

1 **Supplemental Information & Instructions**  
2 **for**  
3 **367-080 or CAM1157 EGR Valve (Replacement)**  
4 **MGB 75-80**

5 ***A Little History...***

6 The original Exhaust Gas Recirculation (EGR) valves have been out of production for years and years. It  
7 remains a critical part of a functioning emission control system, and some states will not pass a vehicle if  
8 you don't have a functioning EGR valve fitted.

9  
10 Why do you need one?

11 When temperatures in the combustion chamber exceed 2500 degree F, nitrogen (N) from the air begins  
12 to react with oxygen during combustion, forming compounds called nitrogen oxides (NOX), which play a  
13 major role in urban air pollution. To reduce the formation of NOX, combustion temperatures must be kept  
14 below 2500° F, the NOX threshold. This is done by recirculating a small amount of exhaust through the  
15 "exhaust gas recirculation," or EGR, valve. The EGR valve controls a small passageway between the  
16 intake and exhaust manifolds. When the valve opens, intake vacuum draws exhaust through the valve.  
17 This dilutes the incoming air/fuel mixture and has a quenching effect on combustion temperatures which  
18 keeps NOX within acceptable limits. As an added benefit, it also reduces the engine's octane  
19 requirements which lessens the danger of detonation, also called knocking. The EGR valve consists of a  
20 poppet valve and a vacuum diaphragm. When vacuum is applied to the EGR valve diaphragm, it pulls the  
21 valve open allowing exhaust to pass from the exhaust manifold into the intake manifold.

22 ***About the Moss EGR Valve...***

23 We are fortunate to be able to provide a replacement  
24 valve that works well on the 75-80 MGB. The  
25 instructions that come with the EGR valve are  
26 somewhat generic in nature, and the long list of  
27 Chrysler part numbers makes it clear that this was not  
28 originally intended for use on the MGB. The critical bit  
29 of information you need is the size of the proper  
30 orifice washer for the MGB, and that is the washer  
31 stamped "14".

32  
33 The rest of the instructions are reasonably  
34 straightforward and between the information here,  
35 and the information in the factory workshop manual,  
36 you should be able to sort this out.

37  
38 *The following page is a scanned copy of the*  
39 *manufacturer's instructions*  
40  
41



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Instruction Sheet 367-080\_CAM1157 October 2007

# REPLACEMENT INSTRUCTIONS EGR VALVE

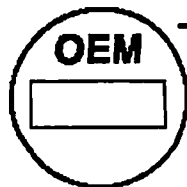
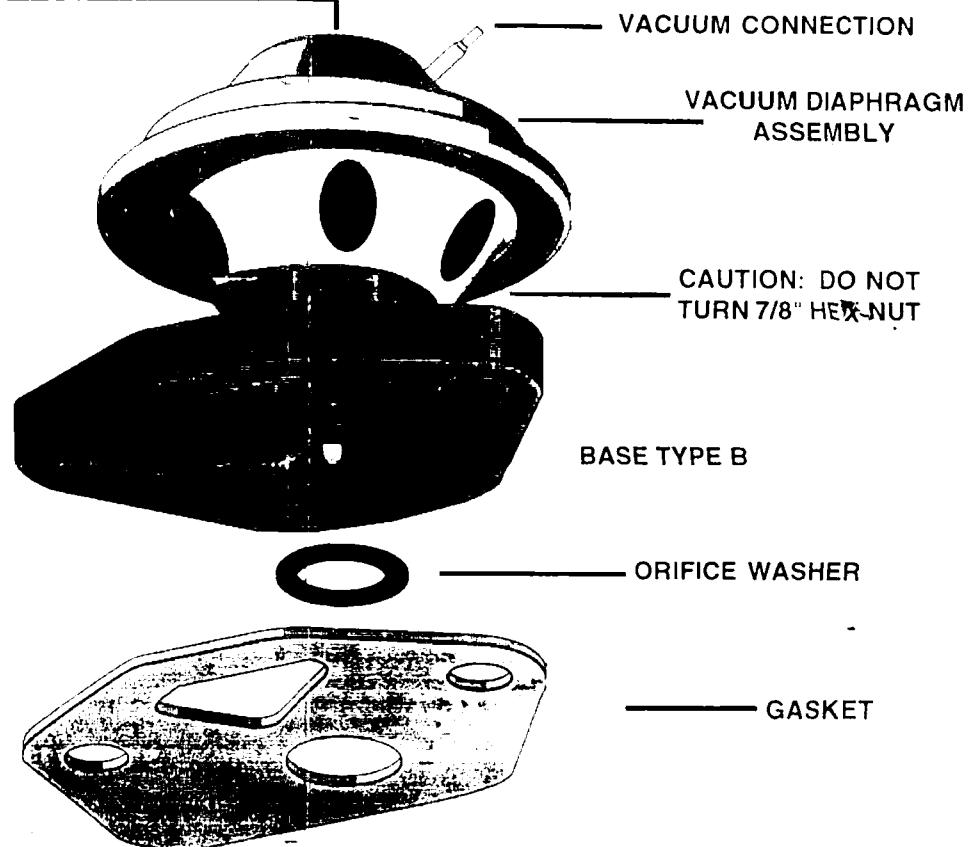


FIGURE 1

## TYPICAL VALVE ILLUSTRATION



FIGURE 2



**CAUTION:** Each EGR valve is specially calibrated for specific engine applications; therefore, be absolutely sure you install the correct replacement valve. This replacement valve calibration is further controlled by the size of the opening in the washer mounted in the exhaust gas inlet (see step 3, below). Physical appearance of replacement valve may differ from the valve on the engine; however, both perform the same function.

