

# RPM Series Rotary Meter

## 10' Index Replacement Procedures

ELSTER  AMCO

## 10' Index Replacement Procedures for the RPM Series Rotary Meter

The following steps cover the RPM Series Rotary meter register change-out. The register supplied in this kit represents improved component materials and should replace the existing register in your rotary meter.

### Standard 10' Index Standard Meter (Horizontal or Vertical Mount)

#### Index Replacement

- Remove security seal cap (Fig. 1 "A"), PN 52548P013, from register cover mounting screw with pliers.
- Remove three M6 register cover mounting screws (Fig. 1 "B"), p/n 52533P020, holding the register cover to the case cover using 5mm Allen wrench.
- Remove three M3 pan head screws (Fig. 2 "C"), p/n 52620P003, holding the index to the register cover using Quick-Wedge® No. 1734 04241 screw starter (Or Similar).
- Remove register (Fig. 2 "D") from register cover.

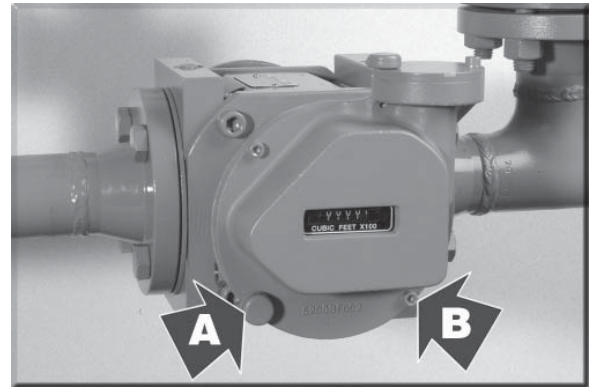


Fig. 1 Security Cap Seal & Mounting Screws

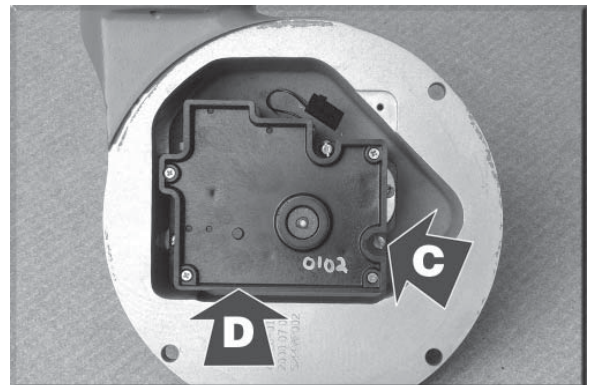


Fig. 2 Remove Register from Cover

- Install new white register (Fig. 3 "D") into register cover and secure with three M3 pan head screws (Fig. 3 "C"), p/n 52620P003 using Quick-Wedge® No. 1734 04241 screw starter (Or Similar).
- Mount register cover securing with three M6 screws (Fig. 1 "B"), p/n 52533P020, placing new security seal cap on lower left screw (Fig. 1 "A").

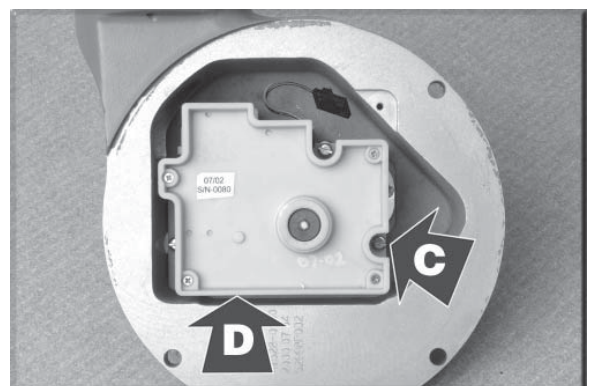


Fig. 3 Installing New Register

## Standard 10' Index ETC Meter (Horizontal or Vertical Mount)

### Battery Cushion Installation

- Remove security seal wire from battery cap using pliers (Fig. 4).
- Remove battery cap.
- Place battery cushion\* into battery silo. (Fig. 5 “G”) p/n 52006P027
- Replace battery cap and secure with new seal wire. p/n 52548P014
- *NOTE: \*The cushion prevents battery lead wire damage while performing index replacement.*



