

S Series Electric Toe Space Heaters Without Built-in Thermostat

Installation & Maintenance Instructions

Dear Owner,

Congratulations! Thank you for purchasing this new heater manufactured by Marley Engineered Products. You have made a wise investment selecting the highest quality product in the heating industry. Please carefully read the installation and maintenance instructions shown in this manual. You should enjoy years of efficient heating comfort with this product from Marley Engineered Products... the industry's leader in design, manufacturing, quality and service.

... The Employees of
Marley Engineered Products

WARNING

Read Carefully - These instructions are written to help you prevent difficulties that might arise during installation of heaters. Studying the instructions first may save you considerable time and money later. Observe the following procedures, and cut your installation time to a minimum.

To reduce risk of fire or electric shock:

1. To prevent electrical shock, disconnect all power coming to heater at main service panel before wiring or servicing.
2. All wiring must be in accordance with the National and Local Electrical Codes and the heater must be grounded as a precaution against possible electric shock.
3. Verify the power supply voltage coming to heater matches the ratings printed on the heater nameplate before energizing.
4. This heater is hot when in use. To avoid burns, do not let bare skin touch hot surfaces.
5. **DO NOT INSTALL THIS HEATER UNDER CABINETS MADE OF VINYL OR COATED WITH VINYL.**

6. Do not insert or allow foreign objects to enter any ventilation or exhaust opening as this may cause an electric shock, fire, or damage to the heater.
7. To prevent a possible fire, do not block air intakes or exhaust in any manner. Keep combustible materials, such as crates, drapes, etc., away from heater. Do not install behind doors, furniture, towels, or boxes.
8. A heater has hot and arcing or sparking parts inside. Do not use it in areas where gasoline, paint or flammable liquids are used or stored.
9. Use this heater only as described in this manual. Any other use not recommended by the manufacturer may cause fire, electric shock, or injury to persons.
10. This heater is not approved for use in corrosive atmospheres such as marine, green house or chemical storage areas.

SAVE THESE INSTRUCTIONS



WARNING

TO REDUCE RISK OF FIRE OR ELECTRICAL SHOCK, **DO NOT** INSTALL WITHOUT BACK BOX. **DO NOT** OPERATE WITHOUT GRILLE INSTALLED.

CAUTION

1. **DO NOT** USE HEATER FOR DRY OUT. PAINT, PLASTER, SAW-DUST, AND DRYWALL SANDING DUST MUST BE KEPT OUT OF HEATER.

2. THE HEATER IS HOT WHEN IN USE. **DO NOT** INSTALL THE HEATER BEHIND DOOR, BEHIND TOWEL RACK, IN CLOSET, WHERE CURTAINS OR DRAPES COULD TOUCH OR BECOME SCORCHED BY HEATER, OR WHERE AIRFLOW TO HEATER MAY BE OBSTRUCTED. KEEP ELECTRICAL CORDS, BEDDING, FURNITURE AND OTHER COMBUSTIBLES AWAY FROM HEATER.

