

INSTALLATION INSTRUCTIONS

Original Issue Date: 4/02

Model: **Model K and Model S Programmable Transfer Switches**

Market: **Transfer Switches**

Subject: **User Interface Cover Kits GM22703-KP1 to GM22703-KP4**

Introduction

This document provides installation instructions for the user interface covers. The user interface cover prevents unauthorized access to the transfer switch interface panel controls. See Figure 1.

The kits have a hinged, padlockable, rain-tight sheet metal security cover with a keylock providing restricted access to the transfer switch controls. Covers are available with or without a transparent window. Some kits also include a second padlock bracket for the enclosure door on welded enclosures. See Figure 2.

Read the entire installation procedure and compare the kit parts with the parts list at the end of this publication before beginning installation. Perform the steps in the order shown.

Power Tools Required

- Electric drill
- Drill bit, 6 mm (7/32 in.)

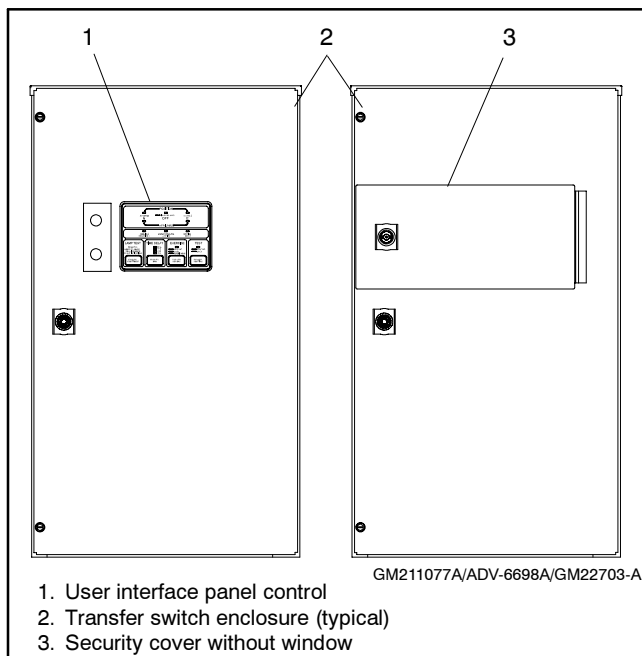


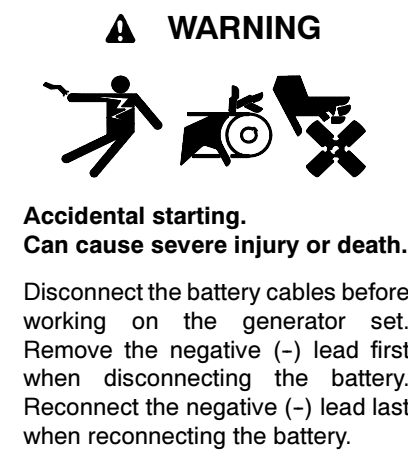
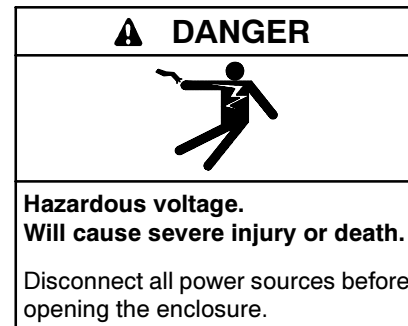
Figure 1 User Interface Panel Control and Security Cover

Kit No.	Window	Padlockable Door	ATS Size, Amps
GM22703-KP1	No	Yes	30-1000
GM22703-KP2	Yes	Yes	30-1000
GM22703-KP3	No	No	1200-4000
GM22703-KP4	Yes	No	1200-4000

Figure 2 Kit Details

Safety Precautions

Observe the following safety precautions during installation.



Disabling the generator set. Accidental starting can cause severe injury or death. Before working on the generator set or connected equipment, disable the generator set as follows: (1) Move the generator set master switch to the OFF position. (2) Disconnect the power to the battery charger. (3) Remove the battery cables, negative (-) lead first. Reconnect the negative (-) lead last when reconnecting the battery. Follow these precautions to prevent starting of the generator set by an automatic transfer switch, remote start/stop switch, or engine start command from a remote computer.

Grounding electrical equipment. Hazardous voltage can cause severe injury or death. Electrocutation is possible whenever electricity is present. Open the main circuit breakers of all power sources before servicing the equipment. Configure the installation to electrically ground the generator set, transfer switch, and related equipment and electrical circuits to comply with applicable codes and standards. Never contact electrical leads or appliances when standing in water or on wet ground because these conditions increase the risk of electrocution.

