



CIVACON JUNCTION BOXES 7500 SERIES

INSTALLATION INSTRUCTION MANUAL

MANUAL PART NUMBER

**H50457PA
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**4304 N. MATTOX RD.
KANSAS CITY, MO 64150
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1. PRODUCT DESCRIPTION

The Model 7500 series of Junction Boxes are a series of general purpose junction boxes design to be used in conjunction with CIVACON's line of Rack Monitor equipment. These junction boxes provide for easy wiring and maintenance of the plug and cord set to the Overfill Detection Rack Monitor.

The Model 7500 Series Junction Boxes come in 4 standard configurations. Each configuration is listed and described below.

7500	Junction Box, Standard
7510	Junction Box, Thermistor w/Breakaway Plug
7520	Junction Box, w/Deadman Switch
7540	Junction Box, Optic w/Breakaway Plug

Other models with specific options are also available. Please contact the factory for more information on those products.

The Junction Boxes each contain a 12 position terminal block and are intended for use with intrinsically safe circuits only. You cannot use these junction boxes for 120 or 240 VAC circuits, or any other non-intrinsically safe circuitry.

2. INSTALLATION AND MOUNTING

The ideal location of the junction box would be on a support rack in an area which is in close proximity to the loading location and has easy access for maintenance purposes. The mounting location should be located at least 24" off of floor level. This will allow sufficient room for the plug and cord set strain relief spring. Once a suitable location is determined, drill two 3/8 inch holes in the support rack at the desired location. The bolt hole drill pattern for mounting the Junction Box is included on page 2 of this instruction manual. Pages 3 & 4 can be removed from this manual for use as a template and may be missing. Please return the template to this manual section when finished.

CAUTION:

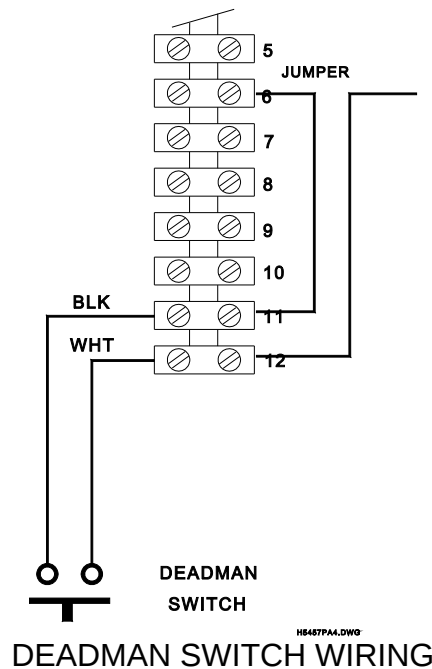
To prevent sparking and vapor ignition in hazardous area, use only hand and air powered tools when installing this unit!

Once the holes have been drilled in the proper locations, bolt the junction box(s) to the support rack using lock washers to properly ground the unit(s).

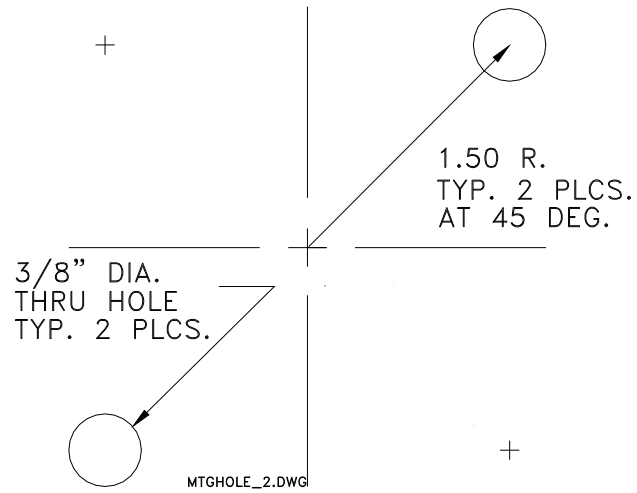
3. WIRING INSTRUCTIONS

When wiring the 7500 series of Junction Boxes, refer to the wiring instructions for the appropriate Rack Monitor being installed. If using a 7510 or 7540 junction box with the breakaway plug, refer to page 5 for wiring diagrams.

CAUTION:
DO NOT CONNECT 120 OR 240 VAC, OR ANY NON-APPROVED CIRCUITRY THROUGH THESE JUNCTION BOXES.



