



INSTALLATION INSTRUCTIONS

PART NUMBER	154-8872 & 154-8873
PART DESCRIPTION	KUSTODIAN MODEL B RELAY UPGRADE
REV DATE	08/22/2002
MACHINE MODELS	KUSTODIAN MODEL B



Should only be performed by a Kegel Certified Level 1 technician

TOOLS NEEDED:

Phillip Screwdriver
Crimping tool

3/8 wrench
Wire cutters

Flathead Screwdriver
Wire Strippers

Please thoroughly read through the instructions prior to performing the installation of this assembly. To avoid any potential problems, if at any time during the process you may have a question, stop and contact our Tech Support department at 1-800-280-2695



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1. Remove power from the machine. Lay machine down in the operating position
2. Remove PC relay plate from machine by removing the four phillips screws (1 in each corner of plate). Unplug the plate from the machine's wire harness, be careful not to damage any wires. Set plate on work bench.
3. Lift relays off din-rail by using a flat head screwdriver, lightly pry on the orange tab on the front of each relay, this will pop the relay off the din rail. Gently position the relays out of the way so you can remove the screws holding the din-rail to the PC plate. Use a Phillips screwdriver and a 3/8 wrench to remove the din rail. Retain fasteners for installation of new din rail. Discard old din rail.
4. Now take new din rail (new relays already attached) and screw to the PC plate in the same location as the old rail. Snap old relays on to the open area of the new din rail.
5. Looking at the relays, along the top there are two NEW Blue/Yellow wires, one is stripped and the other has a fork terminal. Remove the OLD Blue/Yellow wire from the LY4 relay # 5. Screw in the NEW Blue/Yellow wire with the fork on it. Cut the fork off the OLD wire you just removed and strip back about 1/2" and twist with the other NEW Blue/Yellow wire (without fork terminal) and wire joint them together.
6. On the Output side of the PC remove the Gray wire from CH10-03 and the Yellow/Red wire from CH10-04. Cut the wire ties holding the wires to the harness and run the wires to the back side of the new relays, screw the Yellow/Red wire to the first new relay #4. Then screw the Gray wire to the second new relay #4.



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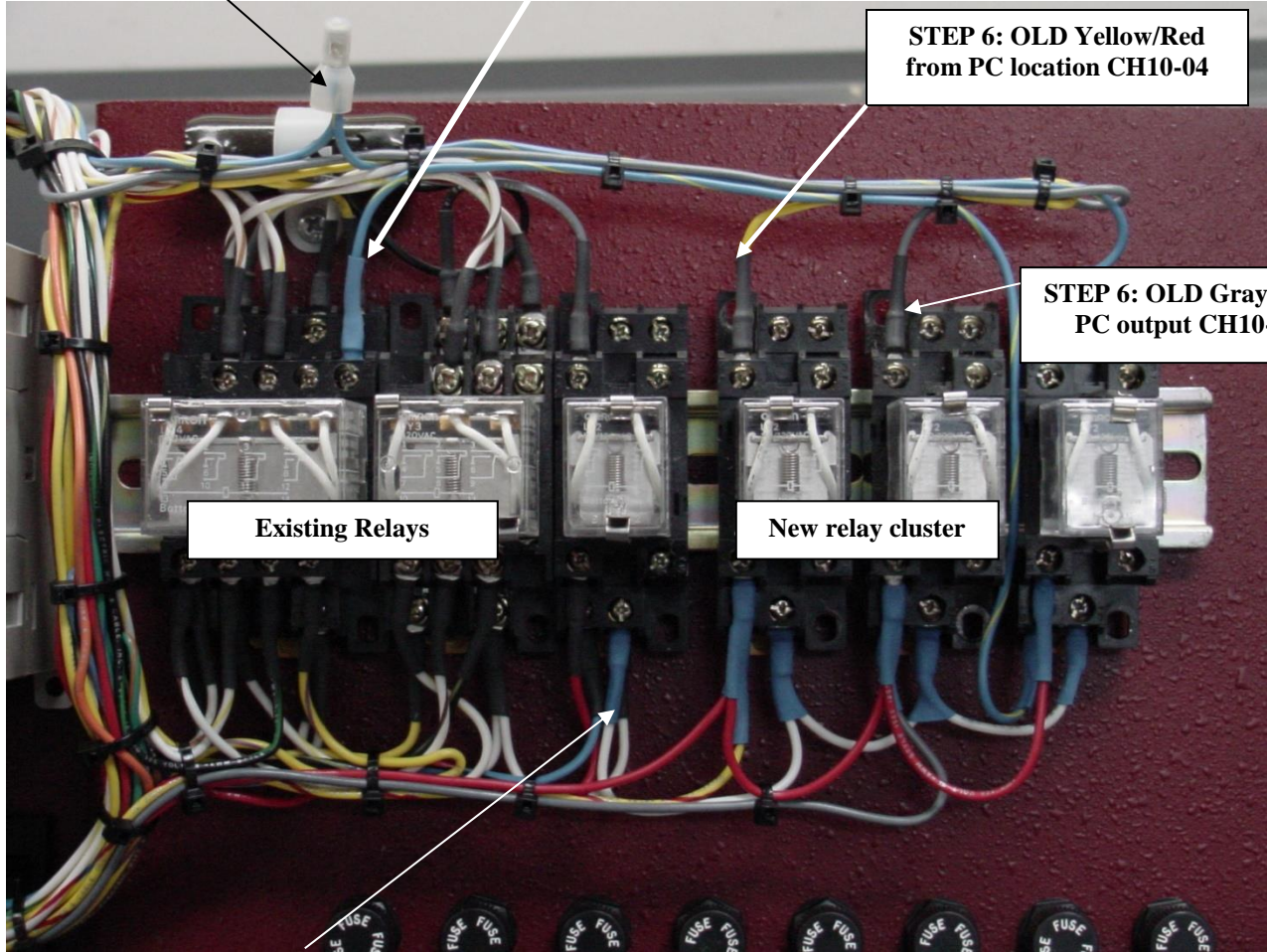
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STEP 5: OLD Blue/Yellow is removed and terminal is cut off. OLD Blue/Yellow needs to be capped together with NEW Blue/Yellow (without fork terminal)

