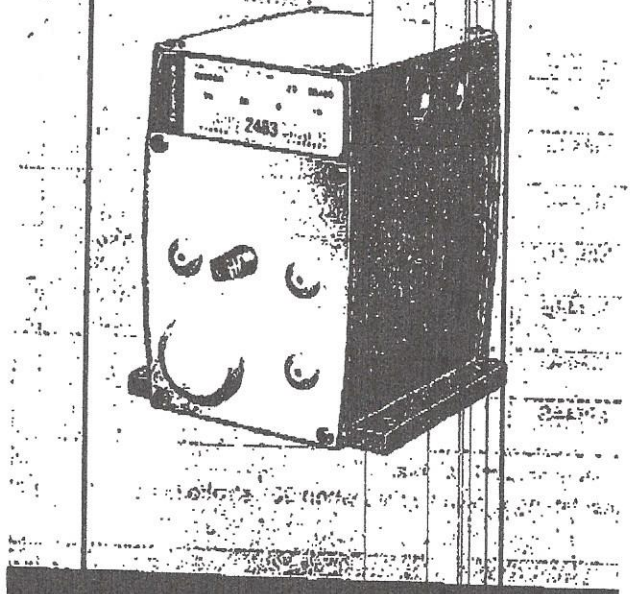
@ 410-901-1018

Honeywell

MODUTROL MOTOR



M944A-E,G,S

M944 MODUTROL MOTORS ARE REVERSING, PROPORTIONAL MOTORS USED TO OPERATE DAMPERS OR VALVES IN ELECTRONIC (SERIES 70) OR ELECTRIC (SERIES 90) MODULATING CIRCUITS.

- ☐ M944A-E are low voltage and M944G,S are line voltage motors.
- ☐ M944C,D,E,S stroke is field adjustable to 90 or 160°; on other models stroke is fixed at 90 or 160°.
- ☐ M944A,C,D have electronic drive circuit eliminating balance relay contacts.
- ☐ M944D,E,S have 2 internal, cam-adjusted auxiliary switches.
- ☐ Die-cast aluminum housing.
- ☐ Direct drive feedback potentiometer.
- ☐ Rated for ambient temperatures of -40 F to 130 F [-40 C to 54 C].
- ☐ Interchangeable with other proportioning motors. Use existing accessories.
- ☐ Available accessories include weatherproofing kit and internal transformer.

G.P.
REV. 12-83●

Form Number 60-2292—7

SPECIFICATIONS

TRADELINE MODELS

TRADELINE models are selected and packaged to provide ease of stocking, ease of handling, and maximum replacement value. TRADELINE model specifications are the same as those of standard models except as noted below.

MODELS: M944 Modutrol Motor. For additional model characteristics, refer to the table below.

MODEL	VOLTAGE (V at 50/60 Hz)	MOTOR TIMING (sec)	STROKE (degrees rotation)	AUXILIARY SWITCHES
M944A	24	60	Fixed, 160	—
M944B	24	60	Fixed, 160	—
M944D	24	30 or 60[a]	Dual, 90 or 160	2 spdt
M944E	24	30 or 60[a]	Dual, 90 or 160	2 spdt

[a]Shorter timing applies when 90 degree stroke is selected.

ADDITIONAL FEATURES: TRADELINE pack with cross reference label and special instruction sheet.

STANDARD MODELS

MODELS: M944 Modutrol Motors.

MODEL	VOLTAGE (V @ 50/60 Hz.)	INTERNAL BALANCING CIRCUIT	STROKE (degrees rotation)	MOTOR TIMING (sec)	AUXILIARY SWITCHES
M944A	24	yes	90	30	—
			160	60	
M944B	24	no	160	60 (or 4 min)	—
M944C	24	yes	90 or 160[a]	15[b] (or 2 min)	—
M944D	24	yes	90 or 160[a]	30	2
M944E	24	no	90 or 160[a]	30[b]	2
M944G	120	no	90	30	—
			160	60	
M944S	120	no	90 or 160[a]	30[b]	2

[a]Stroke is field adjustable.

[b]Motor timing shown applies when 90° stroke is used; timing doubles when 160° stroke is selected.

(continued on page 3)

ORDERING INFORMATION

WHEN PURCHASING REPLACEMENT AND MODERNIZATION PRODUCTS FROM YOUR TRADELINE WHOLESALER OR YOUR DISTRIBUTOR, REFER TO THE TRADELINE CATALOG OR PRICE SHEETS FOR COMPLETE ORDERING NUMBER, OR SPECIFY—

1. Order number, TRADELINE if desired.
2. Motor stroke and timing.
3. Motor voltage.
4. Auxiliary switches, if desired.
5. Accessories, if desired.

IF YOU HAVE ADDITIONAL QUESTIONS, NEED FURTHER INFORMATION, OR WOULD LIKE TO COMMENT ON OUR PRODUCTS OR SERVICES, PLEASE WRITE OR PHONE:

1. YOUR LOCAL HONEYWELL RESIDENTIAL SALES OFFICE (CHECK WHITE PAGES OF YOUR PHONE DIRECTORY).
2. RESIDENTIAL DIVISION CUSTOMER SERVICE
   HONEYWELL INC., 1885 DOUGLAS DRIVE NORTH
   MINNEAPOLIS, MINNESOTA 55422-4386 (612) 542-7500

   (IN CANADA—HONEYWELL LIMITED/HONEYWELL LIMITEE, 740 ELLESMERE ROAD, SCARBOROUGH, ONTARIO M1P 2V9) INTERNATIONAL SALES AND SERVICE OFFICES IN ALL PRINCIPAL CITIES OF THE WORLD.

ELECTRICAL RATINGS: (M944A,C,D)

	VOLTAGE (V @ 50/60 Hz)	CURRENT DRAW (A)	POWER CONSUMPTION (W)
Without Transformer	24	0.6	15
With Internal Transformer	120	0.24	23
	208	0.138	23
	240	0.12	23

ELECTRICAL RATINGS: (M944B,E,G,S)

	VOLTAGE (V @ 50/60 Hz)	CURRENT DRAW (A)	POWER CONSUMPTION (W)
Without Transformer	24	0.69	15
With Internal Transformer	120	0.21	20
	208	0.12	20
	240	0.11	20

CONTROLLER TYPE: 135 ohm potentiometer.

AUXILIARY SWITCH RATINGS (amperes): M944D,E,S have 2 spdt, V3 snap switches.

ONE CONTACT[a]	120 V	240 V
Full Load	7.2	3.6
Locked Rotor	43.2	21.6

[a]40 VA pilot duty, 120/240 Vac on opposite contact.

DEAD WEIGHT LOAD ON SHAFT:
Power End—200 lb. [90.8 kg] maximum.
Auxiliary End—100 lb. [45.4 kg] maximum.

AMBIENT TEMPERATURE RATINGS:
Maximum—130 F [54 C] @ 25% duty cycle.
Minimum—minus 35 F [-37 C].

CRANKSHAFT: Double-ended, 3/8 in. [9.5 mm] square.

DIMENSIONS: See Fig. 1.

UNDERWRITERS LABORATORIES INC. LISTED (M944A,D,E,G,S only): File No. [illegible], Vol. 4 dated 5-27-69; Guide No. XAPX.

