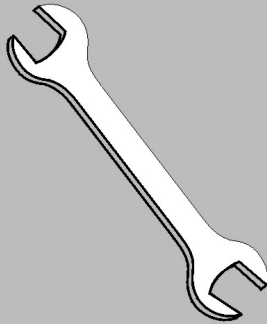


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Kit Instruction— K33 0006



Please Read

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References to Yellow Troubleshooting Pages

This manual may contain references to "yellow pages." Although the pages containing troubleshooting procedures are no longer printed on yellow paper, troubleshooting instructions, if any, will be contained in the easily located "Troubleshooting" chapter or section. See the table of contents.

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INSTALLATION INSTRUCTIONS FOR SAFETY MODKIT K33-0006 AND K33-0006A

The purpose of this MODKIT is to cause the cylinder to stop abruptly whenever the door is opened, regardless of the position of the Master Switch. At present, when the Master Switch is left in the manual or formula position, and the door is opened, both clutches will engage, thus causing a braking effect to bring the cylinder to an abrupt stop. However, if by some chance the Master Switch is moved to the OFF position, prior to opening the door, the cylinder will not stop abruptly, thus defeating the safety feature of the machine. Of course, this is not the proper way to operate the machine. The MODKIT will prevent a safety hazard from existing even if the machine should be operated in this improper manner.

Proceed as follows:

STEP #1

Check out the machine to be sure that the machine is in proper operating order before you attempt to install the MODKIT. Place the machine in drain speed with the drain valve open and no water in the machine. Open the door to see, if in fact, the door interlock switch is properly adjusted to cause the cylinder to come to an abrupt stop. If this does not happen, adjust the switch by moving it closer to the door hinge pin so that it will stop the cylinder if the door is opened while the machine is in operation.

STEP #2

Once you have established that the machine operates properly, TURN OFF the main wall disconnect switch to kill all electrical power going to the machine. After doing this, check the machine to be sure that it cannot be operated--thus verifying that you have disconnected the proper electrical switch.

STEP #3

Remove the top from the rear console and also the rear belt guard and MILTRON Box cover plate. There are four screws holding the top on, which are accessible once

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you remove the nickle plated knock-out plugs in each of the four corners on the top. You can then use a thin wall 9/16" socket wrench to reach down in these holes in order to loosen all four screws. You need not pull out the screws--only loosen them enough to allow the top to be lifted from the machine. You can use the same socket to remove four of the six screws holding the rear belt guard on the machine. It will be necessary to use an open end 9/16" wrench to remove the middle and lower left hand screws (when facing the rear of the machine) since there is not enough clearance between the fill hose and beltguard to allow you to slip a socket wrench over the screws.

You are now ready to proceed with the actual installation of the MODKIT.

STEP #4

1. MODKIT Mounting and Cable Routing (see Photo No. 1). The MODKIT will mount (using existing screws) on the TOP-REAR of the CONTROL CHASSIS in the following manner.