Fig. 4 Battery Cap and Seal Wire

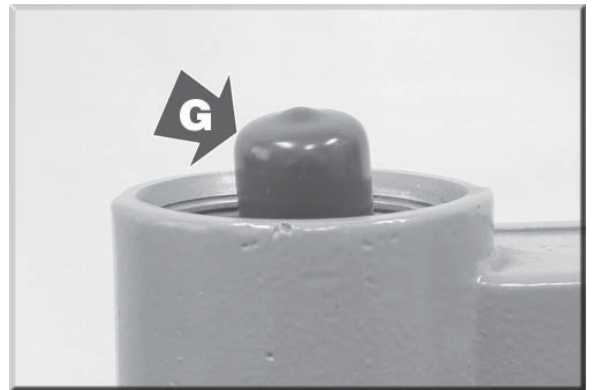


Fig. 5 Battery Cushion

### Index Replacement

- Remove security seal cap (Fig. 6 “A”), p/n 52548P013, from register cover mounting screw with pliers.
- Remove three M6 register cover mounting screws (Fig. 6 “B”), p/n 52533P020, holding the register cover to the case cover using 5mm Allen wrench.
- **CAREFULLY** remove register cover while sliding temperature probe (Fig. 7 “E”) out of the thermowell. Most units should have rubber grommet on temperature probe holding it in the thermowell. *NOTE: If the probe is held in with a set screw, loosen the set screw to slide temperature probe out of the thermowell. Removing the probe rather than disconnecting it from the ETC protects the ETC from probe faulting. A probe fault will occur if the Badger switch pulses or the battery is disconnected while the probe is disconnected. If a probe fault occurs, the TCDAS Software will be required to reset the ETC.*

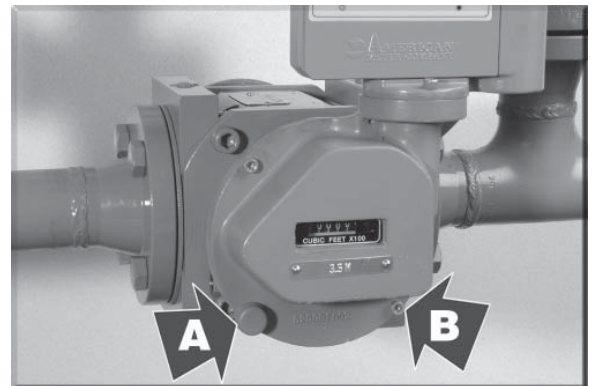


Fig. 6 Security Cap Seal & Mounting Screws

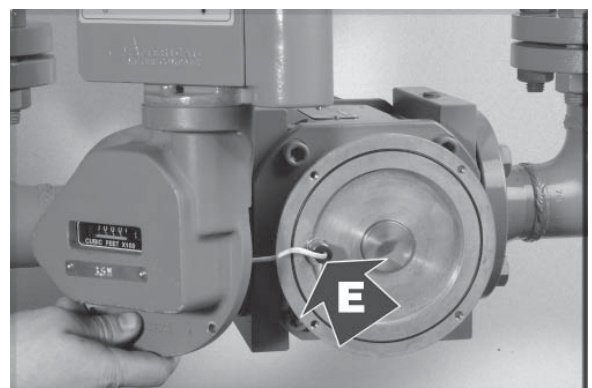


Fig. 7 Removing Temperature Probe

- Remove three M3 pan head screws (Fig. 8 “C”), p/n 52620P003, holding the register (Fig. 8 “D”) to the register cover using Quick-Wedge® No. 1734 04241 screw starter (Or Similar).
- Disconnect register pulser switch connection (Fig. 8 “F”).
- Remove register from register cover .

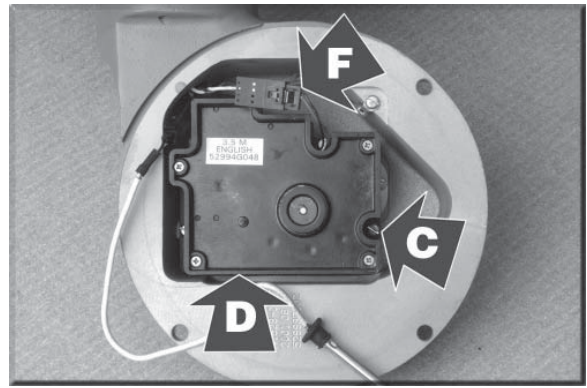


Fig. 8 Removing Register from Cover

- Install new register (Fig. 9 “D”) into register cover and secure with three M3 pan head screws (Fig. 9 “C”), p/n 52620P003 using Quick-Wedge® No. 1734 04241 screw starter (Or Similar).
- Connect register pulser switch connection (Fig. 9 “F”).
- Slide the temperature probe into the thermowell and secure the rubber grommet in the thermowell or snug the set screw (Fig. 7 “E”).
- Mount register cover securing with three M6 screws (Fig. 6 “B”)., p/n 52533P020, placing new security seal cap on lower left screw (Fig. 6 “A”).

