

Stanley Access Technologies
Quick-Reference Guide



**Alarm Contacts for Dura-Glide™ 2000, 3000, 5200, and
5300 Door Systems**

Installation Instructions

Quick-Reference Guide

204035

Rev. B, 10/27/08

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Quick-Reference Guide

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1. PURPOSE

1.1 **Discussion**

This manual provides installation instructions for the Stanley Alarm Contacts. The alarm contacts provide a security monitoring function. The contacts consist of magnets and reed switches that monitor each SX and SO panel. For the SX panels, the alarm contacts detect the for slide open as well as breakout positions. For the SO panels, the alarm contacts detect for the breakout position.

The alarm contacts can be installed on the Dura-Glide 2000-, 3000-, 5200-, and 5300-series door systems.

1.2 **Applicability**

This manual is applicable to the Stanley alarm contacts installed on the Dura-Glide 2000-, 3000-, 5200-, and 5300-series door systems.

2. PREREQUISITES

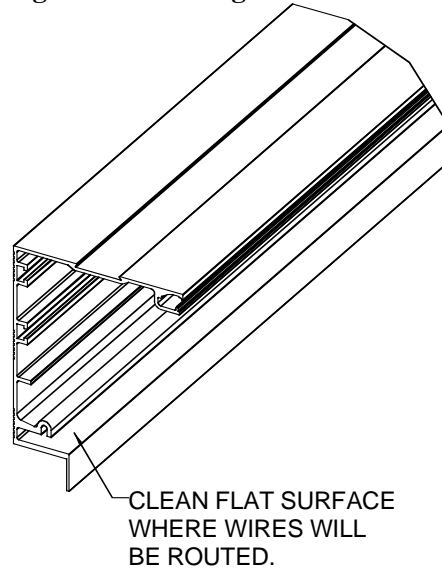
- 2.1 The narrow stile 5300 SO panel width must be greater than 18.375". The medium stile 5300 SO panel width must be greater than 19.375". (Both minimum dimensions are required to accommodate placement of the surface-mounted magnet.)
- 2.2 Electrical power to the door has been deenergized before performing installation or maintenance.
- 2.3 Protective barrier (caution/warning tape) has been set up to prevent unauthorized access to work area.
- 2.4 The area has been cleared of all obstructions.
- 2.5 Attachment 1 has been reviewed for the following:
 - Definitions of the terms used in this procedure
 - A listing of the documents, special tools and equipment, materials, and consumables used in this procedure.

3. INSTALLATION INSTRUCTIONS

3.1 **Installing Alarm Contacts on Dura-Glide 5300 SO Panel (Bi-Part and Single-Slide Door Packages)**

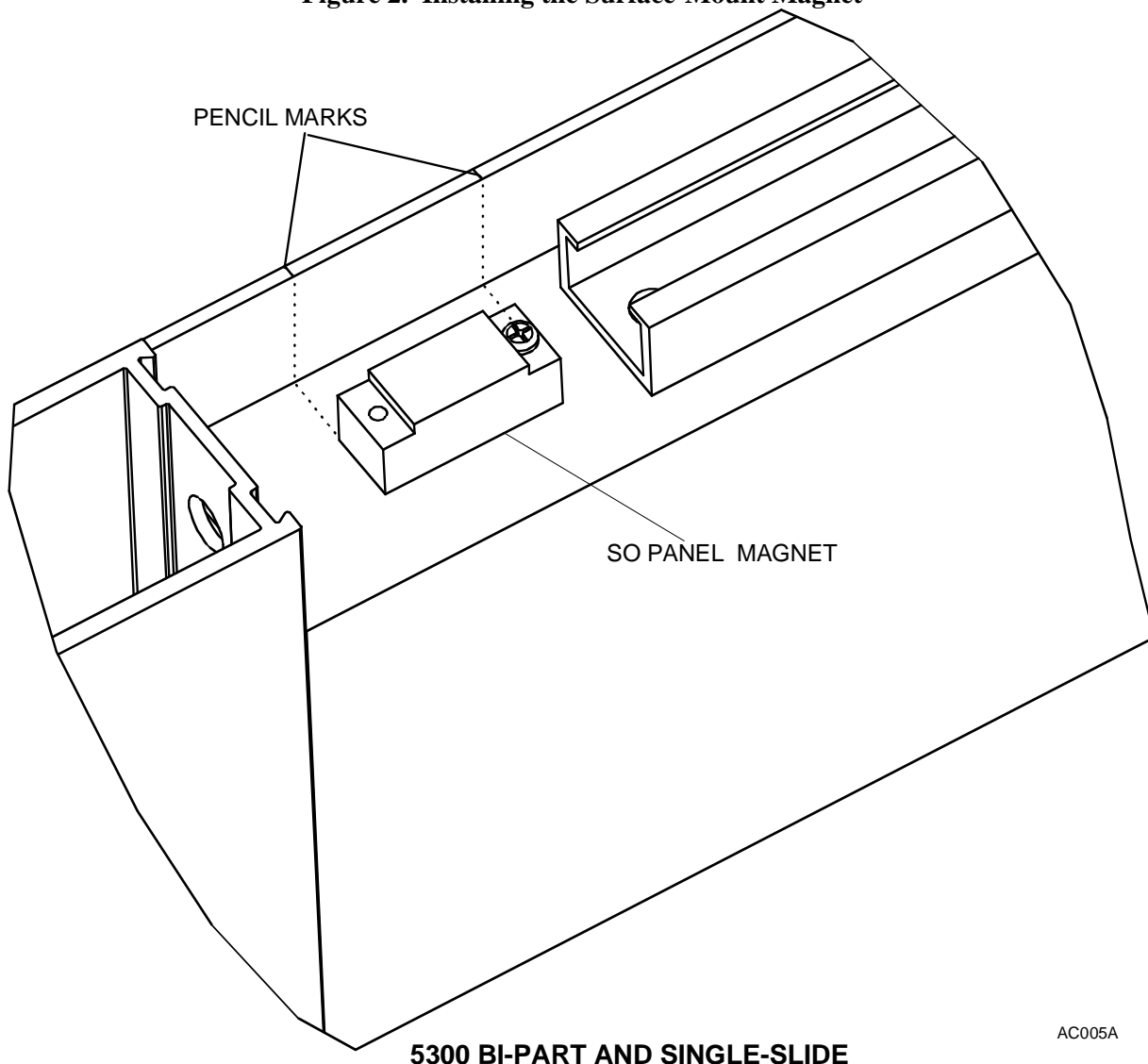
- 3.1.1 DISCONNECT or DEENERGIZE electrical power to the door.
- 3.1.2 Manually SLIDE the door panels to the open position.
- 3.1.3 Refer to Figure 1, and, using isopropyl alcohol, CLEAN the entire wire-routing passage located below the slow track.