Short circuits. Hazardous voltage/current can cause severe injury or death. Short circuits can cause bodily injury and/or equipment damage. Do not contact electrical connections with tools or jewelry while making adjustments or repairs. Remove all jewelry before servicing the equipment.

NOTICE

Foreign material contamination. Cover the transfer switch contactor and logic assembly during drilling to keep dirt, grit, metal drill chips, and other debris out of the components.

Installation Procedure

1. Remove the generator set and transfer switch from service.

- 1.1 Place all generator set master switches in the OFF position.
- 1.2 Disconnect the power to all battery chargers, if equipped.
- 1.3 Disconnect all generator set engine starting battery(ies), negative (-) leads first.
- 1.4 Disconnect all power sources to transfer switches and power monitors.
- 1.5 Turn off and disconnect the power to all devices in the system.
- 1.6 Open the transfer switch enclosure.

Note: Foreign material contamination. Cover the transfer switch contactor and logic assembly during drilling to keep dirt, grit, metal drill chips, and other debris out of the components.

2. Install the security cover and bracket.

- 2.1 Drill six 6 mm (7/32 in.) diameter holes in the transfer switch door as shown in Figure 3. Dimensions shown are mm. Remove burrs and metal chips.
- 2.2 Attach the latch bracket (GM22533) to the outside surface of the door using three 10-32 nuts (X-6210-1). Do not final-tighten the nuts at this time. See Figure 4.

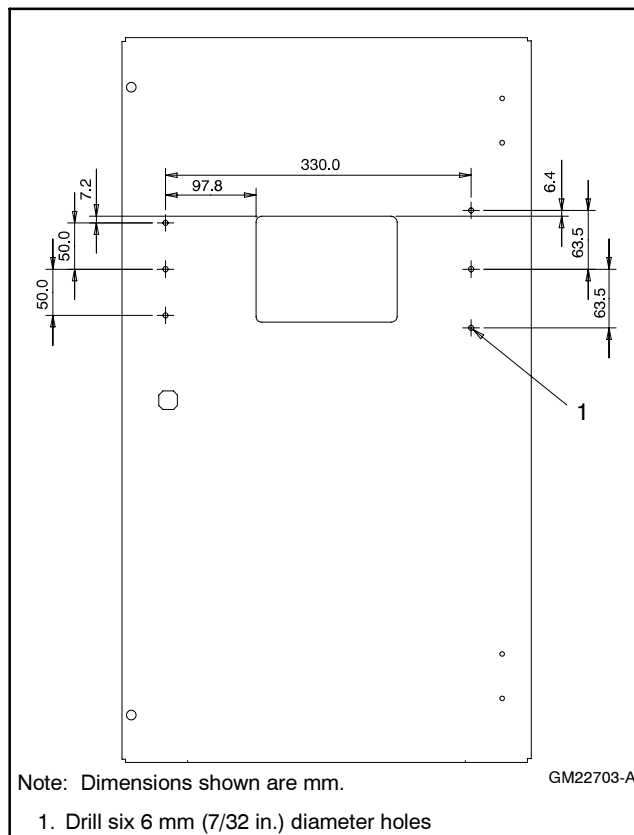


Figure 3 Drill Holes in Transfer Switch Door

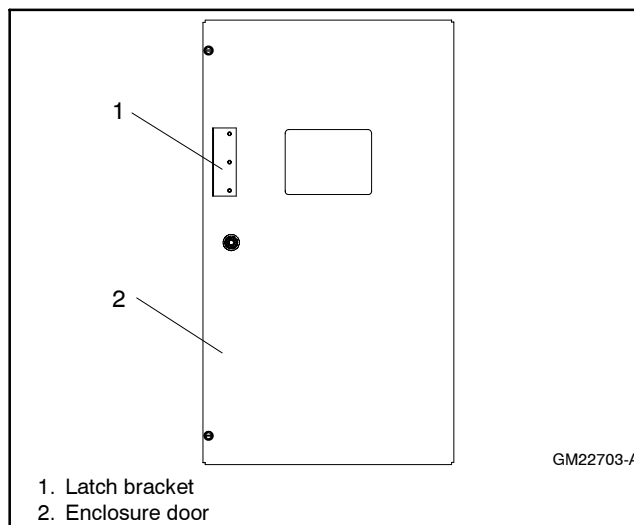


Figure 4 Attaching Latch Bracket

2.3 Attach security cover GM22504 or GM22505 (with window) to the outside surface of the door using three 10-32 nuts (X-6210-1). Do not final-tighten the nuts at this time. See Figure 5.

