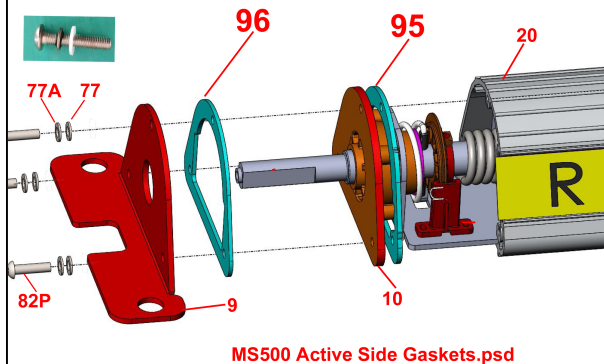


# MySpot 500 Sealing

## Service Bulletin SB34 rev3

### BACKGROUND

The MySpot 500 parking barrier is rated IP67 meaning that it is sealed against water and sand. This service bulletin addresses solutions if you encounter problems sealing an old unit.



The sealing depends on 4 gaskets and on special washers under each of the 6 screws that clamp the housing. There are also 2 flat head screws that hold bracket #89 to the housing for a total of 8 screws. The reference numbers relate to pictures and sketches in this service bulletin (SB) and in the MySpot 500 Service Manual.

This service bulletin is aimed at the technician tasked with updating older units (Shipped prior to January 2018).

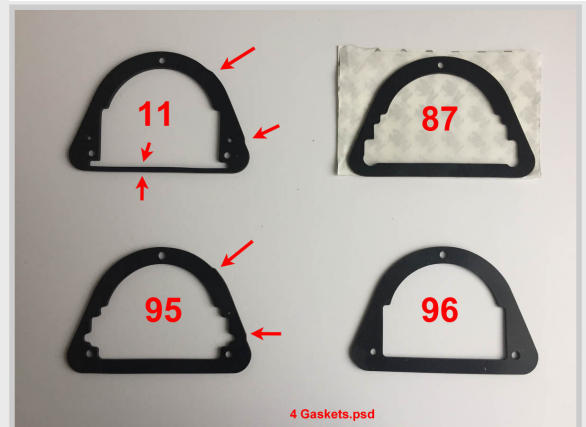
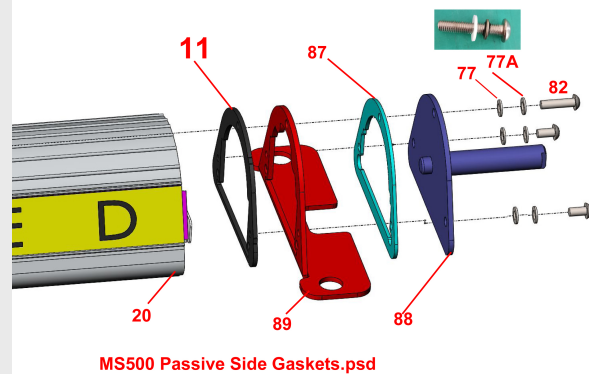
**The only way to know for sure that the housing is sealed is through a pressure test. See details in page 3.**

### THE GASKETS

There are subtle differences between the 4 gaskets. It is essential not only that the gaskets be installed in the appropriate positions, but also to observe the direction of 2 of the gaskets as they are not sym-

metrical.

**Gasket #11** has a 'hump' on one side as shown by the 2 red arrows in the picture above. This hump should be positioned so that it faces the yellow "Reserved" label side of the housing. The hump seals the



entry to the channel behind the label where the antenna is located. Gasket 11 can be recognized as it has the very narrow section in the bottom.

Gasket 11 does not usually have to be changed, as it is factory installed and protected



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by bracket 89. (Accessing the battery does not involve removing bracket 89 from the housing 20.)

We recommend replacing gasket 11 only if you are unable to maintain pressure in the unit and the bubble test shows leaks from the bottom of the "passive" side. Note that the gasket MUST line up with the housing so that there is no gap at the shown area.

**Gasket #87** has an adhesive backing protected by paper. This gasket is to be glued to the shaft bracket 88; when replacing batteries in the field, the glued gasket will not shift, get dirty or move from its precise location.

**Gasket #95**, like #11, has a 'hump' on one side, that needs to be placed over the Reserved label channel. This gasket is located at the end of the mechanical assembly 80 (see above) and requires pulling out the active side. This gasket can be slid over the mechanical assembly without removing the Defense assembly 30.

Our experience shows that the replacement of this gasket in units version V0.6 and earlier contributes to the ability of building pressure in the housing. If there are no pressure leaks, **do not tamper with this side of the housing as it requires pulling out the entire mechanical assembly. You MUST consult the Service Manual before attempting this step.**

To discourage tampering by the user with this side of the assembly, new units now use a security screw (#82P) for the 3 screws on the active side.



**Gasket #96** is essentially unchanged from the older versions and there is rarely a

reason to replace the old one unless the old gasket was mechanically damaged.

**Washers #77, 77A** are critical to maintaining a perfect seal. These washers compress to fill the gap between the bolt head and the clearance holes in the brackets. We recommend replacing these washers if a leak is detected in the area of the screws that clamp the end brackets to the housing. The sequence of the washers on the bolt must be maintained as shown — first place #77, the 77A on the bolt.



Note that in earlier version of this SB, #77 was referred to as #93, in error.

### TORQUE REQUIREMENT

All 8 screws must be tightened to a torque of at least 6 Kg-cm (85 oz-inch).

### PRESSURE TEST

The only way to make sure that the housing is 100% sealed against standing water is through a pressure test. This test requires a tool custom



made by DPC. The vent at the back of the housing is unscrewed and the adaptor of the tool is screwed in instead. Pump the balloon gently to a pressure of 40 mmHg. The pressure droop (rate of drop) should not exceed **1mmHg per 10 seconds**. Any droop faster than that will allow water to eventually enter the housing.

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If you encounter a leak, and you have used both #77 and #77A washers, first tighten all 6 screws on both sides of the housing. If that does not resolve the leak, you will need to either immerse the entire unit in a tub with water, or use a foaming dispenser with soap and look for bubbles.



Places to look for leaks are at the heads of the 6 screws and at the bottom end of the passive bracket, as well as anywhere along the housing ends and even the "RESERVED" label seams.

### ORDERING PARTS

#11	54-4012	Gasket
#87	54-4013	Gasket
#77	43-0024	Nylon washer
#77A	43-3002.2	Hybrid washer
#95	54-4015	Gasket
#96	54-4016	Gasket
#tool	01-7013	Pressure tool
#82	41-1030.020	Screw
#82P	41-1030.02P	Security screw