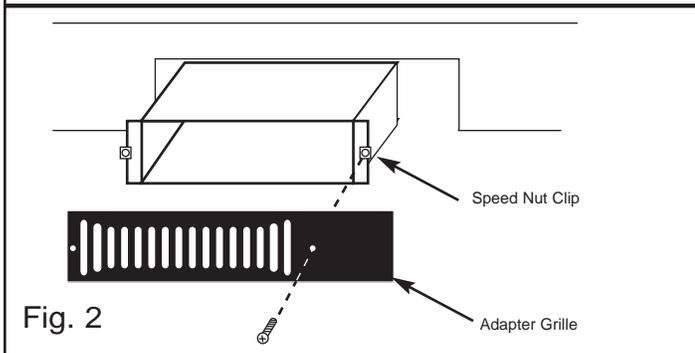
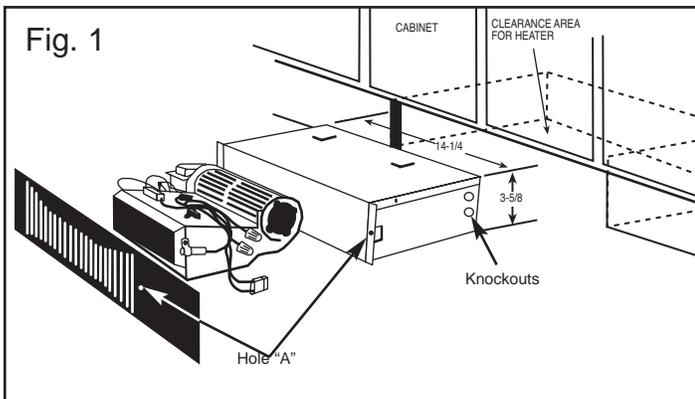
NOTE: Heater should be controlled by either built-in thermostat or wall thermostat. Either is purchased separately. A wall thermostat requires a separate feed from heater to thermostat.

NOTE: Hole location should be 12" from corner and 1/4" above finished floor.

HORIZONTAL INSTALLATION ONLY

This heater may be wired with standard building wiring (rated minimum 60° C).

1. Cut a 14 1/4" x 3 5/8" (361.9 x 92.1 mm) opening at desired location as shown in Fig. 1. Keep clearance area free of obstructions.
2. Remove top cover from heater enclosure by removing the cover screws.
3. Determine which knockout in enclosure will be used for field wiring and remove (see figure 1). Install strain relief (field supplied).
4. Fish field wiring through strain relief leaving 6" (12.7 mm) of wire inside box.
5. FOR BUILT-IN THERMOSTAT, WIRE HEATER AS SHOWN IN FIG. 3. Run field wiring from circuit breaker box to heater. Connect to the two black pigtail leads for 240/208V model or to black and white pigtail lead for 120V model with wirenuts (provided). Remove the wirenuts securing two blue leads.



Connect the blue leads with wirenuts (provided) to thermostat lead wires.

6. FOR REMOTE 2 POLE WALL THERMOSTAT, WIRE HEATER AS SHOWN IN FIG.4. Run field wiring from circuit breaker box to wall thermostat. Connect blue lead A with heater to field supply lead from load side of thermostat. Connect supply field wiring from thermostat to two black pigtail leads for 240/208V model or to black and white pigtail leads for 120V model with wirenuts (provided). Connect field ground lead to ground pigtail with wirenut (provided).

NOTE: Whether it is with built-in thermostat or with remote thermostat, there should always be a fan delay **ON** and a fan delay **OFF**.

7. Replace and secure top cover on heater enclosure, and then position heater into opening.

NOTE: When model SAG adapter grille is to be used on larger opening:

- A. Install speed nut clip (provided in kit) onto right heater mounting flange on enclosure (see Fig. 2)
- B. Secure adapter grille to heater using screws provided in kit.

8. Using the holes in the flanges of the enclosure for a template, secure both the front grille and the heater by drilling two .093" (3/32")(2.3 mm) diameter holes into the cabinet board and installing two No. 6 x 3/4" (No.6 x 19 mm) screws (supplied). When SAG adapter grille is used, the unit is attached to the cabinet board thru the two outermost holes on the adapter grille.

