SUPPLEMENT

TECHNICAL MANUAL

OPERATOR AND FIELD MAINTENANCE MANUAL
(INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST)

FOR

MASK, CHEMICAL-BIOLOGICAL: JOINT SERVICE GENERAL PURPOSE, FIELD, M50
(4240-01-512-4431) SMALL
(4240-01-512-4434) MEDIUM
(4240-01-512-4437) LARGE
AND
MASK, CHEMICAL-BIOLOGICAL: JOINT SERVICE GENERAL PURPOSE, COMBAT VEHICLE, M51
(4240-01-512-4429) SMALL
(4240-01-512-4435) MEDIUM
(4240-01-512-4436) LARGE

This manual supplements TO 14P4-20-1, dated 30 May 2008; supersedes TO 14P4-20-1E, dated 9 September 2012. Reference to this supplement will be made on the title page of the basic manual by personnel responsible for maintaining the manual in current status.

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TO before change

1. Work Package 0018 00, Page 0018 00-2, Step 6, of the basic manual is amended to read as follows:

   6. Remove M61 filters, (WP 0032 00), self-sealing disk valves (WP 0031 00), air deflectors (WP 0028 00) from filter mounts and inlet disk valves (WP 0030 00).

2. Work Package 0018 00, Page 0018 00-2, below Step 6, of the basic manual is amended to add the following NOTE to read as follows:

   NOTE

   Self-sealing and inlet disk valves may be retained for possible re-use.

3. Work Package 0018 00, Page 0018 00-2, Step 9, of the basic manual is amended to read as follows:

   9. Remove outlet valve cover assembly (WP 0025 00) and outlet disk valve (WP 0029 00).

4. Work Package 0018 00, Page 0018 00-2, below Step 9, of the basic manual is amended to add the following NOTE to read as follows:

   NOTE

   Outlet disk valves may be retained for possible re-use.

5. Work Package 0018 00, Page 0018 00-3, prior to Step 10, of the basic manual is amended to, add another NOTE, to read as follows:

   NOTE

   The internal drink tube may be reused if sanitization is being conducted by the Air Force Mask Inspection and Repair Program, if serviceable.

6. Work Package 0018 00, Page 0018 00-3, Step 20.a, of the basic manual is amended to read as follows:

   a. Install outlet disk valve and outlet valve cover assembly as follows:

      (1) Inspect outlet disk valve.

         (a) Visually inspect disk for dryness, damage and/or deterioration.

         (b) Ensure that the disk lay flat. Place disk on a disinfected or sanitized dry flat surface and check that disk lie flat with no visible defects or deformities.

         (c) Any valve disk that does not meet the inspection criteria or cannot lie flat on a table/ benchtop must be discarded and replaced with a new outlet disks valve.

      (2) Install serviceable outlet disk valve (WP 0029 00).

      (3) Install outlet valve cover assembly (WP 0025 00).

7. Work Package 0018 00, Page 0018 00-4, Step 24, of the basic manual is amended to add the following steps to read as follows:

   a. Install inlet disk valves and self-sealing disk valves as follows:

      (1) Inspect inlet disk valve.

         (a) Visually inspect disk for dryness, damage and/or deterioration.

(b) Ensure that the disk lays flat. Place disk on a disinfected or sanitized dry flat surface and check that disk lays flat with no visible defects or deformities.

(c) Any valve disk that does not meet the inspection criteria or cannot lay flat on a table/ benchtop must be discarded and replaced with a new outlet disks valve.

(2) Install serviceable inlet disk valve (WP 0030 00).

(3) Inspect self-sealing disk valves.

(a) Visually inspect disk for dryness, damage and/or deterioration.

(b) Ensure that the disk cup at outside perimeter edge sits flat. Place disk on a disinfected or sanitized dry flat surface and check that disk cup at outside perimeter edge sits flat with no visible defects or deformities.

(c) Any valve disk that does not meet the inspection criteria or the cup cannot sit flat at perimeter edge on a table/benchtop must be discarded and replaced with a new outlet disks valve.

(4) Install serviceable self-sealing disk valves (WP 0031 00).

8. Work Package 0038 00, Page 0038 00-1/2 blank, Air Force and Navy Only NOTE, of the basic manual is amended to read as follows:

NOTE

(Air Force Only)

All JSGPM series masks shall be inspected using the Joint Service Mask Leak Tester (JSMLT) prior to issuing to an individual in order to identify deficient masks. Masks in long-term storage will be tested once initially and then prior to issue if more than three years has passed since last tested. Mask test must be conducted every three years and documented in accordance with WP 0001 00.

