

MAX100

***Quick Disconnect
Upgrade Instructions***

801240 - Rev. 0

HYPERTHERM[®]


**MAX100
Quick Disconnect
Upgrade Instructions**

**IM-124
(P/N 801240)**

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Purpose

The MAX100 quick disconnect upgrade instructions provide the necessary information to remove the existing torch lead from the MAX100 power supply and replace it with the MAX100 quick disconnect upgrade kit.

Customer Supplied Tools

Straight blade screwdriver
2 Phillips head screwdriver
1/2" Open-end wrench
7/16" Open-end wrench
11/32" Open-end wrench

MAX100 Quick Disconnect Upgrade Kit (# 028483)

Enclosure, MAX100 quick disconnect receptacle, # 001283
Quick disconnect receptacle assembly, # 028449 (already mounted to enclosure)
Grommet strip, # 008603 (already mounted to enclosure)
Screw (4), M/S 8-32 x 3/8, PH, TRS, S/B # 075368
Terminal jumper, # 008095
Kepnut (4), 8-32, # 075159

Procedure

WARNING - Prior to proceeding with the upgrade installation, shut the power supply down at the front panel and disconnect the power cord. Disconnect the gas supply to the power supply. Failure to do so could result in serious injury or death.

Remove Existing Torch Lead

To remove the existing torch lead, refer to the MAX100 Instruction Manual IM-69 (Fig. 6) or IM-69/I (Fig.3-6) and proceed as follows:

1. Remove the four (4) screws securing the left side cover to the power supply.
2. Disconnect the torch start switch leads marked 33 and 34 from terminal strip 1TB.
3. Remove the power lead [torch cathode (-)] and pilot arc lead [torch pilot].
4. Remove the torch lead assembly out through the brass feed-through at the rear left of the power supply.

Install MAX100 Quick Disconnect Upgrade Kit

To install the quick disconnect upgrade kit, proceed as follows:

1. Position the quick disconnect enclosure as shown in Figure 1 to allow the quick disconnect receptacle assembly torch leads and switch leads to pass through the brass feed-through at the rear left of the power supply.

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2. Ensure the work cable is routed through the slot on the enclosure prior to securing with screws.
3. Secure the quick disconnect enclosure to the rear panel with the four (4) screws and kepnuts.
4. Connect the power lead and pilot arc lead as shown in Figure 2.
5. Connect the GND lead to 1TB as shown. Complete the ground connection by loosening the two (2) screws on 1TB as shown and install the jumper with open ends positioned down. Tighten both screws. Ensure that a good ground to MAX100 frame has been achieved.
6. Connect the torch start switch leads marked 33 and 34 to terminal strip 1TB as shown.
7. The upgrade is now complete. The MAX100 torch lead with a quick disconnect can now be connected to the quick disconnect receptacle.

