket (Diamante) | 15. Crankshaft Sprocket            |
| 5. Crank Angle Sensor                | 16. Sensing Blade                  |
| 6. Timing Belt                       | 17. Crankshaft Spacer              |
| 7. Automatic Tensioner               | 18. Crankshaft Key                 |
| 8. Tensioner Pulley                  | 19. Camshaft Sprocket Bolt         |
| 9. Tensioner Arm                     | 20. Camshaft Sprocket              |
| 10. Shaft                            | 21. Bracket                        |
| 11. Idler Pulley                     | 22. Timing Belt Rear Cover         |

98A11437

Fig. 2: Timing Belt Components

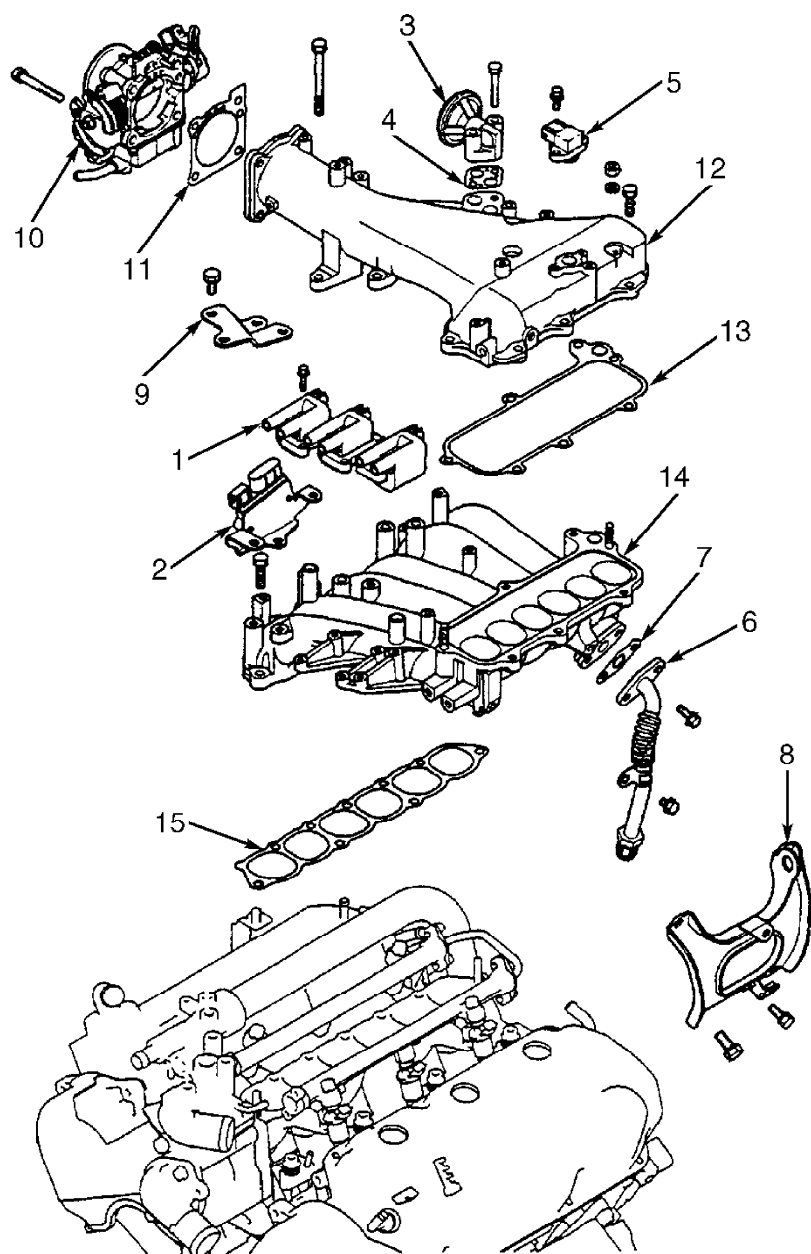
Courtesy of Mitsubishi Motor Sales of America.



98J11436

Fig. 3: Camshaft & Crankshaft Timing Marks  
Courtesy of Mitsubishi Motor Sales of America.