Figure 1. Cleaning the Wire Routing Path



- 3.1.4 Refer to Figure 2, and INSTALL the SO panel magnet as follows:
 - a. BREAKOUT one SO panel to the full-open position.
 - b. Refer to Figure 2, and DETERMINE if there is adequate space in the top rail to install the miniature surface-mount magnet and contact.

Figure 2. Installing the Surface-Mount Magnet



AC005A

- c. If there is *not* adequate space to install the surface-mount magnet, MOVE the door holder to the pivot side as necessary.
- d. Using a #43 drill bit (0.089" dia.) and the SO panel magnet as a guide, DRILL one hole in the center of the top rail.

NOTE

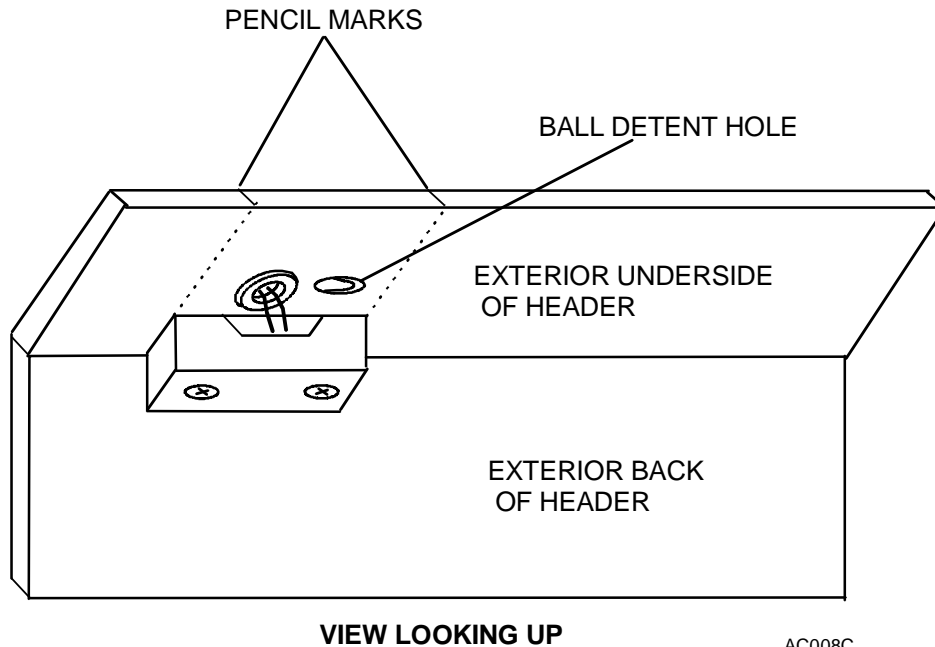
During the initial installation of the surface-mount magnet, only one of the two screws will be installed. The second screw will be installed during the fine-tuning process.

- e. Using a # 4 screw, ATTACH one side of the surface-mount magnet to the top rail.
- f. Using a pencil, MARK the location of the surface-mount magnet onto the door.

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3.1.5 Refer to Figure 3, and INSTALL the surface-mount contact as follows:

Figure 3. Installing the Surface-Mount Switch and Grommet



- a. CLOSE the SO panel.
- b. Using a pencil, MARK the location of the surface-mount contact onto the header.
- c. Using the contact as a template, MARK the position of the surface-mount contact mounting holes onto the header.
- d. Using a #43 drill bit (0.089" dia.), DRILL two holes in the bottom of the header.
- e. Using two # 4 screws, ATTACH the surface-mount contact to the bottom of the header.
- f. Refer to Figure 3, and, using a $\frac{3}{8}$ " dia. drill bit, DRILL a hole in the bottom of the header to accommodate the grommet.
- g. INSTALL the grommet in the bottom of the header.

NOTE

Two alarm contact wire harness lengths are available (3' and 11'). The required harness depends on the location of the alarm wiring.

- h. ATTACH harness to the switch and install protective cover on the switch.
- i. ROUTE the two-conductor jacket alarm contact wire harness through the grommet.
- j. ROUTE the alarm contact wire harness just below the slow SX panel through the area cleaned in step 3.1.3.

3.1.6 Using a multimeter, CLOSE the SO panel, and TEST the switch for continuity.

NOTE

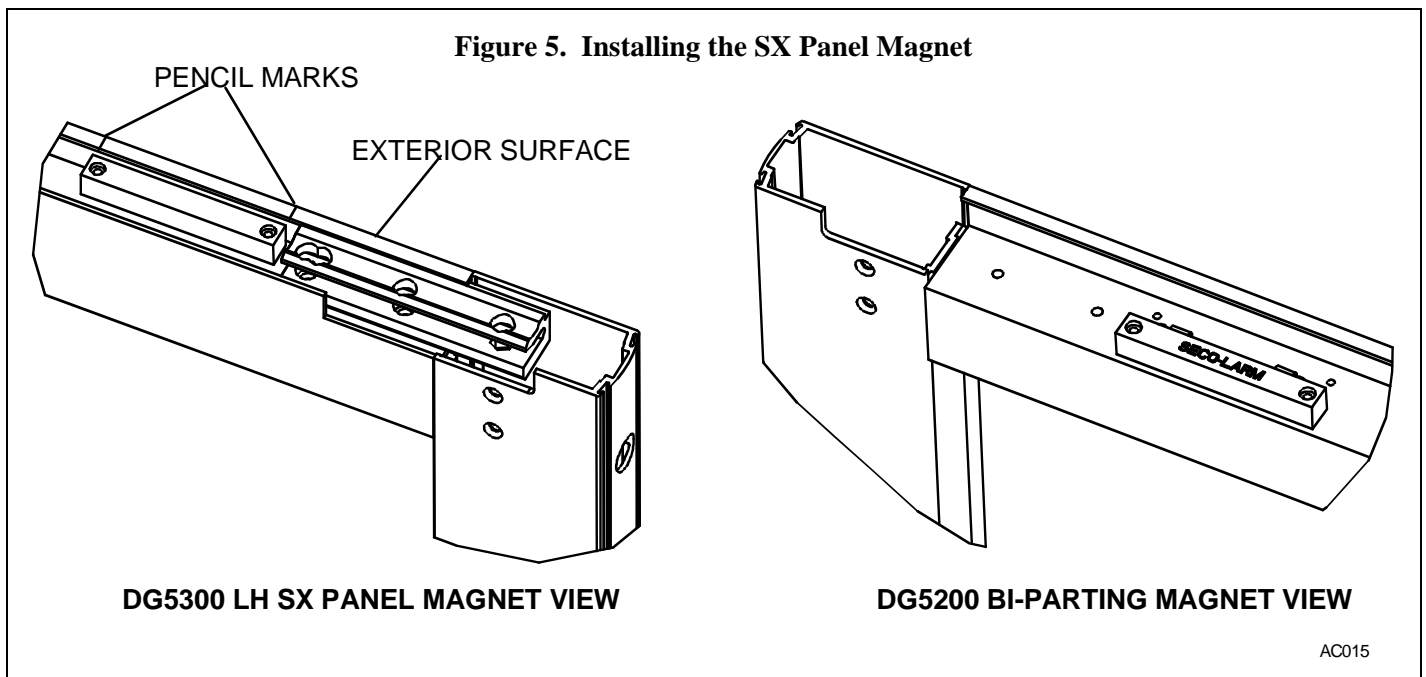
Adjusting the position of the magnet on the SO panel is done by breaking out the slow SX panel for minimum breakout angle.