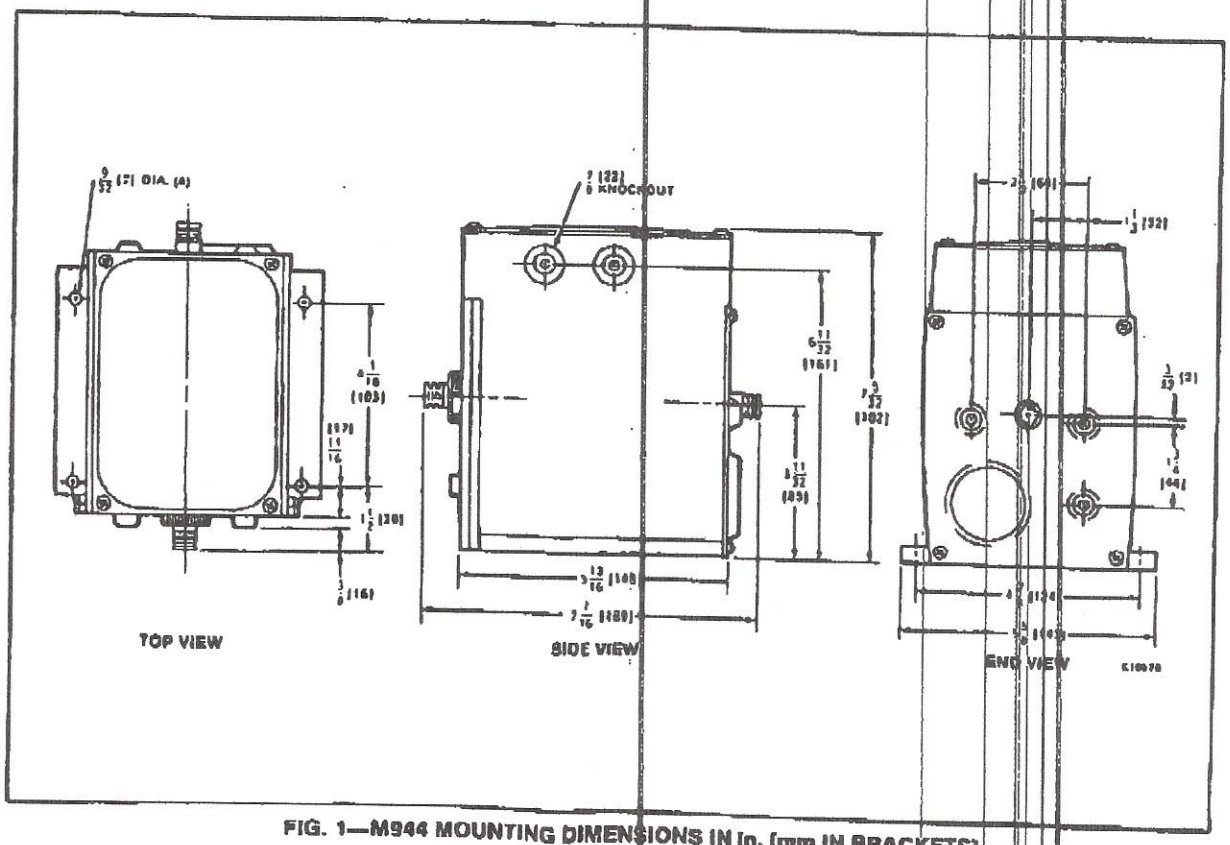


FIG. 1—M944 MOUNTING DIMENSIONS IN in. [mm IN BRACKETS].

CANADIAN STANDARDS ASSOCIATION CERTIFIED (M944D,E,G only): General Listing File No. LR1620, Guide 400-E-O.

TORQUE in lb.-in. [N-m in brackets]:

TIMING			
90 DEGREE STROKE MOTORS	160 DEGREE STROKE MOTORS	NORMAL RUNNING TORQUE	BREAKAWAY TORQUE[a]
15 sec	30 sec	75 [8.5]	150 [17.0]
30 sec 1.2 min	1.2.4 min	150 [17.0]	300 [34.0]

[a]Breakaway torque is the maximum torque available to overcome occasional large loads such as a seized damper or valve. MOTOR MUST NOT BE USED CONTINUOUSLY AT THIS RATING.

ACCESSORIES:

DHE-94 Explosion-proof Housing—encloses motor for use in explosive atmospheres. Not for use with Q601 and Q455 Linkages. Order separately from Crouse-Hinds Co. Requires Honeywell 7617DM Coupling.

Q607 Auxiliary Switch—controls auxiliary equipment as a function of motor position.

Q605 Damper Linkage—connects motor to damper. INCLUDES MOTOR CRANK ARM.

Q618 Linkage—connects Modutrol motor to water or steam valve.

Q601 Linkage—connects Modutrol motor to water or steam valve.

Q100 Linkage—connects Modutrol motor to butterfly valve.

Q209 Potentiometer—limits minimum position of motor.

Q68 Dual Control Potentiometer—controls 1 through 9 additional motors.

W859 Economizer Control Package—provides controls needed for outdoor and return air damper system.

Q181 Auxiliary Potentiometer—controls 1 or 2 additional motors.

7640JS Weatherproofing Kit—weatherproofs the M944 Modutrol Motor.

7616BR Motor Crank Arm—included with Q605 but not with motor.

Transformers—mounted internally. Include mounting screws and barrier.

- 7640PK—120 Vac; 50/60 Hz.
- 7640PL—220 Vac; 50/60 Hz.
- 7640PN—120/208/240 Vac; 50/60 Hz.

7640PP Screw Terminal Adapter—use to convert quick-connect terminals to screw terminals.

INSTALLATION

WHEN INSTALLING THIS PRODUCT . . .

1. Read these instructions carefully. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After installation is complete, check out product operation as provided in these instructions.

CAUTION

1. Disconnect power supply before beginning installation to prevent electrical shock and equipment damage.
2. Do not attempt to turn the motor shaft by hand or with a wrench—damage to the gear train may result.
3. Always conduct a thorough checkout when installation is complete.

LOCATION

Install the Modutrol motor in any location except where acid fumes or other deteriorating vapors might attack the metal parts, or in atmospheres of escaping gas or other explosive vapors. Motors are rated for ambient temperatures between –40 F and 130 F [–40 C and 54 C]. If located outdoors, use weatherproofing kit; see Accessories section.

Allow enough clearance for installing accessories and servicing the motor when selecting a location. See Fig. 1.

MOUNTING

Always install the motor with the crankshaft horizontal. Mounting flanges extending from the bottom of the motor housing are drilled for 1/4 in. [6.4 mm] machine screws or bolts.

All M944 motors are shipped from the factory in closed position; i.e., at the limit of counterclockwise ↶ rotation as viewed from the power end of the motor (Fig. 2).

LINKAGES

The motor comes without a crank arm. The motor arm is included in the Q605 linkage or may be ordered separately (see Accessories).

For detailed instructions on the assembly of specific linkages, refer to the instruction sheet packed with each linkage.

In general, however, check the following points of operation when installing a motor and linkage.

1. Linkages for valves and louver type dampers should be adjusted so that the damper or valve moves through only the maximum required distance when the motor moves through its full stroke.
2. With modulating control, maximum damper opening should be no more than 60°. Little additional airflow is provided beyond this point.
3. The motor must be stopped at the end of its stroke by the limit switch and must not be stalled by the damper or valve. The motor will be damaged if it is not permitted to complete its full stroke.
4. Do not exceed the motor ratings in any installation.
5. Do not turn motor shaft manually or with a wrench—damage to the gear train may result.