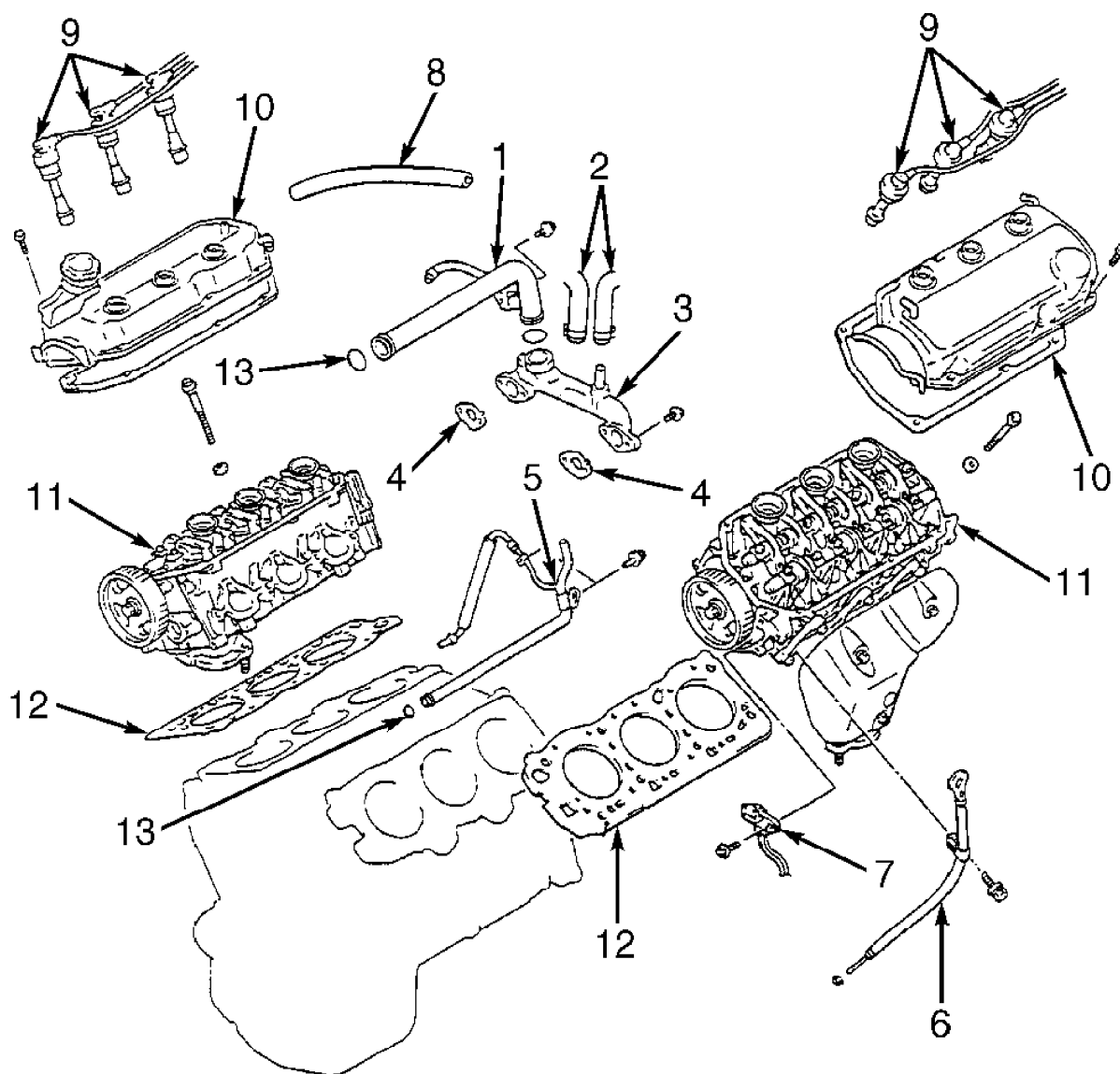




- |                                                |                                   |
|------------------------------------------------|-----------------------------------|
| 1. Ignition Coil                               | 8. Intake Manifold Plenum Stay    |
| 2. Ignition Power Transistor                   | 9. Water Outlet Fitting Bracket   |
| 3. EGR Valve                                   | 10. Throttle Body                 |
| 4. EGR Valve Gasket                            | 11. Throttle Body Gasket          |
| 5. Manifold Differential Pressure Sensor (MDP) | 12. Air Intake Fitting            |
| 6. EGR Pipe                                    | 13. Intake Fitting Gasket         |
| 7. EGR Pipe Gasket                             | 14. Intake Upper Manifold         |
|                                                | 15. Intake Manifold Plenum Gasket |

98107901

Fig. 5: Intake Manifold & Components (Montero)  
 Courtesy of Mitsubishi Motor Sales of America.

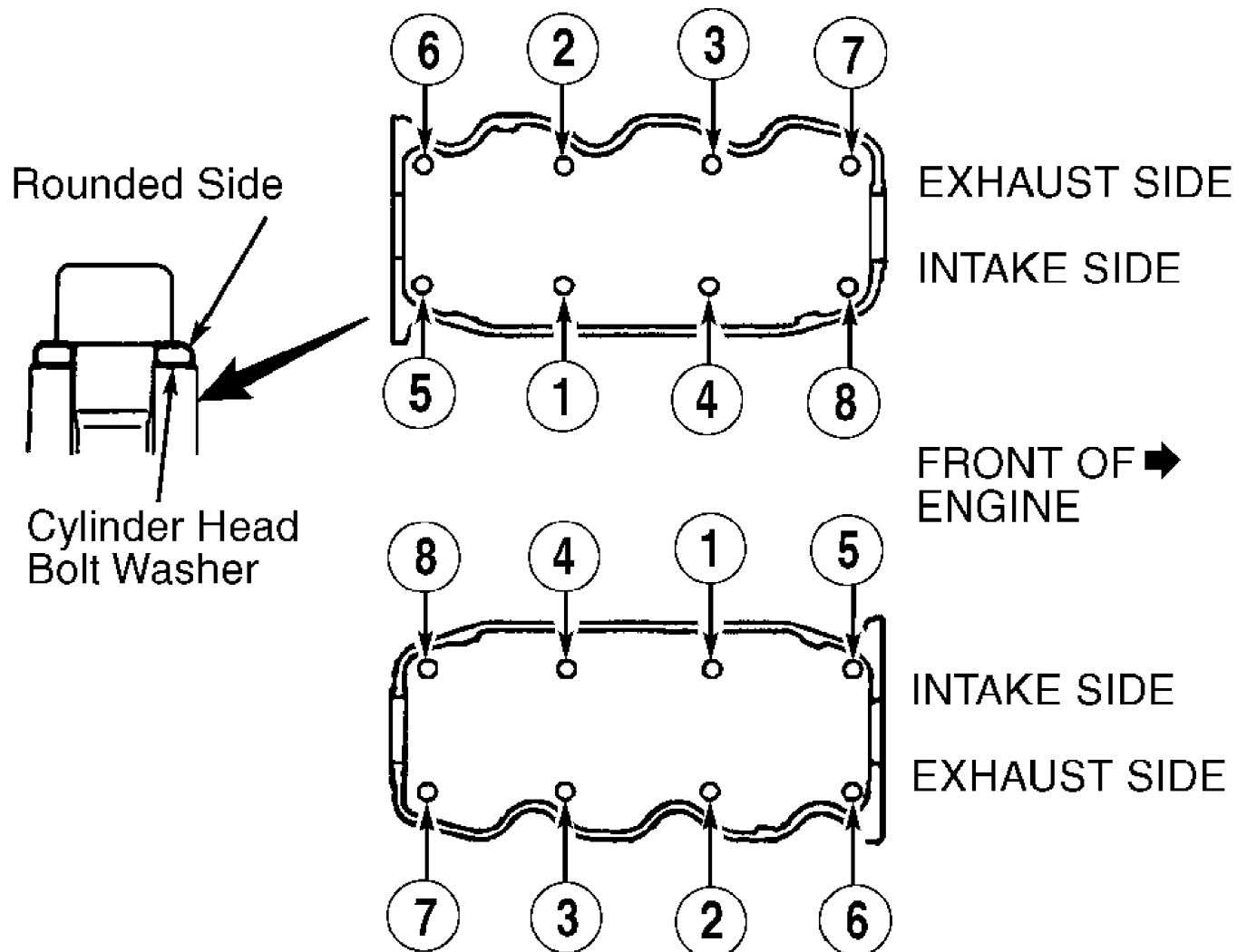


1. Water Outlet Pipe (Montero)
2. Heater Hose (Montero)
3. Water Passage (Montero)
4. Gasket (Montero)
5. Water Pipe & Hose Assembly (Montero)
6. Oil Level Gage Guide

7. Camshaft Position Sensor
8. Ventilation Hose
9. Spark Plug Cable
10. Rocker Cover
11. Cylinder Head
12. Cylinder Head Gasket
13. "O" Ring (Montero)

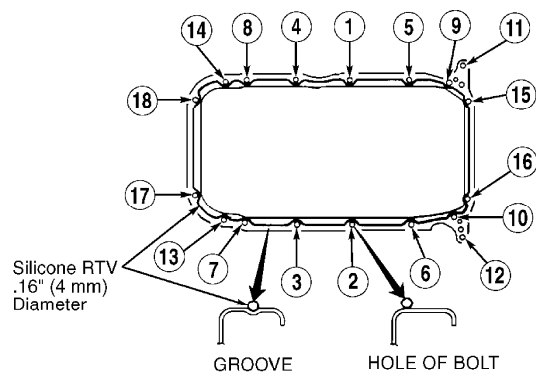
98C11439

Fig. 6: Cylinder Head & Components  
 Courtesy of Mitsubishi Motor Sales of America.



