Enodis®
One Company, Countless Solutions

DOUBLE-TANK RACK CONVEYOR DISHMACHINE

SERVICE MANUAL

FOR JACKSON MODEL:

MODEL 64/86 C/RPW

Jackson
An Enodis Company

January 19, 2004
P/N 7610-100-40-00 (Revision C)

www.jacksonmsc.com

INDEX

SPECIFICATIONS

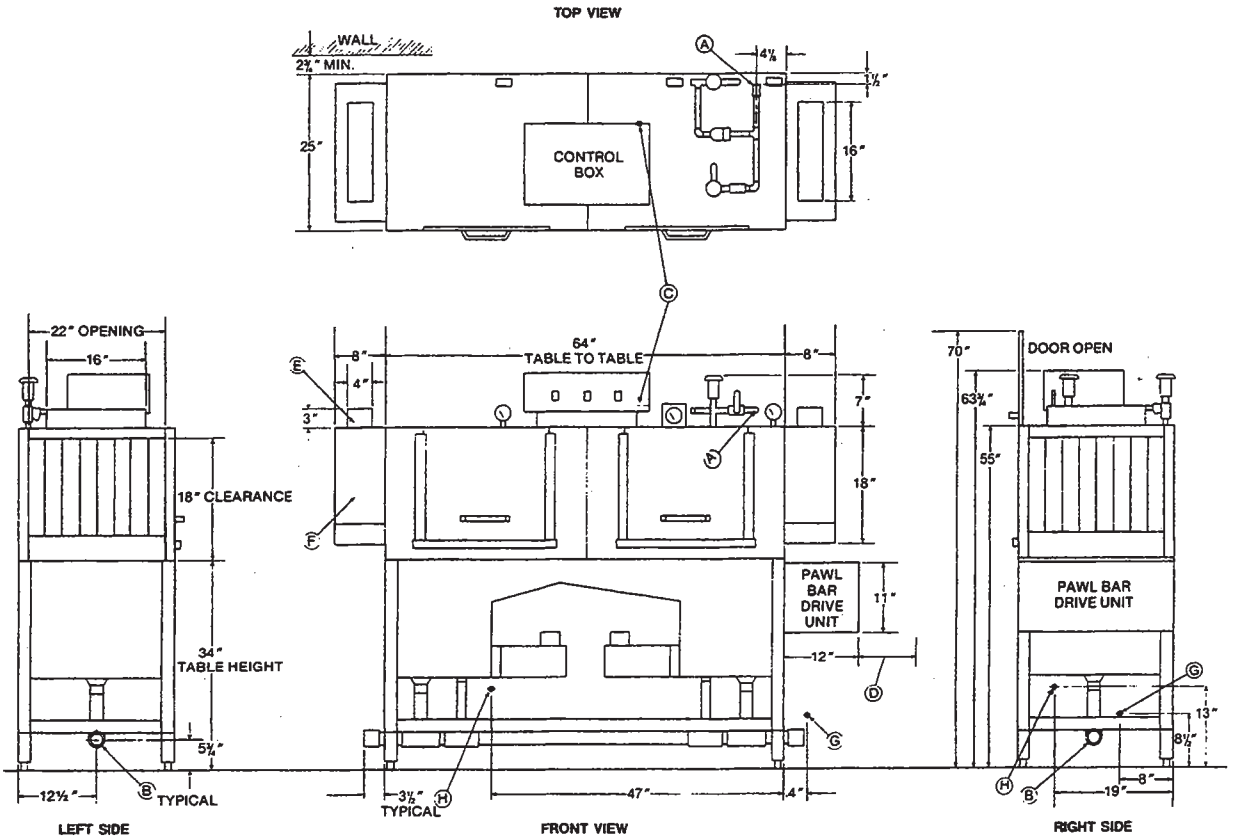
	Model 64C	Model 86CRPW
OPERATING CAPACITY (NSF RATED)		
Racks per hour	239	239
Dishes or glass per hour	5975	5975
REQUIREMENTS		
Flow pressure	20 PSI	20 PSI
Pre-wash tank temperature (maximum)		120°F
Wash tank temperature (minimum)	150°F	150°F
Recirculated rinse tank temperature (minimum)	160°F	160°F
Final fresh water rinse temperature (minimum)	180°F	180°F
Incoming water pipe size — machine	½" IPS	½" IPS
Incoming water pipe size — pre-wash		½" IPS
Drain pipe size	2" IPS	2" IPS
Maximum water usage (final rinse flow rate)	3.8 GPM	3.8 GPM
DIMENSIONS		
Length — between dishtables	64"	86"
Width	25"	25"
Height — door closed ± ½"	63¾"	63¾"
Height — door open ± ½"	70"	70"
Standard table height ± ½"	34"	34"
Maximum dish clearance	18"	18"
TANK CAPACITIES		
Pre-wash tank		14 Gals.
Wash tank	18 Gals.	18 Gals.
Rinse tank	18 Gals.	18 Gals.
PUMPS AND MOTORS		
Pre-wash motor		½ HP
Pre-wash pump capacity		80 GPM
Wash motor	1 HP	1 HP
Wash pump capacity	175 GPM	175 GPM
Recirculating rinse motor	1 HP	1 HP
Recirculating rinse pump capacity	175 GPM	175 GPM
Conveyor motor	¼ HP	¼ HP
Conveyor speed (feet/minute)	6.56	6.56
ELECTRIC HEAT (WHEN SPECIFIED)		
Wash tank	10 KW	10 KW
Rinse tank	13 KW	13 KW
STANDARD RACKS		
Dish racks 19¾" × 19¾"	3	3
Combination racks 19¾" × 19¾"	1	1
SHIPPING WEIGHT (APPROX.)	750 LBS.	850 LBS.
SHIPPING DIMENSIONS (L × D × H)	120" × 40" × 72"	120" × 40" × 72"
CUBIC FEET	222 ft.³	222 ft.³

