

## INSTALLATION INSTRUCTIONS

Original Issue Date: **12/95**

Model: **20-750 kW**

Market: **Industrial**

Subject: **Current Transformer Installation Kits PA-346588, PA-346589, PA-346590, PA-346591, PA-346592, PA-346593, PA-346594, PA-346595**

Install the current transformer kit either in the generator set housing or ATS housing to allow the power-measuring module to measure the generator set current.

Kit No.	Transfer Switch Amps	Current Transformer Part Number	Current Transformer Ratio
PA-346588	150	246887	200/5
PA-346589	260	246889	300/5
PA-346590	400	297148	600/5
PA-346591	600	297149	800/5
PA-346592	800	291546	1000/5
PA-346593	1000	297756	1200/5
PA-346594	1200	291547	1500/5
PA-346595	1600	291548	2000/5



**⚠ WARNING**  
**Accidental starting.**  
**Can cause severe injury or death.**

Disconnect battery cables before working on generator set (disconnect negative lead first and reconnect it last).

**Disabling generator set. Accidental starting can cause severe injury or death.** Turn generator set master switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on the generator set or connected equipment. The generator set can be started by an automatic transfer switch or remote start/stop switch unless these precautions are followed.

**WARNING**

**Hazardous voltage.**  
**Can cause severe injury or death.**

Disconnect power sources before servicing. Install barrier after adjustments, maintenance, or service.

*(under 600 Volt)*

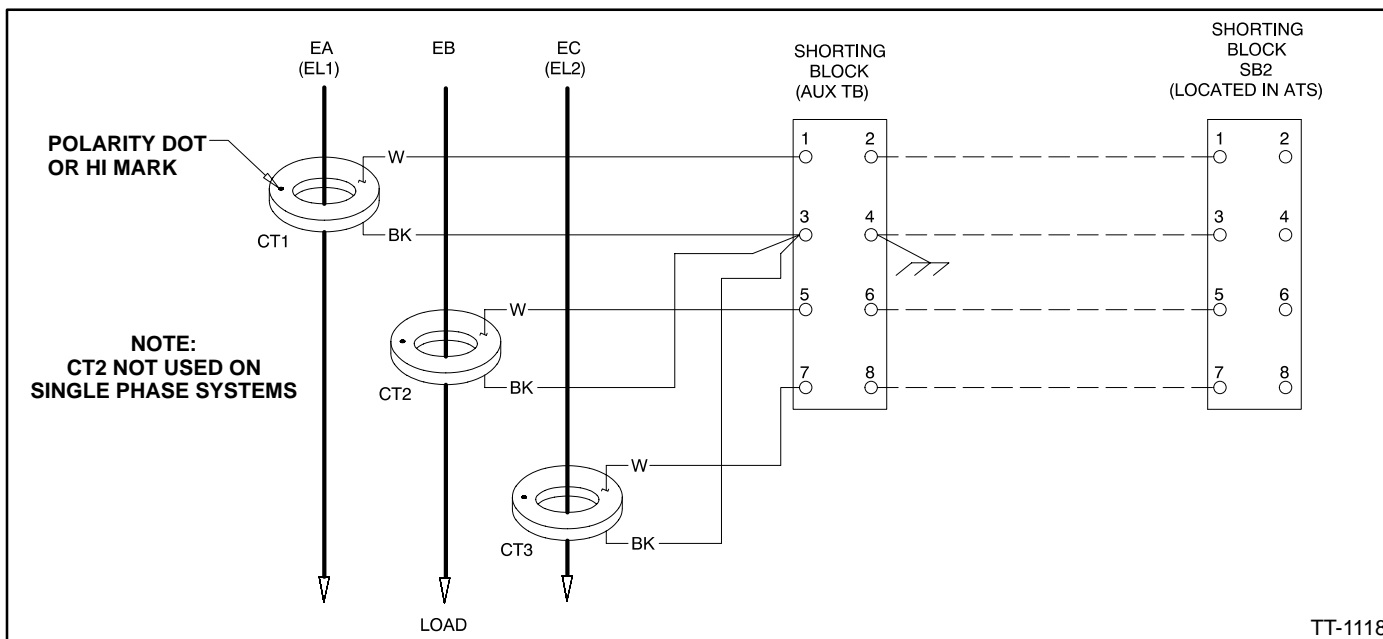
**Servicing transfer switch. Hazardous voltage can cause severe injury or death.** De-energize both normal and emergency power sources before proceeding. Move generator set master switch on controller to OFF position and disconnect battery negative (–) before working on transfer switch! Turn the transfer switch selector switch to the OFF position.

## Installation

1. Place the generator set master switch in the OFF position.
2. Disconnect generator set engine starting battery, negative (–) lead first.
3. Install the current transformers where the total generator current is monitored (generator and auxiliary load bank load), in either the generator set housing or the transfer switch housing.
4. Pass the power cables through the current transformer openings as shown in Figure 1.
5. Mount shorting block (aux TB) in an accessible location.
6. Connect current transformer wires to auxiliary TB.
7. Install wiring between AUX TB and SB2. See Chart 1 for wire size requirements.

8. Verify that the terminals of the shorting block (SB2) are not shorted by retracting the shorting screws.

9. Reconnect generator set engine starting battery, negative (–) lead last.



**Figure 1. Current Transformer Installation**

Wire Length ft (m)	Wire ga.
0-100 (0-30)	14
101-160 (31-48)	12
161-250 (49-76)	10

**Chart 1. Shorting Block Wire Size Requirements**

#### Current Transformer Kit

Parts List						
Kits: PA-346588, PA-346589, PA-346590, PA-346591			Unique Parts			
Qty.	Description	Common Parts	PA-346588	PA-346589	PA-346590	PA-346591
1	Block, terminal	X-6126-25				
3	Transformer, current		246887	246889	297148	297149

#### Current Transformer Kit

Parts List						
Kits: PA-346592, PA-346593, PA-346594, PA-346595			Unique Parts			
Qty.	Description	Common Parts	PA-346592	PA-346593	PA-346594	PA-346595
1	Block, terminal	X-6216-25				
3	Transformer, current		291546	297756	291547	291548