



RPM Display Retrofit Instructions

1. Replace existing Safety Collar with the new one provided. See photo 1.

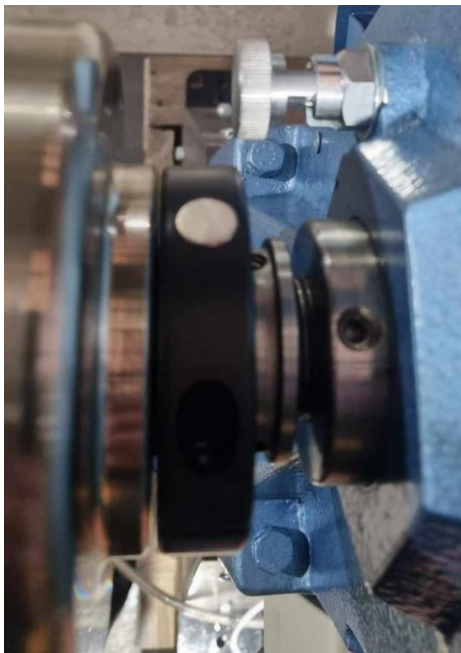


Photo 1



Photo 2

2. Hold Sensor Bracket in position and mark and drill holes. You need a gap of about 2 - 4 mm from the Sensor to Magnet. See photo 2. **IMPORTANT:** Be cautious where you drill the holes, check the inside of the headstock.
3. Screw the Sensor Bracket in position with provided hardware.
4. **IMPORTANT:** For the steps below and Electrician may be required as there is high voltage inside the Inverter Box connected to the Variable Speed Drive (VSD).
5. Make sure power is not connected to the lathe. Feed the 2 core cable through an existing gland on the Inverter Box if possible. See photo 3.
6. **NOTE:** Inverter access will depend on the model of the lathe.



Photo 3

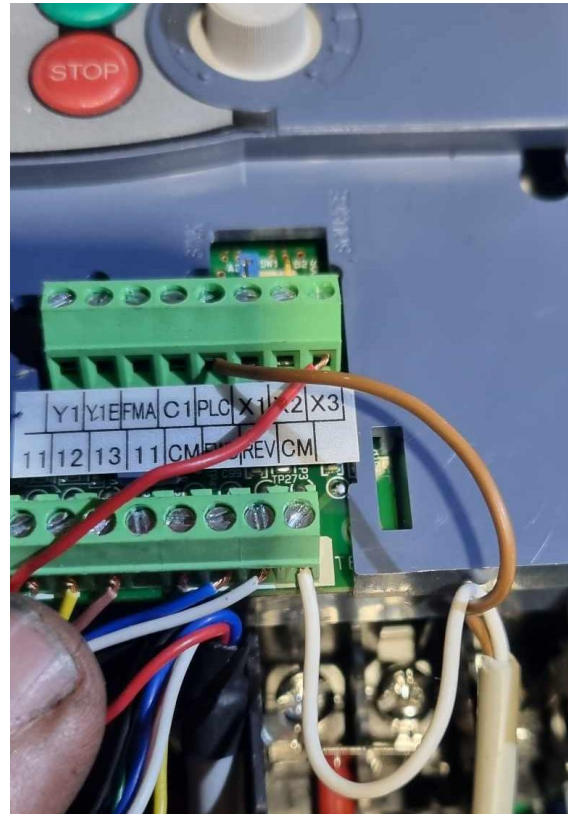


Photo 4

7. Connect the long white coloured 2 core cable to the inverter in the positions shown in photo 4 (white into the CM terminal and Brown into the PLC terminal).
8. Position the RPM display in desired position on the headstock (this can go anywhere as there is a magnet on the back). Undo the cable gland by hand and slide excess cable back into the box to keep as short as possible. Do the same with the 2 core cable to obtain your desired length and then retighten the cable gland by hand. See photo 5.
9. Before running the lathe make sure all cables are free from moving parts. You may need to add cable fasteners to ensure the cables are safely out the way.

NOTE: If connecting to another brand VSD or lathe. On a Fuji Drive, CM is 'common' or a 0 volt terminal. PLC and CM can be used to operate a lamp, relay or similar load when switched on/off as required. Most brands of VSD will have similar wiring to Fuji, but terminal names will be different. Essentially when you wire a contact between any X terminal and CM on Fuji drives, you are applying 24v to the X terminal. Some internal connections are already in place to facilitate this and you finalise the circuit with the external wiring and switch. All other brands of VSD operate along these lines.



Photo 5