This SO-mounted magnet and switch monitors both SO and Slow SX panels for breakout alarm.

- 3.1.7 ADJUST the position of the magnet on the SO panel as necessary to achieve proper alarm setting.
- 3.1.8 When magnet position is correct, PERFORM the following:
 - a. Using a #43 drill bit (0.089" dia.), DRILL the second magnet mounting hole in the top rail.
 - b. Using the second # 4 screw, ATTACH the magnet to the top rail.
- 3.1.9 REPEAT Section 3.1 for the opposite SO panel.

3.2 Installing Alarm Contacts on Dura-Glide 5300 and 5200 SX Panels (Bi-Parting Doors Packages Only)

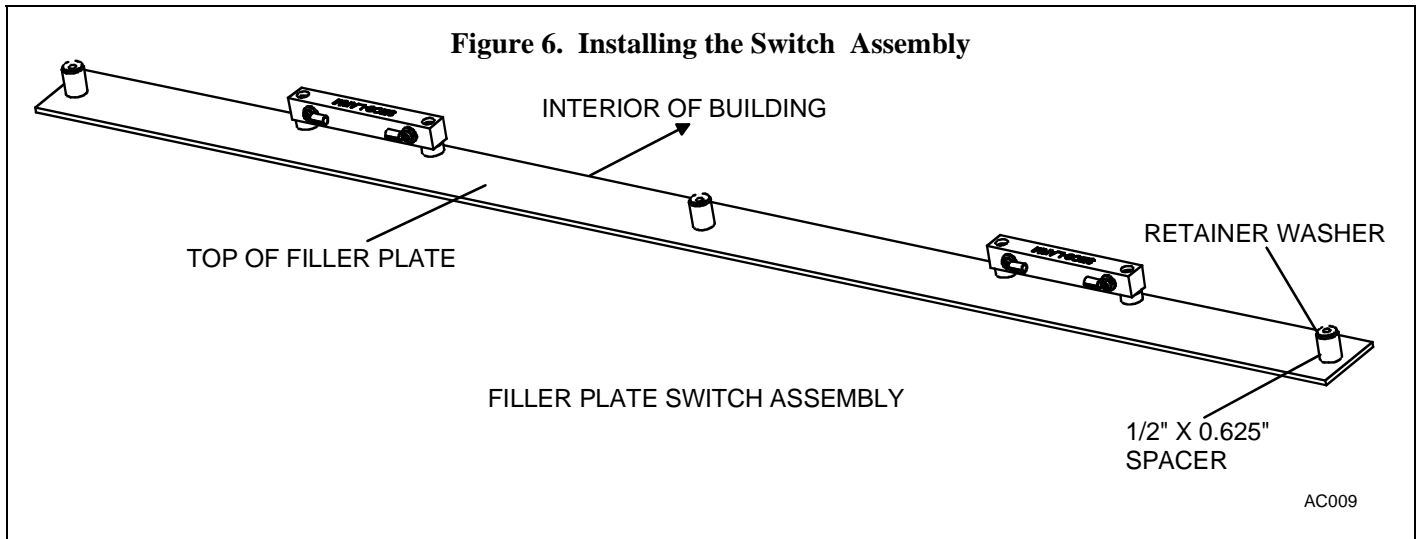
- 3.2.1 DISCONNECT or DEENERGIZE electrical power to the door.
- 3.2.2 Refer to Figure 5, and INSTALL the SX panel magnet as follows:



- a. POSITION the magnet on the top rail next to the ball detent and closer to the surface of the rail that faces the outside of the building.
- b. Using the magnet as a template, MARK the location of the magnet mounting holes on the top rail.
- c. Using a #29 drill bit (0.136" dia.), DRILL both magnet mounting holes in the top rail.
- d. POSITION the two nylon spacers ($\frac{1}{2}$ " dia. X 0.22" thick) from the hardware kit under the magnet

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- e. Using two #8-18 x 1 ¼" pan-head self-tapping screws, ATTACH the magnet to the top rail.
 - f. Using a pencil, MARK the location of the magnet on the top rail.
 - g. CLOSE the door, and MARK the bottom of the filler plate where the switch assembly will be attached.
- 3.2.3 REPEAT step 3.2.2 for the opposite SX panel.
- 3.2.4 Refer to Figure 6, and INSTALL the switch assembly as follows:



NOTE

The switch assembly must be mounted above the filler plate closest to the building.

- a. REMOVE the filler plate, which is mounted to the bottom of the header in between the SX Slow panels. (Longer screws will be used to re attach it back to the header.)
- b. Using the switch assembly as a guide, MARK the location of the switch assembly holes on the top side of the filler plate.
- c. Using a #15 drill bit (0.018" dia.), DRILL the four switch assembly mounting holes (two per switch) into the filler plate.
- d. Using an 82-degree countersink, COUNTERSINK the switch assembly mounting holes from the bottom side of the filler plate, which is the opposite side of where the switch is to be mounted
- e. Using four #10-12 x 3/4" self-tapping flat-head screws (bronze and clear screws provided to match the door color), ATTACH the switch assemblies to the filler plate.
- f. Using the following, ATTACH the filler plate to the header:
 - Three #10-12 x 1" flathead screws
 - Three ½" dia., x 0.625" long spacers
 - Three 0.44" dia., x 0.032" retaining washers (The washer is required to keep the screw attached to the spacer when mounting.)