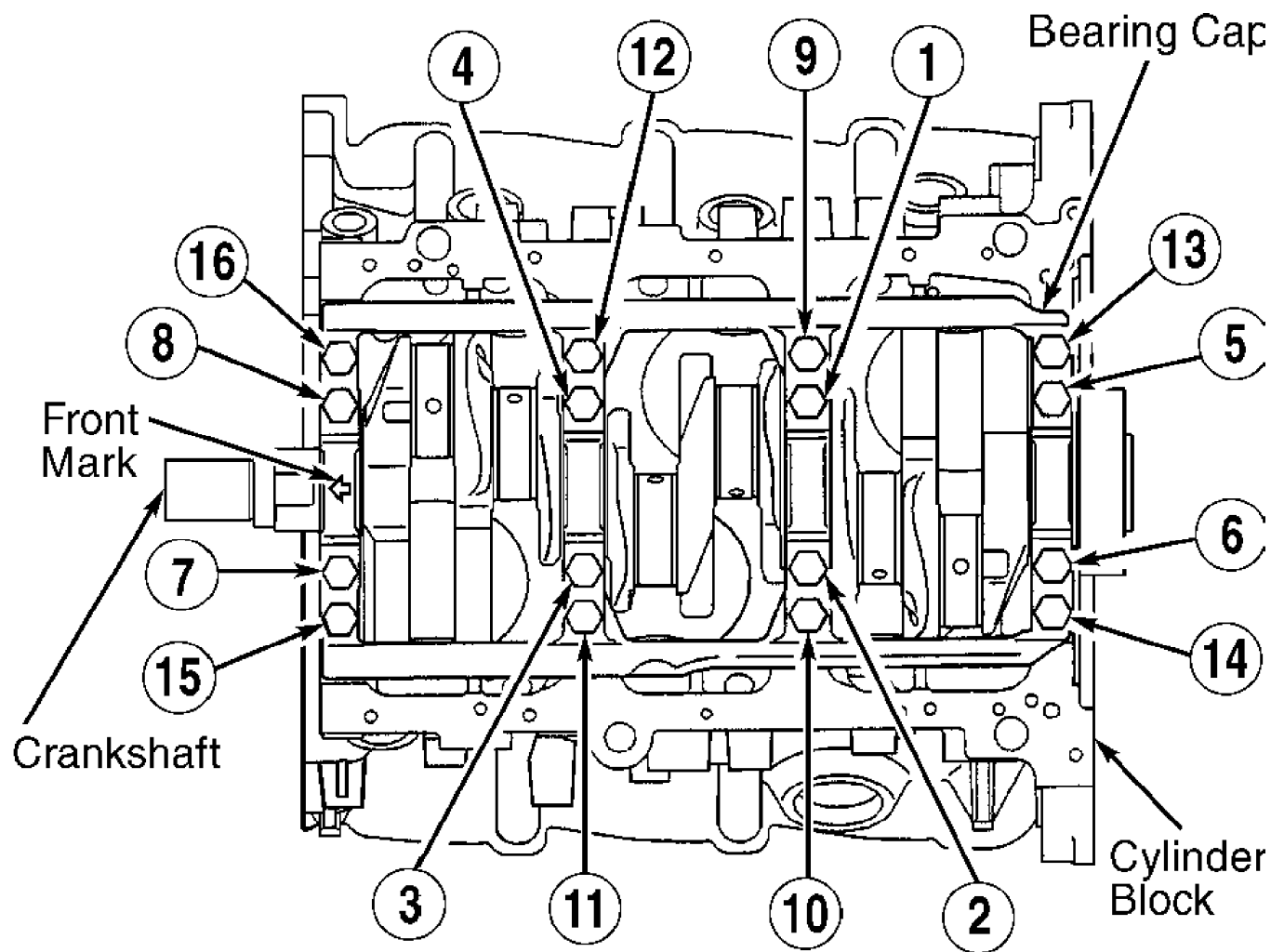
98B11438

Fig. 7: Cylinder Head Tightening Sequence  
Courtesy of Mitsubishi Motor Sales of America.



98F11440

Fig. 8: Oil Pan Tightening Sequence  
Courtesy of Mitsubishi Motor Sales of America.



98C07903

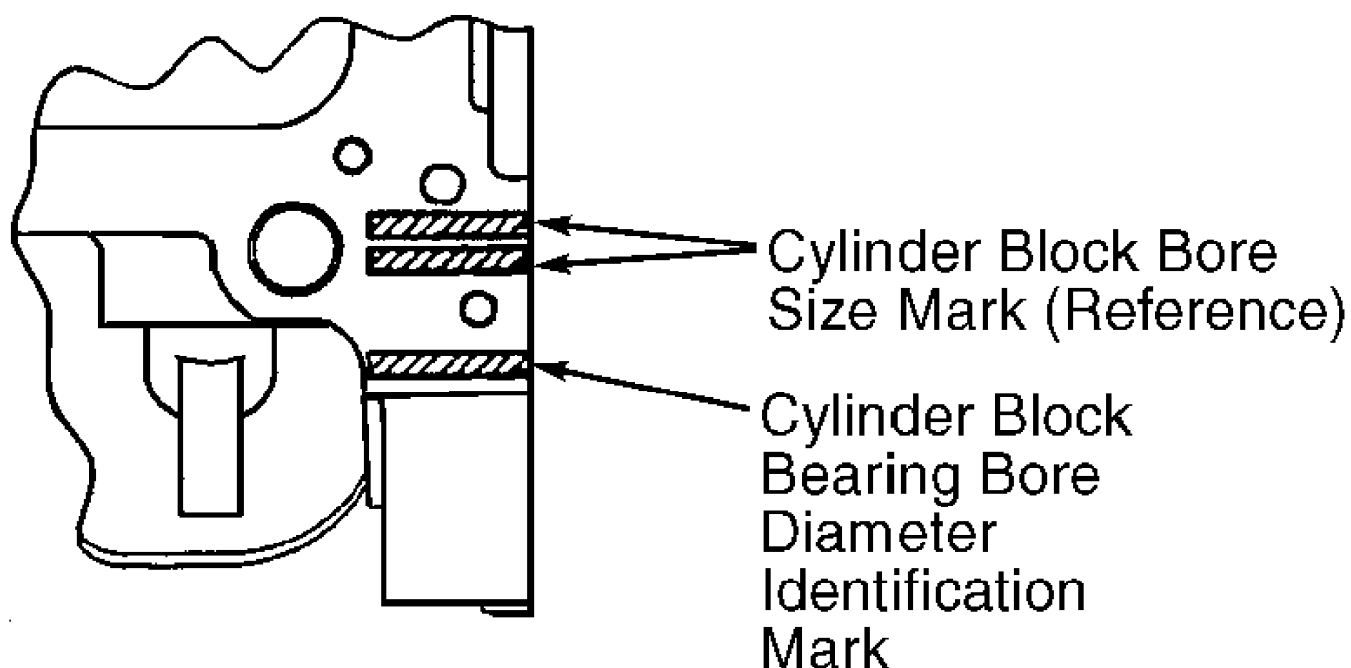
Fig. 9: Main Bearing Cap Tightening Sequence  
Courtesy of Mitsubishi Motor Sales of America.

