



Service Bulletin

SG1400C3 ~ SG1800C3 Transformer/Bracket Installation

Product Group: Power Solutions	Date Issued: 11/05/12	Service Bulletin No. GSP20121105
Bulletin Type ☒ Mandatory ☐ Information Only ☐ Recommended Change		Models/Series Affected: SG1400C3 ~ SG1800C3 S/N MX170654 ~ WA578213

Details

Problem:

Existing saddle box transformer mounting surface is not adequate to support transformer.

Solution:

Relocate and mount transformer onto cabinet floor.

Parts Information

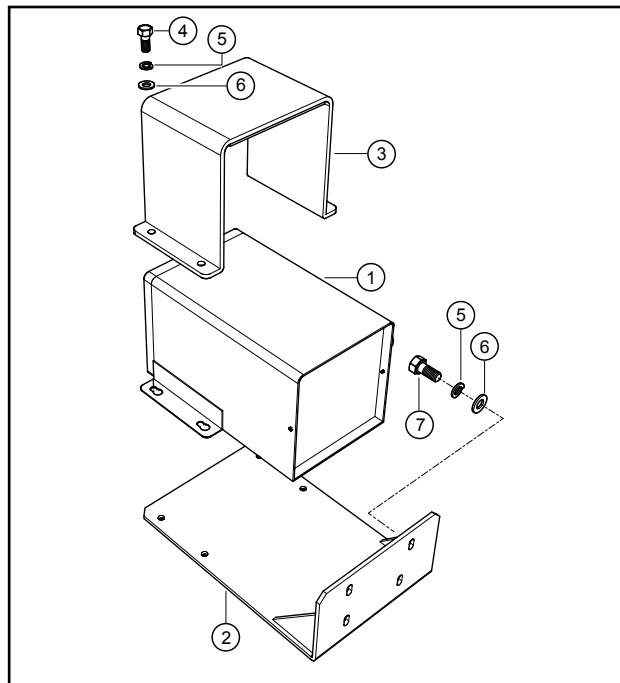


Figure 1. Transformer Kit

Item No.	Part No.	Description	QTY.	Remarks
1	EE55799	Transformer	1	If Required
2	EE56737	Bracket (Floor)	1	
3	EE56719	Bracket (Hat)	1	
4	N/A	Bolt 3/8" X 1"	4	
5	N/A	Washer, Lock 3/8"	8	
6	N/A	Washer, Flat 3/8"	8	
7	N/A	Bolt 3/8" X 1-1/4"	4	

PROCEDURE

1. Open the side door (Figure 2) and locate the transform.

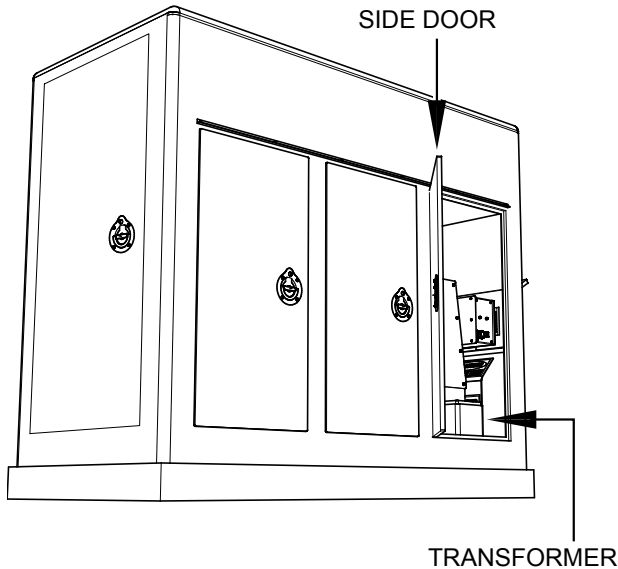


Figure 2. Transformer Location

2. Remove the existing mounting hardware (Figure 3) that secures the transformer to the saddle box. Discard mounting hardware, they will not be used again.