THE END

GENERAL – Continued

NOTE

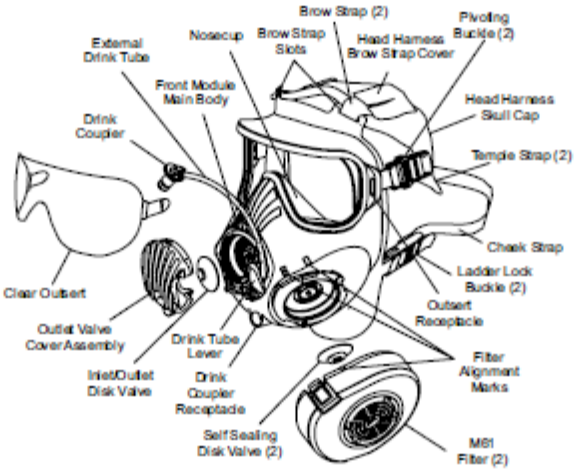
When you sanitize a mask, use only potable water.

Sanitizing is required before mask is transferred to another warfighter and when the mask is turned in as serviceable excess.

The mask must be cleaned prior to sanitizing. Refer to (WP 0017 00).Cleaning The Facepiece Assembly.

The mask must be cleaned, sanitized and inspected if contaminated with petroleum, oils, or lubricants (POL).

SANITIZING THE MASK



1. Remove M50 (WP 0005 00-1) or M51 (WP 0005 00-20) mask from mask carrier.
2. If installed, remove the vision correction assembly (WP 0033 00) from mask.
3. Remove clear outsert from mask if attached (WP 0007 00).
4. Remove the sunlight and laser outserts, if issued, from the outsert pocket on the mask carrier.
5. Remove head harness (WP 0027 00).

See SUPP H

6. Remove M61 filters, (WP 0032 00), and discard self-sealing disk valves (WP 0031 00). Remove air deflectors (WP 0028 00) from filter mounts and discard inlet disk valves (WP 0030 00).
7. If installed, remove the audio frequency amplifier (WP 0008 00).
8. If installed, remove the audio frequency amplifier adapter (WP 0008 00).

See SUPP H

9. Remove outlet valve cover assembly (WP 0025 00) and discard outlet disk valve (WP 0029 00).

SANITIZING THE MASK – Continued

See SUPP H

NOTE

Only discard internal drink tube if mask is being transferred to another warfighter or it is unserviceable.

10. Remove and discard internal drink tube (WP 0042 00).

11. If sanitizing an M51, remove the microphone, microphone adapter (WP 0012 00), communications lead (WP 0013 00), and protective hood (WP 0034 00).

NOTE

Prepare enough sanitizing solution to cover facepiece. Use one gallon of solution for every 10 masks.

12. Add level 1/2 teaspoon of calcium hypochlorite (Item 5, WP 0050 00) to each gallon of clean water in a utility pail (Item 13, WP 0050 00).

WARNING

Ensure that calcium hypochlorite is fully dissolved. If not, drinking system can be damaged, resulting in leaks and hazard to personnel.

13. Mix thoroughly to dissolve calcium hypochlorite.

14. Immerse facepiece, outserts, air deflectors, head harness and outlet valve cover, for 5 minutes in sanitizing solution.

15. After 5 minutes, gently agitate the facepiece in the solution while wiping with an outsert pouch. Take particular care to clean around and behind the nosecup.

16. Lift out facepiece and shake off excess solution.

17. Rinse facepiece in clear warm water, gently agitating for 2 minutes.

18. Invert the facepiece so the top is pointing to the ground to allow excess water to drain.

19. Moisture remaining on the facepiece, outserts, air deflectors, and outlet valve cover assembly may be wiped dry using a clean, dry outsert pouch or allowed to air dry. Hang head harness to air dry.

20. Sanitize the drinking system.

See SUPP H

a. Install new outlet disk valve and reinstall outlet valve cover assembly .

b. Remove water canteen cap, fill canteen with calcium hypochlorite solution (Item 5 WP 0050 00) and replace water canteen cap.

c. Remove drink coupler from its housing and unwrap external drink tube from the front module main body.

d. Open water canteen cap retaining strap on water canteen cap.

e. Connect the drink coupler to the water canteen cap and turn the drink tube lever on the front module main body upward, until it stops and is fully opened, to open the drink tube shutoff valve.