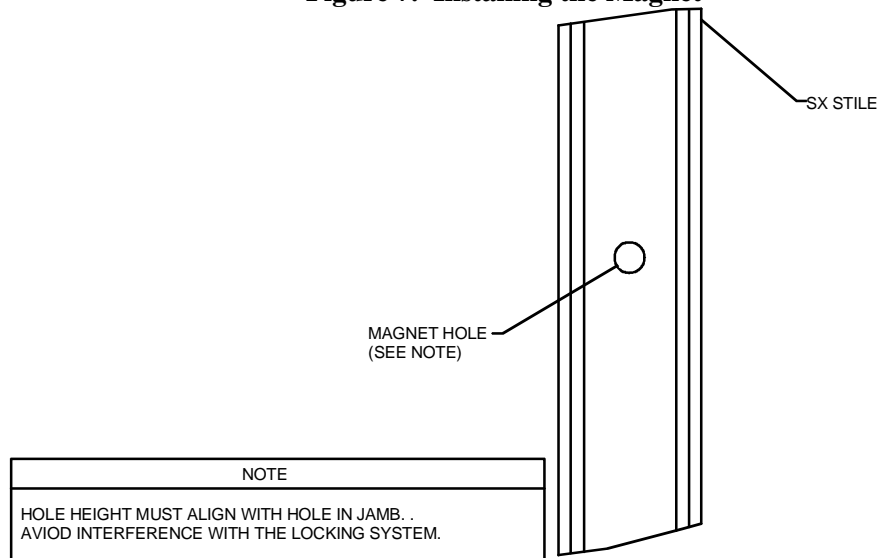
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- g. ROUTE wires through the wire routing passage towards the side of the header where the alarm contact will be terminated. (This is the area that was cleaned in step 3.1.3.)
- h. Using cable clamps, SECURE the wires inside the wire passage.
- 3.2.5 Refer to Attachment 3, and, using the wire nuts provided, CONNECT the alarm contact wiring.
- 3.2.6 ATTACH the alarm contact label to the end of the two-conductor cable.

3.3 Installing Alarm Contacts on Dura-Glide 2000, 3000, 5200, and 5300 SX Panels (Single-Slide Door Packages Only)

- 3.3.1 DISCONNECT or DEENERGIZE electrical power to the door.
- 3.3.2 Refer to Figure 7, and DRILL a $\frac{3}{8}$ " hole in the leading edge of the SX stile.

Figure 7. Installing the Magnet



SINGLE SLIDE 2000, 3000, 5200, AND 5300 SX STILE MACHINING

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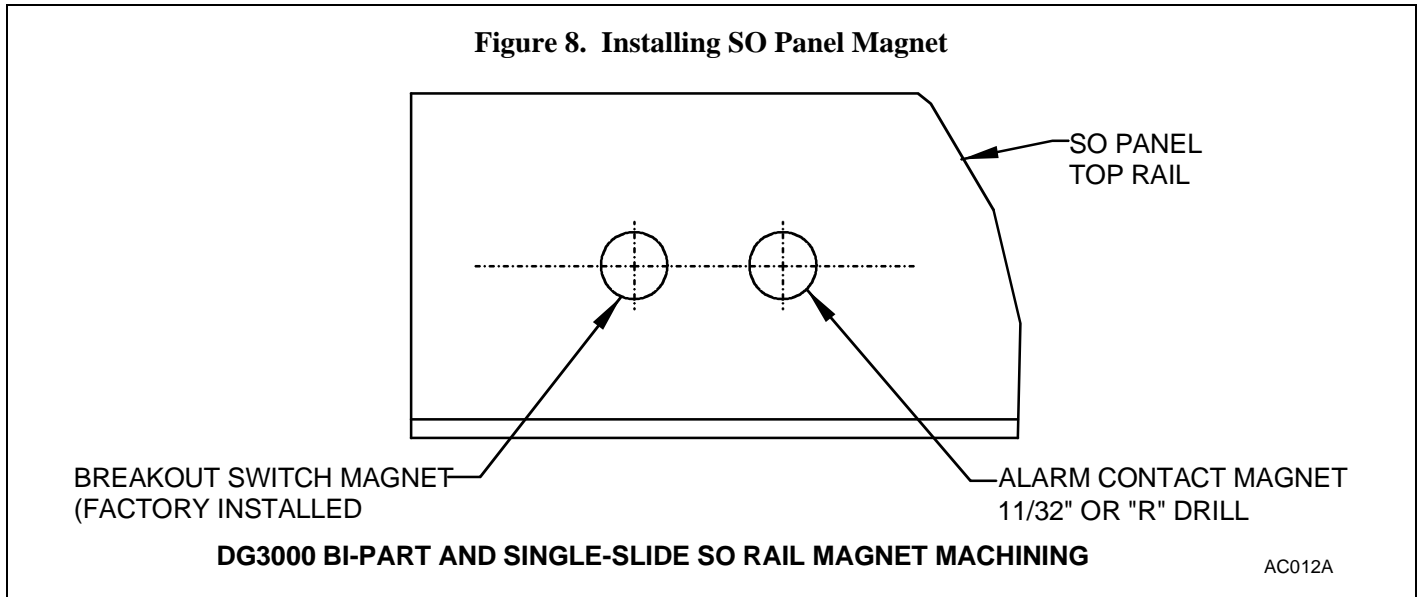
- 3.3.3 INSTALL the magnet (P/N 711463-A).
- 3.3.4 SLIDE the SX panel to the CLOSE position.
- 3.3.5 MARK the jamb corresponding to the position of the magnet.
- 3.3.6 DRILL a $\frac{3}{8}$ " hole into the jamb for the switch (P/N 711463-B), and ENSURE that the hole height is the same as the hole drilled in step 3.3.2.
- 3.3.7 TERMINATE the switch to the two-conductor cable and install the wire nuts.
- 3.3.8 ROUTE the two-conductor cable up the jamb tube and into the header.
- 3.3.9 INSERT the switch into the hole drilled in step 3.3.6, and PRESS into place.

3.4 Installing Alarm Contacts on Dura-Glide 3000 SO Bi-Part and Single-Slide Panels

- 3.4.1 DISCONNECT or DEENERGIZE electrical power to the door.
- 3.4.2 INSTALL the SO panel magnet as follows:

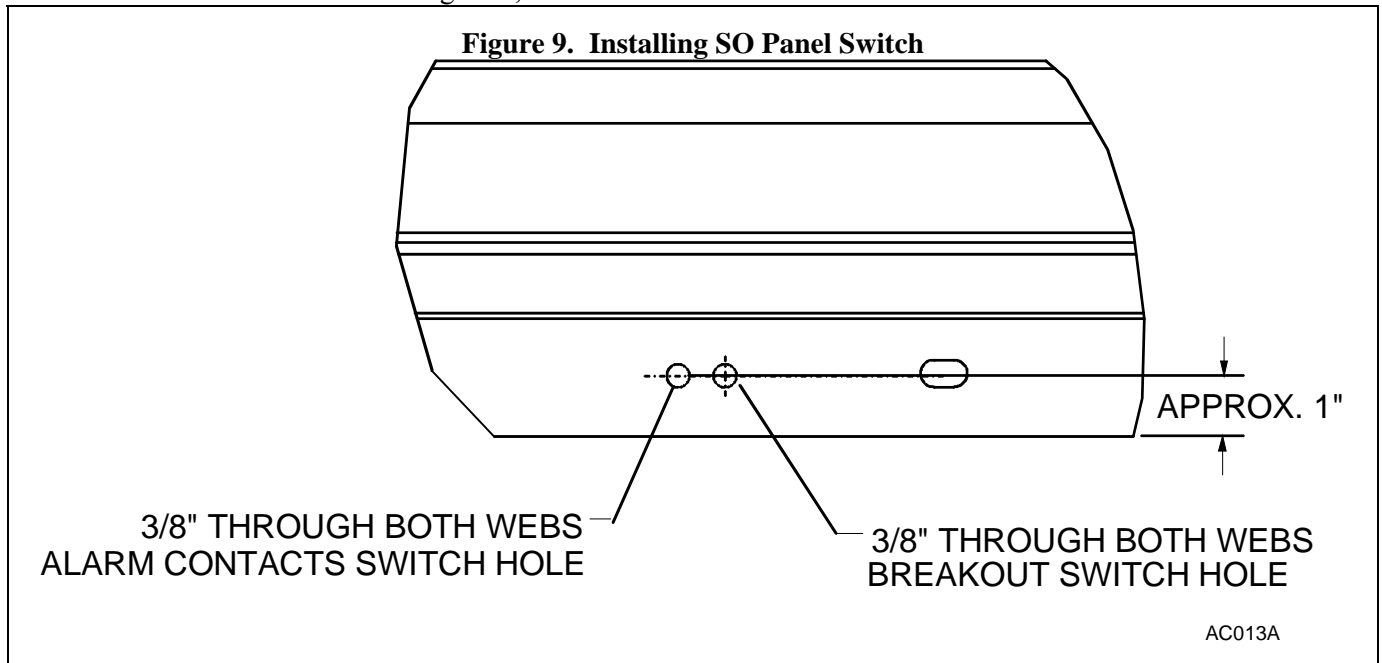
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- a. Refer to Figure 8, and MARK the location of the magnet mounting hole.



- b. POSITION the magnet (P/N 711463-A) next to the breakout switch magnet.
- c. Using a $1\frac{1}{32}$ " dia. or "R" dia. drill bit, DRILL the mounting hole.
- d. PRESS the magnet into the hole, and ENSURE the following:
- The magnet is just below the top of the SO panel.
 - The magnet is at the same height as the breakout switch magnet.
- 3.4.3 REPEAT step 3.4.2 for the opposite SO panel.

3.4.4 Refer to Figure 9, and INSTALL the switch onto the header as follows:

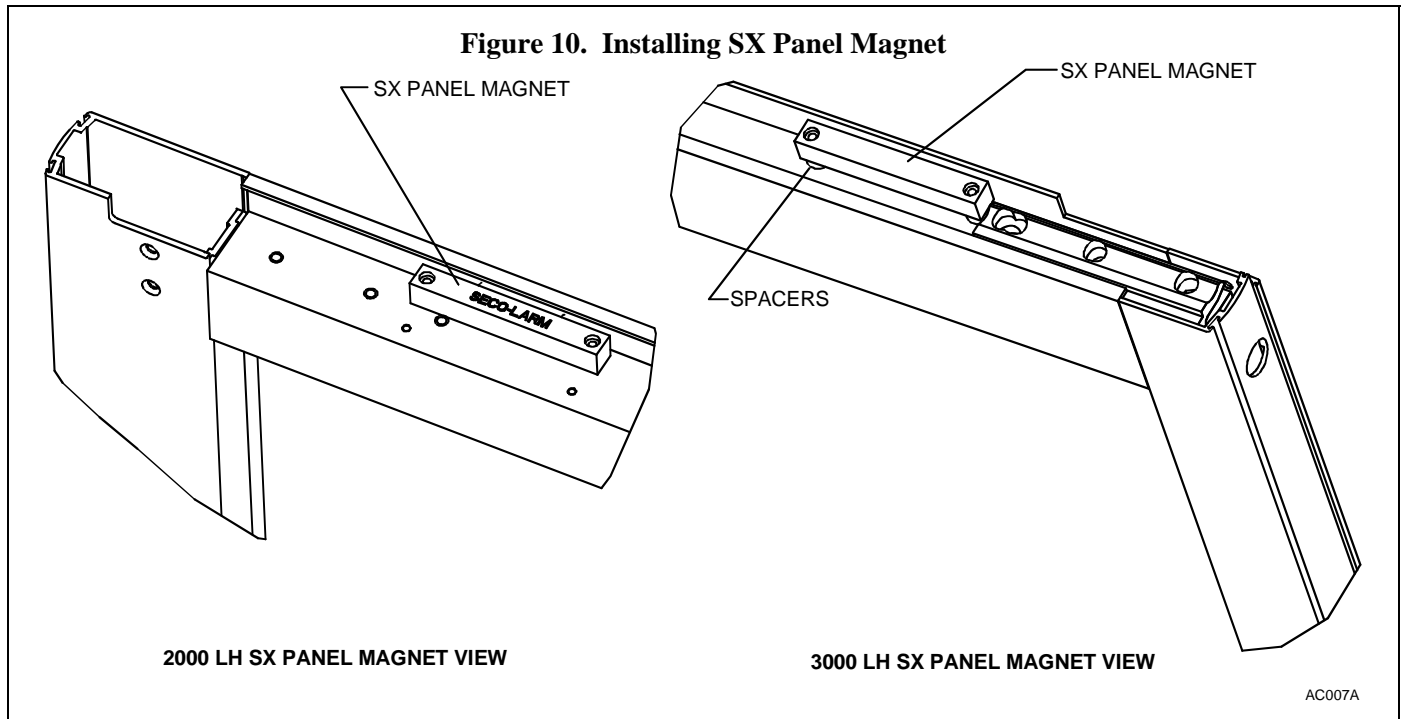


- a. MARK the outside of the SO panel top rail at the position where the magnet is located.
- b. CLOSE the SO panel.
- c. MARK the position on the header at the same location.
- d. EXAMINE the inside of the header, and ENSURE that no wires or equipment will be damaged by drilling the switch mounting hole.
- e. Using a $\frac{3}{8}$ " dia. drill bit, DRILL the switch mounting hole into the header.
- f. ROUTE the wires through both webs into the header.
- g. PRESS the switch into the hole.

