Instructions

ALTAIR® 4XR sensors can be safely replaced by following proper grounding, careful removal, correct alignment, and device restart procedures.

Safety Precautions

Before replacing any sensor, ensure the device is **turned off** and you are **properly grounded** to prevent static damage to the electronics, which is not covered under warranty and could compromise safety. Avoid touching internal components with metallic or conductive objects while the case is open. Always use **genuine MSA replacement sensors** to maintain device integrity and compliance.

Step-by-Step Sensor Replacement

1. **Open the Device Case**: Remove the four case screws and carefully lift the front, noting the orientation of the sensor gasket.
2. **Remove the Old Sensor**: Using fingers only, gently rock and pull the sensor straight from its socket. Toxic, combustible, or oxygen sensors should be handled carefully.
3. **Install the New Sensor**: Align the sensor contact pins with the PCB sockets. Ensure the tab on the sensor aligns with the groove at the top of the holder. Insert sensors in the correct positions:
    - **Toxic sensor**: left-hand position
    - **Oxygen sensor**: right-hand position
    - **Combustible sensor**: middle position

    If a sensor is not installed, insert a sensor plug in its place.
4. **Reassemble the Device**: Reinstall the case front and screws, tightening each to **6.00 in-lbs (0.678 Nm) ±0.028 Nm** to maintain the IP68 rating.
5. **Power On and Verify**: Turn on the device. It will automatically detect the new sensor and display **"SENSOR DSCVRY"** followed by **"SENSOR CHANGE"**.

Additional Considerations

- After replacement, perform a **calibration** to ensure proper sensor function.
- Sensor changes can also be managed via **MSA GALAXY GX2 Test Stand or MSA Link software** for configuration and alarm setup.
- Always adhere to **local safety regulations** and company policies when handling and testing the device.

  Following these steps ensures that your ALTAIR® 4XR continues to provide accurate gas detection and maintains its safety certifications. For visual guidance, MSA provides a **YouTube tutorial** demonstrating sensor replacement.