Schematic/Electrical Parts
Milnor® Coin-operated
Washer-extractor
MCR09E5, MCR18E4

Read the separate safety manual before installing, operating, or servicing

PELLERIN MILNOR CORPORATION  POST OFFICE BOX 400, KENNER, LOUISIANA 70063-0400, U.S.A.
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MECMCR11AE/16076A

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PELLERIN MILNOR CORPORATION
LIMITED STANDARD WARRANTY

We warrant to the original purchaser that MILNOR machines including electronic hardware/software (hereafter referred to as “equipment”), will be free from defects in material and workmanship for a period of one year from the date of shipment (unless the time period is specifically extended for certain parts pursuant to a specific MILNOR published extended warranty) from our factory with no operating hour limitation. This warranty is contingent upon the equipment being installed, operated and serviced as specified in the operating manual supplied with the equipment, and operated under normal conditions by competent operators.

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will at our option repair or replace the defective part or parts, FOB our factory. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is repaired or altered in any way without MILNOR's written consent.

Parts damaged by exposure to weather, to aggressive water, or to chemical attack are not covered by this warranty. For parts which require routine replacement due to normal wear such as gaskets, contact points, brake and clutch linings, belts, hoses, and similar parts the warranty time period is 90 days.

We reserve the right to make changes in the design and/or construction of our equipment (including purchased components) without obligation to change any equipment previously supplied.

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THE PROVISIONS ON THIS PAGE REPRESENT THE ONLY WARRANTY FROM MILNOR AND NO OTHER WARRANTY OR CONDITIONS, STATUTORY OR OTHERWISE, SHALL BE IMPLIED.

WE NEITHER ASSUME, NOR AUTHORIZE ANY EMPLOYEE OR OTHER PERSON TO ASSUME FOR US, ANY OTHER RESPONSIBILITY AND/OR LIABILITY IN CONNECTION WITH THE SALE OR FURNISHING OF OUR EQUIPMENT TO ANY BUYER.
How to order repair parts

Repair parts may be ordered either from the authorized dealer who sold you this machine, or directly from the MILNOR factory. In most cases, your dealer will have these parts in stock.

When ordering parts, please be sure to give us the following information:

1. Model and serial number of the machine for which the parts are required
2. Part number
3. Name of the part
4. Quantity needed
5. Method of shipment desired
6. In correspondence regarding motors or electrical controls, please include all nameplate data, including wiring diagram number and the make or manufacturer of the motor or controls.

All parts will be shipped C.O.D. transportation charges collect only.

Please read this manual

It is strongly recommended that you read the installation and operating manual before attempting to install or operate your machine. We suggest that this manual be kept in your business office so that it will not become lost.

PELLERIN MILNOR CORPORATION
P.O. BOX 400, KENNER, L.A., 70063-0400, U.S.A.
FAX: Administration 504/468-9307, Engineering 504/469-1849, Service 504/469-9777
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HOW TO USE MILNOR® ELECTRICAL SCHEMATICS

Milnor® electrical schematic manuals contain a **table of contents/component list**, a **set of schematic drawings**, and a **signal routing table**. These documents are cross referenced and must be used together.

The **table of contents/components list shows**, for every component on every schematic in the manual, the **component item number** (explained in detail below), statement of function, parent schematic number, part number, description and electric box location.

The **schematic drawings** use symbols for each electro-mechanical component, and indicate the function of each. Integrated circuits are not shown, but the function of each microprocessor input and output is stated. Certain electrical components not pertinent to circuit logic, such as wire connectors, are not represented on the schematic but are shown in the signal routing table. **Most machines (manuals) require several schematics to describe the complete control system including all available options. However, this means that there are usually some schematics that do not apply to a specific machine.** Each schematic is devoted to circuits with common functions (e.g., microprocessor inputs, motor contactors). Schematics appear in the manual in analphabetic order.

The **signal routing table** assists in determining wire routing. It identifies each group of conductors in a control system connected with zero resistance. Groups are identified by a two or three character wire number. Each wire belonging to such a group of conductors has that group's wire number printed along the wire insulation. Although there are some exceptions, generally each group of conductors within the entire electrical system for a machine family has its own unique wire number. The signal routing table for the manual lists each wire alphanumerically by wire number and each component/pin number to which the wire is attached, including those not shown on the schematics (e.g., wire connectors). Milnor® document MSTS0202BE “HOW TO USE THE SIGNAL ROUTING TABLE” provides more information.

