

SERVICE BULLETIN

No. 103

Date: April 21, 2006

Product/Part Number(s): 2030 mirror assemblies. Model 2030 mirrors mount on the front corner of Class A motor homes, fire/rescue vehicles to allow viewing through the windshield while minimizing head and eye movement. They are available in a variety of high quality finishes including triple-plated polished chrome, black semi gloss or high gloss bright white baked powder coat urethane. Options include remote controlled glass, heated glass, integrated turn signal and/or signal arrow in mirror glass.



Subject: This service bulletin assists in the disassembly of the model 2030 for head, arm, and base replacement.

Situation: Due to repairs which need to be done on mirror assemblies separate components can be replaced individually.

Solution: This service bulletin will outline the disassembly and replacement of the 2030 mirror head, arm, and base. The replacement of component parts results in less inventory for the repair facility and less cost for the end user.

For head replacement see: STEP 1.

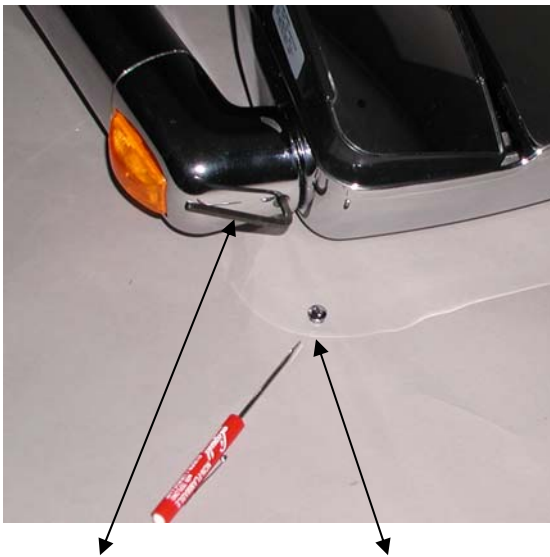
For base replacement see: STEP 2.

For arm replacement all steps are necessary.

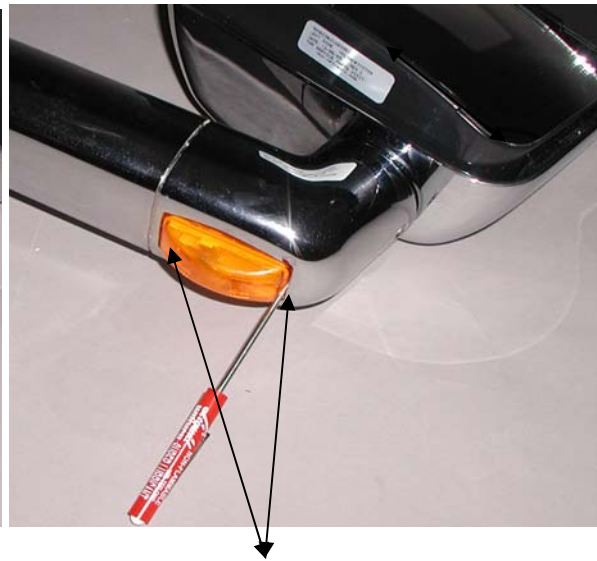
Procedure: After removing the mirror assembly from the coach place the assembly on a flat surface, workbench, protecting the mirror from scratches and abrasions.

STEP 1: REMOVAL OF THE MIRROR HEAD.

Using a small flat head screw driver remove the set screw cap cover located on the arm under the mirror head. It will reveal a set screw recessed into the mirror arm. Using a 3/16" allen wrench loosen the set screw three full turns. It is not necessary to remove the set screw from the arm. To gain access to the wiring connectors the marker lamp will have to be removed from the arm. On some 2030s a black cap is used rather than a marker lamp. They are both removed using the same method. Gently pry from either end of the lamp with a thin small screwdriver.



Allen wrench Set screw cap



Pry here to remove lamp

After the marker lamp / cap is removed from the arm disconnect the electrical snap plugs from the lamp. The electrical connectors inside the mirror arm can be accessed through the rectangular hole. Pull enough wires through the marker lamp / cap hole and disconnect the wire housings. The mirror head can now be removed from the arm. Inside the arm is a pivot clamp, looks like a C, which interfaces with the mirror head shaft and the set screw.