1. Disconnect vacuum hose and remove mounting bolts. Remove old valve and gasket(s) from mounting. **CAUTION:** Completely remove old gasket from mounting and clean all carbon deposits from the EGR passages in the manifold. Use care to prevent any loose particles from falling into manifold, where they might clog replacement EGR valve or become ingested into engine.
2. **IMPORTANT:** For future EGR valve identification, write original EGR valve part number on decal of the replacement valve (see figure 1). Place clear plastic disc provided over decal to protect it from the heat and contaminants within the engine compartment.
3. Orifice washer selection: Locate original valve part number on selection chart (reverse side) to find correct orifice washer number to use. Place valve assembly upside down on a block to prevent damage to vacuum line connection. Install orifice washer in recess of new valve with identifying number visible. Using a center punch and hammer, form a lip over washer at four points equally spaced around the recess to hold washer in place (see figure 2).
4. Properly align holes of new gasket(s) to valve and manifold. Replace assembly using original bolts. **NOTE:** A small amount of any automotive adhesive applied to outer edges around bolt holes will hold gaskets in place prior to assembly to manifold or spacer. Torque attaching bolts or nuts to manufacturer's specifications.
5. Rotate vacuum diaphragm assembly in clockwise direction to line up vacuum connection with vacuum hose. Reconnect vacuum hose. Start engine and warm up to operating temperature. Check for proper movement of EGR valve diaphragm by opening throttle to above idle. Valve shaft should move up to the open position and lower when RPM is reduced to idle. **If there is no movement, check vacuum source, hoses, and any control devices in path (e.g. delay valves, ported vacuum switches, control solenoids, etc.).**

# ORIFICE WASHER SELECTION CHART

5510-7-4

O.E. Stamping No.	Orifice Washer No.	O.E. Stamping No.	Orifice Washer No.	O.E. Stamping No.	Orifice Washer No.
<b>CHRYSLER</b>		<b>CHRYSLER (Cont'd)</b>		<b>CHRYSLER (Cont'd)</b>	
280659	9	4104027	33	4105103	30
280669	16	4104028	24	4105104	29
280672	15	4104029	16	4105111	31
280673	9	4104030	9	4105114	25
3769191	33	4104031	9	4105118	12
3769561	30	4104033	9	4105123	17
3769562	29	4104036	27	4105127	15
3769663	12	4104037	29	4105128	15
3769664	14	4104039	29	4105131	15
3769665	30	4104041	29	4105132	15
3830102	14	4104046	N/R	4105151	15
3830103	31	4104051	33	4105152	29
3830179	33	4104075	24	4107655	29
3830180	12	4104077	33	4131224	8
3870308	29	4104079	8	4275659	9
3870506	8	4104085	33	4275669	16
3870607	8	4104086	9	4275672	15
3870608	29	4104089	16	4275673	9
3870610	33	4104090	17	4287651	10
3870611	33	4104104	29	4287656	26
3870612	N/R	4104110	9	4287659	9
3870613	N/R	4104111	31	4287660	15
3870623	9	4104114	25	4287661	14
3870624	9	4104118	12	4287662	7
3870625	31	4104123	17	4287664	27
3870626	31	4104127	15	4287665	33
3870627	33	4104128	15	4287667	9
3870628	33	4104130	15	4287669	16
3870629	30	4104131	15	4287670	26
4006858	14	4104132	15	4287671	7
4006870	9	4104142	15	4287672	15
4006871	9	4104151	15	4287673	9
4006879	12	4104152	29	4287675	4
4006880	12	4105024	8	4287676	7
4006885	11	4105026	33	4287678	15
4006886	11	4105027	33	4287679	9
4006889	9	4105028	24	4287680	29
4006890	9	4105029	16	4287682	14
4006892	12	4105030	9	4287683	31
4006893	12	4105031	9	4287684	N/R
4015108	4	4105033	9	4287686	2
4026262	29	4105036	27	4287687	10
4041717	34	4105037	29	4287688	27
4041718	34	4105039	29		
4041722	14	4105041	29		
4041741	30	4105051	33		
4041745	31	4105075	24		
4095301	34	4105077	33		
4095302	34	4105079	8		
4095303	9	4105085	33		
4095304	9	4105086	9		
4104024	8	4105089	16		
4104026	33	4105090	17		