

# Product Information News

July 14, 2009

## ENHANCED CYLINDER VALVE GAUGE GUARD (BOOT) INSTALLATION PROCESS

MSA developed a product enhancement to the retention of the cylinder valve gauge guard. This enhancement can be purchased and assembled by MSA Certified Air Mask Repair Technicians by purchasing part number 10104520 (Pack of 10 also available by purchasing part number 10104820). The following instructions show the proper installation of the boot and inspection of the cylinder gauge to ensure product can be placed into service.

### INSTALLING NEW CYLINDER GAUGE GUARD

1. Cylinder can be retained in the carrier on a level surface. Rotate the cylinder so the gauge faces down. (Figure A)
2. Remove the old boot.

**Note:** If the gauge guard is or was missing, inspect the gap visually and with a 0.477" pin gauge. (See Inspection with Pin Gauge section)

3. Use the boot hole as a template and center punch the hole as a guide.
4. On a 1/8" bit, mark a depth of 7/16" by using a piece of tape or marker on the drill bit (Figure A).
5. Align the drill bit to the center punch and drill hole to a depth of 7/16".
6. Place the gauge guard boot (801131) back on the cylinder valve.
7. Install the pin through the boot and into the valve.
8. Tap into place with small (i.e. 8 oz.) ball peen hammer and pin punch. The pin should remain slightly above the boot so as the boot can be pulled over if necessary to remove (Figure B).

### INSPECTION WITH PIN GAUGE

1. Look for any damage to the valve and gauge, ie gouges, dents, missing anodizing due to damage, specifically on the cylinder valve foot and knurled gauge bezel. Replace damaged components.
2. Use a 0.477" pin gauge to check the distance between the cylinder valve body and cylinder pressure gauge (See Figures C and D).

**Note:** The 0.477" gauge should be placed squarely into the gap but not forced.

3. If the gauge does not fit, the gap is less than the maximum distance and is acceptable and can be used in service (Figure D).
4. If the pin gauge fits into the gap, it means that the gap is more than nominal and is unacceptable and the cylinder must be bled immediately and the cylinder valve valve body and gauge need replaced (Figure C).

**Note:** Reference Figure E for guidance and further illustration of unacceptable and acceptable product.



Figure A



Figure B

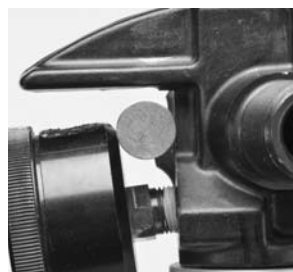


Figure C  
Unacceptable



Figure D  
Acceptable



Figure E  
Unacceptable                      Acceptable

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