## OVERHAUL

### CRANKSHAFT JOURNAL IDENTIFICATION (DIAMANTE) (1)

| Crankshaft<br>Journal Outer<br>Diameter In. (mm) | Cylinder Block<br>Bearing Bore<br>Diameter ID | Main Bearing<br>ID Color<br>(Mark) |
|--------------------------------------------------|-----------------------------------------------|------------------------------------|
| 2.362-2.3622 (59.994-60.0) (2)                   | I                                             | Pink (1)                           |
| "                                                | II                                            | Red (2)                            |
| "                                                | III                                           | Green (3)                          |
| 2.3617-2.3620 (59.988-59.994) (3)                | I                                             | Red (2)                            |
| "                                                | II                                            | Green (3)                          |
| "                                                | III                                           | Black (4)                          |

|                                                                                                               |     |           |
|---------------------------------------------------------------------------------------------------------------|-----|-----------|
| 22.3614-2.3617 (59.982-59.988) (4)                                                                            | I   | Green (3) |
| "                                                                                                             | II  | Black (4) |
| "                                                                                                             | III | Brown (5) |
| (1) - See Figs. 10, 12 and 14.<br>(2) - Yellow paint mark.<br>(3) - No paint mark.<br>(4) - White paint mark. |     |           |



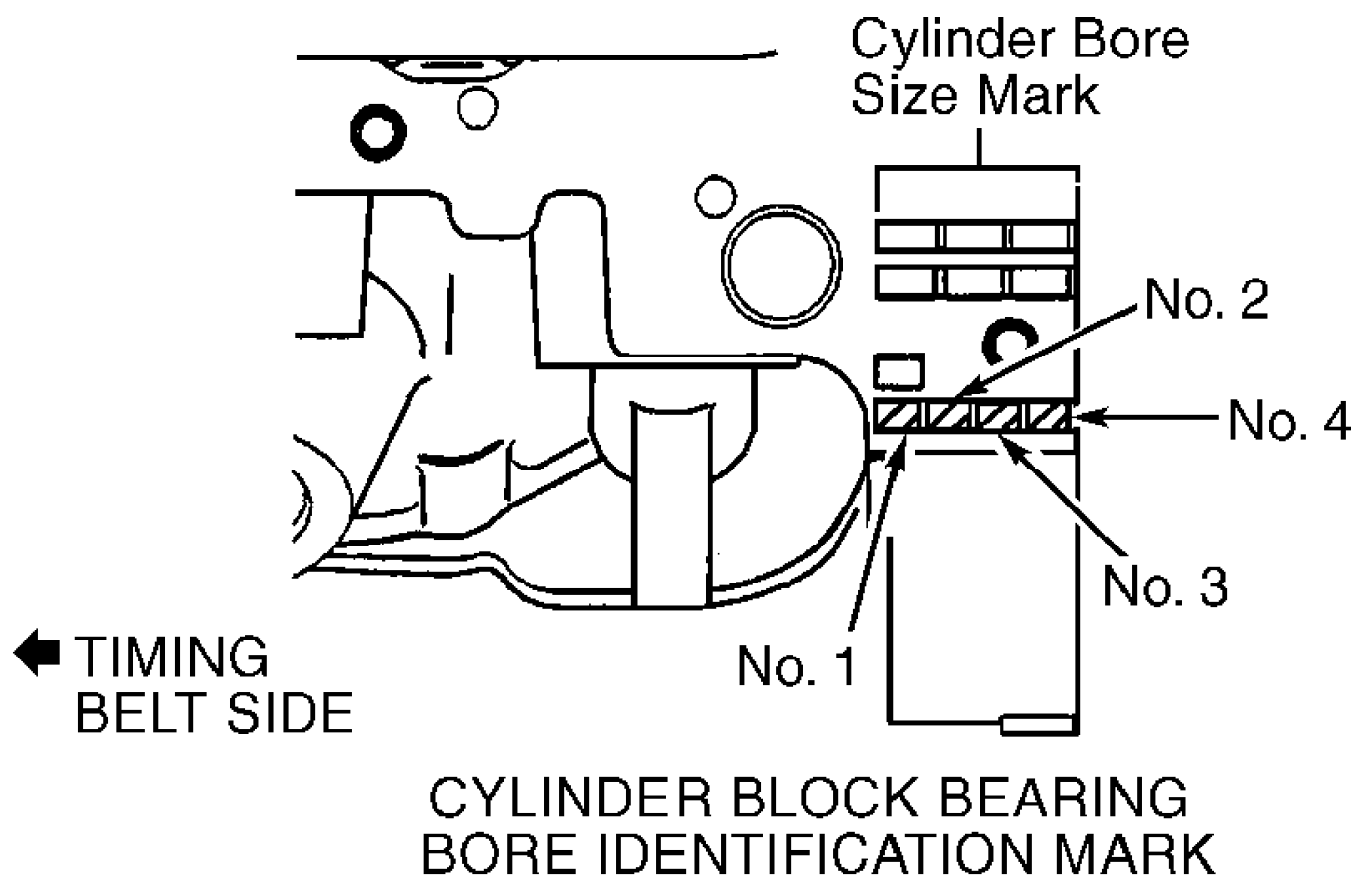
**98F07909**

Fig. 10: Main Journal O.D. Identification (Diamante)  
Courtesy of Mitsubishi Motor Sales of America.

CRANKSHAFT JOURNAL IDENTIFICATION (MONTERO) (1)

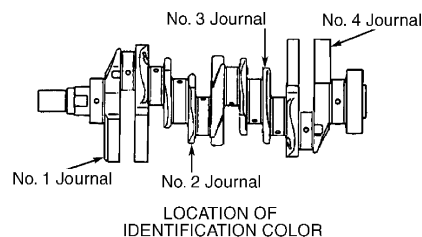
| Crankshaft<br>Journal Outer<br>Diameter In. (mm) | Cylinder Block<br>Bearing Bore<br>Diameter ID | Main Bearing<br>ID Color |
|--------------------------------------------------|-----------------------------------------------|--------------------------|
| 2.5194-2.5197 (63.994-64.0) (2)                  | I                                             | Pink                     |
| "                                                | II                                            | Red                      |
| "                                                | III                                           | Green                    |
| 2.5192-2.5194 (63.988-63.994) (3)                | I                                             | Red                      |
| "                                                | II                                            | Green                    |
| "                                                | III                                           | Black                    |
| 2.5190-2.5192 (63.982-63.988) (4)                | I                                             | Green                    |

|                                                                                                               |     |       |
|---------------------------------------------------------------------------------------------------------------|-----|-------|
| "                                                                                                             | II  | Black |
| "                                                                                                             | III | Brown |
| (1) - See Figs. 11, 12 and 14.<br>(2) - Yellow paint mark.<br>(3) - No paint mark.<br>(4) - White paint mark. |     |       |