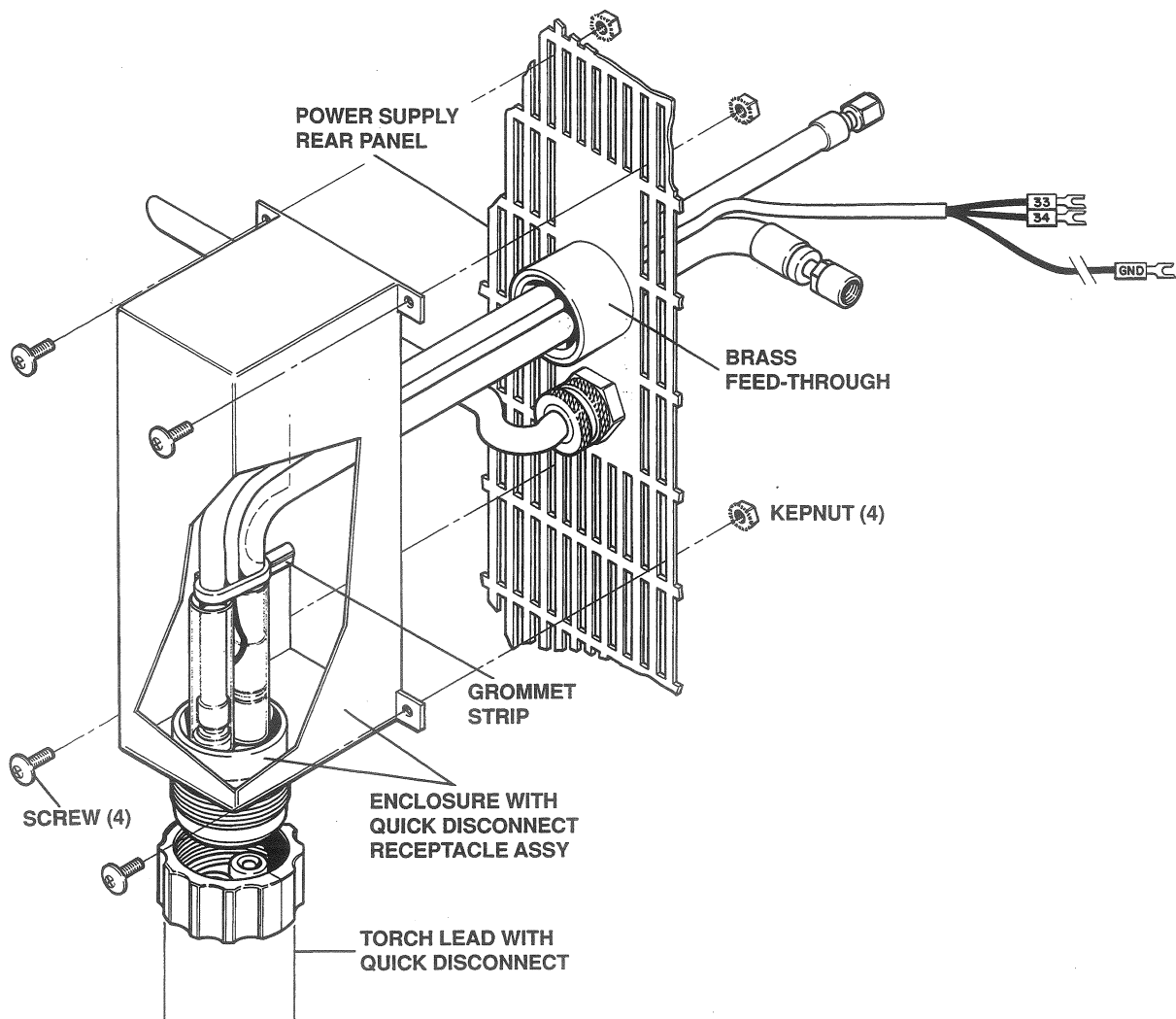


Figure 1 MAX100 Quick Disconnect Box Installation

MAX100 QUICK DISCONNECT

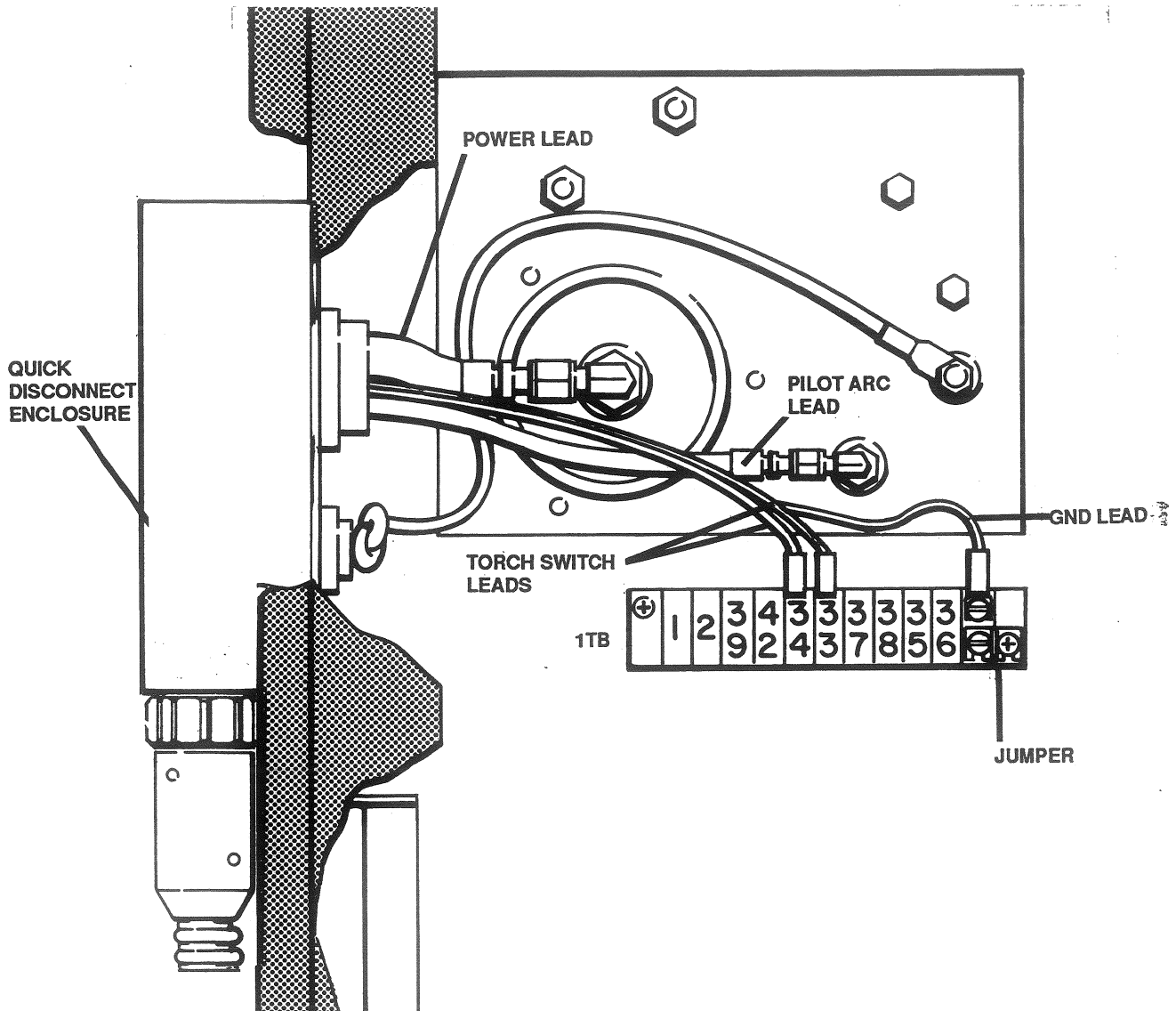


Figure 2 MAX100 Quick Disconnect Connections