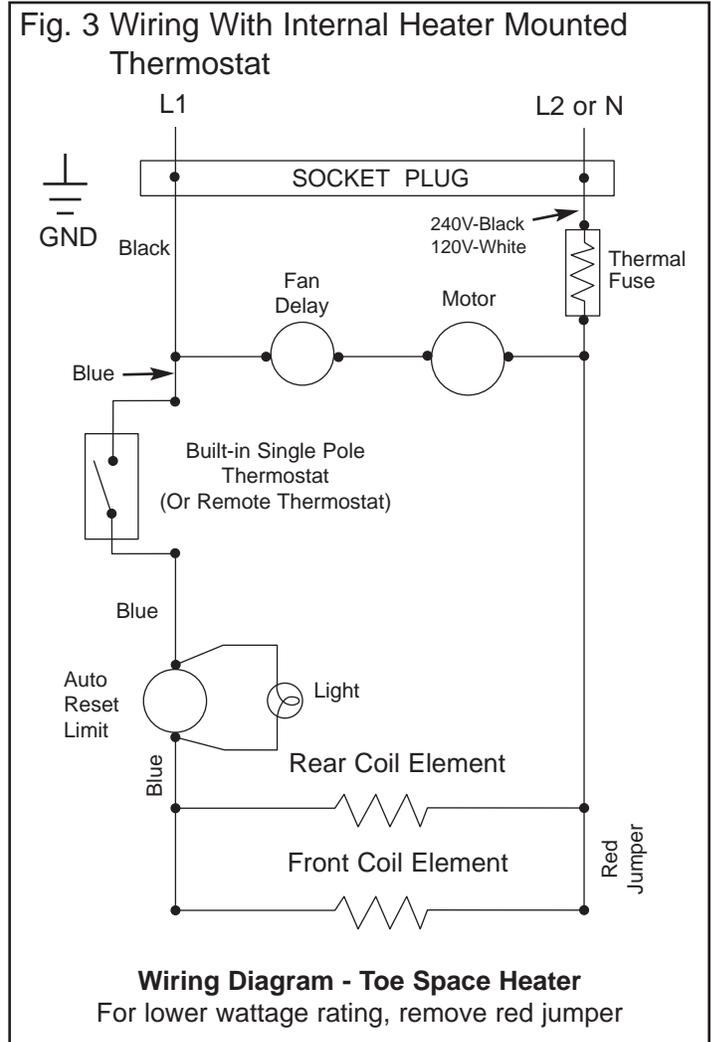
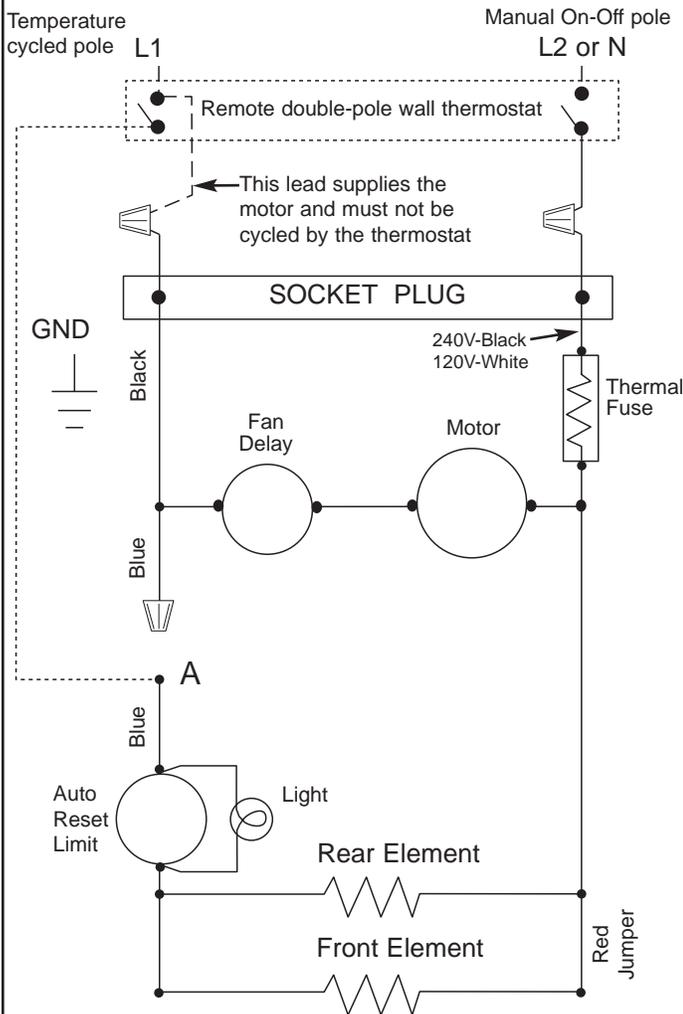