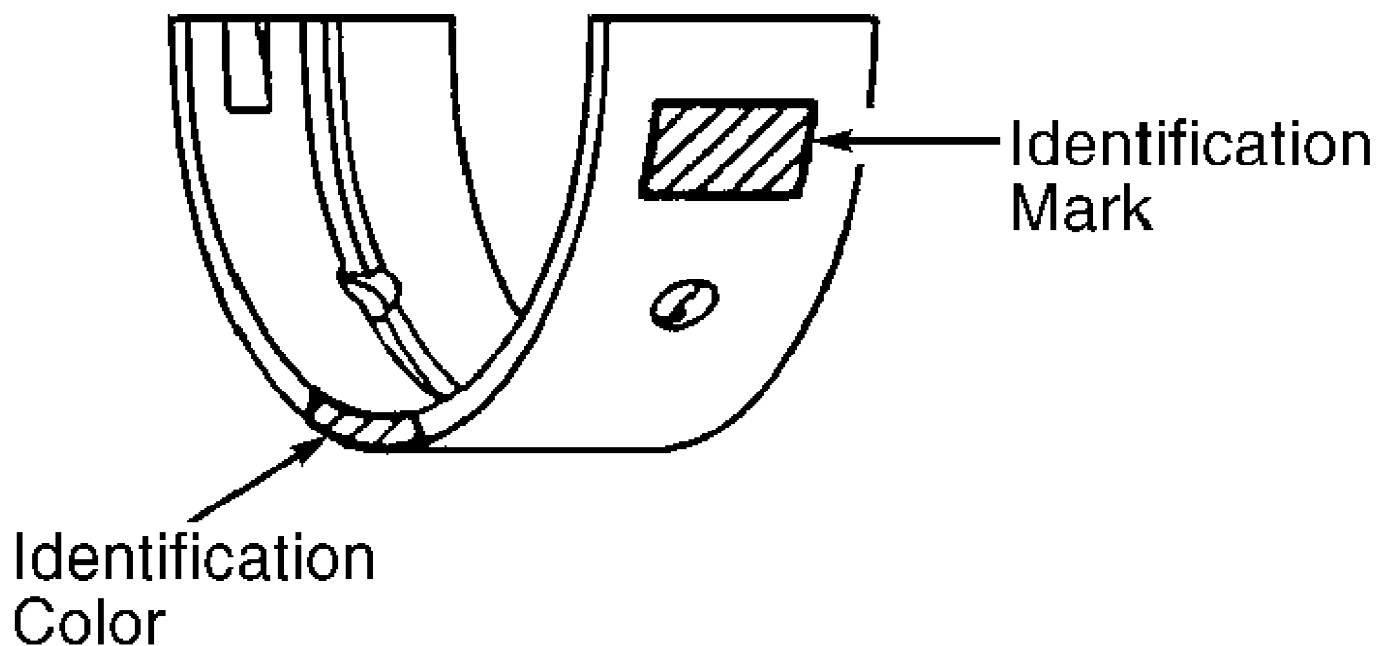
98H07905

Fig. 11: Main Journal O.D. Identification (Montero)  
Courtesy of Mitsubishi Motor Sales of America.



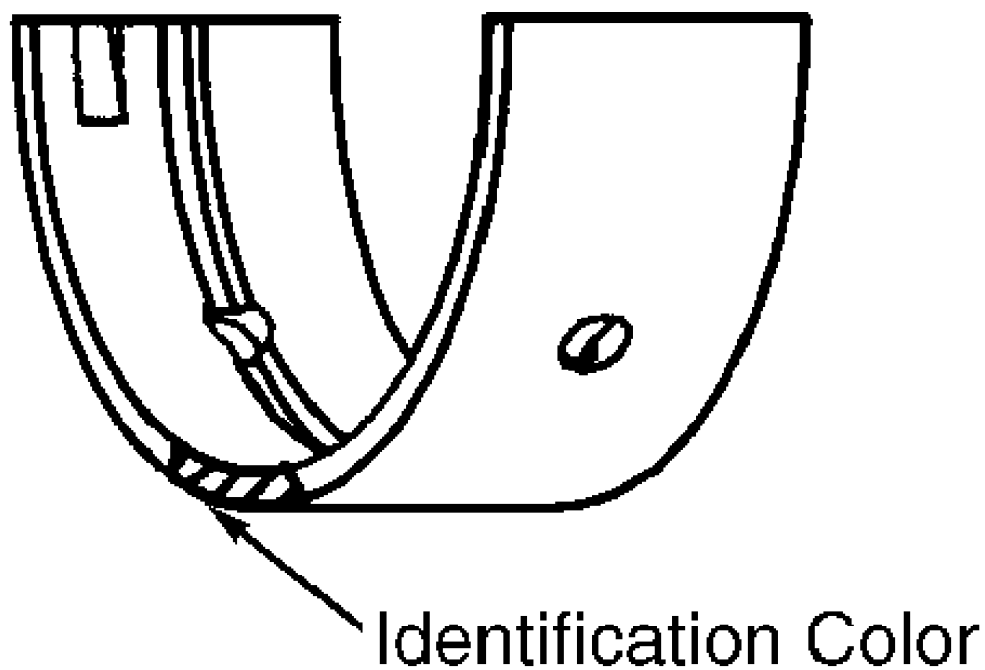
98J07906

Fig. 12: Main Journal I.D. Identification  
Courtesy of Mitsubishi Motor Sales of America.



98H07910

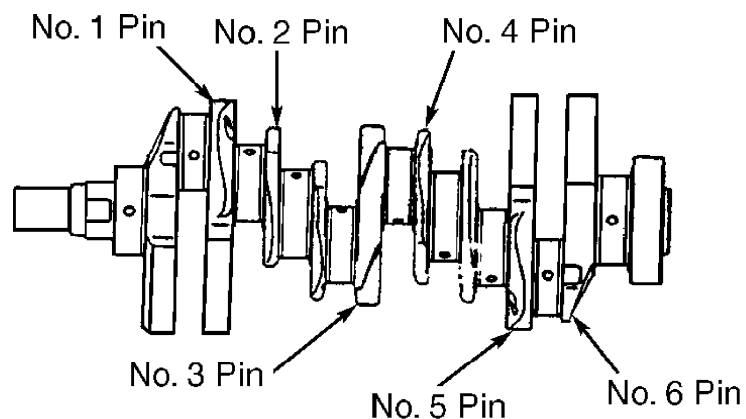
Fig. 13: Main Bearing Identification (Diamante)  
Courtesy of Mitsubishi Motor Sales of America.



98E07904

Fig. 14: Main Bearing Identification (Montero)  
Courtesy of Mitsubishi Motor Sales of America.

