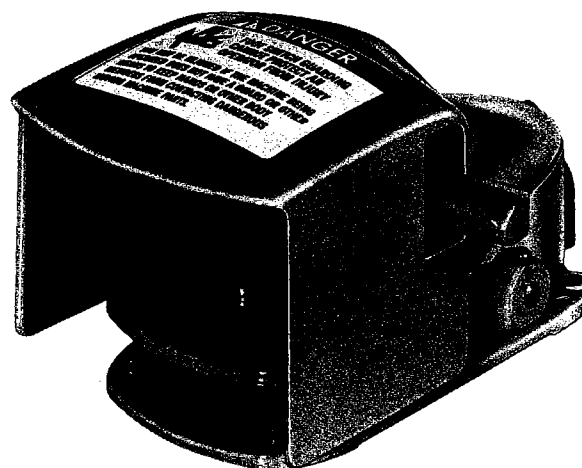
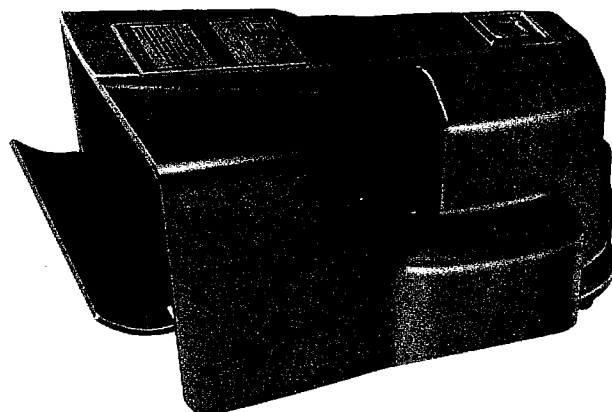




CLASS 9002 TYPE AW FOOT SWITCH SERIES C

WARNING: Do not use a foot switch on machinery lacking effective point-of-operation guarding. Lack of effective point-of-operation guarding on a machine can result in serious injury to the operator of that machine.



INSTALLATION PROCEDURE

Remove the cover exposing the contact module. Use the ground screw provided to ground the enclosure of the foot switch. Be certain the conduit entry is sealed tightly to prevent foreign materials from entering the switch. Replace the cover and tighten the cover screws to assure a tight seal. To permanently mount the foot switch, remove the rubber feet and use the holes for mounting. The foot switch has been factory adjusted. If adjustment ever becomes necessary, follow the appropriate procedure below.

CONTACT MODULE REPLACEMENT

A snap switch or contact block serves as the basic contact module and must be replaced as a complete unit. For Type AW124 contact module replacement, see Figure 1, page 4. Replacement of contact module should not make it necessary to readjust the foot switch. If adjustment becomes necessary, follow the appropriate procedure below.

Caution: Disconnect power before performing any work on the device.

ADJUSTMENT PROCEDURE

If adjustment becomes necessary, determine the type of switch to be adjusted, and follow the appropriate procedure. A $\frac{5}{64}$ " Allen wrench is needed for most adjustments.

Caution: Adjusting screws must not be turned in too far or actuator block breakage may occur.

For Types AW-1, 2, 13, 14, 17, 18

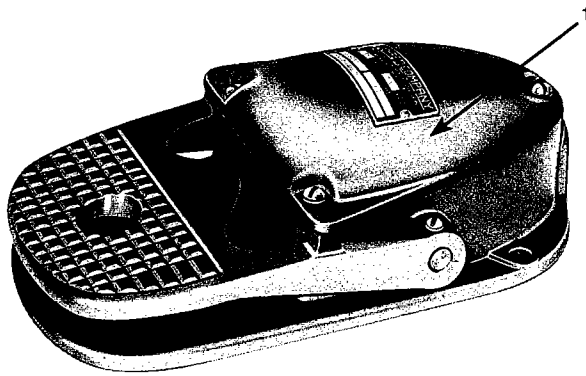
1. With the foot pedal toward you, remove the end and left hand cover screws. Loosen the right hand cover screw and swing the cover counter-clockwise almost 180°, and RETIGHTEN the screw. This will make the snap switch adjustment accessible, and the cover will provide the necessary stop for the pedal in its upper position.

2. Depress pedal fully. If switch trips, release pedal, and turn adjusting screw IN until switch DOES NOT trip when pedal is again depressed.
3. With pedal fully depressed, slowly back out adjusting screw until switch just trips. Back out screw $\frac{1}{4}$ turn more.
4. Check overtravel at each end of stroke by depressing pedal SLOWLY. Overtravel at each end of the stroke should be equal, approximately $\frac{3}{16}$ inch.