A. Loosen the two rear screws and one side screw enough so that the

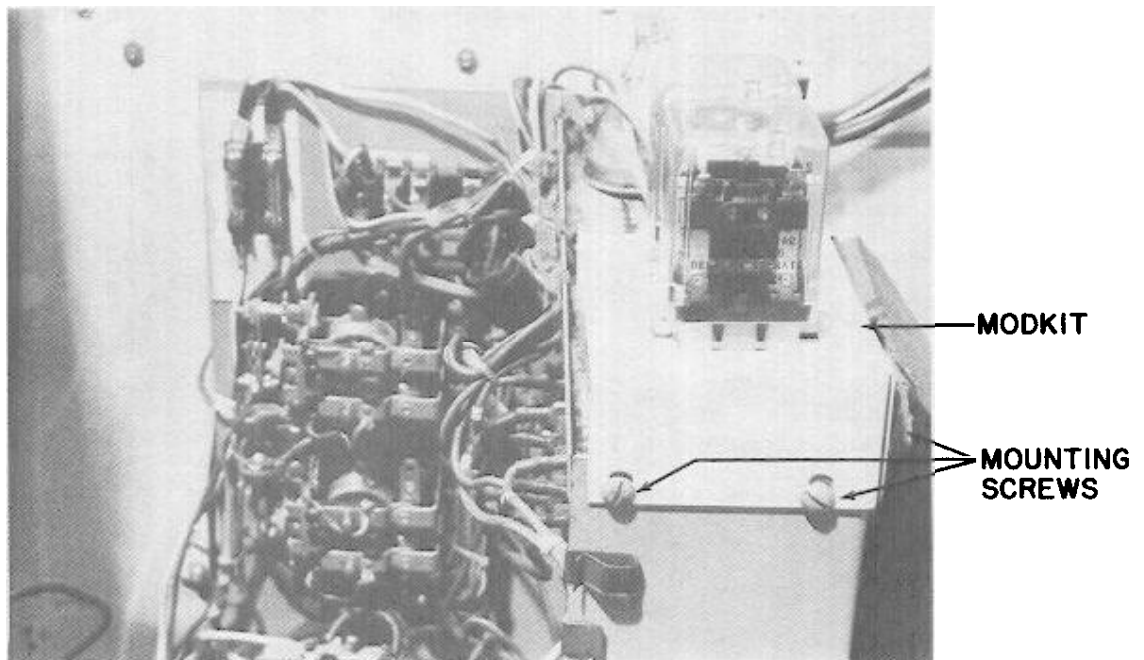


PHOTO NO. 1

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MODKIT will slide down until the screws engage in the MODKIT slots.
Tighten the three screws so that the MODKIT is held securely in place.

- B. Lay the MODKIT cable out along the top of the CONTROL CHASSIS. At the point where the cable divides into two parts route the part with three wires to the right, and up into the MILTROL box (following the route of the existing cable). Now, route the other part (five wires) of the MODKIT cable to the left and down around the front panel of the CONTROL CHASSIS. Bring the wire ends on toward the rear of the CONTROL CHASSIS for future connections.

This completes MODKIT Mounting and Cable Routing.

STEP #5

1. MILTROL Box Connections (see Photo No. 2). There are now three wires coming from the MODKIT entering the MILTROL Box. These wires are to be connected in the following manner.

CAUTION

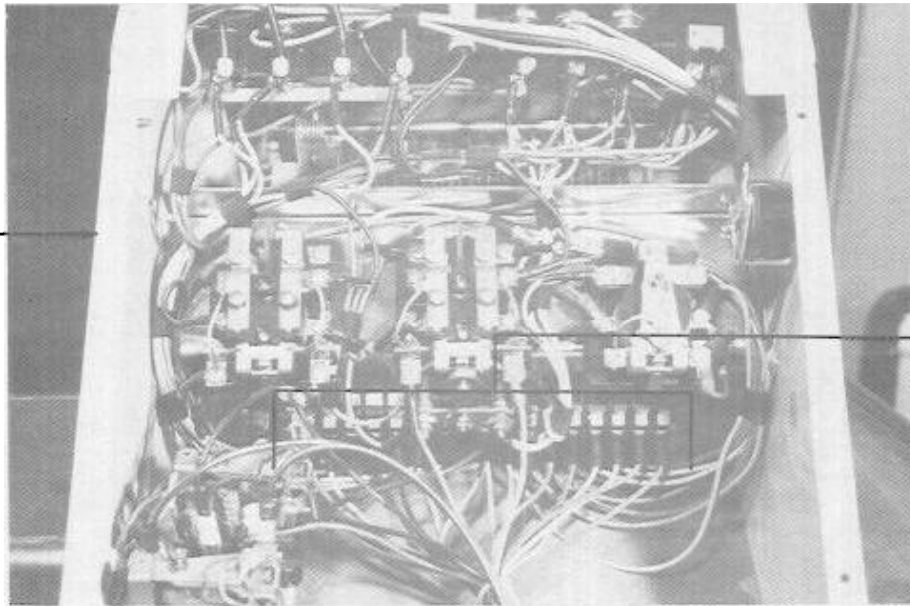
If it is necessary to disconnect additional wires during installation of MODKIT, be sure all such wires are reconnected securely and correctly prior to operation of machine.

- A. Connect the RED wire marked 2A to Terminal 2 on the MILTROL Terminal Strip (terminal 2 is the 2nd terminal from the RIGHT when standing behind the machine). See Photo No. 2.
- B. Connect the BROWN wire marked 51C to terminal 51C on the MILTROL Terminal Strip (terminal 51C is the 5th terminal from the RIGHT when standing behind the machine). See Photo No. 2.
- C. Connect the RED wire marked 49 to terminal 49C on the MILTROL Terminal Strip (terminal 49C is the 1st terminal on the RIGHT when standing behind the machine). See Photo No. 2.

