



MSA Air Mask Upgrades

NFPA 1981-2002 Edition

MSA
The Safety Company



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The NFPA 1981- and 1982-2007-edition standards for self-contained breathing apparatus and personal alert safety systems (PASS alarms) have taken firefighter protection to the next level.

The new standards establish enhanced minimum performance requirements for heat, impact, and water resistance of electronics: SCBA facepiece communications; PASS alarms at 500°F; PASS data logging; PASS protection from becoming muffled; SCBA cylinder retention; and CBRN protection.

These requirements were developed over several years through research and testing, with the input of countless firefighters across the nation. Specific details of the revisions can be found on MSAnet.com, entitled [Highlights of the NFPA-2007-Edition SCBA and PASS Standards](#) (bulletin #0170-02-MC).

MSA now offers upgrade kits that will bring your 2002-edition MSA FireHawk® Air Masks into compliance with the NFPA 2007-edition standards.

However, due to the combined changes associated with the NFPA 2002-and 2007-edition standards, MSA air masks manufactured to the NFPA 1997 or previous editions may require purchasing a complete air mask less cylinder using MSA's FireHawk M7 Air Mask ATO ordering matrix.

Once your upgrade is complete, your air mask will have new electronics (with the exception of electronic communication devices), a new carrier and harness, and possibly, new Firehawk MMR regulator components. MSA components required for NFPA 2007-edition standards are described on the next page.

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1 FireHawk M7 HUD Transmitter

The FireHawk M7 HUD Receiver has the same great benefits of the previous MSA NightFighter® HUD Display, with LEDs to indicate cylinder status, low battery, and PASS motion alarm, complemented by an auto-dimming feature, as well as intermittent and continuous-on modes. However, the new design offers a lower profile and provides greater visibility of facepiece LEDs, and is also powered by three AAA batteries for superior run time.



2 FireHawk M7 Carrier & Harness

The all-new FireHawk M7 Carrier and Harness was designed to integrate the rear-mounted Power Module and provide optimal comfort and weight distribution to the firefighter. The backplate has been extended by two inches with a form-fitting contour to the lower lumbar area. Existing Vulcan™ and AirFrame™ Carrier soft goods, including the rescue belt, can be used. If you don't already have a rescue belt system, be sure to give it careful consideration in your upgrade. This NFPA-compliant integrated rappelling system could be one more life-saving option in the face of danger.



3 M7 PASS Alarm

Control Module

The new FireHawk M7 Control Module incorporates all the time-tested features of the previous ICM® Tx PASS that firefighters want, such as a time-remaining function, a backlit digital display, data logging, optional thermal alarm, and a solid-state accelerometer motion sensor. A mechanical gauge has been added for redundant pressure readings. You'll no longer find batteries in the Control Module, since it's powered by four C cells in the new FireHawk M7 Power Module, providing unsurpassed power capacity and battery life for low maintenance and high reliability.



Power Module

The new FireHawk M7 Power Module is the engine of the PASS device, housing four C cell batteries and driving the all-new patent-pending sound emitters. Buddy lights have also been added to the power module for enhanced visibility.

Choosing the MSA Accountability System, also contained within the Power Module, is a serious consideration for any fire department. The Accountability System provides a wireless link to incident command to monitor the critical safety status of your air mask, such as cylinder pressure, time remaining, PASS alarms, and low pressure alarms. The MSA Accountability System even has provisions for incident commanders to send an evacuate signal to firefighters and receive an acknowledgement response. Be sure to take a close look at the Accountability System when selecting the features included in your new upgrade kit.



MSA Air Mask Upgrade Kit to NFPA 1981 & 1982, 2007 Edition*

Ordering Selection Matrix

What is the Operating Pressure of your Air Mask?	What Type of Regulator is in Use on your Air Mask?	What Style of Firehawk is in Use?	What Type of 1st Stage Regulator is in Use?	Is the Air Mask Equipped with Shoulder-Mounted Quick-Fill?*	Is your Air Mask Equipped with Dual-Purpose?	What Type of Facepiece is in Use?	Size of Ultra Elite to be Ordered	What Type of Carrier/Harness is in Use?	M7 Carrier to be Ordered	Lumbar Pad to be Ordered	What Type of PASS Device to be Ordered?
A 2216 B 3000 C 4500	A Firehawk MMR B 1/4 Turn Regulator C 1/4 Turn Regulator with ExtendAire	A CBRN Firehawk MMR B Non-CBRN, STC, Threaded C Non-CBRN, PTC, Threaded D Non-CBRN, STC, Quick-Connect E Non-CBRN, PTC, Quick-Connect What style of Firehawk is needed? F STC, Threaded G PTC, Threaded H STC, Quick-Connect J PTC, Quick-Connect If you have ExtendAire, choose options H or J	A PR-14 B Old Style 1st Stage Regulator is not included in the kit.	A Yes B No C No, Upgrading to Shoulder-Mounted Quick-Fill Now ** If the unit to be upgraded is 3000 psi, you cannot have a Quick-Fill.	A Yes B No	A Hycar with Speed-ON Head Harness B Hycar with Rubber Head Harness C Silicone	A None B Small C Medium D Large	A Vulcan/Airframe with single pull waist belt B Vulcan/Airframe with double pull waist belt C Black Rhino	A None B Single pull without chest strap C Single pull with chest strap D Double pull without chest strap E Double pull with chest strap	0 None 1 Swiveling lumbar pad A Rescue Belt standard, 50' B Rescue Belt mid-size, 50'	A With Thermal Alarm activated B Without Thermal Alarm activated C With Thermal Alarm activated and Telemetry D Without Thermal Alarm activated and with Telemetry

* Air masks must be NFPA 1981:2002 edition compliant prior to upgrading to 2007 edition.

B-M7K-

Part Number

Ultra Elite® M7 Facepiece, Speed-ON® Head Harness, Nosecup, and M7 HUD Bracket

	Firehawk STC		Firehawk PTC	
	Standard speaking diaphragm	ClearCommand® System-ready	Standard speaking diaphragm	ClearCommand System-ready
Small	10084689	10084821	Small	10084690
Medium	10084823	10084825	Medium	10084824
Large	10084827	10084829	Large	10084828

Spare / Replacement FireHawk M7 HUD		APR Adapter	
FireHawk M7 HUD	FireHawk M7 HUD with bracket	Firehawk STC	Firehawk PTC
10091446	10091447	10091446	10091447

Accountability

Accountability Base Station Kit (includes software, magnetic antenna kit, USB cable, wall-mount cable, and 8-24 volt power cable)	10072240
Accountability Base Station Kit (includes software, fixed antenna kit, USB cable, wall-mount cable, and 8-24 volt power cable)	10098767
M7 Control Module Reader / M7 ID tag writer	10083876
M7 ID tags	10083875
Antenna Kit with magnetic base	10075756
Antenna Kit with fixed base	10098766
USB cable	10063880
8-24 volt, power cable	10049410
Wall-mount power cable	10047342

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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