

INSTALLATION and OPERATION INSTRUMENT

AGASTAT® timing relay

AUXILIARY SWITCH KITS

MODEL 7022 OFF-DELAY

All auxiliary switches supplied for use with 7000 Series AGASTAT timing relays are SPDT, with UL ratings of 10A at 125, 250, or 480 VAC.



CONTROL PRODUCTS
DIVISION

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CONTROL PRODUCTS DIVISION
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One type of auxiliary switch is supplied for use with all Model 7022 units. Depending on its adjustment, it provides either delayed transfer of the auxiliary contacts (two step timing), or instant transfer in either case, the auxiliary switch transfer is followed by the normal delayed transfer of the main switch.

INSTALLING MODEL 7022 AUXILIARY SWITCH (CODE T)

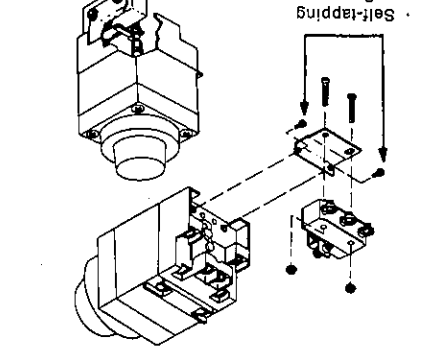
- THIS KIT (PART 700121) CONTAINS:
- (1) Snap-action switch with adjustable self-locking actuator.
 - (2) 6-32 switch mounting screws and ELASTIC STOP® nuts.
 - (2) 3-48 self-tapping bracket mounting screws.
 - (1) Switch mounting bracket.
 - (1) Contact identification plate.
- PLATE IS USED ONLY ON 7012 (Delay on Pull-in) UNITS.

ADJUSTING THE DELAY PERIOD

- Remove dust cover from bottom of switch block and discard.
- Attach the mounting bracket (without switch attached) to the bottom of the terminal block, using the two self-tapping screws.
- Be sure actuator screw is screwed into actuator arm as far as possible.
- Attach the switch to the bracket, using the two 6-32 screws and nuts. The adjustable timing of the slot in the bracket for normal operation.

For instant transfer — With the auxiliary switch mounted as above, energize the timer. Using a 1/4" open end wrench, turn the actuator screw clockwise slowly, 1/4 turn past the point at which the auxiliary switch transfers, closing the normally open (C-NO) circuit. This setting should provide instant reset of the auxiliary contacts when the coil is deenergized.

RECOMMENDED MAXIMUM AUXILIARY SWITCH DELAY IS 30% OF TOTAL DELAY PERIOD, BUT NOT EXCEEDING 100 SECONDS.

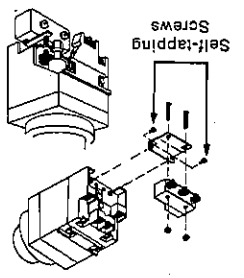


NOTE: A nominal change in time delay may occur when auxiliary switch is added. Recheck timing of main switch after installation of auxiliary switch.

INSTALLING INSTANT TRANSFER AUXILIARY SWITCH (CODE L)

- THIS KIT (PART 700047) CONTAINS:
- (1) Snap-action switch.
 - (1) Nylon actuator pin.
 - (2) 6-32 switch mounting screws and ELASTIC STOP® nuts.
 - (2) 3-48 self-tapping bracket mounting screws.
 - (1) Switch mounting bracket.
 - (1) Dust cover.

- Remove dust cover from bottom of switch block (discard dust cover but save screws).
- Remove four tie rod screws and carefully slide switchblock forward until spindle is centered in large end of keyhole slot in switchblock. Remove from relay assembly.
- Attach the mounting bracket (without the switch attached) to the bottom of the block, using two 3-48 self-tapping screws.
- Turn the switchblock over, keeping the screw terminals to the rear and insert the nylon pin, head up, through the hole in the block as shown below.