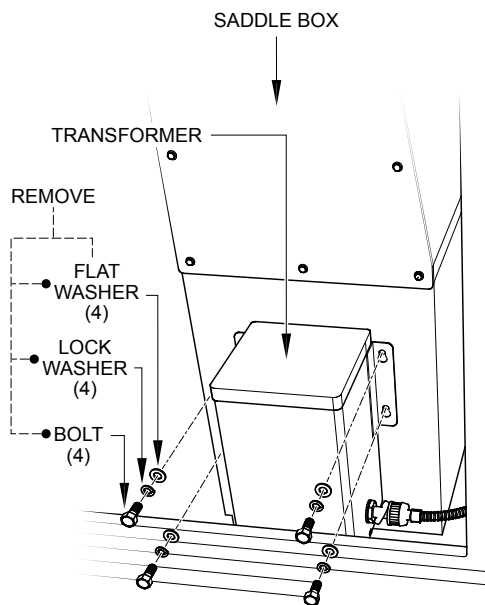


Figure 3. Transformer Removal

3. Carefully set the transformer down on a flat surface and inspect transformer *mounting ears* for damage, deformations, and cracks.

4. If the transformer mounting ears have been damaged, replace transformer as outlined in the "Transformer Replacement" section.
5. If there is no damage to the transformer mounting ears, proceed to the section below.

Installing New Mounting Brackets (Existing Transformer Only)

NOTICE

Perform the procedure below only if the existing transformer is to be remounted using the new supplied mounting brackets. **DO NOT** perform this procedure if the transformer mounting ears are damaged.

1. Align transformer bracket (hat) with transformer mounting ears along with transformer support bracket (floor) as shown in Figure 4.
2. Secure both brackets (Figure 4) to transformer using a 3/8" x 1" bolt (4), 3/8" lock washer (4), and 3/8" flat washer.

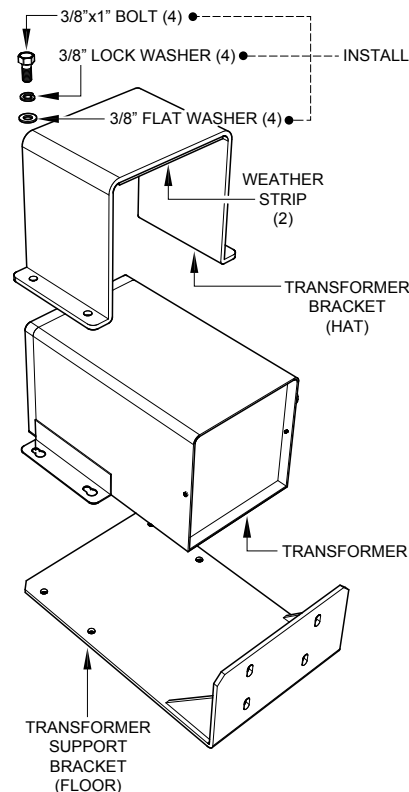


Figure 4. Installing Transformer Mounting Brackets (Hat/Floor)

Mounting Transformer (Cabinet Floor)

1. Pull back cabinet floor mat as shown in Figure 5 to expose transformer support bracket (floor) threaded mounting holes.

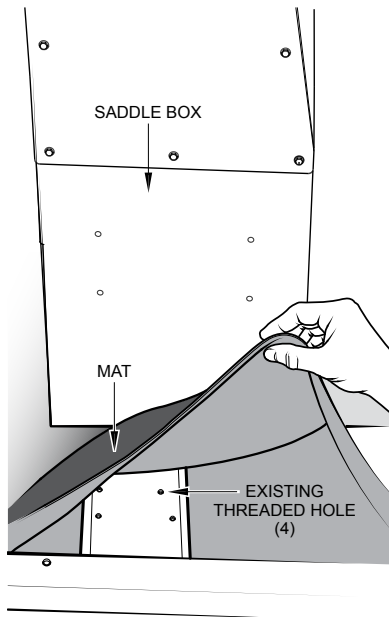


Figure 5. Transformer Support Bracket Threaded Mounting Holes

2. Once the location of the threaded mounting holes for the transformer support bracket (floor) have been determined, place mat back down.
3. Feeling through the mat, locate the threaded mounting holes. Use an awl (Figure 6) and punch four holes through the mat so that the 4 mounting bolts can fit through the mat.

