

# CARDONE ProTech

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## Transfer Case Motor Connector Missing Pins

### Application:

Ford Transfer Case Motors (TCM).

### Problem:

The number of connector pins on the replacement TCM does not match the number of pins in the vehicle harness.

### Cause:

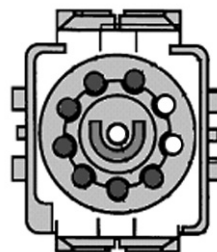
Ford routed the speed sensor wiring running from the transfer case to the controller through the TCM connector. This requires the transfer of the speed sensor pins/wires from the original motor to the replacement motor.

### Solution:

The steps below explain how to do the transfer.

- Remove bolts securing motor to transfer case. Remove motor. The motor will still be tethered to the vehicle by speed sensor wires. These wires must be carefully transferred to the replacement motor connector as described in the next step.
- First remove red locking tab. Carefully record wire pin positions. Using a suitable tool, release each sensor wire pin. **NOTE:** Some harnesses may have a center pin as shown in the sample graphic. If there is a center pin, it must also be transferred. Install wire pins in the replacement motor connector in the same position as in the original motor connector until they snap in place. Note that the sensor and harness wire colors must match. Verify pin placement, then replace red locking tab. This completes wire pin transfer.

*The white pins are the ones for the speed sensor that need to be transferred.*



**TCM  
CONNECTOR**  
(typical)

### Note:

Refer to instructions supplied with the unit to complete the installation. Refer to the vehicle service manual for detailed installation procedures.

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