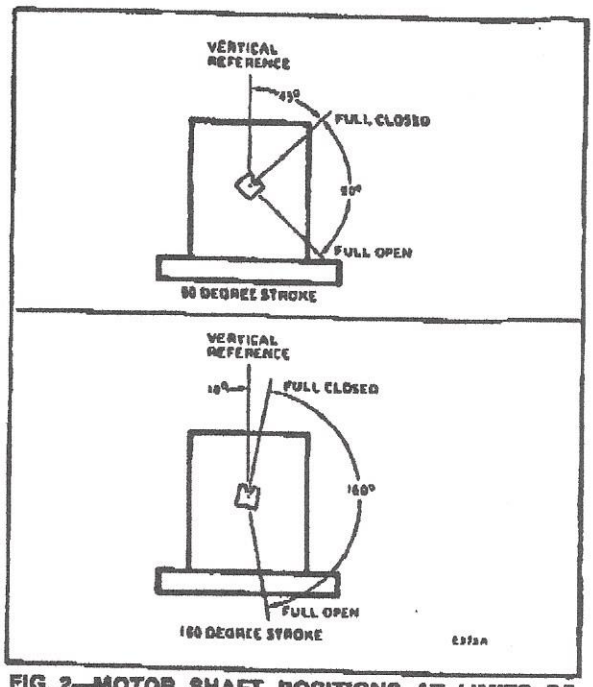


FIG. 2—MOTOR SHAFT POSITIONS AT LIMITS OF STROKE—VIEWED FROM POWER END.

WIRING

Disconnect power supply before wiring to prevent electrical shock or equipment damage. All wiring must agree with applicable codes, ordinances, and regulations.

Make sure that the voltage and frequency stamped on the motor correspond to the characteristics of the power supply.

Figs. 3-7 show internal schematics for the M944 motors, and Figs. 8-13 show typical system connections.

The motor terminals are quick-connects located on top of the printed circuit board shown in Figs. 3,4. Access to the wiring compartment is gained by removing the 4 screws in the top of the motor and lifting off the cover.

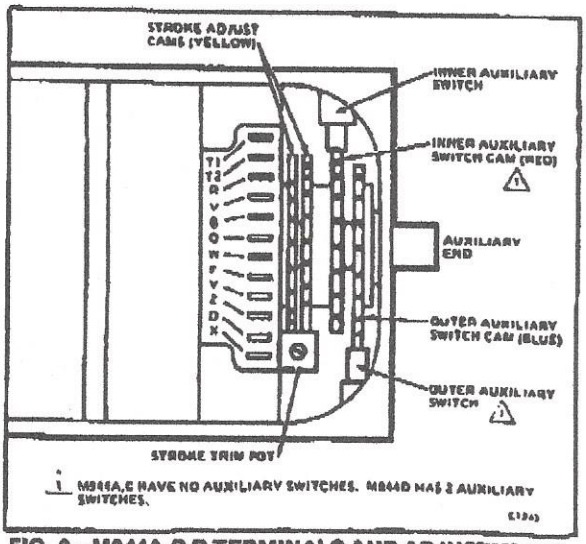


FIG. 3—M944A,C,D TERMINALS AND ADJUSTMENTS.

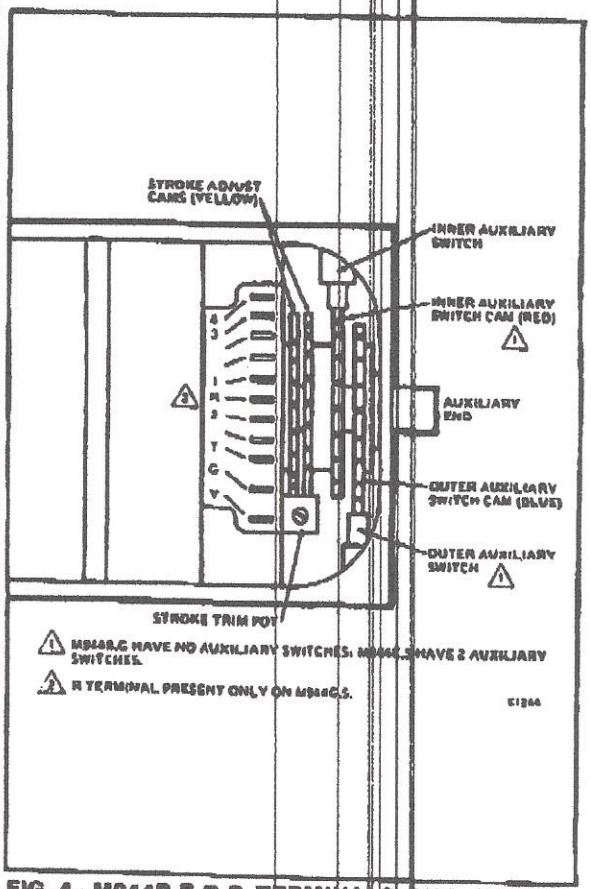


FIG. 4—M944B,E,G,S TERMINALS AND ADJUSTMENTS.

IMPORTANT

After the valve or damper linkage is connected to the motor, it may be necessary to interchange the blue and yellow connections at the motor terminals to obtain the proper action of the valve or damper on a temperature increase or decrease at the controller.

If a motor operates in a direction opposite to the rotation desired, the rotation can be reversed by switching wires at either the motor or the panel. On the M944A,C,D motors, reverse wires at the B and W terminals. On M944B,E,G,S motors, reverse the wires at the 1 and 2 terminals and the Y and G terminals.

NOTE: In most applications a single 135 ohm potentiometer in the limit controller provides 50% operation of a valve or damper. For those applications where the limit controller must be able to operate the valve or damper to 100% of its capacity, it must have either one 270 ohm potentiometer or two series-connected potentiometers with combined total resistance up to 280 ohms. If a 2-potentiometer limit controller is used, it should be wired into the circuit so control varies over the entire resistance.

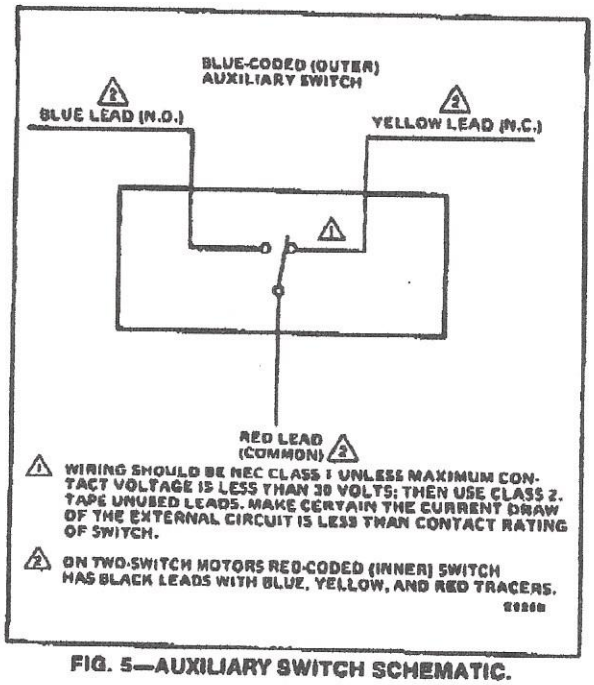


FIG. 5—AUXILIARY SWITCH SCHEMATIC.

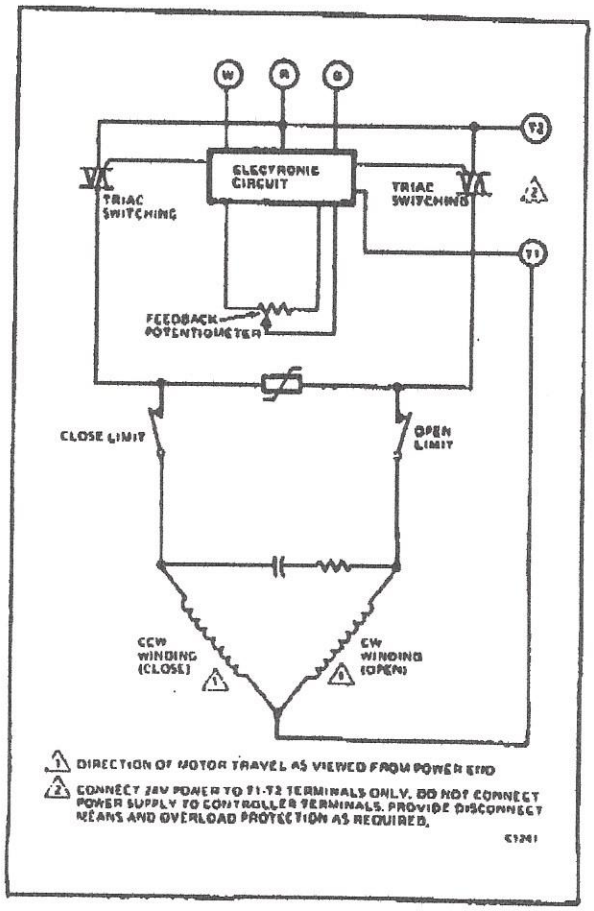


FIG. 6—M944A,C,D INTERNAL SCHEMATIC.