**Component Prefix Classifications and Descriptions**

The **component item numbers** consist of up to six characters and appear as part of a component's symbol on the schematic. The first two characters indicate the general class of component and the remaining characters are a mnemonic for the function. For example, “CD” is the code for all time delay relays and “SR” stands for safety reset. Thus, CDSR is a time delay relay that serves as a safety reset.

The following are descriptions of the electrical components used in Milnor® machines. Descriptions are in alphabetical order of the component class code (two character prefix).

**BA=Printed Circuit Board** Insulating substrate on which a thin pattern of copper conductors has been formed to connect discrete electronic components also mounted on the board.

**CB=Circuit Breaker** Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).
**CD=Control, Time Delay Relay** A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

**CL=Control, Latch Relay** A relay which latches in an energized or set position when operated by one coil (the *latch/set coil*). The relay stays latched, even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil, (the *unlatch/reset coil*).

**CR=Control, Relay** A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

**CP=Control, Photo-Eyes** Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a *transmitter, receiver, and output module*. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these components can be housed in *two separate assemblies* with the transmitter pointed directly at the receiver.

The photo-eye can be set to turn on its output either when the light beam becomes blocked (dark operate) or when it becomes unblocked (light operate).
CS=Control, Contactor/Motor Starter A relay capable of handling heavier electrical loads, usually a motor.

EB=Electric Buzzer An audible signaling device.

EC=Electric Clutch A clutch consists of a coil and a rotor. The rotor has two separate rotating plates. These plates are free to rotate independent of each other until the coil is energized. Once energized the two plates turn as one.

ED=Electronic Display A visual presentation of data, such as an LCD (liquid crystal display), LED (light emitting diode) display, or VFD (vacuum fluorescent display).

EF=Electric Fuse A fuse is an over-current safety device with a circuit opening fusible member which is heated and severed by the passage of over-current through it.

EL=Electric Light Indicator lights may be either incandescent or fluorescent.

EM=Electro Magnet Solenoid A device consisting of a core surrounded by a wire coil through which an electric current is passed. While current is flowing, iron is attracted to the core (e.g., a pinch tube drain valve solenoid).

ES=Electronic Power Supply A device that converts AC (alternating current) to filtered and regulated DC (direct current). The input voltage to the power supply is usually 120 or 240 VAC. The output is +5, +12, and -12 VDC.

ET=Thermal Overload A safety device designed to protect a motor. A thermal overload consists of an overload block, heaters, and an auxiliary contact. The auxiliary contact is normally installed in a safety (three-wire) circuit that stops power to the motor contactor coil when a motor overload occurs.

EX=Electrical Transformer A device that transfers electrical energy from one isolated circuit to another, often raising or lowering the voltage in the process.
**KB=Keyboard** Device similar to a typewriter for making entries to a computer.

**MN=Electronic Monitor (CRT)** A cathode ray tube used for visual presentation of data.

**MR=Motors** Electro-mechanical device that converts electrical energy into mechanical energy.

**MV=Motor (Variable Speed) Inverter** To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained.

The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the proper voltage and frequency for the commanded speed.

**NOTE:** Switch symbols used in the schematics and described below always depict the switch in its unactuated state.

**PX=Proximity Switch** A device which reacts to the proximity of a target without physical contact or connection. The actuator or target causes a change in the inductance of the proximity switch which causes the switch to operate. Proximity switches can be two-wire (AC) or three-wire (DC) devices.

**SC=Switch, Cam Operated** A switch in which the electrical contacts are opened and/or closed by the mechanical action of a cam(s). Applications include 35-50 pound timer operated machines, autospot, timer reversing motor assembly, and some balancing systems.

**SH=Switch, Hand Operated** A switch that is manually operated (e.g., Start button, Master switch, etc.).

**SK=Switch, Key Lock** A switch that requires a key to operate. This prevents unauthorized personnel from gaining access to certain functions (e.g., the Program Menu).

**SL=Switch, Level Operated** A switch connected to a float that causes the switch to open and close as the level changes.
**SM=Switch, Mechanically Operated** A switch that is mechanically operated by a part of or the motion of the machine (e.g., door closed switch, tilt limit switches, etc.)