Lamp Access hole Cap Wire housings



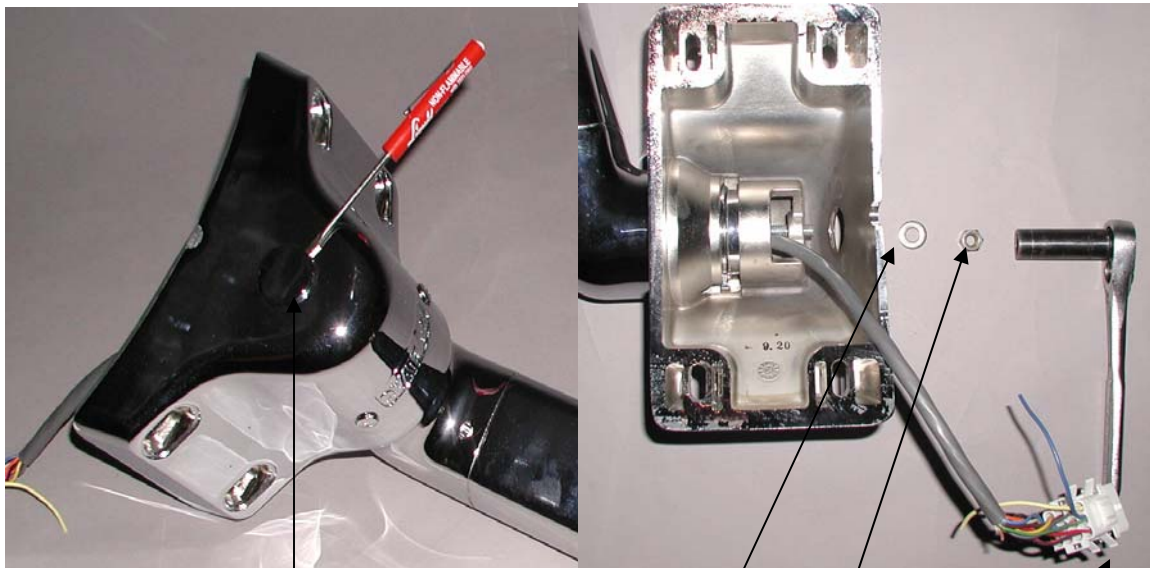
Pivot clamp Set screw

STEP 2: REMOVAL OF THE BASE.

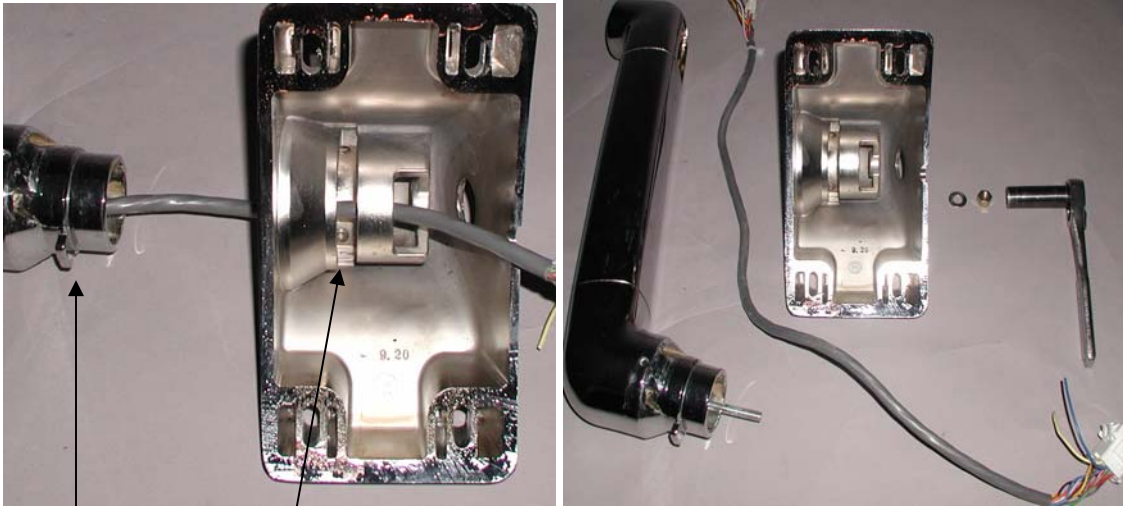
The set screw cap covers are removed from the base assembly to gain access to the set screws. Using a 3/16" allen wrench loosen the base set screws two complete turns. It is not necessary to remove the set screws from the base.

**Set screw caps****Set screw location**

The base has a round 1" cap which can be removed by prying with a small flat screw driver or reaching inside the base and pushing the cap out of the base with a finger or similar object. When the round cap is removed from the base you will have access to a lock nut attached to a eye bolt which secures the base and arm assembly. Enter through the access hole with a 1/2" socket and remove the lock nut and flat washer.

**1" Round cap****Flat washer Lock nut Wire Connector**

The arm has a tab which fits inside a groove of the base. Turn the base 90 degrees to allow the tab to come out from the open area inside the base. The base and arm can be separated. If the wire connector is too large to fit through the opening in the base the wires can be cut then butt connected when the new base is installed.

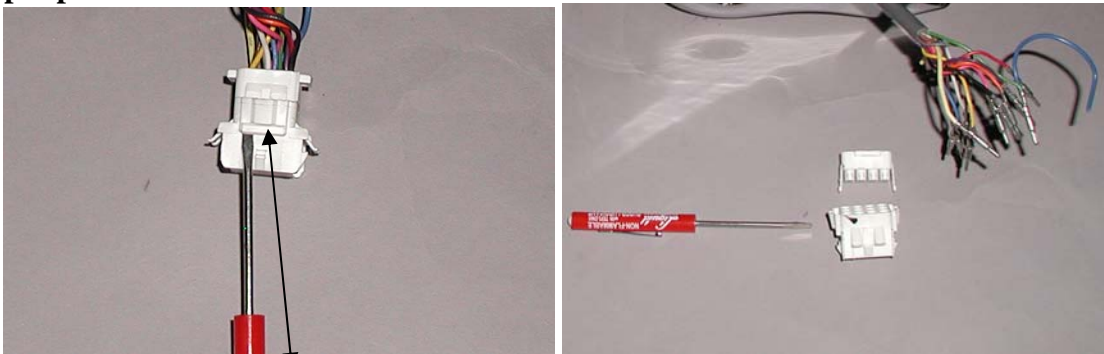


Tab

Groove

Arm and base disassembled

NOTE* On Monaco mirror assemblies the connector coming out of the base can be disassembled allowing the wires to be pulled through the base. The connector is two piece construction and can be disassembled. If choosing this method the wire locations should be documented so they are installed in the proper pin position when the connector is re assembled.**



Pry here to separate both sides

Disassembled connector

Assembly will be the reverse of this procedure. To assist in placing the wiring harness through the mirror arm a “fish” line can be used. The fish line is attached on the harness and is used to pull the wiring harness through the mirror arm.



Fish line attached to harness



Harness pulled through arm assembly

If additional assistance is needed with this procedure contact Velvac’s Technical Service Department at 1-800-783-8871 or technicalservice@Velvac.com.