Fig. 4 Wiring For Remote Thermostat (See Caution Statement And Note Below This Diagram)



Wiring Diagram - Toe Space Heater
For lower wattage rating, remove red jumper

CAUTION

TO PREVENT HEATER DAMAGE OR A POSSIBLE FIRE HAZARD, IF WALL THERMOSTAT IS USED: A DOUBLE POLE WALL THERMOSTAT OF THE TYPE WHERE BOTH POLES CYCLE ON AND OFF BY TEMPERATURE CHANGE CANNOT BE USED WITH THIS HEATER. ONLY ONE POLE MAY CYCLE AND THIS POLE MUST CYCLE HEATING ELEMENT ONLY, NOT THE MOTOR. CYCLING BOTH SUPPLY LEADS WILL DEFEAT FAN DELAY OFF FEATURE AND RESULT IN OVER-HEATING AND POSSIBLE DAMAGE TO HEATER.

Note: 1100 watt models only may be wired with line break remote thermostat that cycles entire heater (elements and motor). 1500 watt models MUST be wired as shown in Fig. 4.

WARNING

YOUR HEATER IS PROVIDED WITH A BACK-UP THERMAL SAFETY FUSE THAT WILL OPEN ONLY IF THE HEATER IS IN NEED OF MAJOR REPAIRS. DO NOT BYPASS THIS FUSE. THE HEATER CAN ONLY BE REPAIRED BY A QUALIFIED SERVICE CENTER.

SPECIFICATIONS

Model No	Wattage	Voltage	Amperage
S1500B	1500	120	12.5
	750		6.3
S1504B	1500/1126	240 / 208	6.3 / 5.4
	750 / 563		3.1 / 2.7
S1100B	1125	120	9.4
	563		4.7
S1104B	1125/844	240 / 208	4.7 / 4.1
	563 / 422		2.3 / 2.0

TO CHANGE WATTAGE OUTPUT

The chart shows the wattages available by model. Each heater is factory wired for its maximum wattage. To change wattage remove the Red Jumper at left side of element (See Fig. 3 or 4).

CAUTION

FOR CORRECT AND CONTINUED SAFE OPERATION, YOUR HEATER MUST BE INSPECTED AND CLEANED PERIODICALLY. DEPENDING ON THE APPLICATION, THE HEATER SHOULD BE INSPECTED AND CLEANED AT LEAST ANNUALLY. IF USED AS PRIMARY HEAT, INSPECT AND CLEAN HEATER AT LEAST TWICE A YEAR OR MORE OFTEN IF NECESSARY. DO NOT CONTINUE TO USE THIS HEATER IF LINT AND DIRT HAVE ACCUMULATED INSIDE HEATER.

MAINTENANCE

TO CLEAN HEATER:

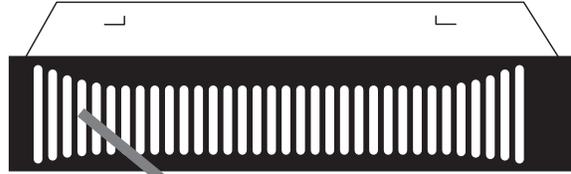
1. Disconnect power at main service panel.
2. Remove screws and grille.
3. Slide heater and back box out.
4. Remove top of enclosure.
5. Clean blower and inside of heater using vacuum cleaner w/ brush attachment.
6. Carefully spin blower wheel with finger to make sure it turns freely. Look for any damage or overheating of wiring connectors or components. If any problem is discovered, discontinue use of heater until it is repaired.
7. Replace cover.
8. Slide heater back in place.
9. Secure grille and heater with screws.
10. Reconnect power.
11. Verify heater operates properly.