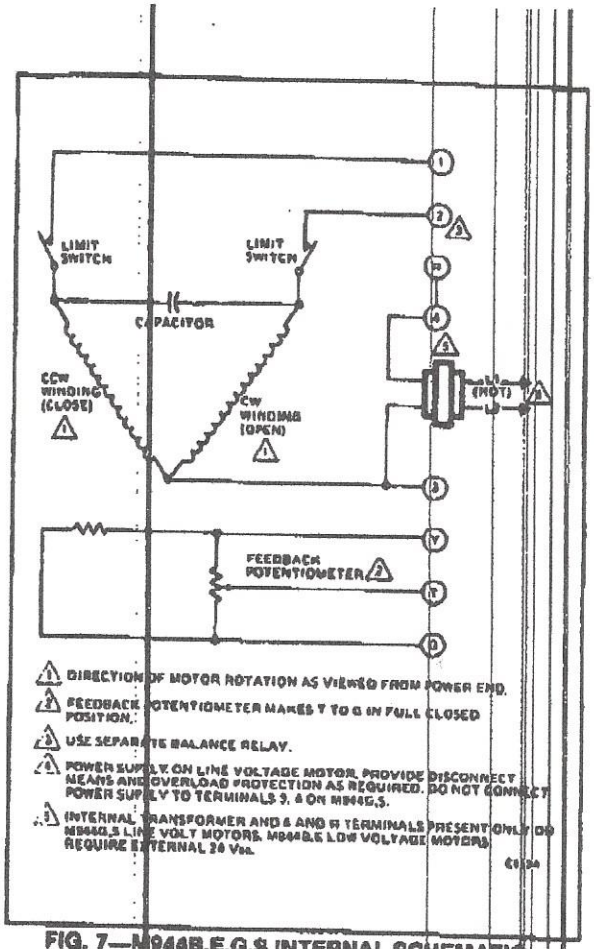


FIG. 7—M944B,E,G,S INTERNAL SCHEMATIC.

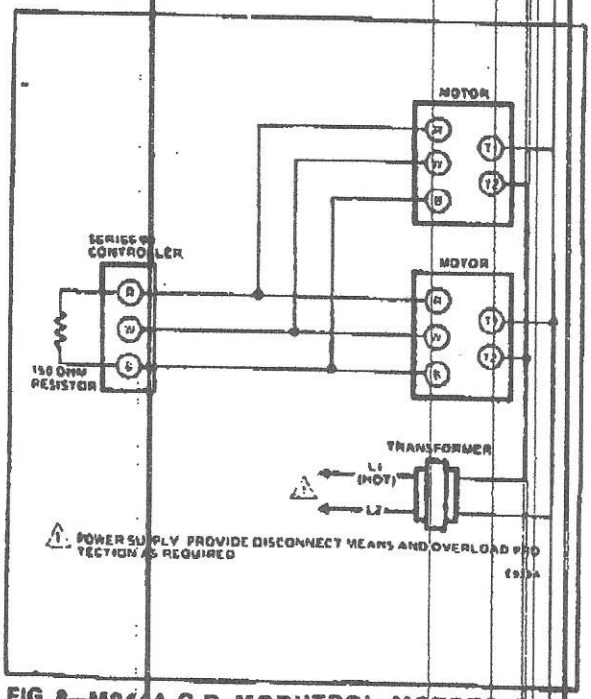


FIG. 8—M944A,C,D MODUTROL MOTORS PARALLELED WITH A SERIES 90 CONTROLLER.

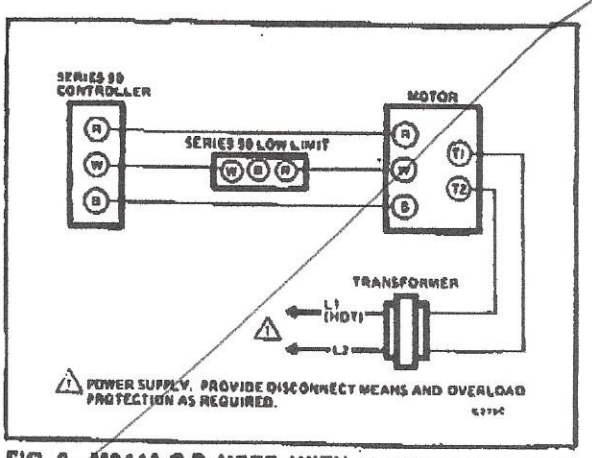


FIG. 9—M944A,C,D USED WITH MODULATING LOW LIMIT TO PREVENT DISCHARGE AIR FROM GOING BELOW DESIRED MINIMUM TEMPERATURE (maximum authority—50% with 135 ohm controller or 100% with 270 ohm controller).

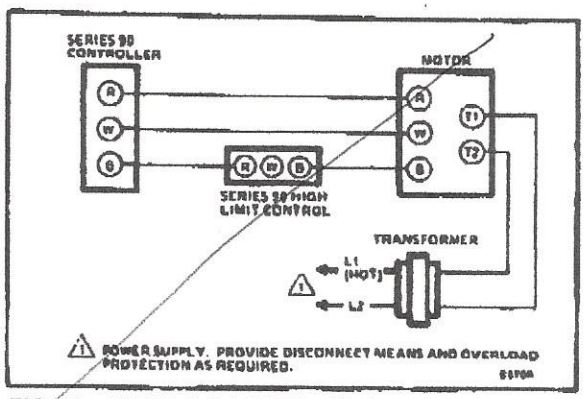


FIG. 10—M944A,C,D MOTOR USED WITH A SERIES 90 CONTROLLER AND A SERIES 90 HIGH LIMIT; OFTEN USED ON CENTRAL FAN HEATING SYSTEMS TO LIMIT THE DISCHARGE AIR TEMPERATURE.

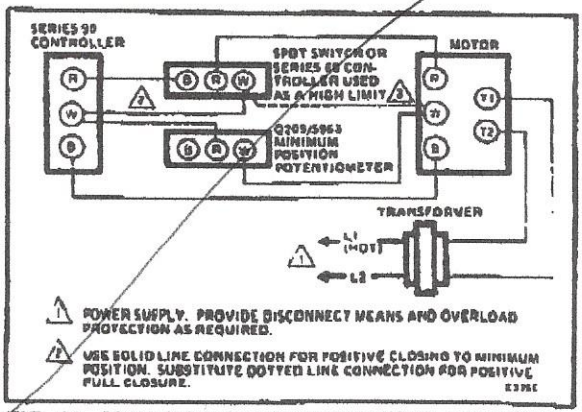


FIG. 11—M944A,C,D MOTOR USED WITH A SERIES 90 CONTROLLER, A MANUAL MINIMUM POSITION POTENTIOMETER, AND AN SPDT SWITCH FOR 2-POSITION HIGH LIMIT CONTROL.