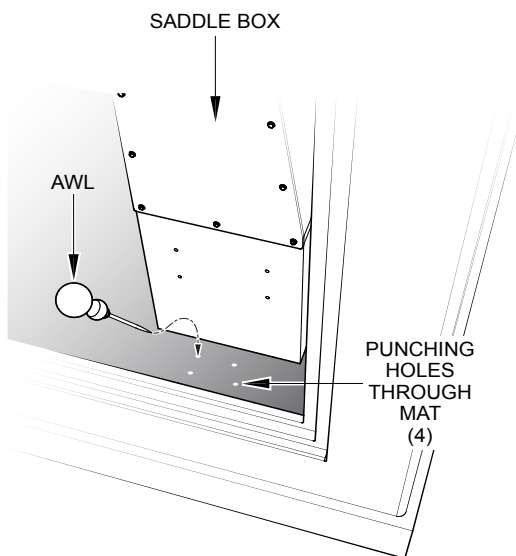


Figure 6. Mat Bolt Hole Opening

4. Align transformer support bracket with the threaded mounting holes on cabinet floor as shown in Figure 7
5. Secure transformer bracket (floor) to cabinet floor using a 3/8" x 1-1/4" bolt (4), 3/8" lock washer (4), and 3/8" flat washer.

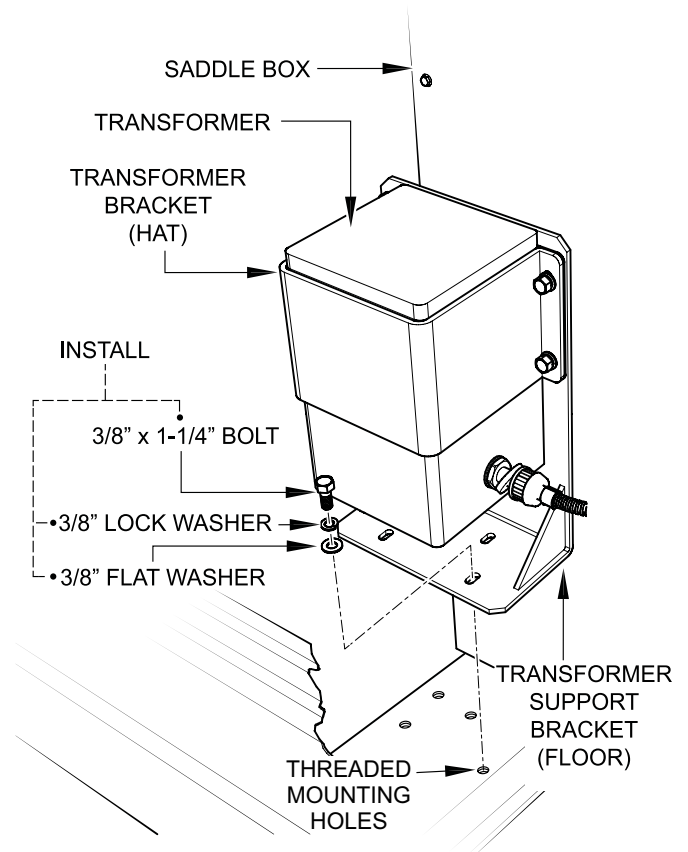


Figure 7. Mounting Transformer To Cabinet Floor

TRANSFORMER REPLACEMENT

NOTICE

If the mounting "**EARS**" on the transformer have been deformed, damaged, shows signs of cracks, perform the procedure below.

1. Set the transformer in an upright position (bottom facing upwards) as shown in Figure 8.
2. Remove the 2 sheet metal screws as shown in Figure 8 that secure the bottom cover to the transformer. Set screws aside in a safe place, they will be reused.
3. Remove cover and set aside in a safe place.