2.4 Verify that the security door is level. Verify that the security door and latch align. Adjust the hardware as necessary. Final-tighten the six nuts.

3. Install padlock bracket on enclosure door (GM22703-KP1 and GM22703-KP2 kits only).

3.1 Remove the existing enclosure door latch on the enclosure door (welded enclosure). See Figure 6.

3.2 Place the padlock bracket (GM20576) and enclosure latch gasket on the enclosure latch. Place the compression latch in the hole of the security cover. Position the padlock bracket with the padlock holes horizontal. Install and tighten the mounting nut. See Figure 7.

3.3 Verify that the enclosure latch locks and unlocks the enclosure door. Adjust the hardware as necessary.

4. Install compression latch on security cover.

4.1 Remove the nut from the compression latch (GM22534). See Figure 8.

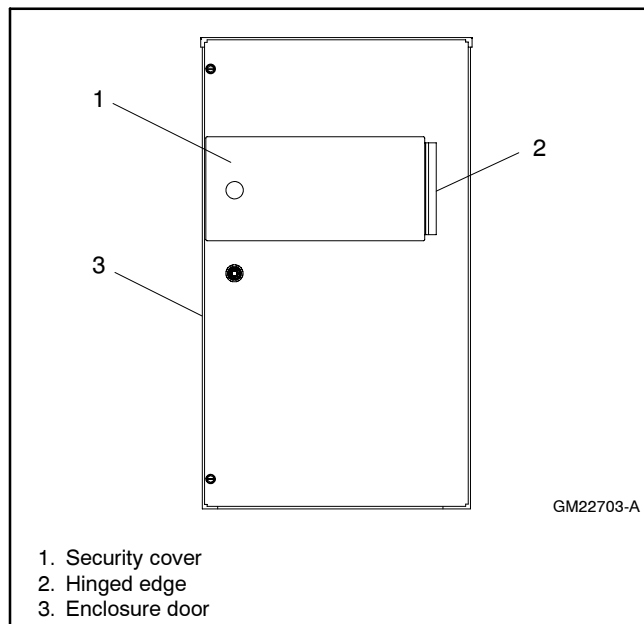


Figure 5 Attaching Security Cover

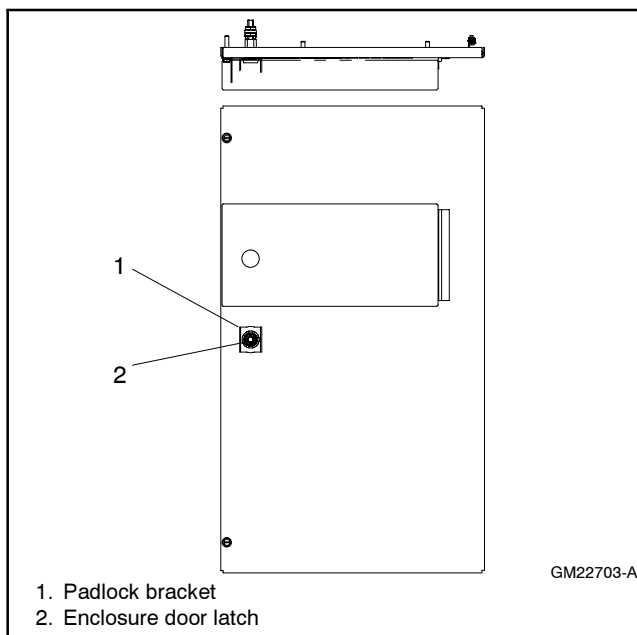


Figure 6 Attaching Padlock Bracket on Enclosure Door (welded enclosures only)