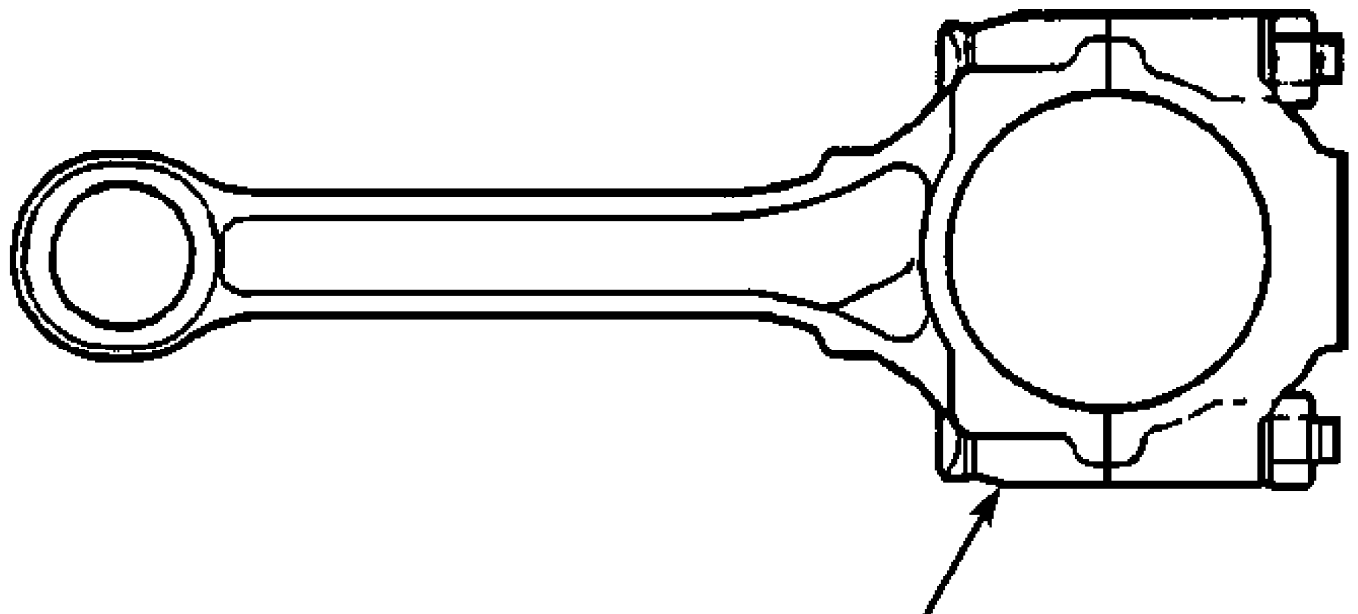
| Crankshaft Rod Journal Diameter In. (mm)                                                                  | Connecting Rod Big End Diameter In. (mm) | Connecting Rod Big End ID (Connecting Rod Bearing Color) | Connecting Rod Bearing Thickness In. (mm) |
|-----------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------|-------------------------------------------|
| 2.1651-2.1654<br>(54.994-55.000) (2)                                                                      | 2.2835-2.2837<br>(58.000-58.006)         | 0 (Pink)                                                 | .0584-.0585<br>(1.483-1.486)              |
| "                                                                                                         | 2.2837-2.2839<br>(58.006-58.012)         | 1 (Red)                                                  | .0585-.0586<br>(1.486-1.489)              |
| "                                                                                                         | 2.2839-2.2842<br>(58.012-58.018)         | 2 (Green)                                                | .0586-.5587<br>(1.489-1.492)              |
| 2.1649-2.1651<br>(54.988-54.994) (3)                                                                      | 2.2835-2.2837<br>(58.000-58.006)         | 0 (Red)                                                  | .0585-.0586<br>(1.486-1.489)              |
| "                                                                                                         | 2.2839-2.2842<br>(58.006-58.012)         | 1 (Green)                                                | .0586-.5587<br>(1.489-1.492)              |
| "                                                                                                         | 2.2842-2.2839<br>(58.012-58.018)         | 2 (Black)                                                | .0587-.0589<br>(1.492-1.495)              |
| 2.1646-2.1649<br>(54.982-54.988) (4)                                                                      | 2.2835-2.2837<br>(58.000-58.006)         | 0 (Green)                                                | .0586-.0587<br>(1.489-1.492)              |
| "                                                                                                         | 2.2839-2.2842<br>(58.006-58.012)         | 1 (Black)                                                | .0587-.5589<br>(1.492-1.495)              |
| "                                                                                                         | 2.2842-2.2839<br>(58.012-58.018)         | 2 (Brown)                                                | .0589-.0580<br>(1.495-1.498)              |
| (1) - See Figs. 15 and 16.<br>(2) - Yellow paint mark.<br>(3) - No paint mark.<br>(4) - White paint mark. |                                          |                                                          |                                           |



#### LOCATION OF IDENTIFICATION COLOR

98B07907

Fig. 15: Connecting Rod Crankshaft Pin Color Identification Location (Montero)  
Courtesy of Mitsubishi Motor Sales of America.



## Identification Mark

**98C13161**

Fig. 16: Connecting Rod Identification Location (Montero)  
Courtesy of Mitsubishi Motor Sales of America.

### ENGINE OILING

#### OIL PUMP SPECIFICATIONS

| Application                             | Specification                     |
|-----------------------------------------|-----------------------------------|
| Gear Side Clearance .....               | .0016-.0039" (.040-.10 mm)        |
| Gear-To-Front Cover Clearance           |                                   |
| Standard .....                          | .0039-.0071" (.10-.180 mm)        |
| Limit .....                             | .0138" (.350 mm)                  |
| Tip to Tip Clearance .....              | .0024-.0071" (.060-.180 mm)       |
| Minimum Warm Oil Pressure at Idle ..... | 11.4 psi (.8 kg/cm <sup>2</sup> ) |

### TORQUE SPECIFICATIONS

#### TORQUE SPECIFICATIONS

| Application                           | Ft. Lbs. (N.m) |
|---------------------------------------|----------------|
| Crankshaft Drive Plate .....          | 55 (74)        |
| Crankshaft Main Bearing Cap Bolt      |                |
| Diamante .....                        | 69 (93)        |
| Montero .....                         | 55 (74)        |
| Crankshaft Pulley Bolt .....          | 134 (182)      |
| Cylinder Head Bolt (1) .....          | 80 (108)       |
| Distributor Lock Nut (Diamante) ..... | 17 (23)        |
| Exhaust Manifold Nut .....            | 21 (29)        |
| Generator & Drive Belt                |                |
| Accessory Mount Bolt (Montero) .....  | 32 (44)        |