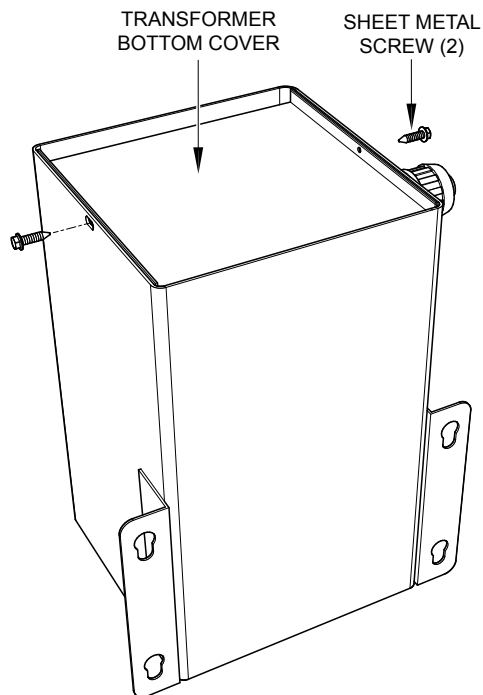


Figure 8. Removing Transformer Cover

Swivel Strain Relief Connector Removal

1. Disconnect the 4 male and female spade connectors inside the transformer as shown in Figure 9. Be sure that each wire has a marking label. This will help when installing the new transformer.

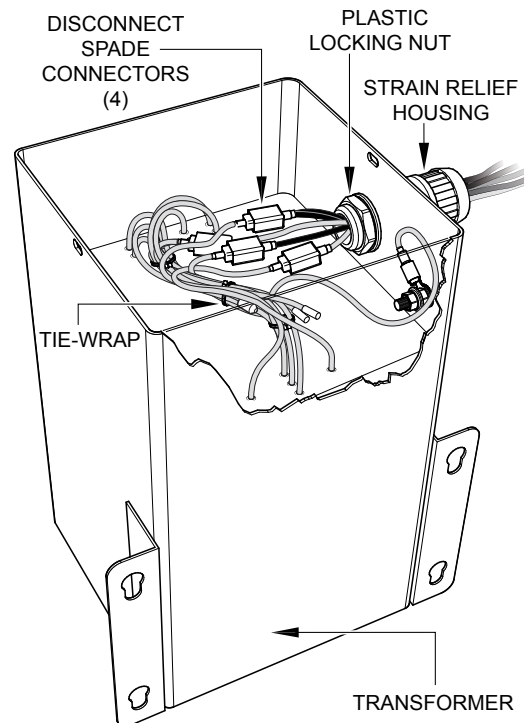


Figure 9. Spade Connectors (Disconnection)

2. If the wire marking label is missing, mark each connecting wire in such a manner that they can be reconnected correctly (mark and tag each wire before disconnecting).
3. Cut tie-wraps as required for flexibility when removing strain relief cable wires through transformer hole opening.

- Once all the wires have been disconnected, remove the plastic locking nut inside the transformer from the strain relief housing.
- Next, pull all the strain relief cable wires through the hole opening on the transformer.

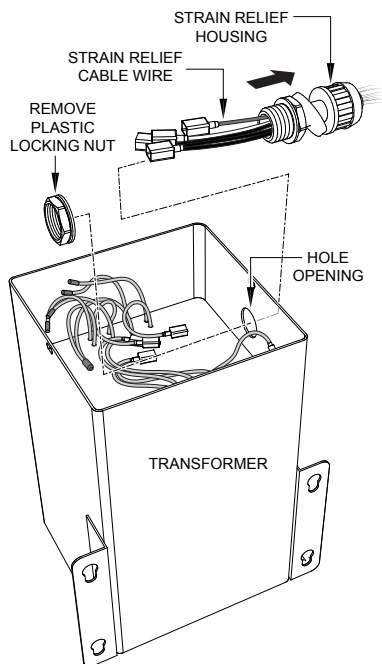


Figure 10. Strain Relief Housing Removal

- Discard transformer.