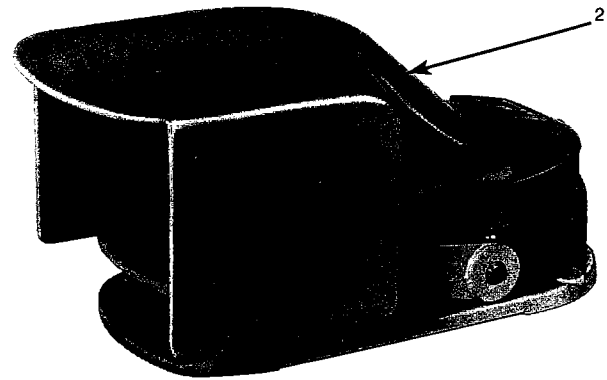
For Types AW-5, 6, 19

1. With the foot pedal toward you, remove the end and left hand cover screws. Loosen the right hand cover screw and swing the cover counter-clockwise almost 180°, and RETIGHTEN the screw. This will make the snap switch adjustment accessible, and the cover will provide the necessary stop for the pedal in its upper position.
2. Depress pedal fully. If either or both switches trip, release pedal and turn adjusting screws IN until neither switch trips when pedal is again depressed.
3. With pedal in UP position, back out adjusting screw for switch NEAREST pedal until switch JUST resets. Then back out screw $\frac{1}{4}$ turn more.
4. Depress pedal to low point of FIRST stage (midpoint in pedal travel before additional spring pressure is encountered) and note whether switch trips with sufficient overtravel. Overtravel at each end of first stage should be equal, (approximately $\frac{3}{16}$ inch). Readjust if necessary.
5. Depress pedal fully to low point of SECOND STAGE. Back out adjusting screw for switch FARTHEST from pedal until switch JUST trips. Then back out adjusting screw $\frac{1}{4}$ turn more.
6. Release pedal SLOWLY to make sure second stage switch resets well ahead of first stage switch.

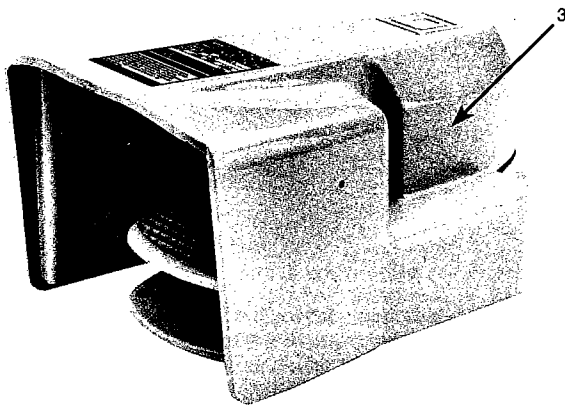
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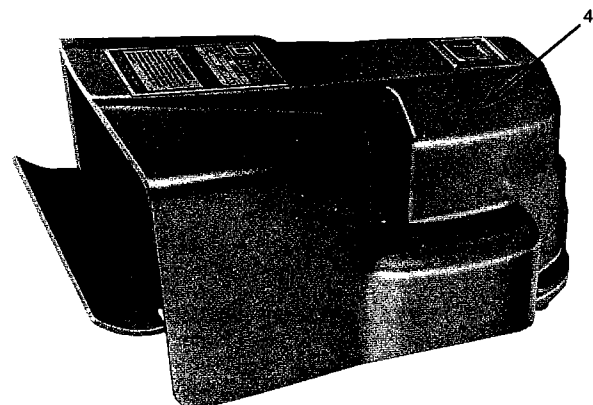
Without Pedal Guard



