



## FD RX7 Twin Fuel Pump

Installation Guidelines

Revision 9/11/2015

### Sections:

1: Wiring Guide

## Section 1: Wiring Guide

This product uses an OEM 6-position bulkhead connector that is secured to the billet tank flange with a snap ring and sealed with a Viton o-ring. A pair of internal and external connectors eliminates any need to remove the snap-ring and bulkhead. It is suggested to leave it in.

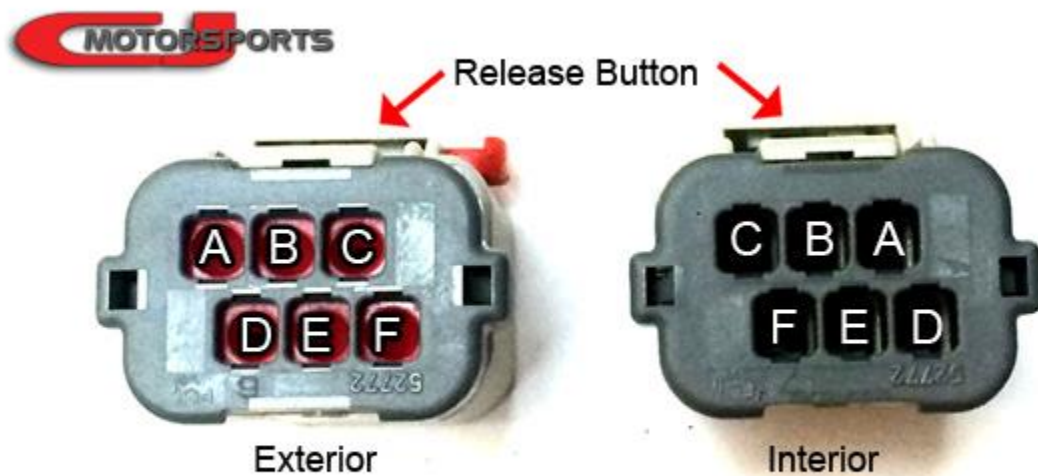
Note that the internal and external connectors are identical, but the in-tank connector has the (non-fuel compatible) rubber seals removed and the orange connector lock is removed.

The crimp terminals support up to 10 or 12 AWG wiring. It would still be recommended that each pump have its own power and ground terminals.

There are 2 ground screws passing through the fuel tank flange. These must *\*only\** be used as grounds. These could be used for fuel pump grounds if the installation will require making connector positions available, such as when wiring the factory thermistor. When using the ground screws, you must also run a ground cable from the top side of the screws to the chassis. The fuel tank flange itself is not an adequate ground because it is anodized and only secured to the fuel tank. Use ring-terminals on the ground screws; do not wrap bare wire strands around the screw.

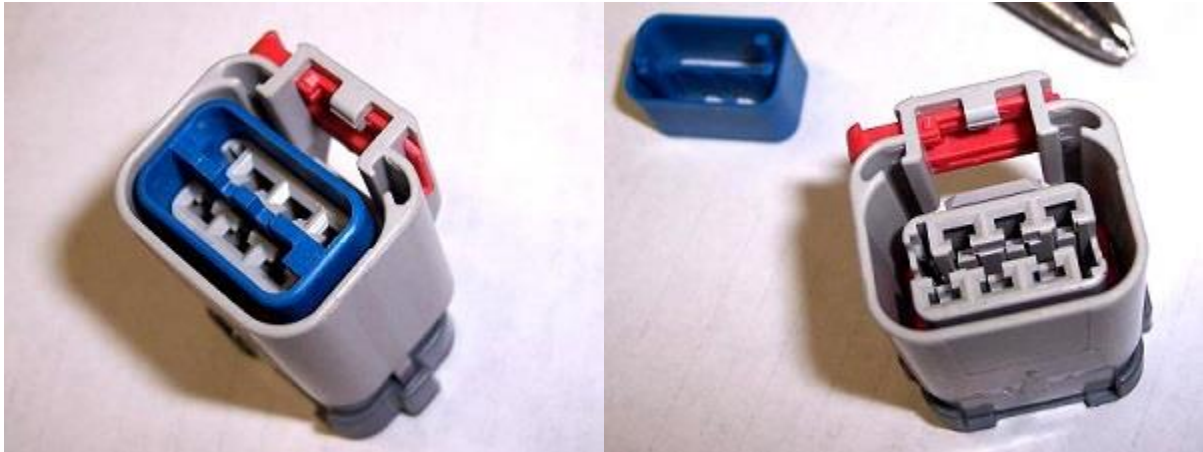
For large twin fuel pump configurations it is highly recommended that the fuel pumps be staged. Assign a primary (full-time) fuel pump position, and the remaining pump should be a secondary pump that is activated by a stand-alone EMS output or Hobbs switch. Either activation method requires a secondary fuel pump relay and should not be used to directly power or ground the secondary pump.

Note that the wiring positions are different for the internal and external connectors as they shift when passing through the bulkhead connector. The following diagram illustrates the position relationships.



CJM Fuel Pump Connector: Terminal Position Relationships

To insert crimped terminals into the connector, first remove the blue terminal lock collar. Small needle-nose pliers will be able to grab it directly in the center.



The terminals will now slide in until they click and lock in place. Reinstall the blue terminal lock collar.