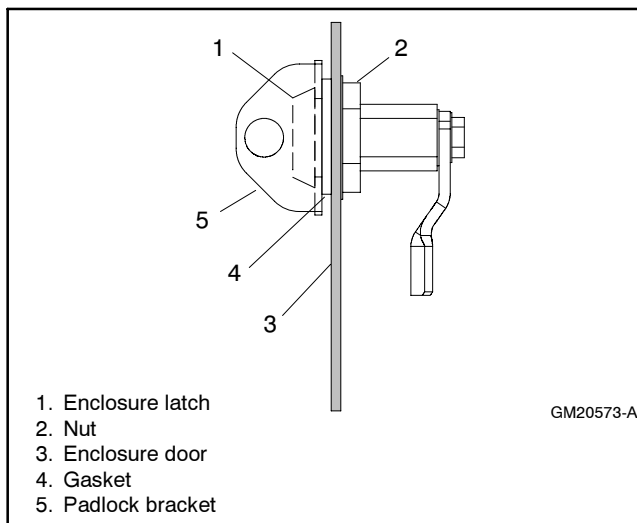


Figure 7 Enclosure Latch

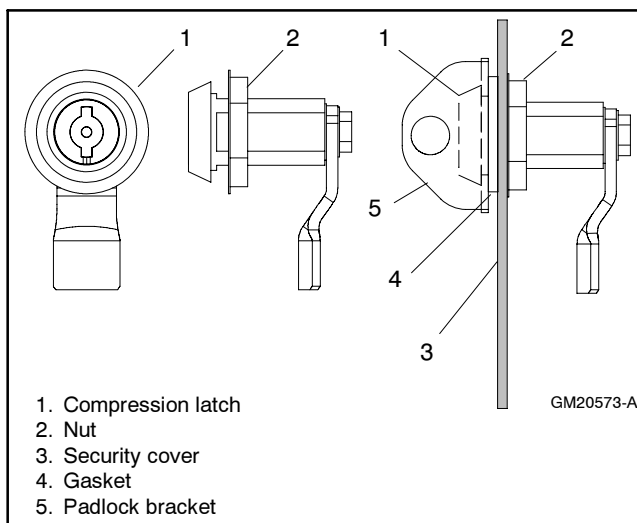


Figure 8 Compression Latch

4.2 Place the padlock bracket (GM20576) and compression latch gasket on the compression latch (GM22534). Place the compression latch in the hole of the security cover. Position the padlock bracket with the padlock holes horizontal. Install and tighten the mounting nut. See Figure 9.

4.3 Verify that the compression latch locks and unlocks the security cover. Adjust the hardware as necessary.

If the compression latch does not lock, verify that the security door is level. Verify that the security door and latch align. Adjust the hardware as necessary.

5. Restore the generator set and transfer switch to service.

5.1 Close and secure the transfer switch enclosure.

5.2 Close and secure the transfer switch security cover.

5.3 Check that all generator set master switches are in the OFF position.

5.4 Reconnect the generator set engine starting battery(ies), negative (-) leads last.

5.5 Reconnect power to the battery charger, if equipped.

5.6 Reconnect all power sources to the transfer switches and power monitors.

5.7 Reconnect power to all devices in the system.

5.8 Place all generator set master switches in the AUTO position.

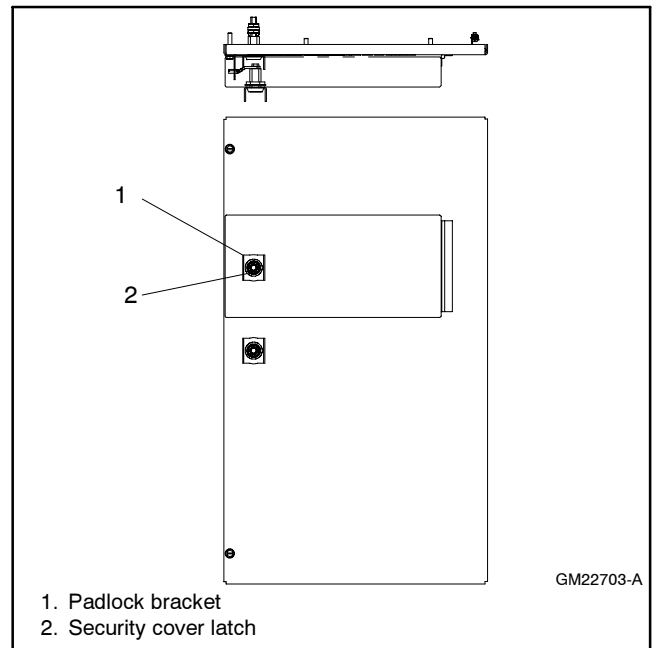


Figure 9 Attaching Compression Latch and Padlock Bracket on Security Cover

Parts List

User Interface Cover Kits

Kits: GM22703-KP1 to GM22703-KP4						
Qty.	Description	Common Parts	Unique Parts			
			GM22703-KP1	GM22703-KP2	GM22703-KP3	GM22703-KP4
2	Bracket, padlock		GM20576	GM20576		
1	Bracket, padlock				GM20576	GM20576
1	Cover, security		GM22504	GM22505 (with window)	GM22504	GM22505 (with window)
1	Bracket, latch	GM22533				
1	Latch, compression (key operated)	GM22534				
2	Key, compression latch	GM20574				
6	Nut, 10-32	X-6210-1				