

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury or death. Read the installation, operation, and maintenance instructions thoroughly before installing or servicing this equipment.

REZNOR *Thomas&Betts*



Turnbuckle Kits Options CK12-CK18

INSTALLATION FORM RGM 452/456-TK
Obsoletes Form RGM 456-TK

APPLIES TO: **INFRA-REZ™ Heater**
Models TR/TR-H and Model TRP

Description/Application

For proper operation and safety, INFRA-REZ® tubular radiant heaters must be suspended by chain and must be installed and maintained in a level position. To facilitate leveling, turnbuckles are recommended.

Turnbuckle option kits come in packages of four to ten turnbuckles so that the quantity matches the number of heater suspension points. The burner/control box on Models TR/TR-H has two suspension points and each straight and "U" shaped heat exchanger tube has one suspension point. The burner box on a Model TRP has two suspension points and the heat exchanger sections have either two or four depending on size.

Optional Turnbuckle Kits and their applications:

Model	Straight Tube Length (feet)	System Configuration						Each package (kit) includes equal quantities of:
		Straight or "L"			"U"			
		Option No.	Package P/N	Qty per pkg	Option No.	Package P/N	Qty per pkg	
TR/TR-H	20	CK12	120699	4	CK13	121045	5	Eye-to-Eye Turnbuckle of forged carbon steel, P/N 120704 5/16-18 Nut (Kep), P/N 6554
	30	CK13	121045	5	CK14	120700	6	
	40	CK14	120700	6	CK15	121046	7	
	50	CK15	121046	7	CK16	120701	8	
	60	CK16	120701	8	CK17	121047	9	
70	CK17	121047	9	CK18	132517	10		
TRP 30 & 60	N/A	CK12	120699	4				
TRP 50 & 100	N/A	CK14	120700	6				

Preparation and Installation Instructions

Installation should be done by a qualified agency in accordance with the instructions on this sheet and in compliance with all codes and requirements of authorities having jurisdiction.

1. Assemble the Turnbuckle and Locking Nut

- Remove the eyebolt with the right-hand thread. With the "teeth" of the nut away from the "eye" end of the bolt, screw the nut onto the bolt until the nut is close to the eye.

(NOTE: In this direction the nut will only thread onto the bolt with the right-hand thread. If the nut won't screw onto the eyebolt, you have removed the eyebolt with the left-hand thread. If that occurs, return that eyebolt to the turnbuckle, remove the other one, and attach the nut.)

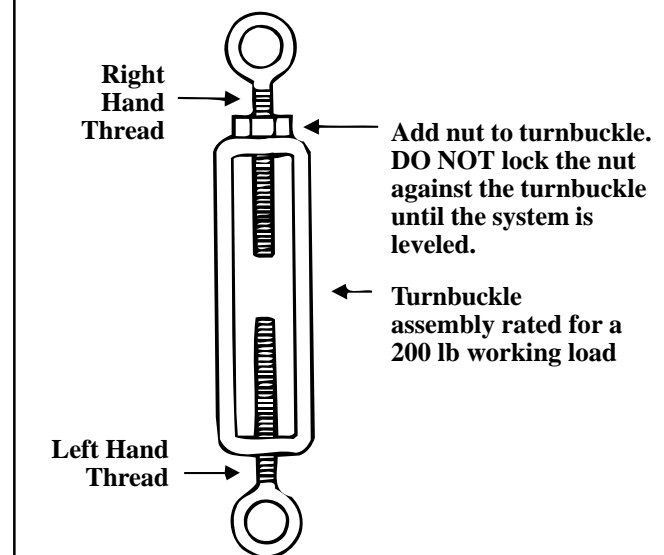
- Re-screw the assembled eyebolt and nut into the turnbuckle. DO NOT LOCK THE NUT AGAINST THE TURNBUCKLE (each nut will be tightened as the system is leveled).

2. Connect the Burner Box and Tubes or Heat Exchanger Sections to the Hanging Chains with "S" Hooks and the Assembled Turnbuckles -- Use an "S" hook to attach the top (the end with the locking nut) of the turnbuckle to each hanging chain. When suspending the heaters, connect the "S" hook in each hanging bracket to the bottom of the turnbuckle.

3. Level the System and Lock the Turnbuckles -- After the heater is installed and all "S" hooks are closed, check the burner box and all tubes or heat exchanger sections with a spirit level. To make adjustments, turn the body of the turnbuckle.

As the system is leveled, tighten the nut to lock each turnbuckle. "Locking" the turnbuckles is required to prevent them from turning when the system expands.

Figure 1 - Turnbuckle included in Optional Turnbuckle Kits



Thomas&Betts