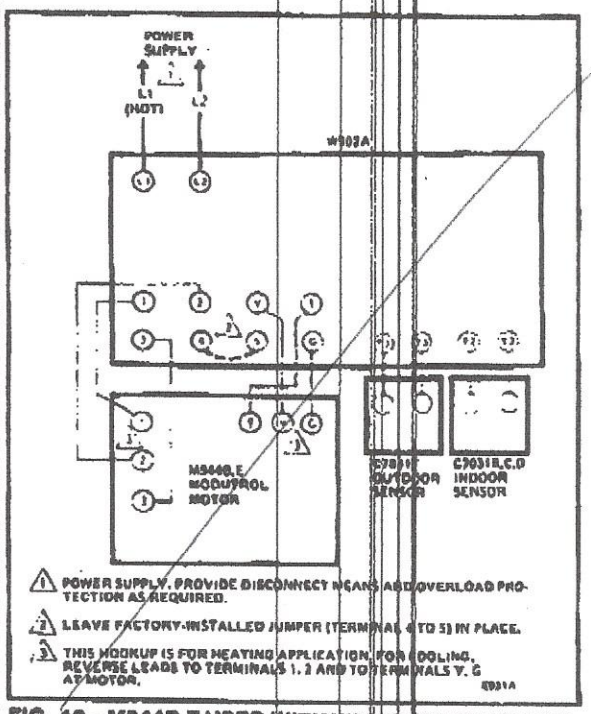


FIG. 12—M944B,E USED WITH W903 RESET CONTROL IN HEATING OR COOLING APPLICATION.

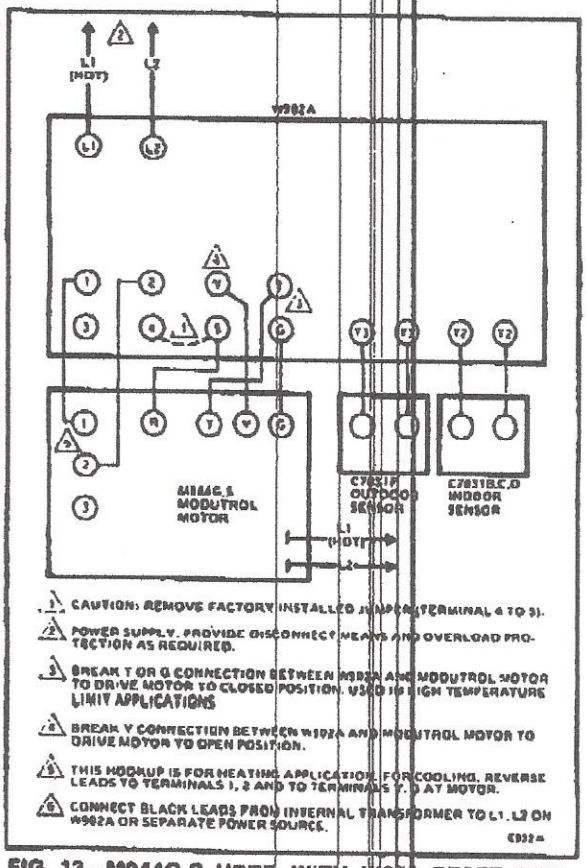


FIG. 13—M944G,S USED WITH W903 RESET CONTROL IN HEATING OR COOLING APPLICATION.

SETTINGS AND ADJUSTMENTS

STROKE SETTING

On M944C,D,E,S motors, stroke is field selectable and can be set for 90° (as shipped) or 160°. In order to set stroke, both mechanical and electrical adjustments are required. The mechanical adjustments (cams) establish the full open and full closed positions of the motor shaft. The electrical adjustment (trim pot) provides sufficient total stroke angle to ensure that cams will actuate both limit switches.

STROKE SETTING PROCEDURE— M944C,D (Fig. 14)

CAUTION

Detach linkage from motor before adjusting stroke.

BEFORE SETTING STROKE:

1. Remove top cover from motor.
2. Disconnect controller from motor.
3. Connect R,B,W terminals on 135 ohm pot to matching terminals on motor.

SETTING 160° STROKE

1. Turn trim pot fully clockwise.
2. Drive motor to mid-position, using 135 ohm pot.
3. Insert 1/8 in. screwdriver blade into slot on inner yellow cam and MOVE TOP OF SCREWDRIVER as far as possible counterclockwise ◠. Repeat in successive cam slots until inner cam is against counterclockwise stop.

IMPORTANT

Set cams by moving top of screwdriver only. Pressing screwdriver against sides of cam slots could cause damage to motor end switches.

4. Insert 1/8 in. screwdriver blade into slot on outer yellow cam and MOVE TOP OF SCREWDRIVER as far as possible clockwise ◠. Repeat in successive cam slots until outer cam is against clockwise stop.

NOTE: Excessive force will damage end switch.

5. Check motor stroke before connecting linkage.
6. Disconnect 135 ohm pot, reconnect controller, replace top cover and attach linkage to motor.

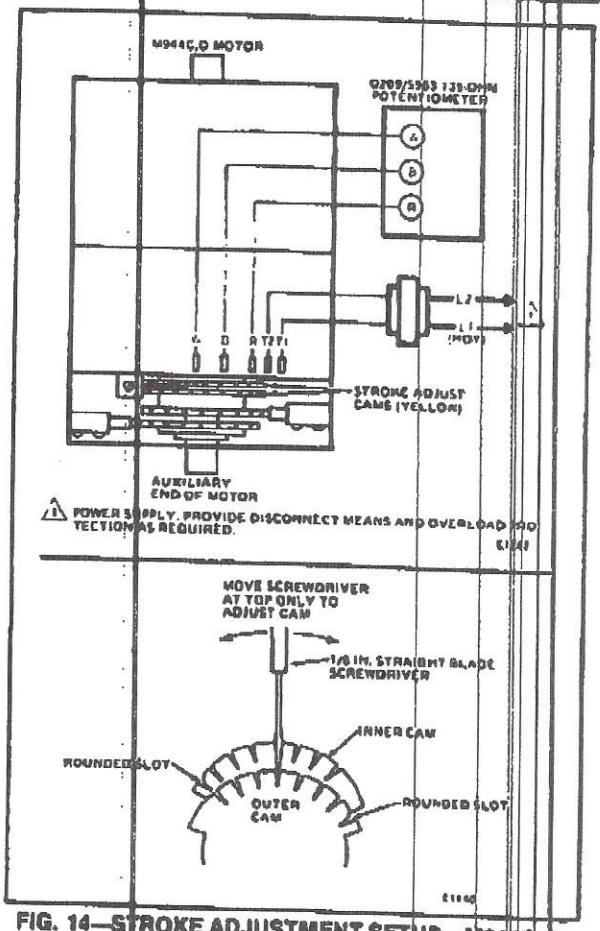


FIG. 14—STROKE ADJUSTMENT SETUP—M944C,D.

SETTING 90° STROKE

1. Turn trim pot fully counterclockwise.
2. Drive motor to mid-position, using 135 ohm pot.
3. Insert 1/8 in. screwdriver blade into slot on inner yellow cam and MOVE TOP OF SCREWDRIVER as far as possible clockwise ◠. Repeat in successive cam slots until inner cam is against clockwise stop.

IMPORTANT

Set cams by moving top of screwdriver only. Pressing screwdriver against sides of cam slots could cause damage to motor end switches.

4. Insert 1/8 in. screwdriver blade into slot on outer yellow cam and MOVE TOP OF SCREWDRIVER as far as possible counterclockwise ◠. Repeat in successive cam slots until outer cam is against counterclockwise ◠. Repeat in successive cam slots until outer cam is against counterclockwise stop.

NOTE: Excessive force will damage end switch.

5. Check motor stroke before connecting linkage.
6. Disconnect 135 ohm pot, reconnect controller, replace motor top cover and attach linkage to motor.

STROKE SETTING PROCEDURE—M944E,S (Figs. 15, 16)

CAUTION

Detach linkage from motor before adjusting stroke.