**SP=Switch, Pressure Operated** A switch consisting of a diaphragm that pushes against a switch actuator.

**ST=Switch, Temperature Operated** A switch that is actuated at a preset temperature (e.g., dryer safety probes) or has adjustable set points (e.g., Motometers or Combistats).

**TB=Terminal Board** A strip or block for attaching or terminating wires.

**VE=Valve, Electric Operated** A valve operated by an electric coil to control the flow of fluid. The fluid can be air, water or hydraulics.

**ZF=Rectifier** A solid state device that converts alternating current to direct current.

**WC=Wiring Connector** A coupling device for joining two cables or connecting a cable to an electronic circuit or piece of equipment. Connectors are male or female, according to whether they plug into or receive the mating connector.
Component Terminal Numbering

NOTE: Numbers shown usually appear on the component.
Features of Milnor® Electrical Schematics

Document W6DRYG/SA shown on the next page, is part of an actual schematic for the Milnor® Gas Dryer. For the purposes of this instruction, the schematic is shown gray and explanations of the items on the schematic are shown black.

The item numbers below correspond to the circled item numbers shown on the drawing.

1. The first six characters of the drawing number (W6DRYG) indicate that this is a wiring diagram (W), identify the generation of controls (6), and identify the type of machine (DRYG=Gas Dryer). These characters appear in the drawing number of every schematic in the set.

The characters following the first six are unique to each drawing. The two characters identified as the page number are an abbreviation for the function performed by the depicted circuitry (S+=three-wire circuit) and establish the order in which the schematic occurs in the manual (schematics are arranged in alpha-numeric order in the manual).

Whenever circuitry changes are significant enough to warrant publishing a new schematic drawing, the new drawing number will be the same as the old except for the major revision letter (A in the example).

2. Included in the drawing title are the class of control system, the title of this circuit, and the circuit voltage.

3. Line numbers are provided along the bottom edge of the drawing. These permit service personnel in the field and at the Milnor® factory to quickly relate circuit locations when discussing troubleshooting over the phone. Page and line numbers are referenced on the drawing as explained in items five and six below.

4. General functions of the circuit or portions thereof are stated across the top edge of the drawing.

5. Relay contacts show the page and line number on which the relay coil may be found. This is the type of cross referencing most frequently used in troubleshooting.

6. Relay coils show the page and line number on which its associated contacts are located.

7. Relay contacts and relay coils show the physical location of the relay if mounted on a tray.
The designation *MTA* applies to electronic circuit board connections. Typically, a control system will contain several different types of circuit boards and one or more boards of each type. A numerical suffix identifies the board type and a numerical prefix identifies which one of several boards of a given type is being depicted. For example, the designation *MTA5* identifies this as the first I/O board (8 output, 16 input board) in the control system. As shown on the drawing, a pin number follows the board number, separated by a dash. Thus, *MTA5-9* is pin 9 on this board. The numerical designations for board types vary from one control system to another. Some of the board types commonly encountered on the Mark II washer-extractor control and their designations are as follows:

MTA1-MTA6 = 8 output, 16 input (8/16) boards.

MTA1-MTA6 = 8 output, 16 input (8/16) boards.

MTA11-MTA16 = 16 output boards

MTA30-MTA40 = processor boards

MTA41-MTA43 = digital to analog (D/A) boards

MTA51-MTA56 = analog to digital (A/D) boards

The complete listing of the boards utilized in a given control system can be found in the component list for that system.

The wire numbers, as described in the explanation of the signal routing table at the beginning of this section, are shown at appropriate locations on the schematic drawing.

Where diamond symbols appear at the end of a conductor, these are match points for continuing the schematic on another drawing. The page and line number that continues the circuit is printed adjacent to the diamond symbol. Where more than one match point appears on the referenced page, match diamonds containing corresponding letters.
5. This indicates on which page
(W6DRYGS+) and line number
(08) the relay coil can be found
for this set of contacts.