3.4.5 REPEAT step 3.4.4 for the opposite SO panel.

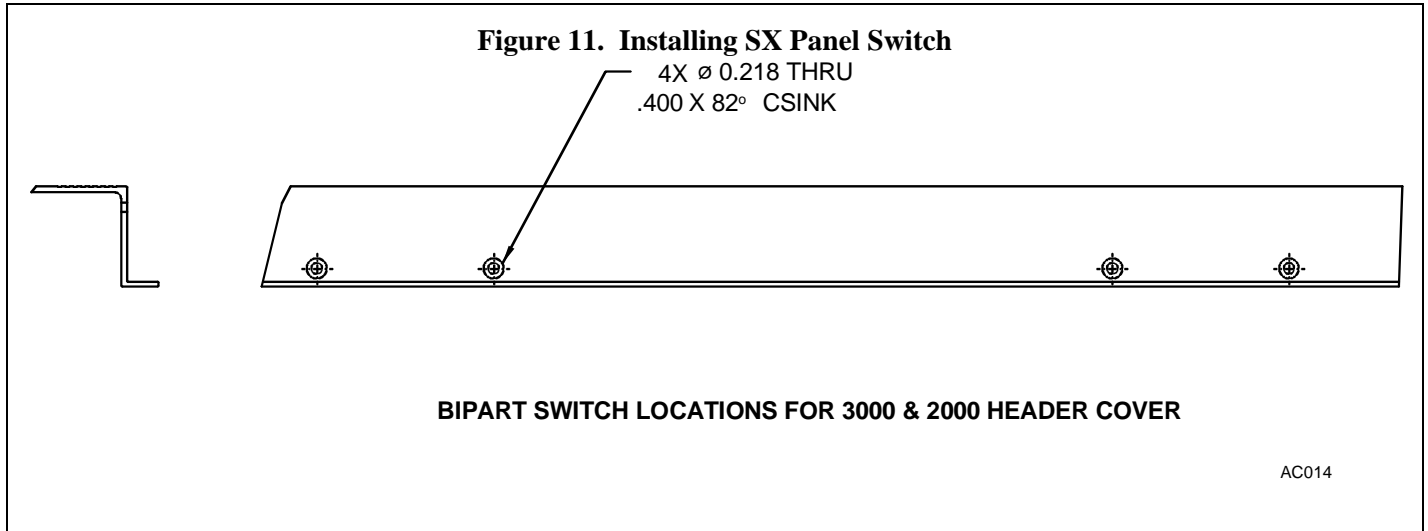
3.5 Installing Alarm Contacts on Dura-Glide 3000 SX Panels

- 3.5.1 DISCONNECT or DEENERGIZE electrical power to the door.
- 3.5.2 Refer to Figure 10, and INSTALL the SX panel magnet as follows:



- a. POSITION the magnet on the top rail next to the ball detent.
 - b. Using the magnet as a template, MARK the location of the magnet mounting holes on the top rail.
 - c. Using a #29 drill bit (0.136" dia.), DRILL both magnet mounting holes in the top rail.
 - d. POSITION the two nylon spacers ($\frac{1}{2}$ " dia. X 0.22" thick) from the hardware kit under the magnet.
 - e. Using two #8-18 x $1 \frac{1}{4}$ " pan-head self-tapping screws, ATTACH the magnet to the top rail.
 - f. MARK the location of the magnet on the inside face of the top rail.
 - g. Manually SLIDE the doors closed.
 - h. MARK the header cover where the switch assembly will be attached.
- 3.5.3 REPEAT step 3.5.2 for the opposite SX panel.

- 3.5.4 Refer to Figure 11, and INSTALL the switch onto the inside of the header cover as follows:



- a. MARK the position on the outside of the header cover based on the location of the SX top rail magnet.
- b. EXAMINE the inside of the header cover, and ENSURE that no wires or equipment will be damaged by drilling the switch mounting holes.
- c. Refer to Figure 11, and, using the switch assembly as a guide, MARK the location of the switch assembly holes on the header cover.
- d. Using a #15 drill bit (0.018" dia.), DRILL the two switch assembly mounting holes into the filler plate.
- e. Using an 82-degree countersink, COUNTERSINK the switch assembly mounting holes on the outside of the header cover.
- f. Using two #10-12 x 1" self-tapping flat-head screws, ATTACH the switch assembly to the inside of the header cover.
- g. ROUTE the wires through the inside of the header cover to the same end where the SO wiring is to be connected.
- h. Using cable- and wire-mounting devices, SECURE the cable to the header cover.

3.5.5 REPEAT step 3.5.4 for the opposite SX panel switch.

3.6 Wiring the Alarm Contacts

- 3.6.1 Refer to Attachment 3, and CONNECT alarm contact wiring.
- 3.6.2 ATTACH "Security System" label to the end of the tie-in cable.

3.7 Checking the Alarm Contacts

- 3.7.1 ENSURE all wires are secured and do not contact moving parts.
- 3.7.2 CONNECT or ENERGIZE electrical power to the door.

3.7.3 BREAK OUT the doors several times, and ENSURE the following features function properly:

- The alarm sounds.
- The door panel contact and switch assemblies have proper continuity.

3.7.4 If necessary, ADJUST the contact and switch assemblies for proper operation.

3.8 **Replacement Parts**

3.8.1 Refer to Attachment 2 for a listing of replacement parts.

Attachment 1
Documents, Definitions, Special Tools, Equipment, Materials, and Consumables
(Sheet 1 of 1)

Documents

- None

Definitions

- None

Special Tools and Equipment (including, but not limited to)

- | | |
|--------------------------|--------------------------|
| • Combination square | • Multimeter |
| • Countersink, 82-degree | • Screwdriver kit |
| • Electric drill | • Scribe or center punch |
| • Metal drill bit set | • Tape measure |

Materials (including, but not limited to)

- None

Consumables (including, but not limited to)

- | | |
|---------------------|-----------------|
| • Clean rags | • Glass cleaner |
| • Isopropyl alcohol | • Cable clamps |
| • Cable ties | |

Attachment 2
Replacement Parts
(Sheet 1 of 1)

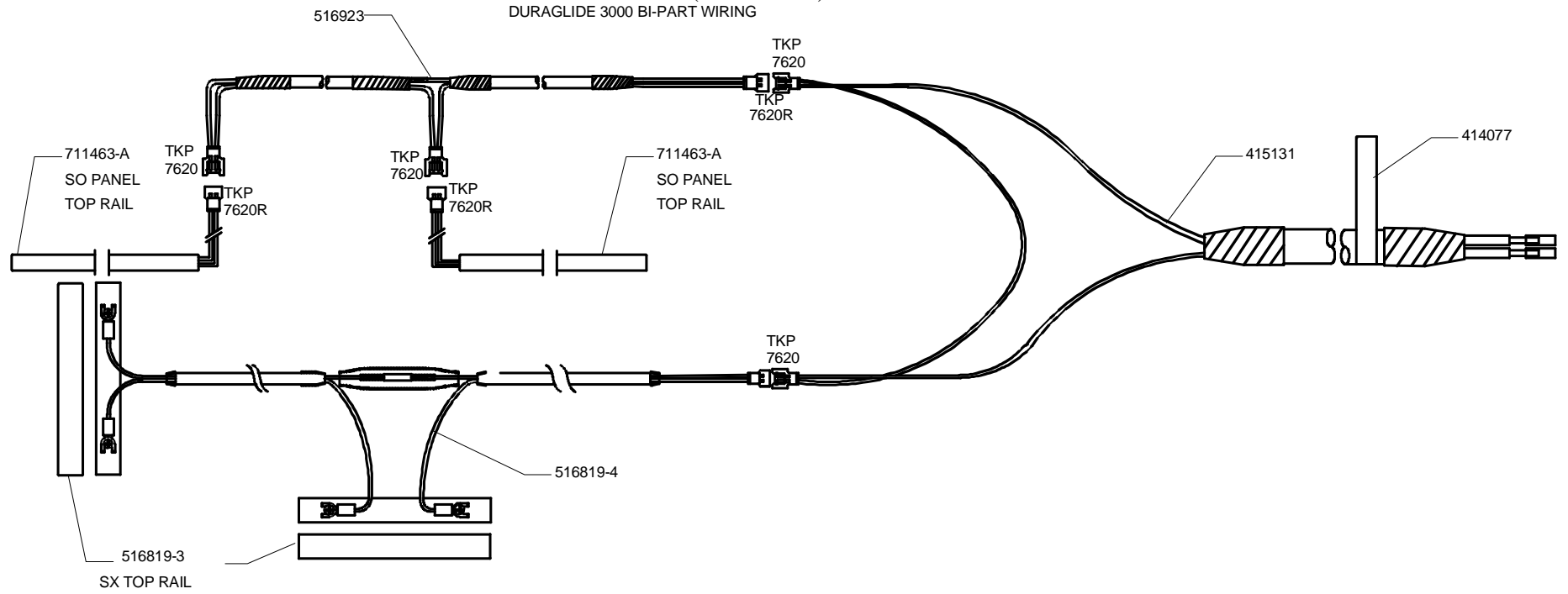
ALARM CONTACT KITS FOR RETROFIT APPLICATIONS:

APPLICATION	PART NO	DESCRIPTION
DG2000 SS & DG5200 SS	313946 (QTY 1 REQD)	KIT-SS ALARM CONTACTS
DG3000 SS	313946 (QTY 2 REQD)	KIT-SS ALARM CONTACTS
DG5300 SS	313946 (QTY 1 REQD) 313992 (QTY 1 REQD)	KIT-SS ALARM CONTACTS KIT-HARDWARE ALARM CONTACTS
DG2000BP & DG5200 BP	313992 (QTY 1 REQD)	KIT-HARDWARE ALARM CONTACTS
DG5300BP & DG3000 BP	313992 (QTY 1 REQD)	KIT-HARDWARE ALARM CONTACTS

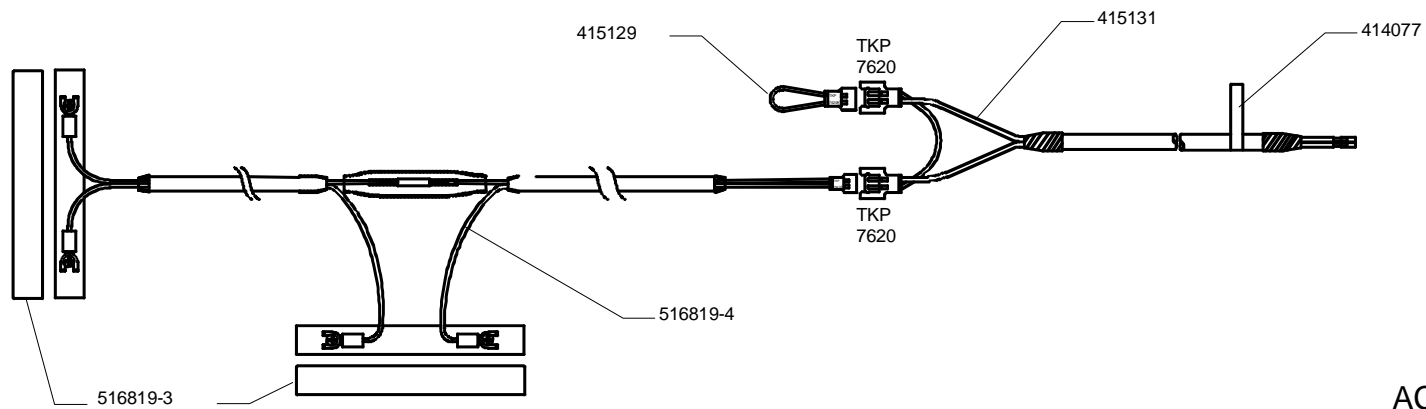
ALARM CONTACT REPLACEMENT PARTS:

Item No.	Part No.	Description	Applicability
1	516819-4	SWITCH ASSEMBLY	DG2000, DG3000, DG5200, DG5300 BP
2	516819-3	MAGNET	
3	714083-1	MAGNET W/ SCREWS	DG 5300 SS & BP
4	714083-2	CONTACT W/ SCREWS	
5	711463-A	MAGNET-BREAKOUT SWITCH	DG2000, DG3000, DG5200, DG5300 SS
6	711463-B	SWITCH-MAGNETIC	

Attachment 3 Alarm Contact Wiring Diagram (Sheet 1 of 3)

