



# ELECTRON MACHINE CORPORATION

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## Sensing Head Replacement

(Refer to [www.electronmachine.com](http://www.electronmachine.com) for an online video demonstration)

1. Remove Sensing head from pipeline adapter

\*\*\*\* Before Removing\*\*\*\*



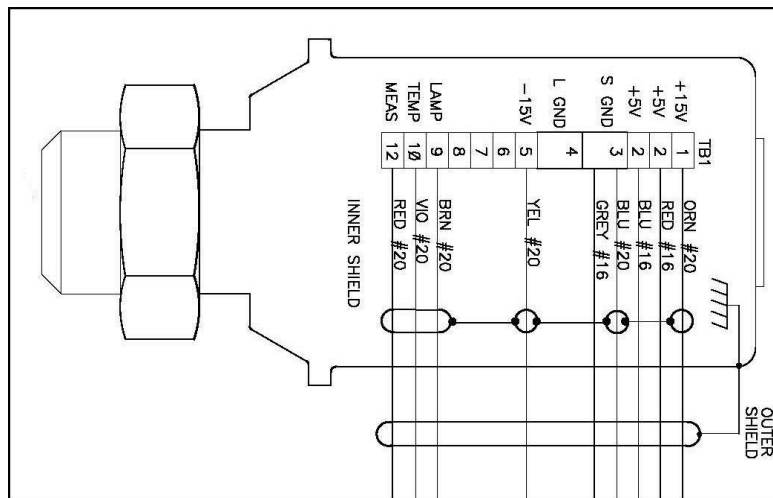
Ensure no pressure is felt on installed sensing head.  
 Ensure pipeline level is drained.  
 Install maintenance plug any time sensing head is removed from pipeline adapter.  
 Always use PPE when removing sensing head.

2. Turn-off power to entire MPR E-Scan System

3. Remove Sensing Head Cover by unscrewing



4. Take note of wiring color/label wire location/ refer to I/C Drawing
5. Loosen/Remove wires from terminal strip
6. Loosen squeeze fitting cap
7. Remove cable from sensing head
8. Re-install sensing head cover before returning head for repair



9. Check for EOS Sheet attached to replacement sensing head to ensure proper range for installation application.

10. Remove Head Cover from replacement head



11. Hold on to calibration info sheet (EOS) that is attached to replacement head. (You will need to enter this information into the console in later steps)

12. Insert Cable and connect wires to proper position on terminal strip.  
 \*\*Refer to drawing B-11415 E-Scan Systems Interconnect Diagram \*\*

Note: previous E-Scan versions utilized a Green #16 and Yellow #16 gauge wires in the TB1 #4 position, these are no longer required and can be clipped back on both ends to save time and confusion.

13. Note the two #2 positions wire colors and gauge size.

14. Tighten wires in terminal strip

15. Install sensing head cover

16. Tighten squeeze fitting

17. Remove shipping tape from O-Ring on end of sensing head. Ensure O-Ring is properly seated.

18. Install sensing head into pipeline

\*\*Note proper orientation, tighten to proper torque with supplied wrench\*\*

19. Enter Calibration

\*\*See Console Measurement Calibration Procedure Sheet\*\*