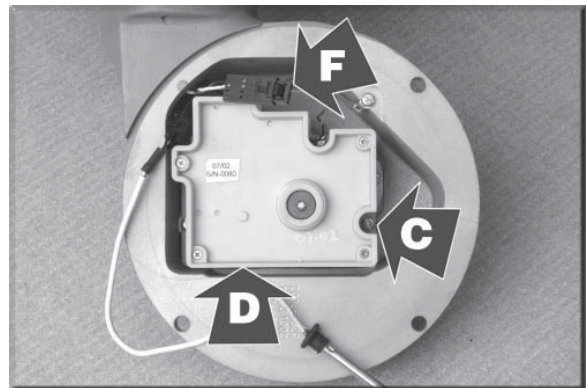


Fig. 9 Security Cap Seal & Mounting Screws

### Standard 10' Index - Standard Meter w/ I.D. (Horizontal or Vertical Mount)

#### Index and Instrument Accessory Replacement

- Remove all instruments from the instrument drive plate. Take care to note the security methods–front location of instrument.
- Remove security seal cap (Fig. 10 “A”), p/n 52548P013, from register cover mounting screw with pliers.
- Remove three M6 register cover mounting screws (Fig. 10 “B”), p/n 52533P020, holding the register cover to the case cover using 5mm Allen wrench.
- Mount the supplied register cover assembly (Fig. 10 dashed line) securing with three M6 screws, p/n 52533P020, placing new security seal cap on lower left screw.
- Before replacing any instruments, proper adjustment of the wiggler is required (Fig. 11).
- Replace instruments and security methods if they were removed in the previous locations noted.

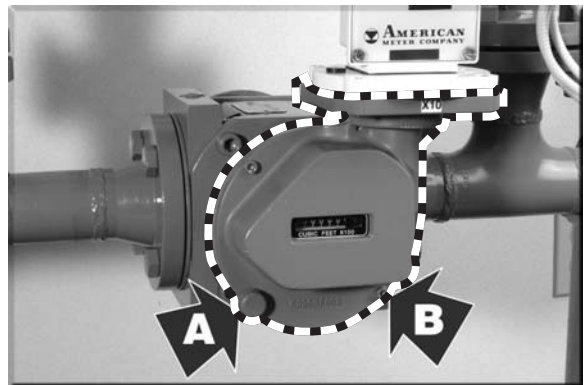


Fig. 10 Security Cap Seal & Mounting Screws

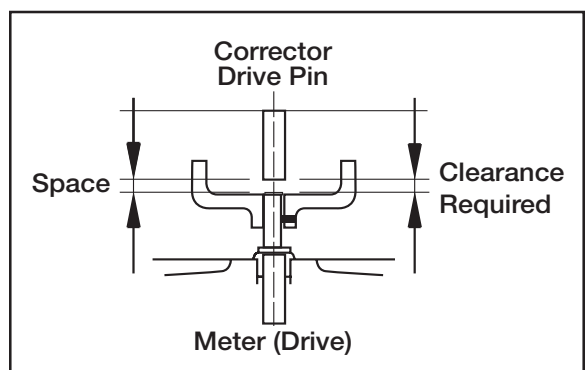


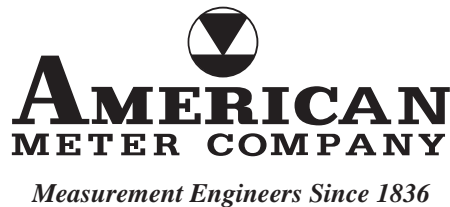
Fig. 11 Proper Wiggler Clearance

## Index Replacement Kits

Standard 10' Index – Standard Meter	
Meter	Kit Number
7M	52994K055
11M	52994K056

Standard 10' Index – ETC Meter	
Meter	Kit Number
7M	52994K057
11M	52994K058

Standard 10' Index – Standard Meter w/I.D.	
Meter	Kit Number
8C	52994K031
9C	52994K032
11C	52994K033
1.5M	52994K034
2M	52994K035
3.5M	52994K036
5.5M	52994K037
7.0M	52994K038
11M	52994K039
16M	52994K040



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