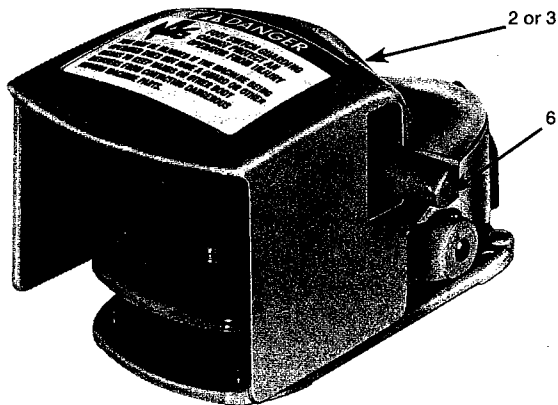
Pedal Guard With Side Shields



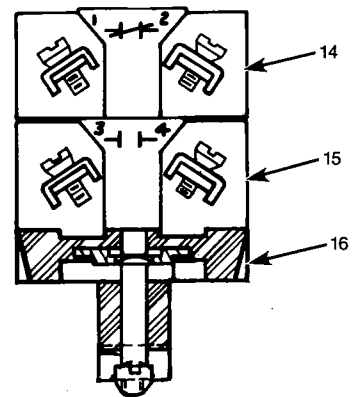
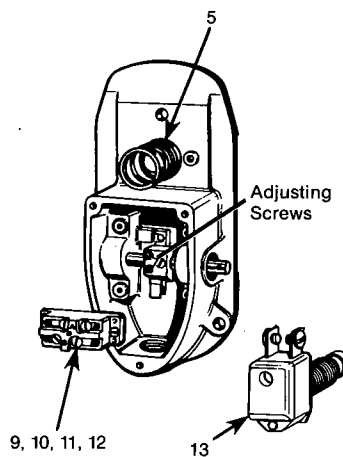
Full Guard Type Without Safety Door



Full Guard Type With Safety Door



Guard Type With Latch



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REPLACEMENT PARTS LIST

ORDERING INSTRUCTIONS: Specify quantity, part number and description of part, giving complete nameplate data of the device.

Item	Description	Part Number	Quantity	Used on Class 9002 Type
1	Cover Assembly without Pedal Guard	Class 9002 Type AC1	1	AW-1, 5, 11, 13, 21
2	Cover Assembly (Pedal Guard with Side Shields)	Class 9002 Type AC8	1	AW-2, 6, 12, 14, 17, 18, 19, 20, 22, 23
3	Cover Assembly (Oversize Pedal Guard and Side Shields)	Class 9002 Type AC7	1	AW-132, 133
4	Cover Assembly (Full Guard with Safety Door)	Class 9002 Type AC5	1	AW-117, 118, 119, 123, 124, 300, 301
—	Cover Assembly (Guard Type with Side Shields — Drilled to Accept Latch)	Class 9002 Type AC9	1	AW-7, 9, 10, 15 Series C*
5	Pedal Return Spring	2502-X5 2502-D8X1	1	All Switches
—	Pedal Return Spring Cup	2502-D16-X1	1	All Switches
6	Latch Lever	2502-B28-X1	1	AW-7, 9, 10, 15
7	Latch Block	2502-X10	1	AW-7, 9, 15
8	Latch Block	2502-X13	1	AW-10
9	Contact Module	Class 9007 Type A02	1 2	AW-1, 2, 7, 17, 32, 117, 132 AW-5, 6, 9, 10, 19, 119
10	Contact Module	Class 9007 Type C03	1	AW-13, 14, 15, 18, 33, 133
11	Contact Module	Class 9007 Type C03S6	2	AW-118
12	Contact Module	Class 9007 Type C07	2	AW-21, 22, 23, 123
13	Contact Module	26202-02030	1	AW-11, 12, 20
14	Contact Module	Class 9001 Type KA-5	2	AW-124
15	Contact Module	Class 9001 Type KA-2	2	AW-124
16	Mounting Block	2502-D21-G1	1	AW-124
—	Cover Gasket	2502-D1-X4	1	All Switches

*For Series A or B devices, order Class 9002 Type AC9 and a new latch lever (part number 2502-B28-X1).

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CONTINUED FROM PAGE 1

For Types AW-7, 15

1. Follow the same procedure as for Types AW-1, 2, 13, 14, 17, 18.
2. Loosen the latch pedal lock nut and adjust the eccentric screw so that the latch engages the pedal just when the switch trips. The snap switch must not reset until the latch is released.
3. Retighten the lock nut.

For Type AW-9

1. Follow the same procedure as for Types AW-5, 6, 19.
2. Loosen the latch pedal lock nut and adjust the eccentric screw so that the latch engages the pedal just when the FIRST stage switch trips. The snap switch must not reset until the latch is released.
3. Retighten the lock nut.

For Type AW-10

1. Follow the same procedure as for Type AW-9, except adjust the latch to engage just when the SECOND stage switch trips.