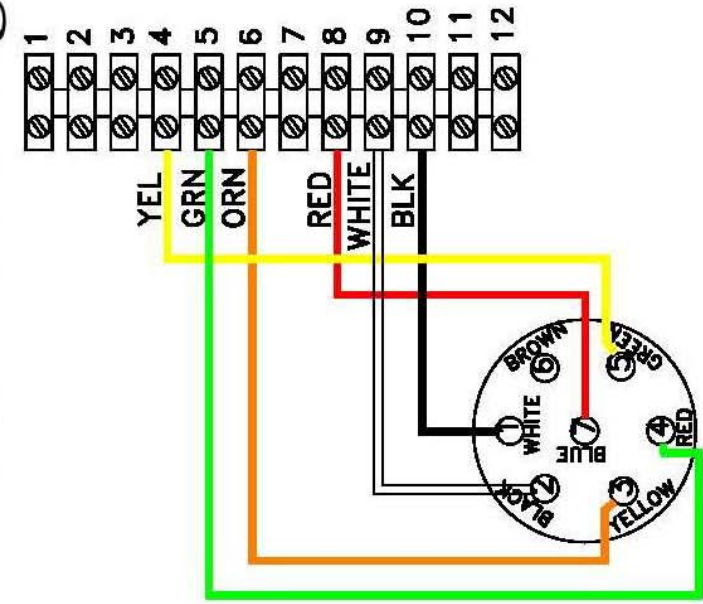
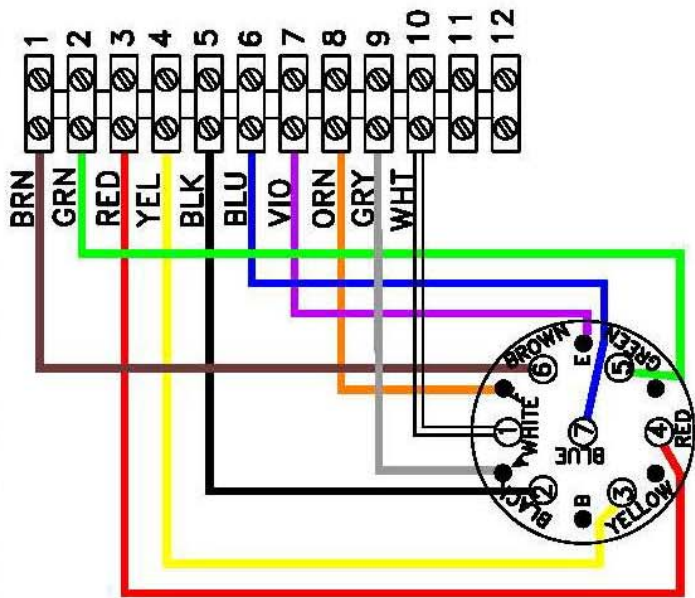
Wire the DEADMAN Switch, if so equipped, into left-hand terminals 11 and 12. On the right-hand side, wire it in series with the wire from terminal 6 to the monitor, as shown. Use this template for drilling the mounting holes in the support structure.



BOLT HOLE TEMPLATE

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Junction Box to Rack Monitor Wiring



Wiring from the 7510T JB (above) to Rack Monitor Models											
7510	83/84X0	83/84X0C	8580	8500E/8580C							
1 (BRN)	1	1	1	1							
2 (GRN)	2	2	2	2							
3 (RED)	3	3	3	3							
4 (YEL)	4	4	4	4							
5 (BLK)	5	5	5	5							
6 (BLU)	6	6	6	6							
7 (VIO)		7		7							
8 (ORN)		8		8							
9 (GRY)	9	9	9	9							
10 (WHT)	10	10	10	10							
11											
12											

Wiring from 7540 JB (above) to Rack Monitor Models											
7540	Description	8130	81/84XX	85XX							
1											
2											
3											
4 (YEL)	Signal OUT	4	2	4							
5 (GRN)	Dianostic			5							
6 (ORN)	Signal IN	5	4	6							
7											
8 (RED)	Power +	3	5	8							
9 (WHT)	Ground Ver	1	9	9							
10 (BLK)	Ground	2	10	10							
11											
12											

4. WARRANTY

All parts and products are thoroughly inspected and tested from the time raw material is received at our plant, until the product is completed. We guarantee that all products are free from defects in materials and workmanship for a period of one year from the date of shipment. Any product that may prove defective within said one year period will, at our option, be promptly repaired, or replaced, or credit given for future orders. This warranty shall not apply to any product which has been altered in any way, which has been repaired by any party other than an authorized service representative, or when such a failure is due to misuse or conditions of use. We shall have no liability for labor costs, freight costs, or any other cost or charges in excess of the amount of invoice for the products.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

WARNING:

CIVACON products should be used in compliance with applicable federal, state, and local laws and regulations. Product selection should be based on physical specifications and limitations, compatibility with the environment, and the material to be handled.

**CIVACON MAKES NO WARRANTY OF FITNESS
FOR A PARTICULAR USE.**

4.1 TECHNICAL ASSISTANCE

If at any time during the installation a question arises that is not covered in this Installation Instruction, or with any other applicable documents referenced, feel free to call the **CIVACON ELECTRONICS TECHNICAL ASSISTANCE LINE** :

In the U.S.A., Call 1-800-5 CIVACON (800-524-8226)

For the **CUSTOMER SERVICE DEPARTMENT:**

In the U.S.A., Call 1-888-526-5657.

In other countries, call your local agent.



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