OPERATIONAL NOTICE

Your heater is equipped with an automatic reset limit control that will automatically turn the heater OFF to prevent a fire if the heater overheats. Should this occur, the indicator light will illuminate and will continue to shine until the limit resets.

CAUTION

THE ILLUMINATED INDICATOR LIGHT SIGNIFIES THE HEATER HAS BEEN SUBJECTED TO SOME ABNORMAL CONDITION CAUSING IT TO OVERHEAT. CHECK HEATER TO INSURE THAT IT HAS NOT BEEN BLOCKED IN ANY MANNER (IF SO, REMOVE BLOCKAGE). IF THERE IS NO INDICATION OF BLOCKAGE IT IS RECOMMENDED THE HEATER BE CHECKED BY A REPUTABLE ELECTRICIAN OR REPAIR SERVICE TO INSURE THE HEATER HAS NOT BEEN DAMAGED.



NAMEPLATE

MODEL NO. **S1504B** DATE CODE **0606**

FAN FORCED WALL HEATER

240 1500/750

6.3/3.1

VOLTS AC WATTS

AMPS

CAUTION: USE ONLY WITH TS ENCLOSURE.
DO NOT OPERATE WITHOUT GRILLE IN PLACE.

ATTENTION: UTILISER UNIQUEMENT AVEC UN BÔTIER TS.
NE PAS FAIRE FONCTIONNER SANS LA GRILLE.

PRECAUTION: USARLO SÓLO CON LA CUBIERTA A TS.
NO DEBE ENCENDERSE SIN LA REJILLA.



774G LISTED
ROOM HEATER

MARLEY ENGINEERED PRODUCTS
BENNETTSVILLE, SC 29512

LIMITED WARRANTY

All products manufactured by Marley Engineered Products are warranted against defects in workmanship and materials for one year from date of installation, except heating elements which are warranted against defects in workmanship and materials for five years from date of installation. This warranty does not apply to damage from accident, misuse, or alteration; nor where the connected voltage is more than 5% above the nameplate voltage; nor to equipment improperly installed or wired or maintained in violation of the product's installation instructions. All claims for warranty work must be accompanied by proof of the date of installation.

The customer shall be responsible for all costs incurred in the removal or reinstallation of products, including labor costs, and shipping costs incurred to return products to Marley Engineered Products Service Center. Within the limitations of this warranty, inoperative units should be returned to the nearest Marley authorized service center or the Marley Engineered Products Service Center, and we will repair or replace, at our option, at no charge to you with return freight paid by Marley. It is agreed that such repair or replacement is the exclusive remedy available from Marley Engineered Products.

THE ABOVE WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE AFORESAID EXPRESSED WARRANTIES ARE HEREBY DISCLAIMED AND EXCLUDED FROM THIS AGREEMENT. MARLEY ENGINEERED PRODUCTS SHALL NOT BE LIABLE FOR CONSEQUENTIAL DAMAGES ARISING WITH RESPECT TO THE PRODUCT, WHETHER BASED UPON NEGLIGENCE, TORT, STRICT LIABILITY, OR CONTRACT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For the address of your nearest authorized service center, contact Marley Engineered Products in Bennettsville, SC, at 1-800-642-4328. Merchandise returned to the factory must be accompanied by a return authorization and service identification tag, both available from Marley Engineered Products. When requesting return authorization, include all catalog numbers shown on the products.

HOW TO OBTAIN WARRANTY SERVICE AND WARRANTY PARTS PLUS GENERAL INFORMATION

- | | |
|--------------------------------|-------------------------|
| 1. Warranty Service or Parts | 1-800-642-4328 |
| 2. Purchase Replacement Parts | 1-800-654-3545 |
| 3. General Product Information | www.marlymep.com |

Note: When obtaining service always have the following:

1. Model number of the product
2. Date of manufacture
3. Part number or description



Marley

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ECR 37192

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