

3.0 - Actuator Harnesses

ACTUATOR HARNESSES

The Actuator Harness links the power cables to the relay boxes and distributes the power to the individual motors on the TRx Power positioning System. There are three basic types of actuator harnesses: Single Motor, Dual Motor and Four Motor.



3.0- Actuator Harnesses



I. Single Motor Harnesses

C30 Actuator Harness (single motor)

The C30 actuator harness is designed for seating systems that require single motor function. The actuator harness is connected between the relay box and the power cable. A dual a-mode connector is provided for the actuator motor, and a male molex connector is provided for the drive lockout limit switch.

Cable Connections:

- ◆ 'power/seat motor' connection to relay box (DB-15 pin)
- ◆ 24V power connection & inhibit line to power cable (red/black/blue a-mode)
- ◆ motor 1 (yellow/yellow a-mode)
- ◆ drive lockout limit (red molex-male)

Applicable Relay Boxes: M17/27

****DISCONTINUED****
SEPTEMBER 2005



C134 Actuator Harness (single motor)

The C134 actuator harness is designed for seating systems that require single motor function. The actuator harness is connected between the relay box and the power cable. A dual a-mode connector is provided for the actuator motor, and a female molex connector is provided for the drive lockout limit switch.

Cable Connections:

- ◆ 'power/seat motor' connection to relay box (DB-15 pin)
- ◆ 24V power connection & inhibit line to power cable (red/black/blue a-mode)
- ◆ motor 1 (yellow/yellow a-mode)
- ◆ drive lockout limit (red molex-female)

Applicable Relay Boxes: M17/27

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II. Dual Motor Harnesses

C33B Actuator Harness (*dual motor*)

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The C33B actuator harness is designed for seating systems that require two motor functions. The actuator harness is connected between the relay box and the power cable. Two separate dual a-mode connectors are provided for each of the actuator motors, and two male molex connectors are provided- one for the drive lockout limit and one for the tilt limit.

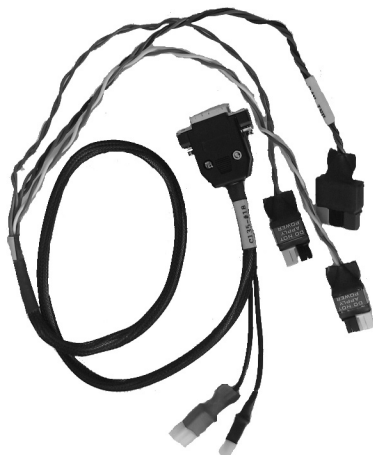
Cable Connections:

- ◆ 'power/seat motor' connection to relay box (DB-15 pin)
- ◆ 24V power connection and inhibit line to power cable (red/black/blue a-mode)
- ◆ motor 1 (yellow/yellow a-mode)
- ◆ motor 2 (white/white a-mode)
- ◆ drive lockout limit (red molex- male)
- ◆ tilt limit (black molex- male)

Applicable Relay Boxes: M14/33

C135 Wizard Actuator Harness (*dual motor*)

NEW!
SEPTEMBER 2005



The C135 actuator harness is designed for seating systems that require two motor functions. The actuator harness is connected between the relay box and the power cable. Two separate dual a-mode connectors are provided for each of the actuator motors, and two female molex connectors are provided- one for the drive lockout limit and one for the tilt limit.

Cable Connections:

- ◆ 'power/seat motor' connection to relay box (DB-15 pin)
- ◆ 24V power connection and inhibit line to power cable (red/black/blue a-mode)
- ◆ motor 1 (yellow/yellow a-mode)
- ◆ motor 2 (white/white a-mode)
- ◆ drive lockout limit (red molex- female)
- ◆ tilt limit (black molex- female)

Applicable Relay Boxes: M14/33

3.0- Actuator Harnesses



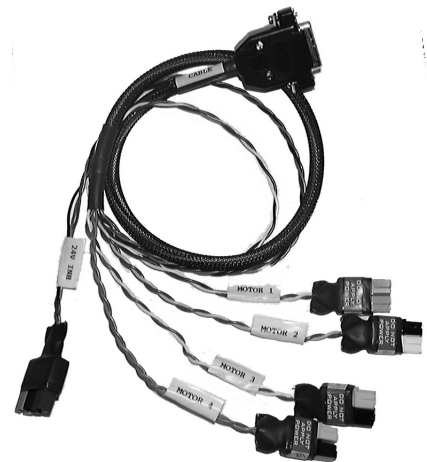
III. Four Motor Harnesses

C45B-18 Actuator Harness (four motors)

The C45B-18 actuator harness is designed for seating systems that require up to four motor functions, and must be used with our Super Helix 5.x series relay boxes. Four separate dual a-mode cables/connectors are assigned to each of the 4 motors. The motor connections are labeled for identification, and a-modes are color coded according to their function.

Cable Connections:

- ◆ 'power/seat motor' connection to relay box (DB-15 pin)
- ◆ 24V power connection and inhibit line to power cable (red/black/blue triple a-mode)
- ◆ Motor 1 (blue/blue a-mode)
- ◆ Motor 2 (black/white a-mode)
- ◆ Motor 3 (yellow/black a-mode)
- ◆ Motor 4 (yellow/black a-mode)



Applicable Relay Boxes: Helix 5.0, 5.3, 5.4, 5.5*, 5.9, and custom Helix boxes.

* **note:** Helix 5.5 for Quickie systems only- (Pride systems utilize the C65 Actuator Harness (see below))

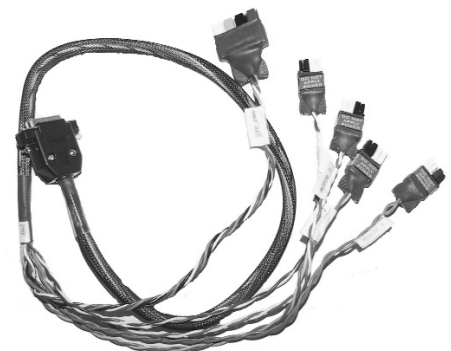
NOTE: The C45B-18 actuator harness was introduced in September of 2003, and uses a heavier 18-gauge wire. It replaced the original C45B actuator harness. The C45B-18 harness remains compatible with older styles of the our Helix boxes - ie.; *Helix 4.1, 4.9 and 5.1*

C65 Actuator Harness (four motors)

The C65 actuator harness is designed specifically for the Helix 5.5 relay box when installed on a **Pride** system. As with C45B-18 harness, the C65 actuator harness is used when up to four motor functions are required. A separate dual a-mode connector is provided for each of the 4 motor cables. Cable connections are labeled for identification and the a-modes are color coded according to their function

Cable Connections:

- ◆ 'power/seat motor' connection to relay box (DB-15 pin)
- ◆ 24V power connection and inhibit line to power cable (red/black/blue/white quadruple a-mode)
- ◆ Motor 1 (black/white a-mode)
- ◆ Motor 2 (black/white a-mode)
- ◆ Motor 3 (black/white a-mode)
- ◆ Motor 4 (black/white a-mode)



Applicable Relay Boxes: Helix 5.5 (for Pride systems only)