FOR YOUR PROTECTION

1. Never reverse locomotive without stopping it first. To do so may damage the locomotive engine.
2. Never connect locomotive to AC terminals of your TECH II(TM) LOCO-MOTION 1500. This may damage your locomotive motor.
3. Turn power switch off at end of day or operation.
4. When a short circuit or current overload occurs and circuit breaker trips, turn the TECH II(TM) LOCO-MOTION 1500 switch off and check the short or overload. Allow 5 to 10 minutes for the thermal circuit protector to reset before turning on the unit back on.
5. Avoid protracted overloads and short circuits. While your TECH II(TM) LOCO-MOTION 1500 is equipped with a removable safety device to prevent accidental damage due to short circuits and overloads, it is not immune to this frequent occurrence.
6. Do not store in damp areas.
7. For best performance, keep main and track surfaces clean. Intermittent and "jerk" operation are often caused by an oxide coating that forms on the track or rails.
8. Before removing your unit for repair or servicing, make certain it is disconnected. Do not shut down your layout unnecessarily.
9. If it is necessary to return your unit, repack it in its original carton and then in an outer carton, placing at least four inches of packing material on each side of the unit. The unit should be shipped insured by an approved carrier.

MOUNTING — Your TECH II(TM) LOCO-MOTION 1500 may be placed on a flat surface during daytime use. The unit is approximately 5 1/2 inches square and weighs approximately 12 pounds. It is constructed for indoor use only. When mounting, place the unit on a flat surface parallel to the layout, with the control panel facing up. The unit should be mounted on a flat surface or a shelf at least 12 inches above the floor. The control panel should be accessible for easy operation.

OPERATING INSTRUCTIONS FOR MODEL 1500

All of us at MRC would like to join in wishing you many happy years of model railroading with your new TECH II(TM) LOCO-MOTION 1500.

MODEL RECTIFIER CORPORATION
80 Newfield Avenue, Edison, N.J. 08837
(732) 225-6360

IN-1263

SPECIFICATIONS:
INPUT — 120VAC, 60Hz.
OUTPUT — 22VDC, 17VAC, 20VDC — All no load ratings
TOTAL OUTPUT — 12V.
PULSE FREQUENCY — 80 Hz.
CONTROL SYSTEM — MRC'S PROPORATIONAL TRACKING CONTROL.
SLOW SPEED CONTROL — External variable speed control is accomplished by the use of Automatic Pulse Inversion. Pulses gradually disappear when they are no longer needed.

MOUNTING — Your TECH II(TM) LOCO-MOTION 1500 may be placed on a flat surface during daytime use. The unit is approximately 5 1/2 inches square and weighs approximately 12 pounds. It is constructed for indoor use only. When mounting, place the unit on a flat surface parallel to the layout, with the control panel facing up. The unit should be mounted on a flat surface or a shelf at least 12 inches above the floor. The control panel should be accessible for easy operation.

CIRCUITRY — Your TECH II(TM) LOCO-MOTION 1500 is equipped with a thermal circuit protector to prevent accidental damage due to short circuits and overloads. It is not immune to this frequent occurrence.

CAUTION — ELECTRICALLY OPERATED PRODUCT.

NOT RECOMMENDED FOR CHILDREN UNDER 8 YEARS OF AGE.
AS WITH ALL ELECTRIC PRODUCTS, PRECAUTIONS SHOULD BE OBSERVED DURING HANDLING AND USE TO REDUCE THE RISK OF ELECTRIC SHOCK.

INPUT — 12OVAC 60Hz. OUTPUT — 22VDC, 17VAC, 20VDC TOTAL — 12V.

THROTTLE CONTROL — The throttle is used to set the speed of the locomotive you are controlled. With the maximum switch in "off" position, all locomotives will be immediately accelerated to the speed dictated by the throttle. In momentum "on", however, the brake should be applied to slow the locomotive. If brake is applied, but the throttle is turned down, the train will very slowly coast to a stop, just like a real train.

INDICATORS —
POWER METER — The power meter is used to give an approximate indication of output voltage. It will indicate the number of volts on your track, etc. If the throttle is left in an "on" position and the light intensity increases at the locomotive continues to run, it indicates the current is being drawn. If the light becomes less intense, more current is being drawn. If the light goes out suddenly, the motor is not receiving power.

TERMINALS —
VARIABLE DC — These terminals are for attachment of your TECH II(TM) LOCO-MOTION 1500 to the main line of your layout. If your locomotive does match the position of the Direction Switch, simply reverse the wires going to these terminals.

ACCESSORIES — AC — These terminals supply AC voltage for use with AC accessories.

FIXED DC — These terminals supply DC voltage for use with Cab Controls and DC accessories.

NOTE: When connecting to any terminal, care must be taken that wires do not touch more than one terminal at one time. Loose wires are a danger to your unit and layout; be certain wires are properly wrapped around terminal before tightening screws.

PARENTS, PLEASE NOTE: As with any electrically operated unit, it is always best to periodically examine it and have repaired or replaced any potentially hazardous part.