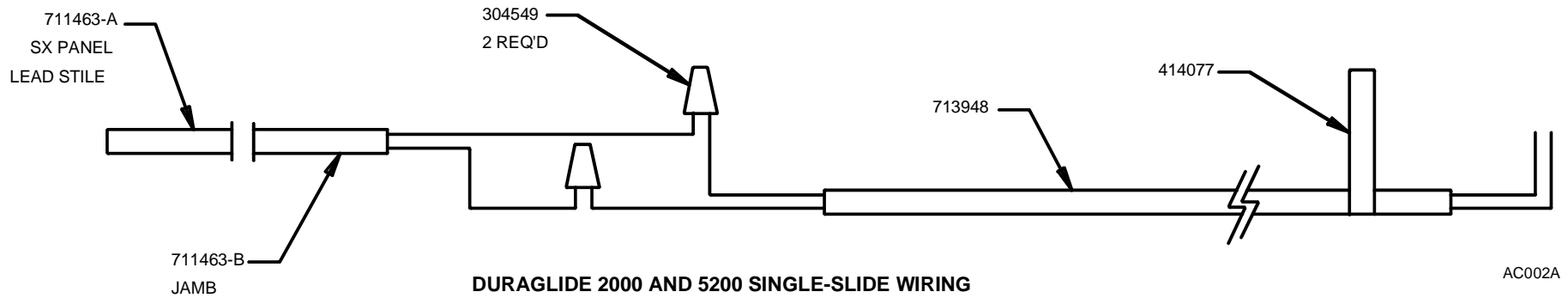
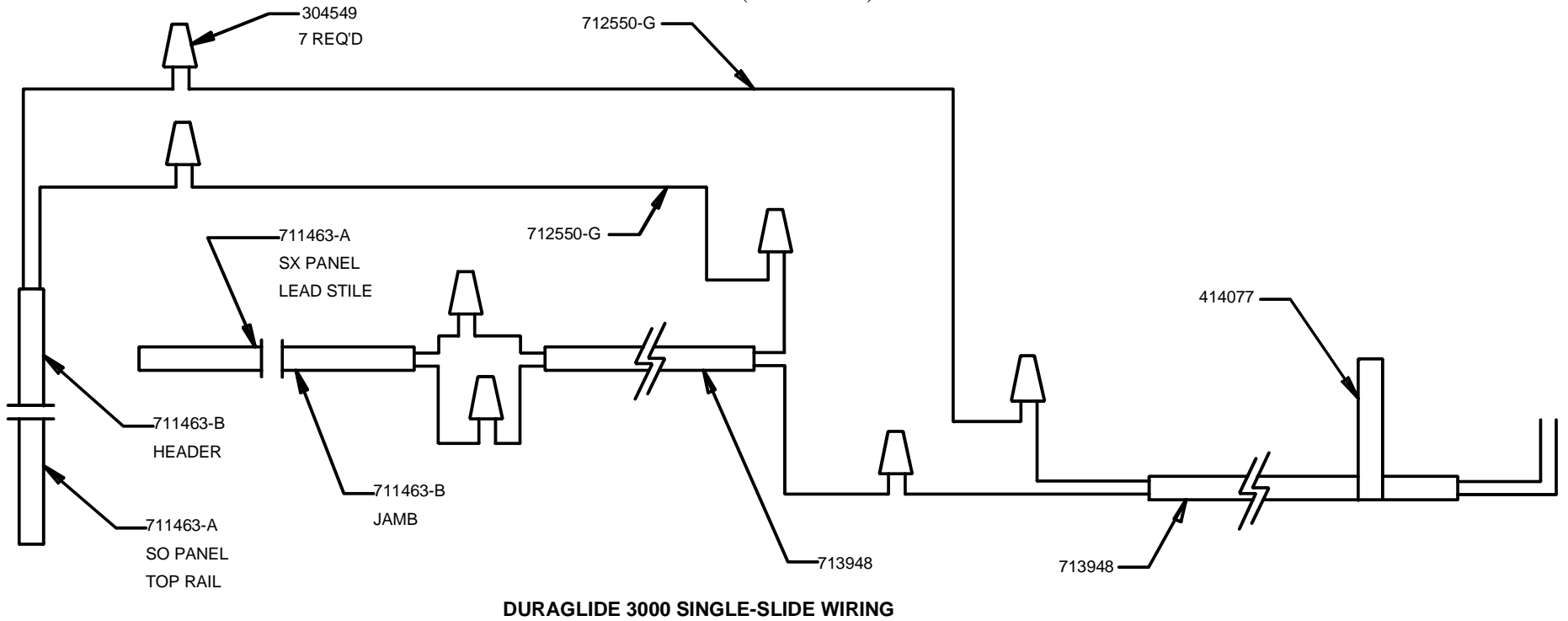


DURAGLIDE 2000 AND 5200 BI-PART WIRING



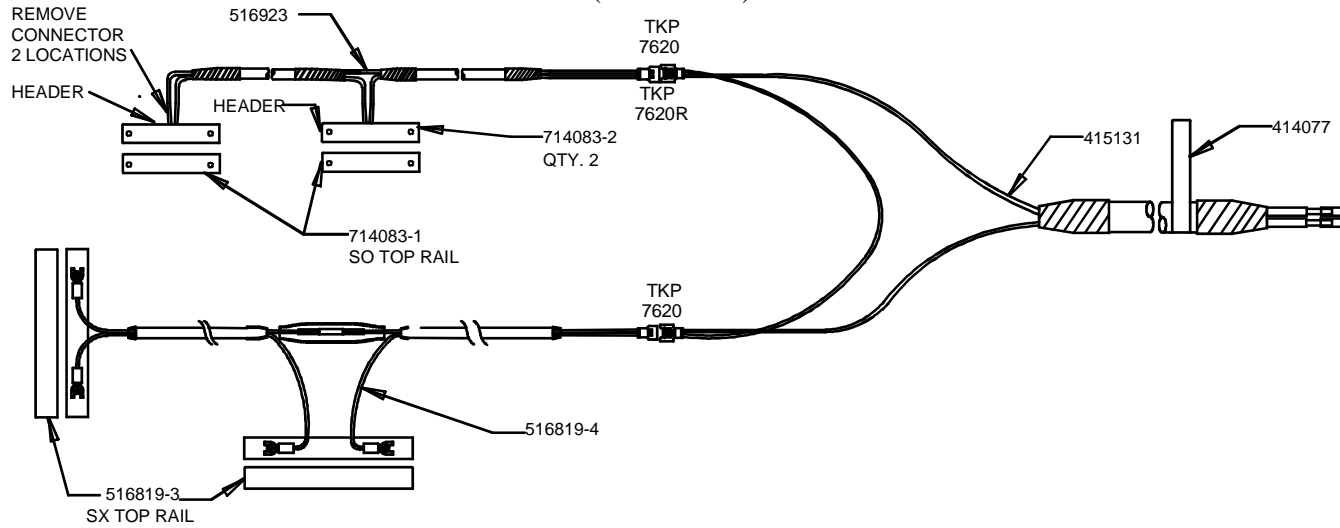
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Attachment 3
Alarm Contact Wiring Diagram
 (Sheet 2 of 3)

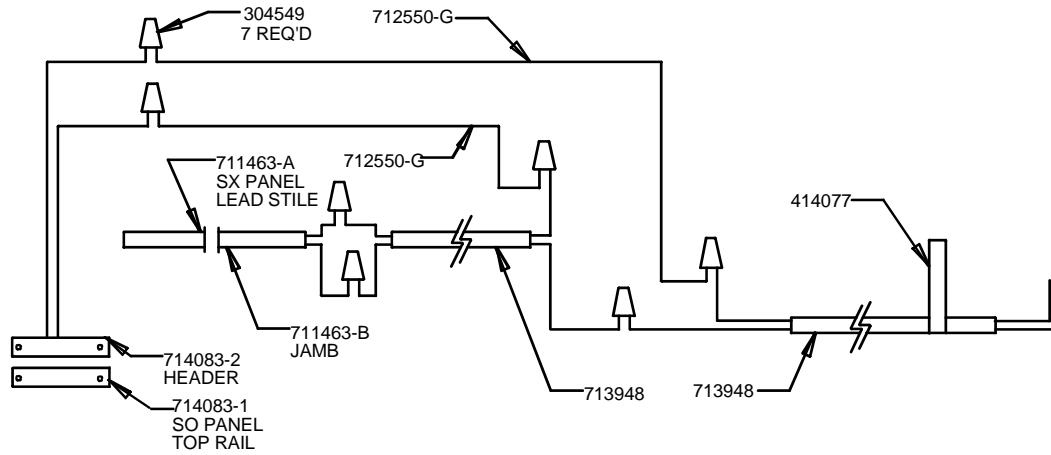


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Attachment 3
Alarm Contact Wiring Diagram
 (Sheet 3 of 3)



DURAGLIDE 5300 BP WIRING



DURAGLIDE 5300 SS WIRING

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