|                                               |    |      |
|-----------------------------------------------|----|------|
| Accessory Mount Stay Bolt (Montero)           |    |      |
| 8 mm Bolt .....                               | 17 | (23) |
| 10 mm Bolt .....                              | 36 | (49) |
| Cooling Fan Bracket (Montero) .....           | 30 | (41) |
| Engine Hanger (Montero) .....                 | 13 | (17) |
| Generator Bolt (Diamante) .....               | 15 | (21) |
| Generator Bolt (Montero)                      |    |      |
| 8 mm Bolt .....                               | 15 | (21) |
| 10 mm Bolt .....                              | 38 | (51) |
| Generator Bracket (Diamante)                  |    |      |
| 8 mm Bolt .....                               | 35 | (48) |
| 10 mm Bolt .....                              | 17 | (23) |
| Generator Pivot Nut (Diamante) .....          | 32 | (44) |
| Tensioner Pulley Nut .....                    | 37 | (50) |
| Tensioner Bracket Stay Bolt (Montero) .....   | 18 | (24) |
| Intake Manifold & Fuel                        |    |      |
| Bracket (Montero) .....                       | 18 | (24) |
| ECT Sensor .....                              | 22 | (30) |
| Intake Manifold Nut .....                     | 15 | (21) |
| Thermostat Case .....                         | 14 | (19) |
| Water Inlet Fitting Bolt .....                | 14 | (19) |
| Water Outlet Fitting Bolt .....               | 14 | (19) |
| Water Passage (Montero) .....                 | 14 | (19) |
| Heater Pipe Bolt (Diamante) .....             | 13 | (18) |
| Intake Plenum & Throttle Body                 |    |      |
| Air Intake Fitting Bolt & Nut (Montero) ..... | 13 | (18) |
| EGR Pipe Bolt .....                           | 13 | (18) |
| EGR Pipe Flair Nut .....                      | 44 | (59) |
| EGR Valve Bolt .....                          | 16 | (22) |
| Intake Manifold Plenum (Diamante) .....       | 13 | (18) |
| Intake Manifold Plenum Stay Bolt              |    |      |
| 8 mm Bolt .....                               | 13 | (18) |
| 10 mm Bolt .....                              | 27 | (36) |
| Water Outlet Fitting Bracket Bolt .....       | 14 | (19) |
| Bracket (Diamante) .....                      | 18 | (24) |
| Motor Mount Brackets                          |    |      |
| Bracket                                       |    |      |
| 8 mm Bolt .....                               | 16 | (22) |
| 10 mm Bolt .....                              | 30 | (41) |
| 12 mm Bolt .....                              | 55 | (75) |
| Oil Pan & Oil Pump                            |    |      |
| Drain Plug .....                              | 30 | (40) |
| Oil Cooler By-Pass Valve (Montero) .....      | 41 | (55) |
| Oil Filter Bolt (Montero) .....               | 15 | (21) |
| Oil Filter Bracket                            |    |      |
| 8 mm Bolt .....                               | 18 | (24) |
| 10 mm Bolt .....                              | 30 | (40) |
| Oil Screen                                    |    |      |
| 8 mm Bolt .....                               | 14 | (19) |
| Plug .....                                    | 33 | (45) |
| Piston & Connection Rod                       |    |      |
| Connecting Rod Cap Nut .....                  | 38 | (52) |
| Rocker Arms & Camshafts                       |    |      |
| Distributor Adapter Bolt (Diamante) .....     | 17 | (23) |
| Rocker Arm Shaft Bolt .....                   | 23 | (31) |
| Spark Plug .....                              | 18 | (25) |
| Timing Belt                                   |    |      |
| Auto Tensioner Bolt .....                     | 18 | (24) |
| Camshaft Sprocket Bolt .....                  | 65 | (88) |
| Idler Pulley Bolt .....                       | 32 | (44) |
| Tensioner Arm Bolt .....                      | 32 | (44) |
| Tensioner Pulley Bolt .....                   | 36 | (49) |
| Water Pump Bolt (Montero) .....               | 18 | (24) |

|                                             |       |            |
|---------------------------------------------|-------|------------|
| Water Pump Bolt (Diamante)                  |       |            |
| 8 mm Bolt                                   | ..... | 18 (24)    |
| 10 mm Bolt                                  | ..... | 30 (41)    |
|                                             | INCH  | Lbs. (N.m) |
| Crankshaft & Drive Plate                    |       |            |
| Bell Housing                                | ..... | 79.7 (9)   |
| Oil Seal Case                               | ..... | 97.3 (11)  |
| Rear Plate (Montero)                        | ..... | 97.3 (11)  |
| Exhaust Manifold                            |       |            |
| Heat Shield                                 | ..... | 123.9 (14) |
| Oil Level Gauge Guide Bolt                  | ..... | 123.9 (14) |
| Generator & Drive Belt                      |       |            |
| Cooling Fan Bolt (Montero)                  | ..... | 97.3 (11)  |
| Cooling Fan Nut (Montero)                   | ..... | 97.3 (11)  |
| Timing Indicator Bolt (Montero)             | ..... | 97.3 (11)  |
| Intake Manifold & Fuel                      |       |            |
| ECT Gauge Sender                            | ..... | 97.4 (11)  |
| Fuel Pressure Regulator Bolt                | ..... | 79.6 (9)   |
| Fuel Pipe Banjo Bolt                        | ..... | 79.6 (9)   |
| Injector & Fuel Rail Bolt                   | ..... | 106.2 (12) |
| Water Outlet Pipe                           | ..... | 123.9 (14) |
| Intake Plenum & Throttle Body               |       |            |
| Ignition Coil Bolt (Montero)                | ..... | 115 (13)   |
| Manifold Differential Pressure (MDP) Sensor | ..... | 44 (4.9)   |
| Throttle Body Bolt                          | ..... | 106 (12)   |
| Vacuum Hose Assembly (Diamante)             | ..... | 88 (9.8)   |
| Oil Pan & Oil Pump                          |       |            |
| Baffle Plate (Montero)                      | ..... | 97.3 (11)  |
| Baffle Plate (Diamante)                     | ..... | 97.3 (11)  |
| 6 mm Bolt                                   | ..... | 53.1 (6)   |
| 8 mm Bolt                                   | ..... | 79.6 (9)   |
| Oil Pump Cover Bolt (Diamante)              | ..... | 88.5 (10)  |
| Oil Pump Cover Bolt (Montero)               | ..... | .....      |
| 6 mm x 10 mm Bolt                           | ..... | 97.3 (11)  |
| 6 mm x 18 mm Bolt                           | ..... | 53.1 (6)   |
| Oil Pressure Gauge Sender                   | ..... | 88.5 (10)  |
| Oil Pan (Upper)                             | ..... | 53.1 (6)   |
| Oil Pan (Lower)                             | ..... | 97.3 (11)  |
| Oil Pump Case                               | ..... | 123.9 (14) |
| Oil Screen (Montero)                        | ..... | .....      |
| 6 mm Bolt                                   | ..... | 53.1 (9)   |
| Rocker Arms & Camshafts                     |       |            |
| Rocker Cover Bolt                           | ..... | 31 (3.5)   |
| Thrust Case Bolt                            | ..... | 115.1 (13) |
| Timing Belt                                 |       |            |
| Camshaft Position (CMP) Sensor (Montero)    | ..... | 79.6 (9)   |
| Crankshaft Position (CKP) Sensor            | ..... | 79.6 (9)   |

(1) - Tighten cylinder head bolts in 2 or 3 steps with engine cold.