6. This indicates on which
schematic page and line
number the relay contacts
of this coil (on line 08)
are located.
(I.E. W6DRYGS+, LINES 9 & 11)

NORMALLY
CLOSED
CONTACTS

NORMALLY
OPEN
CONTACTS

7-1 CONTACT — S+09
8-2 CONTACT — S+09
9-3 CONTACT — S+09
V-O CONTACT
IF 14 PIN RELAY

INDICATES CONTACT IS NOT USED

INDICATES LINE IN WHICH
CONTACT IS LOCATED

INDICATES DRAWING ON WHICH
CONTACT IS LOCATED

7. If relay is located on a relay tray
this is the physical location on
the tray. Row and column numbers
or shown on the appropriate
control box tag.

10. See W6DRYGS+ line 02

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HOW TO READ MILNOR ELECTRICAL SCHEMATICS

1. PAGE NUMBER (S+);
2. TITLE OF THIS CIRCUIT
3. VOLTAGE OF CIRCUIT SHOWN
4. WIRE IDENTIFICATION MARKING. THIS DESIGNATION IS STAMPED ON THE WIRE EVERY 6". THIS MARKING IS USED IN CONJUNCTION WITH THE SIGNAL ROUTING TABLE.
5. CLASS OF CONTROL SYSTEM
6. TYPE OF MACHINE (GAS FIRED DRYER)
7. 6TH GENERATION OF CONTROLS
8. MAJOR REVISION (LETTER)
9. BOARD MTA GROUP DESIGNATION
10. AN MTA IS A CONNECTION ON AN ELECTRONIC CIRCUIT BOARD. THE NOTES AND THE TAG PAGE CAN LOCATE THE APPROPRIATE BOARD.
11. MASS TERMINATION ASSEMBLY MTA DESIGNATION ON BOARD
12. PIN NUMBER

NOTES:
1. TBL IS LOCATED IN LEFT CONTROL BOX
2. TBA IS LOCATED IN RIGHT CONTROL BOX
3. TBX IS LOCATED IN LEFT CONTROL BOX
4. MTAS IS LOCATED ON 360 (6 OUTPUT-16 INPUT BOARD)
5. REMOVE SET SHUT OPTION IF DRYER HAS VALVE SET

PELLERIN MILNOR CORPORATION
24V1P50HZ/24V1P60HZ
WDRYGE-A
WDRY250-A

PAGE LINE NUMBERS
FIGURE A
3.000

FIGURE B
3

FIGURE C
2.000

FIGURE D
1.1\sqrt{3}

FIGURE E
2\sqrt{3}

THIS WINDING CAN ONLY BE USED ON INTERMITTENT DUTY MOTORS OR HARD START APPLICATIONS. CONSULT FACTORY BEFORE USING THIS WINDING.

BMP850029
MOTOR CONNECTION DIAGRAMS
THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
(ONLY FOR MOTOR SUFFIXES LISTED)
PELLERIN MILNOR CORPORATION
WIRE COLOR CODE

<table>
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<td>A.C. SOURCE</td>
<td>09V165A</td>
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<td>RED</td>
<td>A.C. CONTROL / A.C. COMMON</td>
<td>09V53C18RD</td>
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<tr>
<td>BLUE</td>
<td>VGC / D.C. GROUNDS / D.C. SIGNALS</td>
<td>09V53C18BB</td>
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<td>-104</td>
<td>GROUND</td>
<td>09V53C18Y</td>
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<td>YELLOW/GREEN</td>
<td>SHELDDED CABLE</td>
<td>09V300A02</td>
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NOTES
1. 1MTA1, 1MTA2, 1MTA3 AND 1MTA4 LOCATED ON BASP PROCESSOR BOARD.
2. 2MTA1 AND 2MTA2 ARE LOCATED ON BASP SWITCH PANEL BOARD.

WCMW1BW
MCW SERIES, COIN OPERATED
SCHEMATIC: BOARD TO BOARD WIRING
PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17 18 19
WCMW1 CV
MCR SERIES, COIN OPERATED
SCHEMATIC: FLUSHING SUPPLIES AND VALVES
220V1P50HZ/240V1P60HZ
PELLEPIN MILNOR CORPORATION
WCMW1S+
MCR SERIES, COIN OPERATED
SCHEMATIC: START CIRCUIT & DOOR INTERLOCK
220V, 1P, 50HZ/240V, 1P, 60HZ
PELLERIN MILNOR CORPORATION