BEFORE SETTING STROKE:

1. Remove top cover from motor.
2. Disconnect controller from motor.
3. Connect M944E as shown in Fig. 15; connect M944S as shown in Fig. 16.

SETTING 160° STROKE

1. Turn trim pot fully clockwise.
2. Drive motor to mid-position as follows:
   - M944E—Connect 24 Vac to motor terminals 2 and 3 to drive motor open, or to terminals 1 and 3 to drive motor closed (Fig. 15).
   - M944S—Connect jumper from R to 2 to drive motor open, or from terminals R to 1 to drive motor closed (Fig. 16).

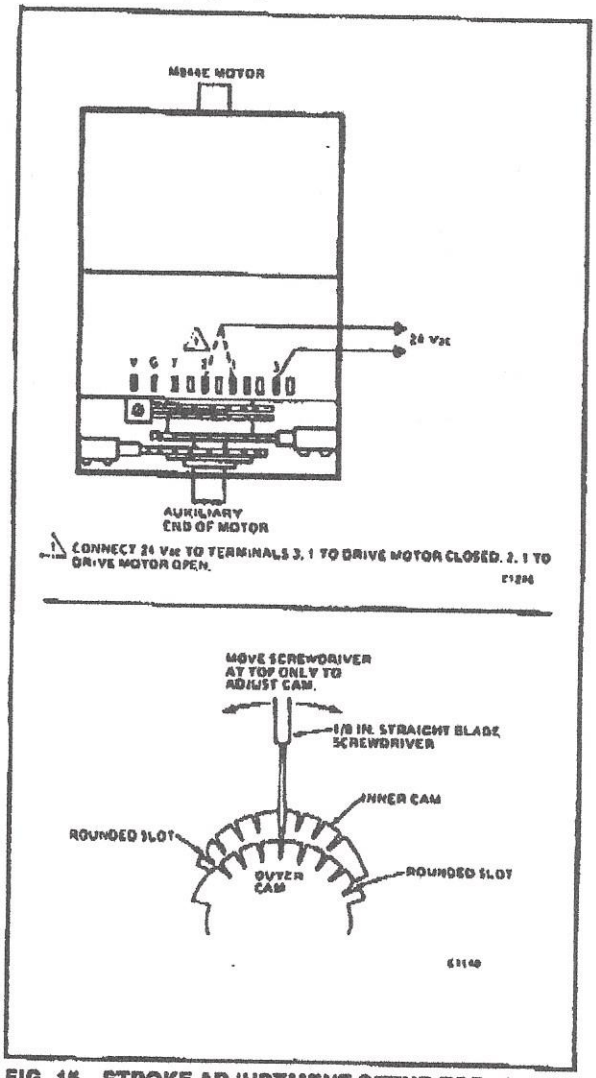


FIG. 15—STROKE ADJUSTMENT SETUP FOR M944E.

3. Insert 1/8 in. screwdriver blade into slot on inner yellow cam and MOVE TOP OF SCREWDRIVER as far as possible counterclockwise ↶. Repeat in successive cam slots until inner cam is against counterclockwise stop.

IMPORTANT

Set cams by moving top of screwdriver only. Pressing screwdriver against sides of cam slots could cause damage to motor and switches.

4. Insert 1/8 in. screwdriver blade into slot on outer yellow cam and MOVE TOP OF SCREWDRIVER as far as possible clockwise ↷. Repeat in successive cam slots until outer cam is against clockwise stop.

5. Check motor stroke before connecting linkage.

6. Reconnect controller, replace motor top cover and attach linkage to motor.

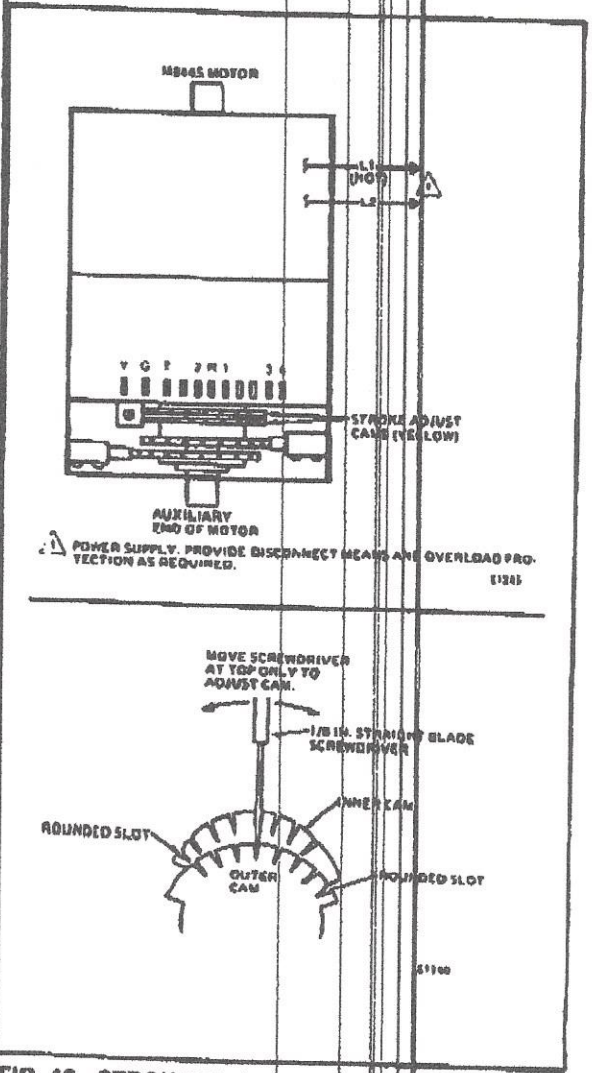


FIG. 16—STROKE ADJUSTMENT SETUP FOR M944S.

SETTING 90° STROKE
(Motor factory set at 90°)

1. Turn trim pot fully counterclockwise.
2. Drive motor to mid-position as follows:
   - M944E—Connect 24 Vac to motor terminals 2 and 3 to drive motor open, or to terminals 1 and 3 to drive motor closed (Fig. 15).
   - M944S—Connect jumper from R to 2 to drive motor open, or from terminals R to 1 to drive motor closed (Fig. 16).
3. Insert 1/8 in. screwdriver blade into slot on inner yellow cam and MOVE TOP OF SCREWDRIVER as far as possible clockwise ⌒. Repeat in successive cam slots until outer cam is against clockwise stop.
4. Insert 1/8 in. screwdriver blade into slot on outer yellow cam and MOVE TOP OF SCREWDRIVER as far as possible counterclockwise ⌒. Repeat in successive cam slots until outer cam is against counterclockwise stop.

NOTE: Excessive force will damage end switch.

5. Check motor stroke before connecting linkage.
6. Reconnect controller, replace motor top cover and attach linkage to motor.

AUXILIARY SWITCHES

The auxiliary switches in M944D,E,S motors are actuated by adjustable cams. These cams can be set to actuate the switches at any angle within the stroke of the motor. Also, switch differentials of 1° or 10° can be selected.

Motors are shipped in the closed position with auxiliary cams set to actuate switches 30° from the closed position, and to provide 1° differential. With motor in closed position, auxiliary switch breaks R-B (Fig. 5).

