

# Aluminum Valve cover installation instructions:

1981-86 4.2L(258) Jeep® & AMC Engines with plastic valve covers.

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The following installation instructions cover the following part numbers.

DMC-6914 – “Jeep®” Logo painted  
17401.07 - “OMIX” Logo painted  
17401.08 - “4.2L” Logo painted  
17401.09 - “4.2L” Logo polished

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**Note: This valve cover will not fit the 4.0L (242) engines. This will not fit 1964-1980 232 or 4.2L (258) engines that use a steel valve cover. THIS VALVE COVER IS DESIGNED TO REPLACE THE 1981-1986 PLASTIC 4.2L (258) VALVE COVER ONLY.**

Parts supplied in this kit. (1) Aluminum Valve Cover. With 2 baffles

- (1) Valve Cover Gasket – Cork
- (1) Oil Fill Cap.
- (2) PVC Grommets
- (5) 5/16” Allen Head Bolts
- (3) 1/4” Allen Head Bolts
- (5) Standard Screws.
- (1) Installation Instruction Sheet

## **Drilling and tapping of cylinder head may be required.**

**Replacement of 2 rocker bridges w/studs may be required. If needed use part #MRM1718 (17408.11)**

### **Step.1 (Dry Fitment)**

Before fastening any bolts, please place the valve cover on your engine head to make sure all the holes are lined up correctly. **DO NOT INSTALL IF ALL HOLES ARE NOT LINING UP.**

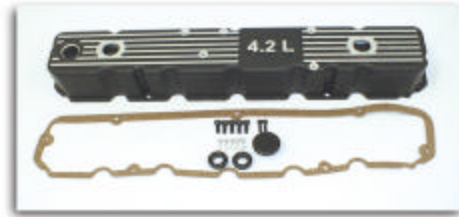
### **Step.2**

Make sure that the 4 inside baffle screws are tight and secured to cover before installation. These screws may have worked loose during shipping.

### **Step.3 ( Tapping of blank holes)**

You may find 5 of the 5/16” aligned holes will have no threads. These holes were used as guide hole only for the plastic cover and will require tapping. Tap the holes with a 5/16” x 18 thread “bottom” tap.

**CAUTION!! DRILLING HOLES TO BEEP WILL RESULT IN DRILLING INTO THE WATER JACKET!!**



#### **Step.4 (Missing holes)**

On some early models you may find two holes missing on each end of the head. For this application it will be required that the hole locations be marked with the new aluminum cover in position. Secured the cover in place with all existing holes aligned and mark the new hole locations with a good permanent marker. With the holes properly located use a punch to mark the center of the hole to insure proper drill bit placement. With great care drill the holes and use a ¼" x 20 "bottom" tap.

**TAKE CARE WHEN DRILLING AND TAPPING TO AVOID GETTING METAL SHAVINGS INTO OPEN HEAD OR OPEN OIL RETURN HOLES IN HEAD. A MAGNET LOCATED NEXT TO HOLES WILL HELP TO COLLECT THESE SHAVINGS.**

#### **Step.5 (Rocker bridge replacement)**

It may be required to replace the studded rocker bridges used for the plastic valve with new non-studded bridges under part number MRM1718 (17408.11) or the studs may be cut off if they interfere with fitment of the aluminum cover. Additional modifications may be needed to air conditioning and or air cleaner brackets for proper fitment. **DO NOT** modify or cut the aluminum valve cover as this will void any warranty.

#### **Step.6 (Installing valve cover)**

Clean all mounting surfaces and apply a thin coating of gasket sealant to help secure gasket and to properly maintain hole alignment during installation. Install cover and loosely tighten screws and Allen head bolts. Working from the inside out work around (Counter Clockwise) tightening all fasteners to **55 INCH LBS. DO NOT OVER TIGHTEN!!! VALVE COVER CAN CRACK. DO NOT USE FT-LBS TORQUE WRENCH OR DAMAGE TO COVER MAY RESULT. THIS WILL VOID ANY WARRANTY.**

**DO NOT USE A RUBBER GASKET OR YOU WILL CRACK THE VALVE COVER.**

#### **Step.7 (Final Check)**

Start engine and look for any oil leaks. If a leak occurs, check gasket for proper installation. NOTE: replacement gasket is thicker than the original. For proper replacement use OMIX part number 805305C-AL (17447.05).

\*\* A "bottom" tap is flat on one end rather than a point. This will allow you to cut thread all the way to the bottom of the hole. \*\*