



## INSTALLATION MANUAL PA-90 Power Amplifier

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### INTRODUCTION

The MAGPOWR® Model PA-90 power amplifier is intended for use with the DIGITRAC® 2, VERSATEC™ or EZ-TRAC® for the control of electromagnetic clutches and brakes.

### PA-90 INSTALLATION

The PA-90 power amplifier is to be installed inside the control. Set jumpers on JP1 for current range before installation. Wiring to and from the control and power amp must be done with double or reinforced insulation or protective screening which provides protective separation. All wiring outside the control enclosures should comply with the essential requirements of the appropriate standard(s) and is the responsibility of the installer.



**WARNING: DISCONNECT MAINS BEFORE OPENING ENCLOSURE**

### MAINTENANCE

The only maintenance that may be required on the PA-90 is fuse replacement. Replacement of any fuse requires opening the enclosure, which circumvents the enclosure IP rating. To change a fuse:

On a PA-90 power amplifier mounted in the D2, D2SLVMD, VTC, EZ or their variants:

1. Disconnect the supply mains.
2. Remove the two screws which retain the top cover.
3. Remove the top cover.
4. Remove and replace the blown fuse.
5. Re-install the top cover.
6. Reconnect supply mains.

On a PA-90 power amplifier mounted in the D2E, VTCE, EZE or its variants:

1. Disconnect the supply mains.
2. Open the door by loosening the two retaining screws.
3. Remove and replace blown fuse on the PA-90
4. Close the door and retighten the retaining screws.
5. Reconnect supply mains.

## PA-90 POWER AMP SPECIFICATIONS

Supply Voltage:	115 vac, $\pm 10\%$
Supply Frequency (AC)	50 to 60 Hz sinusoidal
Fuses:F1, F2	1.6 Amp, Littelfuse Part No. 21601.6, or Wickmann Part No. 19194-053-FS
Enclosure:	To be used inside a Digitrac2, Versatec or Ez-Trac enclosure
Climatic Class:	3K3 (EN60721)
Operating Temperature Range:	0°C to 40°C
Storage Temperature Range:	-30°C to +80°C
Relative Humidity:	5% to 85%
Pollution Degree:	2 (IEC664-1)
Altitude:	0 to 2000 meters
Compatible Residual Current Device Types: A or B	(IEC755)
Worst Case Fault Current:	1/2 Amp
Control Input:	Acquired from Digitrac2, Versatec or Ez-Trac
Output:	-3-90 vdc, 1/8, 1/4, 1/2 amp selectable



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