New Transformer Installation

- Route all the strain relief cable wires through the hole opening on the **new** transformer.
- Insert all strain relief cable wires through plastic locking nut. Secure strain relief housing with plastic locking nut.
- Reconnect all strain relief cable wires (4) as shown in Table 1 and Figure 11.

Table 1. Transformer Wiring Connections

Transformer Side		Strain Relief Side
Ref. Des.	COLOR	COLOR
H1	WHITE (single wire)	RED
H8	WHITE (single wire)	BLACK ((single wire)
X3-X1	WHITE (dual wire)	BLACK (dual wire)
X2-X4	WHITE (dual wire)	WHITE (single wire)

- Install tie-wraps as required.
- Reinstall bottom cover onto transformer.
- Secure transformer bottom cover with the 2 sheet metal screws that were removed earlier.
- Mount new transformer onto cabinet floor as outlined in the "Mounting Transformer (Cabinet Floor)" section.

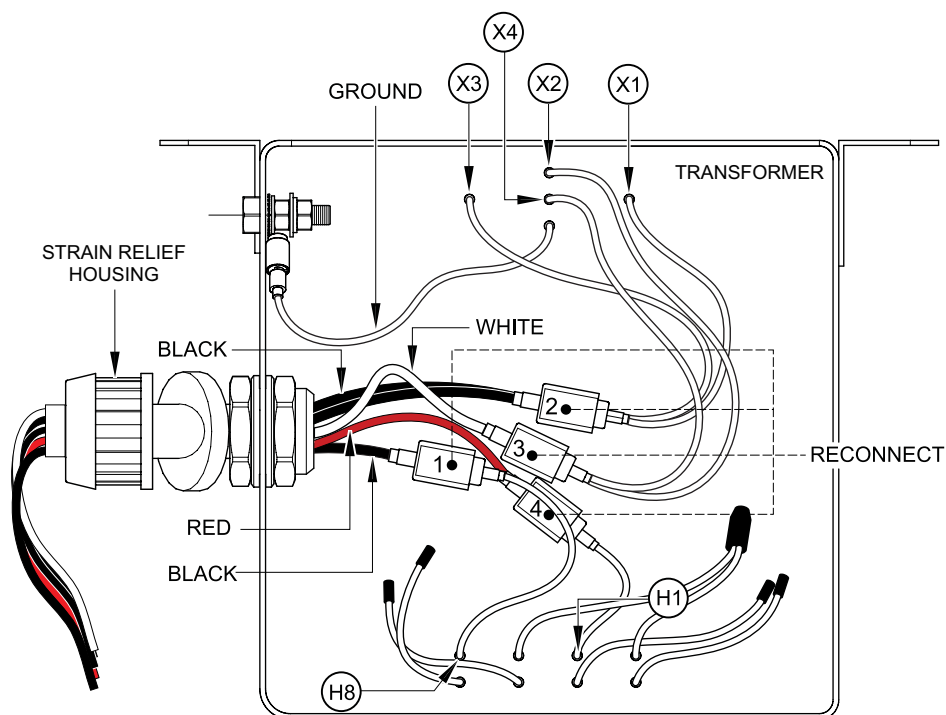


Figure 11. Wiring Connections

Warranty Information
Campaign Reference No. 20121105
Please contact Chris Fairchild or Wendy Sanchez @ 1-800-421-1244 for warranty claim number and warranty form.
Labor Allowance: Flat Rate to install – 1.0 Hour.



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HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL
NUMBER ON-HAND WHEN CALLING

UNITED STATES

Multiquip Corporate Office

18910 Wilmington Ave. Tel. (800) 421-1244
Carson, CA 90746 Fax (310) 537-3927
Contact: mq@multiquip.com

Service Department

800-421-1244 Fax: 310-537-4259
310-537-3700

Technical Assistance

800-478-1244 Fax: 310-943-2238

MQ Parts Department

800-427-1244 Fax: 800-672-7877
310-537-3700 Fax: 310-637-3284

Warranty Department

800-421-1244 Fax: 310-943-2249
310-537-3700

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