Data Module Code: SPARTAN-AAA-00-00-00A-0000-A

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SAPTRON-ST

Maintenance Instructions

Security Classification: NO SECURITY RESTRICTIONS

Quality Assurance Status: First verification performed with drawings and on the compo-

nent.

Applicable to: SPARTAN

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References No References

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1. Maintenance Instructions

The operator should inspect the unit before each use and after it has been in extreme conditions, such as prolonged exposure to intense temperatures. The following procedures will extend the life of the unit and help ensure safe operation.

2. Inspection / Periodic Maintenance Checks

The table below provides the details for inspection / maintenance checks to be done with the unit periodically.

S. No.	Inspection / Test		Description (Periodic Checks)	Status / Remark
1	Visual Inspection (Initial Verification Checks	Ruggedized Container and packaging details	Visually check for dirt or foreign material on the ruggedized container. Check for tears, cuts, excess wear, or damage. Open the ruggedized container and visually verify items by comparing them with the data specified. Open the ruggedized container and visually verify items by comparing them with the data specified.	Clean as required.
2	Visual Inspection (Initial Verification Checks	Spartan Unit	Visually check for damage including cracks, missing parts, and any other visible defects. Check for damage and missing parts.	Clean as required.
3	Visual Inspection (Initial Verification Checks	Control buttons	Check for engraving details on the control buttons. Ensure that the buttons are working and are not stuck	Clean as required.

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4	Visual Inspection (Initial Verification Checks	Lens and Cap	Visually check for cleanliness, scratches, cuts, tears, dirt, and foreign material. Check for proper cap fitting.	Clean as required.
5	Visual Inspection (Initial Verification Checks	Eye Guard	Visually check for cuts, tears, dirt, torn, bent or improperly fitting eye cup.	Clean as required.
6	Visual Inspection (Initial Verification Checks	Battery Compartment, and Cap	Visually check the battery compartment for dirt, dust, moisture, and defective contacts. Visually check the battery compartment cap for damaged or retainer breaks. Check for the proper working of battery compartment cap.	Clean as required.
7	Visual Inspection (Initial Verification Checks	External Interface Port	Visually check for damage, corrosion, moisture, and connector pin bends. connector pin bends. Visually check the connector cap for damage or retainer breaks.	Clean / replace as required
8	Visual Inspection (Initial Verification Checks	Battery Inspection	During this inspection, thoroughly examine the battery health, including cuts or damage to the casing, swelling or oxidation of terminals. This will help prevent potential damage to	Clean / replace as required

to be continued ...

			both the user and the system.	
9	Visual Inspection (Initial Verification Checks	Optical Surfaces	Inspect all lenses for dirt, fingerprint residue, chips, or cracks.	Clean as required.
10	Visual Inspection (Initial Verification Checks	Battery Endurance	Prior to every mission, it is beneficial to perform a battery endurance check to assess battery health and reliability.	Ensure battery is fully charged and functioning before the next mission.
11	Visual Inspection (Initial Verification Checks	AC-DC, DC-DC Adapter for battery charger	Visually check for damage or corrosion or missing parts. Check for proper operation and LED indication.	Clean as required.
12	Visual Inspection (Initial Verification Checks	External Interface Port	Visually check for damage, corrosion, moisture, and connector pin bends. Visually check the connector cap for damage or retainer breaks.	Clean / replace as required
13	Performance Checks	Power On Inspection	Insert the battery into the Spartan unit. Power the unit On as per procedure. Check the thermal image on the display.	If a problem persists, refer Section 7 for fault diagnosis
14	Performance Checks	Control buttons	Ensure that the control buttons are responsive.	If a problem persists, refer Section 7 for fault diagnosis

NOTE: To ensure optimal performance and safety, it is crucial to conduct regular visual and periodic inspections while the system is in active use.

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NOTE: To maintain the system's operational capability when it is not in active use or is in storage, it is recommended to power the system at regular intervals, such as fortnightly to ensure its proper functionality.

3. Cleaning Procedure

CAUTION: Before performing any inspection or maintenance procedure, verify that unit is powered Off and the battery is not installed.

A. Battery Removal and Cleaning

- 1. Open the battery compartment cap by turning it anticlockwise.
- **2.** Remove the battery from the battery compartment.
- 3. Clean the battery compartment and cap using a clean cotton cloth.
- **4.** Wipe away dirt, dust, and corrosion.
- **5.** Wipe it dry with a soft, clean cotton cloth or allow unit to air-dry.
- **6.** Close the battery compartment and secure the cap by turning it clockwise.

B. Cleaning Optical Surfaces

CAUTION: Before performing any inspection or maintenance procedure, verify that unit is powered Off and the battery is not installed.

- 1. Blow any loose dirt or grit away from the surface of the lens
- **2.** Moisten the supplied lens tissue with water or lens cleaning fluid. Lightly wipe the optical surfaces in a circular motion from the center of the lens outwards.
- 3. Dry with a clean unused lens tissue.

NOTE: Discard the lens tissue after use to avoid transferring grit or foreign matter onto the lens surfaces.

C. Cleaning the Unit and Accessories

- **1.** Gently wipe the outside of the unit, (except optical surfaces), weapon mount, helmet mount, and external interface cable using a moist clean cotton cloth..
- **2.** Wipe away dirt and dust that may restrict performance or damage moving and mating parts.
- **3.** Ensure that the area around control buttons and brackets are clean and free from any damage / dust. If needed, use a diluted detergent solution.
- **4.** Wipe dry with a soft, clean cloth or allow unit to air-dry before storing it.

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