



Cummins Mercruiser Diesel

Read This Before Operation! Read This Before Operation!

Terminating Resistor



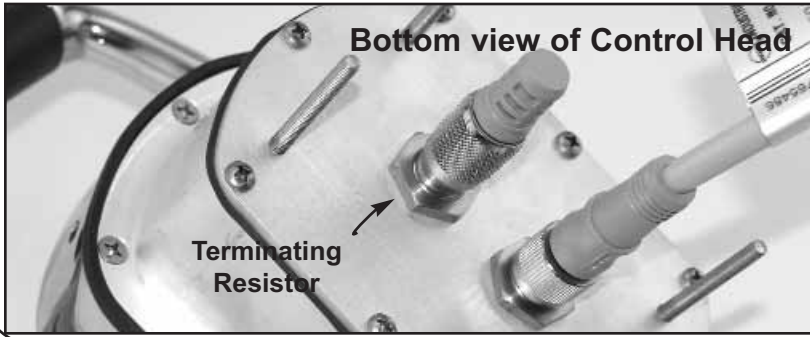
Part Number: 4929697
Terminating Resistor - Female



In order for the ETS control system to work properly both terminating resistors **MUST** be attached at both ends of the CANbus line. Normally, one will be installed at the Control Head and the other at the Control Processor. **2 TERMINATING RESISTORS MUST BE INSTALLED IN EVERY CANBUS SYSTEM.**

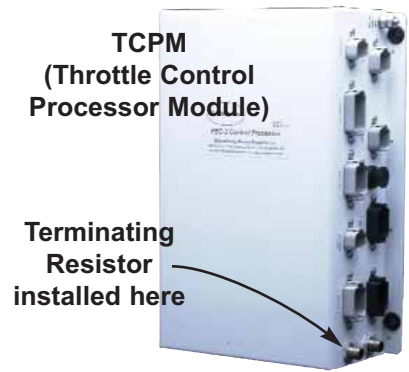
(NOTE: For more detailed instructions consult Section 3 in the Installation / Operations Manual.)

WARNING: System may initially startup and operate without terminating resistors installed, but system will operate erratically and could result in loss of control.



Bottom view of Control Head

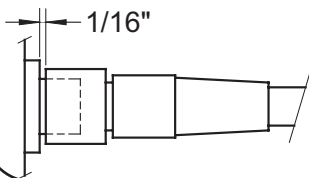
Terminating Resistor



TCPM
(Throttle Control Processor Module)

Terminating Resistor installed here

Station Cable / Terminating Resistor Attachment



- when fully seated, connector is 1/16" away from nut (max)
- Connector requires 6 full turns to be fully engaged



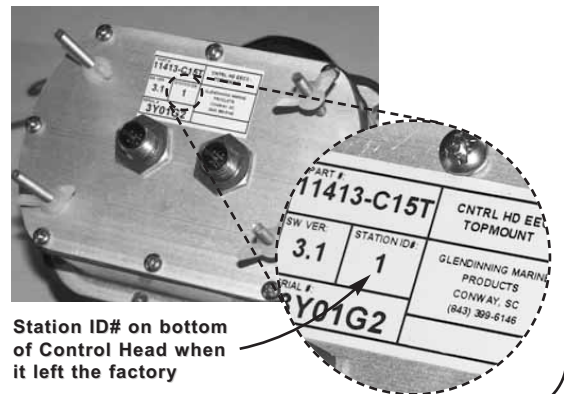
WARNING: Failure to follow the instructions above will result in erratic system performance.

Station ID#

This control head is configured for Station ID# _____

For vessels with 2 or more control stations, follow these instructions:

The Cummins ETS system requires that each Control Head have a unique Station ID#. Please confirm that each control head on this vessel has a unique station ID#. If this vessel has two of the same Station ID#'s, the system will go immediately into alarm upon startup. To change this Station ID# follow the procedure on the back of this page.



Station ID# on bottom of Control Head when it left the factory

Read This Before Operation!



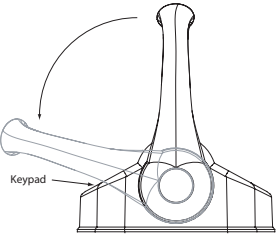
Cummins Mercruiser Diesel
4500 Leeds Avenue, #301
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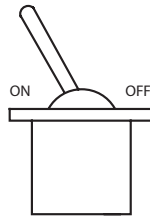
TRESIST_CMD_V2.0

To change the Station ID# follow the procedure below:

1 Move control handles to **FULL ASTERN**



2 Turn power **ON** to the System



TAKE or ACTIVE LED will flash

3 Press & Hold the 2 center buttons for approx. 2 seconds



all 4 LEDs will flash

Release the buttons, you are now in control head processor configuration mode. Follow the steps below for the control head keypad type you are using.

For 4-button keypads:

1. Press & Release the SYNC button one time to select Handle ID Mode.



TAKE LED will begin to flash

2. Press & Release the WARM button 1 time to enter ID Configuration Mode.



TAKE LED will be fully ON

3. Press & Release the SYNC button until the desired ID# is reached.



ID# 1 - Take ON
ID# 2 - Sync ON
ID# 3 - Take & Sync ON
ID# 4 - Warm ON
ID# 5 - Take & Warm ON
ID# 6 - Sync & Warm ON

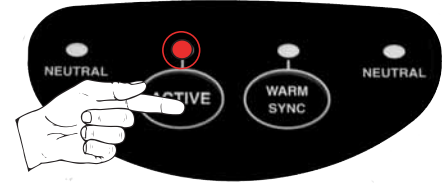
4. Press & Release the WARM button 1 time. This stores the ID in memory.



all 4 LEDs will flash

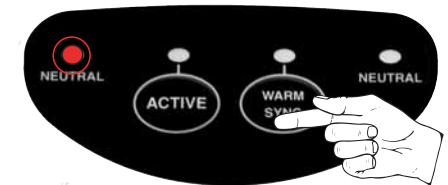
For 2-button keypads:

1. Press & Release the ACTIVE button one time to select Handle ID Mode.



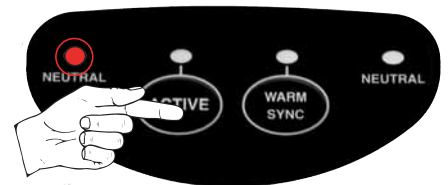
ACTIVE LED will begin to flash

2. Press & Release the WARM button 1 time to enter ID Configuration Mode.



PORT N LED will be fully ON

3. Press & Release the ACTIVE button until the desired ID# is reached.



ID# 1 - Port Ntrl. ON
ID# 2 - Active ON
ID# 3 - Port Ntrl. & Active ON
ID# 4 - Warm ON
ID# 5 - Port Ntrl. & Warm ON
ID# 6 - Active & Warm ON

4. Press & Release the WARM button 1 time. This stores the ID in memory.



all 4 LEDs will flash

5. EXIT Control Handle Configuration Mode by turning system OFF and return handles to Neutral position.