AUXILIARY SWITCH SETTING PROCEDURE—M944D (Fig. 17)

1. Remove top cover from motor to gain access to motor terminals and auxiliary cams.
2. Disconnect controller from motor and connect 135 ohm manual potentiometer with R,W,B terminals on pot connected to corresponding terminals on motor.
3. Drive the motor to the desired position where auxiliary equipment is to be switched, by adjusting the 135 ohm pot.
4. For switch differential of 1°, check continuity of auxiliary switch R-B contacts and rotate cam as follows:
   a. If contacts are open, rotate cam counterclockwise until R-B contacts close.
   b. If contacts are closed, rotate cam clockwise until R-B contacts open.
5. For switch differential of 10°, check continuity of auxiliary switch R-B contacts and rotate cam as follows:
   a. If contacts are open, rotate cam clockwise until R-B contacts close.
   b. If contacts are closed, rotate cam counterclockwise until R-B contacts open.
6. Check for proper differential and switching of auxiliary equipment by driving motor through full stroke (in both directions), using the 135 ohm pot. If necessary, repeat differential adjustments.
7. Disconnect 135 ohm pot, reconnect controller and replace top cover on motor.

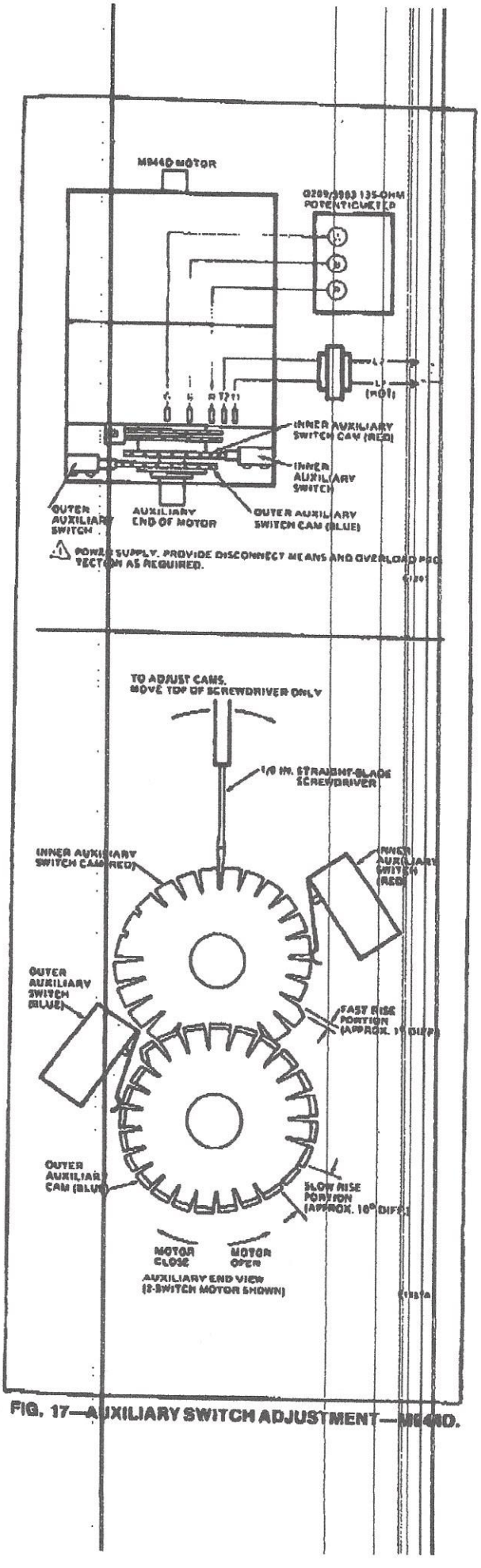


FIG. 17—AUXILIARY SWITCH ADJUSTMENT—M944D.

AUXILIARY SWITCH SETTING PROCEDURE—M944E,S (Fig. 18)

1. Remove top cover from motor to gain access to motor terminals and auxiliary cams.

2. Disconnect controller from motor.

3. Drive motor to the position where auxiliary equipment is to be switched as follows:
   - M944E—Connect 24 Vac to motor terminals 2 and 3 to drive motor open, or terminals 1 and 3 to drive motor closed.
   - M944S—Connect jumper from R to 2 to drive motor open, or from R to 1 to drive motor closed.

4. For switch differential of 1°, check continuity of auxiliary switch R-B contacts and rotate cam as follows:
   a. If contacts are open, rotate cam counterclockwise until R-B contacts close.
   b. If contacts are closed, rotate cam clockwise until R-B contacts open.

5. For switch differential of 10°, check continuity of auxiliary switch R-B contacts and rotate cam as follows:
   a. If contacts are open, rotate cam clockwise until R-B contacts close.
   b. If contacts are closed, rotate cam counterclockwise until R-B contacts open.

6. Check for proper differential and switching of auxiliary equipment by driving motor through full stroke in both directions.

7. Disconnect jumper, reconnect controller, replace top cover on motor.

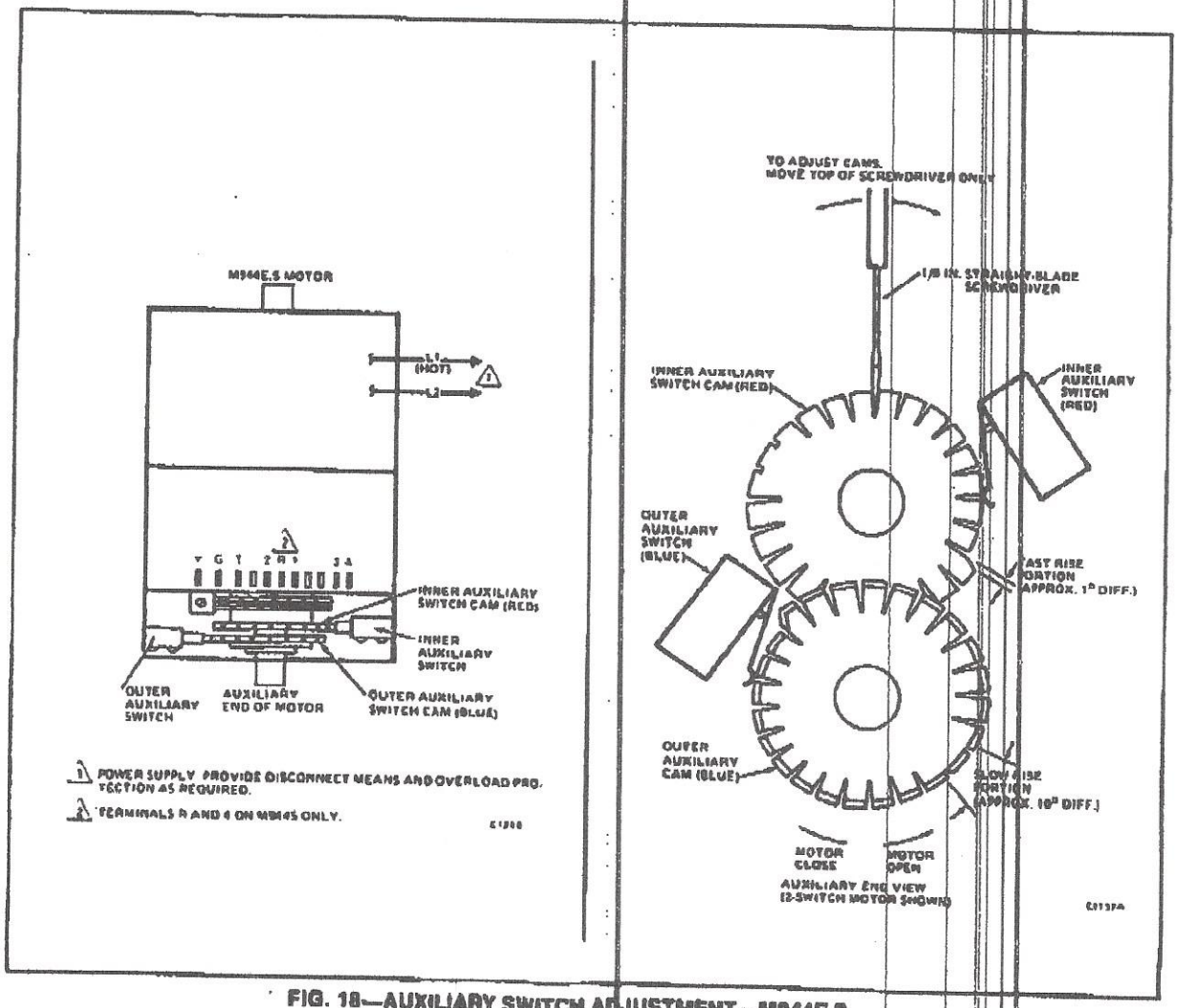


FIG. 18—AUXILIARY SWITCH ADJUSTMENT—M944E,S.

