TCS ™

Our Famous
GOOF PROOF Warranty

1615 RTR-MB1

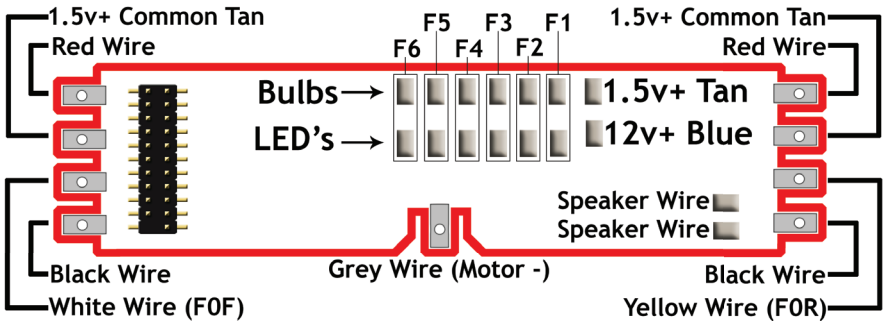| Scale	Pairs well with
HO	WOW121-Diesel and EU621

Dimensions 2.84"x0.66"x0.55" or 72mm x 17mm x 13.9mm

This motherboard is designed to replace the original lighting board in the Athearn Ready-To-Roll diesel locomotives. Included on this motherboard is a KA2 Keep-Alive™ for smooth operation over troublesome tracks. Pair with a WOW121 for unparrelled sound and interruption free performance.

NOTE: This product does not function without a 21-pin decoder.

WIRING DIAGRAM

1.5v+ Common Tan
Red Wire
F6 F5 F4 F3 F2 F1
Bulbs→
LED's→
1.5v+ Common Tan
Red Wire
1.5v+ Tan
12v+ Blue
Speaker Wire
Speaker Wire
Black Wire
White Wire (F0F)
Grey Wire (Motor -)
Black Wire
Yellow Wire (F0R)

For 1.5v Bulbs: Use the F0F and F0R pads and the 1.5v+ pads.
For functions F1-F6 use the bulb pads and the 1.5v+ pad.

For LED's: Use the F0F and F0R pads, an external resistor, and the 12v+ pad.
For functions F1-F6 use the LED pads and the 12v+ pad.
Resistors are onboard for F1-F6.

For full installation instruction visit the
http://www.tcsdcc.com/HO_Installs

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WARRANTY PROCEDURE: All decoders are covered by a one year, goof proof, warranty. **Please return in a small box.**

1. You MUST register the failed decoder on our website at www.tcsdcc.com. If you do not have access to a computer you MUST call to register your warranty at: **(267) 733-3408**
2. Print out a copy of the Warranty Registration and include it in the box with the decoder(s).
3. Return decoder(s) directly to us using the address below.

Compatible with NMRA DCC standards.   Made by **TCS** in the USA.

Train Control Systems
P.O. Box 341
845 Blooming Glen Rd.
Blooming Glen, PA 18911

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