STEP 5: NEW Blue/Yellow with fork terminal is inserted in place of OLD Blue/Yellow



STEP 6: OLD Yellow/Red from PC location CH10-04

STEP 6: OLD Gray from PC output CH10-03

Existing Relays

New relay cluster

STEP 7: NEW White common wire



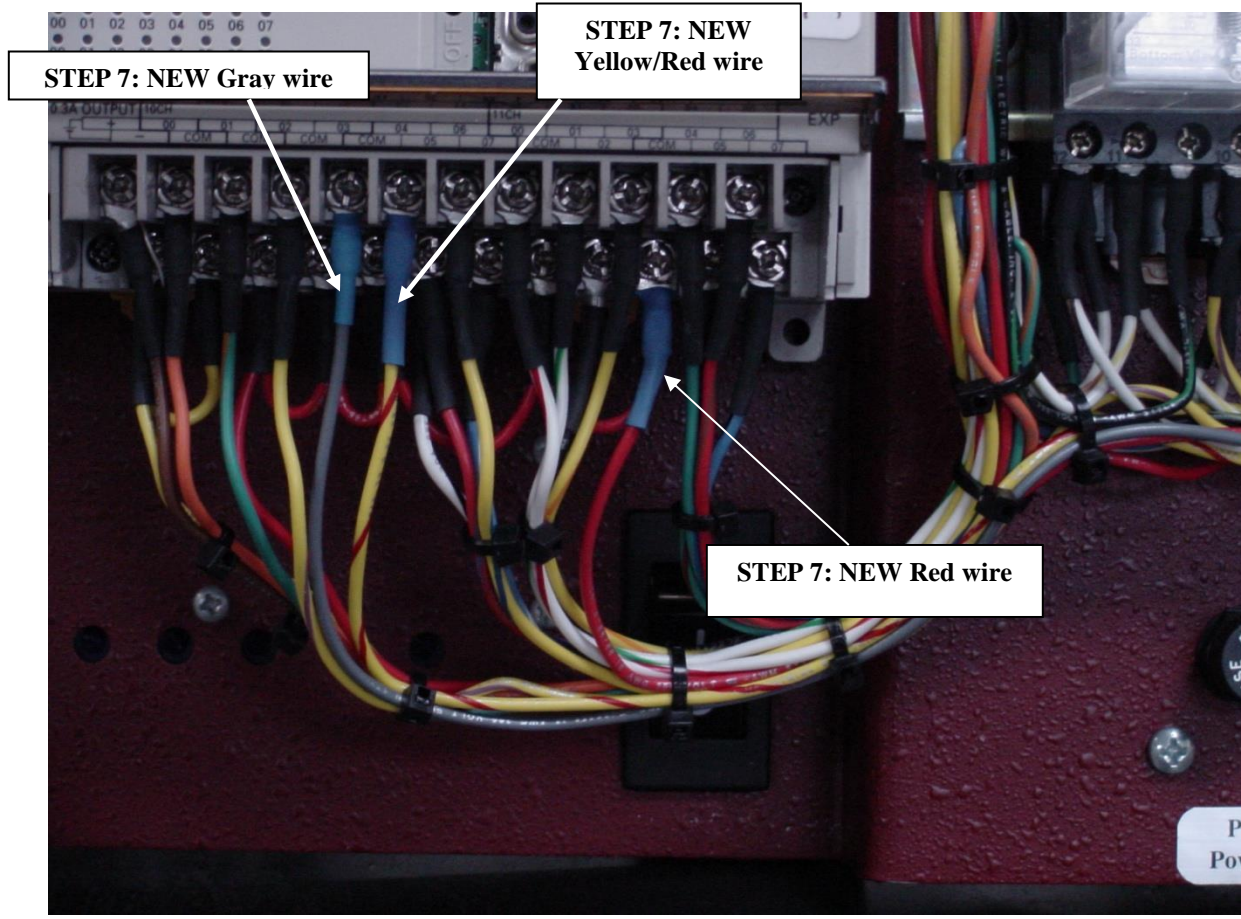
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7. Take the NEW short White wire and connect to slot #7 (the white wire that is already in this position will remain) of the OLD LY2 relay; this will connect the common wires together. Run the Red, Yellow/Red and Gray wires to the front of the PC. Screw the Gray wire to CH10-03, Yellow/Red wire to CH10-04 and the Red to the last common on bottom row with the Red wire already there. Wire tie wires neatly together.



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