- Replace switchblock. Assemble new dust cover.
- Attach the switch to the bracket, using the two 6-32 screws and nuts.
- TO CHECK FOR PROPER OPERATION:
Aux. switch should transfer immediately when AGASTAT coil is energized, and should reset immediately following coil deenergization. If it fails to reset, loosen screw in slotted hole of mounting bracket and move switch closer to terminal block.
- Self-tapping Screws

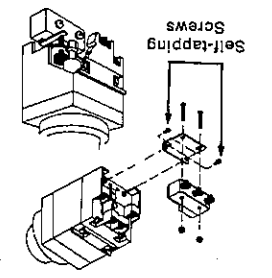
INSTALLING TWO STEP AUXILIARY SWITCH (CODE T)

- THIS KIT (PART 700121) CONTAINS:
- (1) Snap-action switch with adjustable self-locking actuator.
 - (2) 6-32 switch mounting screws and ELASTIC STOP® nuts.
 - (2) 3-48 self-tapping bracket mounting screws.
 - (1) Switch mounting bracket.
 - (1) Contact identification plate.
 - (1) Apply contact identification plate over existing terminal markings on switch.

- Remove dust cover from bottom of switch block, and discard.
- Attach the mounting bracket (without switch attached) to the bottom of the terminal block, using the two self-tapping screws.
- Be sure the actuator screw is screwed into actuator arm as far as possible.
- Attach the switch to the bracket, using the two 6-32 screws and nuts. The adjustable timing of the slot in the bracket for normal operation.
- Using 1/4" open end wrench, turn actuator screw clockwise up against the end of spindle collar, until auxiliary switch transfers. This will provide a very short first delay period before auxiliary switch transfer when unit is energized. To increase first delay period, turn actuator screw clockwise, to decrease delay turn screw counterclockwise.

RECOMMENDED MAXIMUM AUXILIARY SWITCH DELAY IS 30% OF TOTAL DELAY PERIOD, BUT NOT EXCEEDING 100 SECONDS.

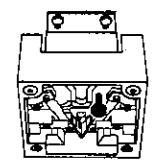
- NOTE: A nominal change in time delay may occur when auxiliary switch is added. Recheck timing of main switch after installation of auxiliary switch.
- TO CHECK FOR PROPER OPERATION:
Auxiliary switch contacts should transfer following first delay period after coil is energized. Auxiliary switch should reset immediately following coil deenergization. BE SURE spindle reaches lower stop and resets main switch.



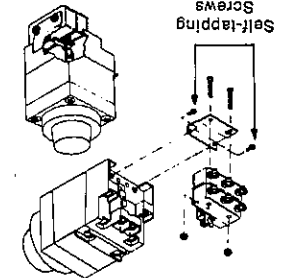
INSTALLING INSTANT TRANSFER AUXILIARY SWITCH (CODE LL)

- THIS KIT (PART 700048) CONTAINS:
- (1) Dual Snap-action switch assembly.
 - (1) Nylon actuator pin.
 - (2) 6-32 switch mounting screws and ELASTIC STOP® nuts.
 - (2) 3-48 self-tapping bracket mounting screws.
 - (1) Switch mounting bracket.
 - (1) Dust cover.

- Remove dust cover from bottom of switch block (discard dust cover but save screws).
- Remove four tie rod screws and carefully slide switchblock forward until spindle is centered in large end of keyhole slot in switchblock. Remove from relay assembly.
- Attach the mounting bracket (without the switches attached) to the bottom of the block, using two 3-48 self-tapping screws.
- Turn the switchblock over, keeping the screw terminals to the rear and insert the nylon pin, head up, through the hole in the block as shown below.



- Replace switchblock. Assemble new dust cover.
- Attach the switches to the bracket, using the two 6-32 screws and nuts.
- TO CHECK FOR PROPER OPERATION:
Aux. switch should transfer immediately when AGASTAT coil is energized, and should reset immediately following coil deenergization. If it fails to reset, loosen screw in slotted hole of mounting bracket and move switch closer to terminal block.
- Self-tapping Screws



MODEL 7012 ON-DELAY

Three types of auxiliary switches are supplied for Model 7012 units. The auxiliary contacts, in either energized, they provide adjustable delayed transfer of the auxiliary contacts, or instant transfer of the auxiliary contacts (two step timing). When the AGASTAT coil is energized, the normal delayed transfer of the main switch.