For Types AW-11, 12, 20

1. With the foot pedal toward you, remove the end and left hand cover screws. Loosen the right hand cover screw and swing the cover counter-clockwise almost 180°, and RETIGHTEN the screw. This will make the snap switch adjustment accessible, and the cover will provide the necessary stop for the pedal in its upper position.
2. With the snap switch out of the foot switch, thread one of the two hex lock nuts onto the threaded switch stem $\frac{5}{16}$ ". Install the snap switch on the "U" shaped bracket with the second hex lock nut and lock washer. Do not tighten the lock nuts. Install the "U" shaped bracket with the snap switch mounted on it into the foot switch housing. Use the threaded bosses nearest the conduit entry, positioning the terminals of the snap switch toward the pedal.
3. Depress the pedal noting the trip and reset points. Adjust the snap switch up or down by relocating the hex nuts along the threaded stem so that the switch does not trip before $\frac{5}{16}$ inch of the final pedal travel.
4. Lock the position of the snap switch by tightening the hex nuts against the "U" shaped bracket.

For Types AW-21, 22, 23

1. With the foot pedal toward you, remove the end and left hand cover screws. Loosen the right hand cover screw and swing the cover counter-clockwise almost 180°, and RETIGHTEN the screw. This will make the snap switch adjustment accessible, and the cover will provide the necessary stop for the pedal in its upper position.
2. Depress pedal fully. If switches trip, release pedal, turn the adjusting screw nearest the conduit entry IN and the adjusting screw nearest the pedal OUT until the switches DO NOT trip when the pedal is again depressed.
3. Back out the adjusting screw of the switch nearest the conduit entry until the switch trips when the pedal is depressed approximately $\frac{3}{16}$ inch. This will adjust the first two stages.
4. Turn in the adjusting screw of the switch nearest the pedal until the switch trips when the pedal is depressed approximately $\frac{1}{2}$ inch. This will adjust the third and fourth stages.
5. Check the adjustment to verify that the pedal pretravel and overtravel is about the same and that the pedal travel distance between stages is approximately the same.

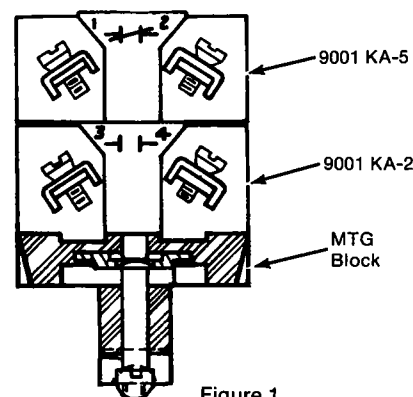


Figure 1

For Types AW-32, 33

Remove the cover assembly. Follow the same procedure as for Types AW-1, 2, 13, 14, 17, 18, omitting Step 1.

For Types AW-132, 133

Remove the cover assembly. Follow the same procedure as for Types AW-1, 2, 13, 14, 17, 18, omitting Step 1.

For Type AW-117

Remove the cover assembly. Follow the same procedure as for Types AW-1, 2, 13, 14, 17, 18, omitting Step 1.

For Type AW-118

Remove the cover assembly. Follow the same procedure as for Types AW-1, 2, 13, 14, 17, 18, omitting Step 1. Adjust both switches so that they trip simultaneously.

For Type AW-119

Remove the cover assembly. Follow the same procedure as for Types AW-5, 6, 19, omitting Step 1.

For Type AW-123

Remove the cover assembly. Follow the same procedure as for Types AW-21, 22, 23, omitting Step 1.

For Type AW-124

1. Remove the cover exposing the contact blocks.
2. To insure the correct contact sequence, the Class 9001 Type KA-5 block(s) (Labeled $\frac{1}{2}$ $\frac{3}{4}$) MUST be mounted on top of the Class 9001 Type KA-2 block(s) (Labeled $\frac{1}{2}$ $\frac{1}{4}$). Reference Figure 1. DO NOT INSTALL BLOCKS IN THE REVERSE SEQUENCE.
3. Wire test lights across the (2) KA-2 blocks on bottom.
4. Depress and hold the pedal fully down. If both KA-2 blocks are not closed (lights on), then turn the $\frac{5}{16}$ " allen head adjusting screw OUT until BOTH blocks are closed.
5. Continuing to hold the pedal fully down, turn the adjusting screw IN until either KA-2 block JUST opens (light goes off), then turn the adjusting screw OUT $\frac{1}{8}$ " turn.
6. Release the pedal.
7. Depress the pedal slowly while observing the test lights and the pedal movement. There should be approximately $\frac{1}{8}$ inch pedal remaining (overtravel) after both KA-2 blocks have closed (lights go on).
8. Wire test lights across the (2) KA-5 blocks on top and verify the correct contact sequence: The normally closed contacts of both the KA-5 blocks must open before the normally open contacts of either of the KA-2 blocks close.

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