



BATTERY CHARGER	POWER ADAPTER	REGION	INPUT VOLTAGE AND FREQUENCY RANGE	CURRENT REQUIREMENT (PLUG TYPE)	
				BATTERY CHARGER	POWER ADAPTER
2063870-1 2280961-1	2063874-1	North America	100-120 V, 50-60 Hz	0.41 A (NEMA 1-15)	4.5 a (NEMA 1-15)
2063870-2	2063874-2	Continental Europe	220-240 V, 50-60 Hz	0.18 A (EU CEE 7/16)	2.0 A (EU CEE 7/17)
2063870-3	2063874-3	Great Britain	220-240 V, 50-60 Hz	0.18 a (bs 1363)	2.0 a (BS 1363/A)
2063870-4	2063874-4	Japan	100-120 V, 50-60 Hz	0.41 A (NEMA 1-15)	4.5 A (JA1-15P)
2063870-5	2063874-5	China, Australia, New Zealand	220-240 V, 50-60 Hz	0.18 A (AS/NZS 3112)	2.0 A (AS/NZS 3112)

Figure 1

1. INTRODUCTION

Battery Chargers 2063870-[], 2280961-1, and AC-to-DC Power Adapters 2063874-[] are designed to be used with the electro-hydraulic hand tool included in Electro-Hydraulic Hand Tool Kits 2031400-[]. The battery charger is used to recharge Battery 2031440-1 (included with the hand tool kit). The AC-to-DC power adapter enables the hand tool to be used without the battery.

For operating procedure and safety precautions for the hand tool kit, refer to Customer Manual [409-10095](#).



NOTE

The battery charger is also included with the hand tool kit, and the AC-to-DC power adapter is only available separately.



NOTE

All numerical values in this instruction sheet are in metric units [with U.S. customary units in brackets]. Figures are for reference only and are not drawn to scale.

2. DESCRIPTION

See Figure 1 for features of the battery charger and power adapter. Specifications for the battery chargers and power adapters are given in Figure 2.

BATTERY CHARGER		POWER ADAPTER	
Battery Type:	Lithium-Ion (Lilon)	Nominal Output Voltage:	10.8 VDC
Output Voltage Range:	9.6 to 28.8 VDC	Output Current Range:	10 to 33 A
Charging Current:	3 A	Operating Temperature Range:	+5 to 40°C [41 to 104°F]
Charging Time (1.3 Ah):	25 Minutes (Approximately)	---	
Operating Temperature Range:	+5 to 40°C [41 to 104°F]		

Figure 2

3. SAFETY PRECAUTIONS

The following safety precautions apply to the battery charger and the power adapter.

- Check the cord and plug for damage. DO NOT use the unit if damage is evident.
- Check that the voltage of the power source is within the allowable voltage indicated on the unit label.
- Keep metal objects away from the terminals; otherwise, shorts may occur.
- DO NOT open the housing of the unit (there are no serviceable parts inside).
- Use and store the unit in dry areas only. Protect the unit from moisture and dampness.
- Use the unit only within the allowable operating temperature range (see Figure 2). Keep the unit out of direct sunlight and away from heat sources.

4. OPERATING PROCEDURE

4.1. Battery Charger

**NOTE**

A new battery or one that has not been used for some time might require up to 5 charge-and- discharge cycles to reach its normal capacity.

1. Plug the battery charger into the power source. Facing the front of the battery charger, observe the state of the light-emitting diode (LED) located on the left side:
continuous red glow - charger ready to operate
flashes red - internal malfunction (replace the battery charger, refer to Section 5)
2. If the battery charger is ready to operate, slide the battery onto the battery charger. Within 4 seconds, the battery will be tested for adequate voltage, temperature, polarity, and short-circuit conditions. Facing the front of the battery charger, observe the state of the LED located on the right side:
continuous green glow - charging in process
flashes green - battery is fully charged
flashes red - battery is over-heated (charging will resume when battery temperature drops to allowable temperature)
continuous red glow - battery is defective

**DANGER**

DO NOT USE a damaged or defective battery. Properly dispose of the battery.

**NOTE**

The battery can remain on the battery charger plugged into the power source indefinitely without damage (overcharging will not occur). If the battery is kept on the battery charger, and the battery charger is unplugged, the battery will lose the charge.

4.2. Power Adapter

1. Slide the power adapter onto the hand tool until it is securely held by the latch.
2. Plug the power adapter into the power source. Observe the red-colored LED located on the power adapter:
continuous red glow - adapter ready to operate
3. When usage of the hand tool ends, unplug the power adapter from the power source, and observe the red-colored LED located on the power adapter:
stops glowing (could take several minutes) - power adapter can be removed from the hand tool as follows:
 - a. depress the latch
 - b. slide power adapter off of the hand tool

5. REPLACEMENT AND REPAIR

Order additional battery chargers and power adapters through your TE Representative, or call 1-800-522-6752 or write to:

CUSTOMER SERVICE (038-035)
TYCO ELECTRONICS CORPORATION
PO BOX 3608
HARRISBURG PA 17105-3608

6. REVISION SUMMARY

- Added new battery charger number to table in Figure 1