## ENGINE SPECIFICATIONS

### GENERAL SPECIFICATIONS

#### GENERAL SPECIFICATIONS

| Application  | Specification        |
|--------------|----------------------|
| Displacement | 213.4 Cu. In. (3.5L) |
| Bore         | 3.6614" (93 mm)      |

|                             |                   |
|-----------------------------|-------------------|
| Stroke .....                | 3.3779" (85.8 mm) |
| Compression Ratio .....     | 9.0:1             |
| Fuel System .....           | MFI               |
| Horsepower @ RPM .....      | 200 @ 5000        |
| Torque Ft. Lbs. @ RPM ..... | 228 @ 3500        |

## ROCKER ARMS & CAMSHAFT

### ROCKER ARMS & CAMSHAFT

| Application                     | In. (mm)        |
|---------------------------------|-----------------|
| Camshaft Lobe Height            |                 |
| Montero                         |                 |
| Intake                          |                 |
| Standard .....                  | 1.4846 (37.710) |
| Limit .....                     | 1.4650 (37.210) |
| Exhaust                         |                 |
| Standard .....                  | 1.4622 (37.140) |
| Limit .....                     | 1.4425 (36.640) |
| Diamante                        |                 |
| Intake                          |                 |
| Standard .....                  | 1.4795 (37.580) |
| Limit .....                     | 1.4598 (37.080) |
| Exhaust                         |                 |
| Standard .....                  | 1.4547 (36.950) |
| Limit .....                     | 1.4350 (36.450) |
| Camshaft Journal Diameter ..... | 1.7689 (44.930) |

## CYLINDER HEAD & VALVES

### CYLINDER HEAD & VALVES

| Application             | Specification               |
|-------------------------|-----------------------------|
| Head Warpage            |                             |
| Standard .....          | .0012" (.030 mm)            |
| Limit .....             | .0079" (.200 mm)            |
| Maximum Resurface ..... | .0079" (.200 mm)            |
| Overall Height .....    | 4.7244" (120.000 mm)        |
| Valve Margin            |                             |
| Intake                  |                             |
| Standard .....          | .0394" (1.000 mm)           |
| Limit .....             | .0197" (.500 mm)            |
| Exhaust                 |                             |
| Standard .....          | .0472" (1.200 mm)           |
| Limit .....             | .0276" (.700 mm)            |
| Valve Height (Montero)  |                             |
| Intake                  |                             |
| Standard .....          | 4.4213" (112.300 mm)        |
| Limit .....             | 4.4016" (111.800 mm)        |
| Exhaust                 |                             |
| Standard .....          | 4.4924" (114.110 mm)        |
| Limit .....             | 4.4728" (113.610 mm)        |
| Stem Diameter           |                             |
| Intake .....            | .2362" (6.000 mm)           |
| Exhaust .....           | .2362" (6.000 mm)           |
| Stem to Guide Clearance |                             |
| Intake                  |                             |
| Standard .....          | .0008-.0020" (.020-.050 mm) |
| Limit .....             | .0039" (.100 mm)            |

|                                 |                              |
|---------------------------------|------------------------------|
| Exhaust                         |                              |
| Standard                        | .0016-.0028" (.040-.070 mm)  |
| Limit                           | .0059" (.150 mm)             |
| Valve Stem Projection (Montero) |                              |
| Standard                        | 1.9409" (49.300 mm)          |
| Limit                           | 1.9606" (49.800 mm)          |
| Valve Face Angle                | 45°-45.5°                    |
| Valve Spring                    |                              |
| Free Height                     |                              |
| Standard                        | 2.0079" (51.000 mm)          |
| Limit                           | 1.9685" (50.000 mm)          |
| Out of Square                   |                              |
| Standard                        | 2° Or Less                   |
| Limit                           | 4°                           |
| Valve Seat Width                | .0354-.0512" (.900-1.300 mm) |
| Valve Guide                     |                              |
| Inner Diameter                  | .2362" (6.000 mm)            |
| Outer Diameter                  | .433" (11.000 mm)            |

## PISTON & CONNECTING ROD

### PISTON & CONNECTING ROD

| Application                          | In. (mm)                |
|--------------------------------------|-------------------------|
| Piston Diameter                      | 3.6614 (93.000)         |
| Piston to Block Clearance (Diamante) | .0008-.0016 (.020-.040) |
| Piston to Block Clearance (Montero)  | .0012-.0020 (.030-.050) |
| Piston Ring                          |                         |
| No. 1                                |                         |
| Ring to Groove Clearance             |                         |
| Standard                             | .0012-.0028 (.030-.070) |
| Limit                                | .0039 (.100)            |
| End Gap                              |                         |
| Standard                             | .0118-.0177 (.300-.450) |
| Limit                                | .0315 (.800)            |
| No. 2                                |                         |
| Ring to Groove Clearance             |                         |
| Standard                             | .0008-.0024 (.020-.060) |
| Limit                                | .0039 (.100)            |
| End Gap                              |                         |
| Standard                             | .0177-.0236 (.450-.600) |
| Limit                                | .0315 (.800)            |
| Oil Control Ring                     |                         |
| End Gap (Diamante)                   |                         |
| Standard                             | .0079-.0236 (.200-.600) |
| Limit                                | .0394 (1.000)           |
| End Gap (Montero)                    |                         |
| Standard                             | .0039-.0138 (.100-.350) |
| Limit                                | .0394 (1.000)           |
| Piston Pin                           |                         |
| Outer Diameter                       |                         |
| Standard                             | .8661 (22.000)          |
| Limit                                | .0039 (.100)            |
| Connecting Rod                       |                         |
| Big End Side Clearance               |                         |
| Standard                             | .0039-.0098 (.100-.250) |
| Limit                                | .0157 (.4)              |
| Oil Clearance                        | .0008-.0020 (.020-.050) |

## CRANKSHAFT

## CRANKSHAFT

| Application             | Specification           |
|-------------------------|-------------------------|
| End Play                |                         |
| Standard .....          | .0020-.0098 (.050-.250) |
| Limit .....             | .0118 (.3)              |
| Journal Diameter        |                         |
| Diamante                |                         |
| Main Bearing .....      | 2.3622 (60.000)         |
| Rod Bearing .....       | 1.9685 (50.000)         |
| Montero                 |                         |
| Main Bearing .....      | 2.5197 (64.000)         |
| Rod Bearing .....       | (1)                     |
| Oil Clearance           |                         |
| Standard .....          | .0008-.0016 (.020-.040) |
| Limit .....             | .0039 (.1)              |
| Max. Out Of Round ..... | .0002 (.005)            |
| Max. Taper .....        | .0002 (.005)            |

(1) - See CRANKSHAFT PIN & CONNECTING ROD BEARING IDENTIFICATION  
(MONTERO) table under REMOVAL & INSTALLATION.

## CYLINDER BLOCK

### CYLINDER BLOCK

| Application            | In. (mm)                        |
|------------------------|---------------------------------|
| Warpage                |                                 |
| Standard .....         | .0020 (.050)                    |
| Limit .....            | .0039 (.100)                    |
| Overall Height .....   | 8.2834-8.2913 (210.400-210.600) |
| Cylinder Bore Diameter |                                 |
| Diamante .....         | 3.6614 (93.000)                 |
| Montero .....          | 3.5866 (91.100)                 |