You have now completed all wiring necessary in the MILTROL Box.

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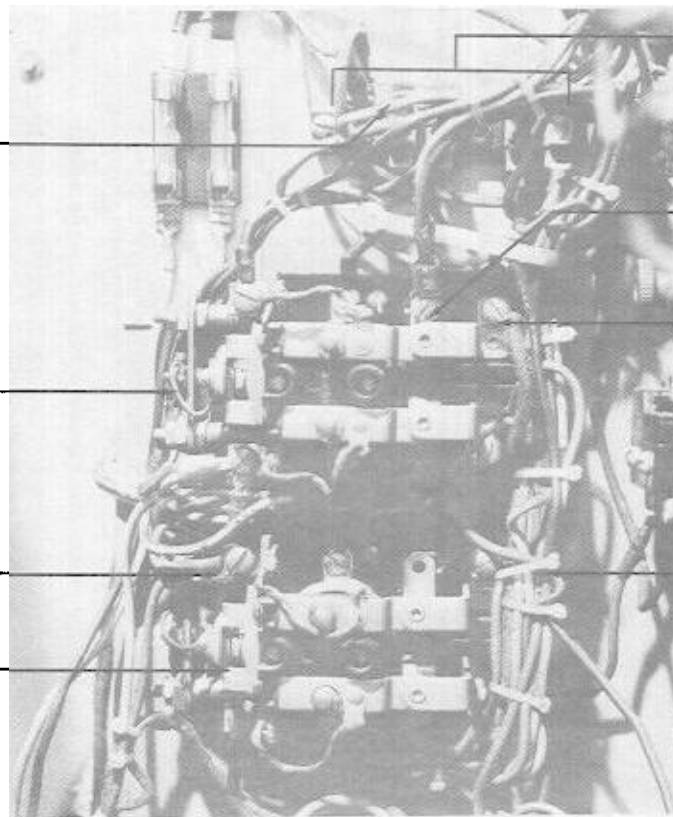
MILTROL
BOX



MILTROL
TERMINAL
STRIP

PHOTO NO. 2

TERMINAL NO. 1



SMALL
TERMINAL
STRIP

NORMALLY
OPEN
TERMINAL

NORMALLY
CLOSED
TERMINAL

EXTRACT
RELAY

COMMON
TERMINAL

DISTRIBUTION
RELAY

RIGHT SIDE
CABLE
HARNESS

PHOTO NO. 3

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STEP #6

1. CONTROL CHASSIS Connections. There are now five wires coming from the MODKIT lying loose in the CONTROL CHASSIS. These wires are to be connected in the following manner.
 - A. See Photo No. 3. Observe the EXTRACT RELAY and locate the Normally Open Terminal indicated in photo. There are presently two wires connected to this terminal. One is BLACK and one is ORANGE. Remove the ORANGE wire and connect it to ORANGE wire 2X50 coming from the MODKIT. (Use plastic splice connector provided with the kit to make this connection.) Now connect the ORANGE 50A coming from the MODKIT to the normally open terminal.
 - B. See Photo No. 3. Locate Normally Closed Terminal on the EXTRACT RELAY. Connect the BLACK wire marked 203 coming from the MODKIT to this terminal.
 - C. See Photo No. 3. Observe the small terminal strip on the front panel of the control chassis. Connect the BLACK wire marked 1 coming from the MODKIT to terminal 1 on this strip. (Terminal 1 is the second terminal on your LEFT as you view the terminal board from the rear of the machine.)
 - D. See Photo No. 3. Observe the small terminal board. Terminal 51D is the 1st terminal on your RIGHT. There are presently several wires connected to this terminal. One of these wires (should be the bottom wire) enters the RIGHT side harness and runs down and out forward through a cable hole in the bottom front of the control chassis. (It may be necessary for you to cut the wire ties holding this harness in order to trace this wire.) After you have traced out the proper wire remove it from 51D on the small terminal board and connect it to 2X51D coming from the MODKIT. (Use the plastic splice connector provided with the kit to make this connection.)
 - E. See Photo No. 3. Observe the distribution relay and locate the common terminal indicated in the photo. There are three wires presently

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