OPERATION

SERIES 90 CIRCUIT

MODULATING SERIES 90 CIRCUIT

The 2 potentiometers, one in the controller and one in the motor, along with resistor network, form a bridge circuit. As long as the value of the controlled medium remains at the controller set point, the circuit is balanced, and the motor does not drive.

When the value of the controlled medium changes, the potentiometer wiper in the controller is moved, which unbalances the bridge circuit. This unbalance is amplified, and energizes Triac switching to drive the motor in the direction necessary to correct the change in temperature or pressure. The motor turns the feedback potentiometer to rebalance the circuit and stop the motor.

EXTERNAL SERIES 90 CIRCUIT

When the M944 is used with an electronic panel the operation is similar to that described above. In this application, however, the temperature is sensed by a resistance element. With a change in temperature, the resistance of the element changes and unbalances a circuit that actuates the electronic relay. This, in turn, runs the motor, which moves the feedback potentiometer and rebalances the circuit.

CHECKOUT

After installation and linkage adjustment, check the entire motor and control hookup to prove that—
—the motor operates the damper or valve properly.
—the motor responds properly to the controller.

Inspect the motor, linkage and valve or damper to see that all mechanical connections are correct and secure. In damper installations, the pushrod should not extend more than a few inches past the ball joints. Check to see that there is adequate clearance for the linkage to move through its stroke without binding or striking other objects.

M944 motors are shipped in the fully closed position (the limit of counterclockwise rotation as viewed from the power end of the motor).

To check operation of M944A,C,D motors, jumper R to W to close, or R to B to open, the motor. To check operation of M944B,E motors, connect 24 V to 1 and 3 to close, or to 2 and 3 to open the motor. To check operation of M944G,S motors, jumper 1 to R to close, or 2 to R to open the motor. If the motor is used with an electronic relay, follow the instructions provided with the relay.

To reverse the direction of motor rotation, reverse the wires at terminals B and W on M944A,C,D, reverse terminals 1 and 2 and terminals Y and G on M944B,E,G,S motors. The wires may be reversed either at the motor or at the panel.

To check system operation, adjust the set point of the controller above and below the ambient value and make sure the motor and valve or damper operate as desired. Return controller to desired setting before leaving job.

If questions arise regarding this product, contact your local distributor or Honeywell sales office.

HONEYWELL MINNEAPOLIS, MN 55408 INTERNATIONAL Sales Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A.
PRINTED IN U.S.A.

ADDENDUM TO M944A-E,G,S SPEC SHEET, FORM 60-2292—7

CAUTION

DO NOT CONNECT THIS ACTUATOR DIRECTLY TO AN R927C, R9107A EXTERNAL BALANCE RELAY. A Q181A AUXILIARY POTENTIOMETER IS REQUIRED IN APPLICATIONS WITH AN R927C OR R9107A. SEE THE WIRING DIAGRAM BELOW FOR DETAILS.

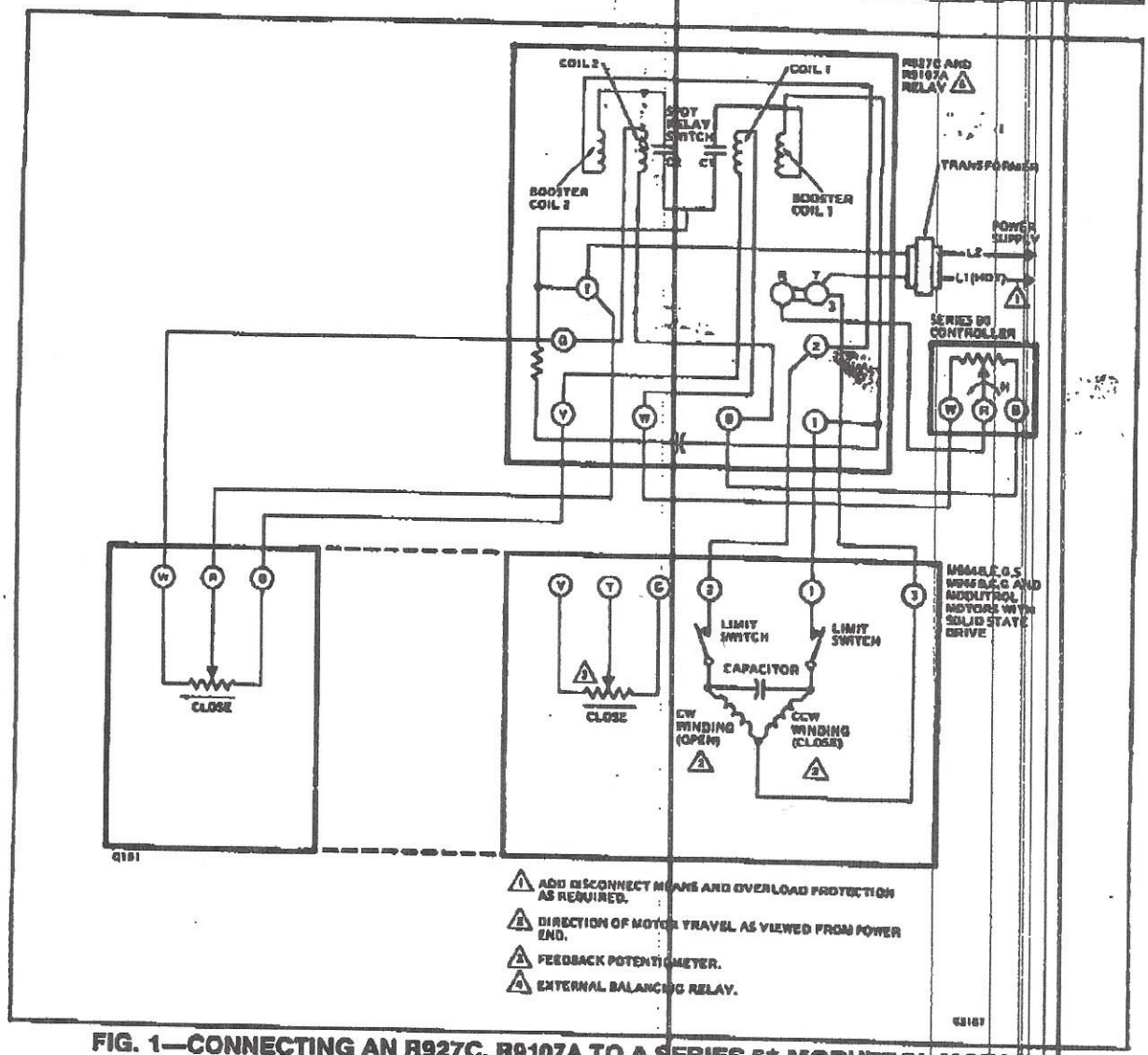


FIG. 1—CONNECTING AN R927C, R9107A TO A SERIES 6* MODUTROL MOTOR.

*Production Series 6 Modutrol motors can be identified by a bar code label with a number "6" following the model number. Example: "M944E1040 6."

S.P.
2-87●

60-A2292

Honeywell Inc.
1985 Douglas Drive N.
Golden Valley, MN 55422-4386

International Sales Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A.

PRINTED IN U.S.A.