ELECTRICAL REQUIREMENTS: 208V/60 HZ/1 or 3 phase
230V/60 HZ/1 or 3 phase
380V/60 HZ/3 phase
460V/60 HZ/3 phase
50 HZ also available in these voltages

Model	Approximate Total Load Amperes			
	Electric Tank Heat		Steam Tank Heat	
64C	1-Phase	3-Phase	1-Phase	3-Phase
208 Volts	129.1	82.4	18.5	18.5
230 Volts	118.1	75.9	18.1	18.1
380 Volts	N/A	46.3	N/A	11.3
460 Volts	N/A	37.1	N/A	6.9

Model	Approximate Total Load Amperes			
	Electric Tank Heat		Steam Tank Heat	
86CRPW	1-Phase	3-Phase	1-Phase	3-Phase
208 Volts	133.4	86.7	22.8	22.8
230 Volts	122.4	80.2	22.4	22.4
380 Volts	N/A	48.3	N/A	13.3
460 Volts	N/A	39.3	N/A	9.1

All specifications subject to change without notice.

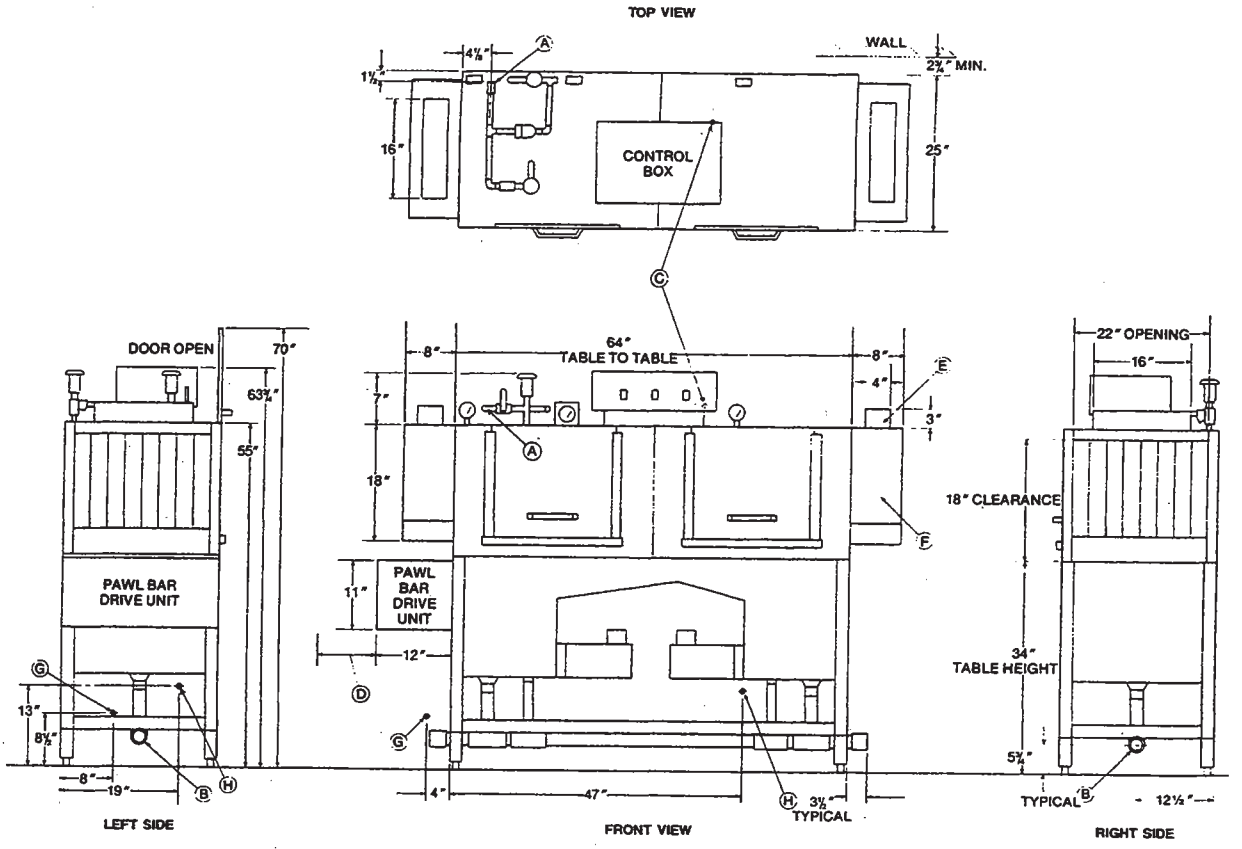


64CE LEFT TO RIGHT

LEGEND

A — MACHINE WATER INLET ½" I.P.S. 180ºF MIN.
B — DRAIN CONNECTION 2" I.P.S. DRAIN CAN BE CONNECTED TO EITHER END.
C — ELECTRICAL CONNECTION.
D — ALLOW 12" FOR REMOVAL OF PAWL BAR DRIVE UNIT COVER.
E — VENT COLLAR 4" x 16" x 3" TALL, OPTIONAL.
F — VENT COWL, STANDARD.
*G — INCOMING STEAM CONNECTION, OPTIONAL. ¾" FPT. (GATE VALVE SUPPLIED.)
*H — CONDENSATE RETURN CONNECTION ¾" FPT. (RETURN TO BOILER OR OPEN DRAIN.)

*STEAM TANK HEAT ONLY



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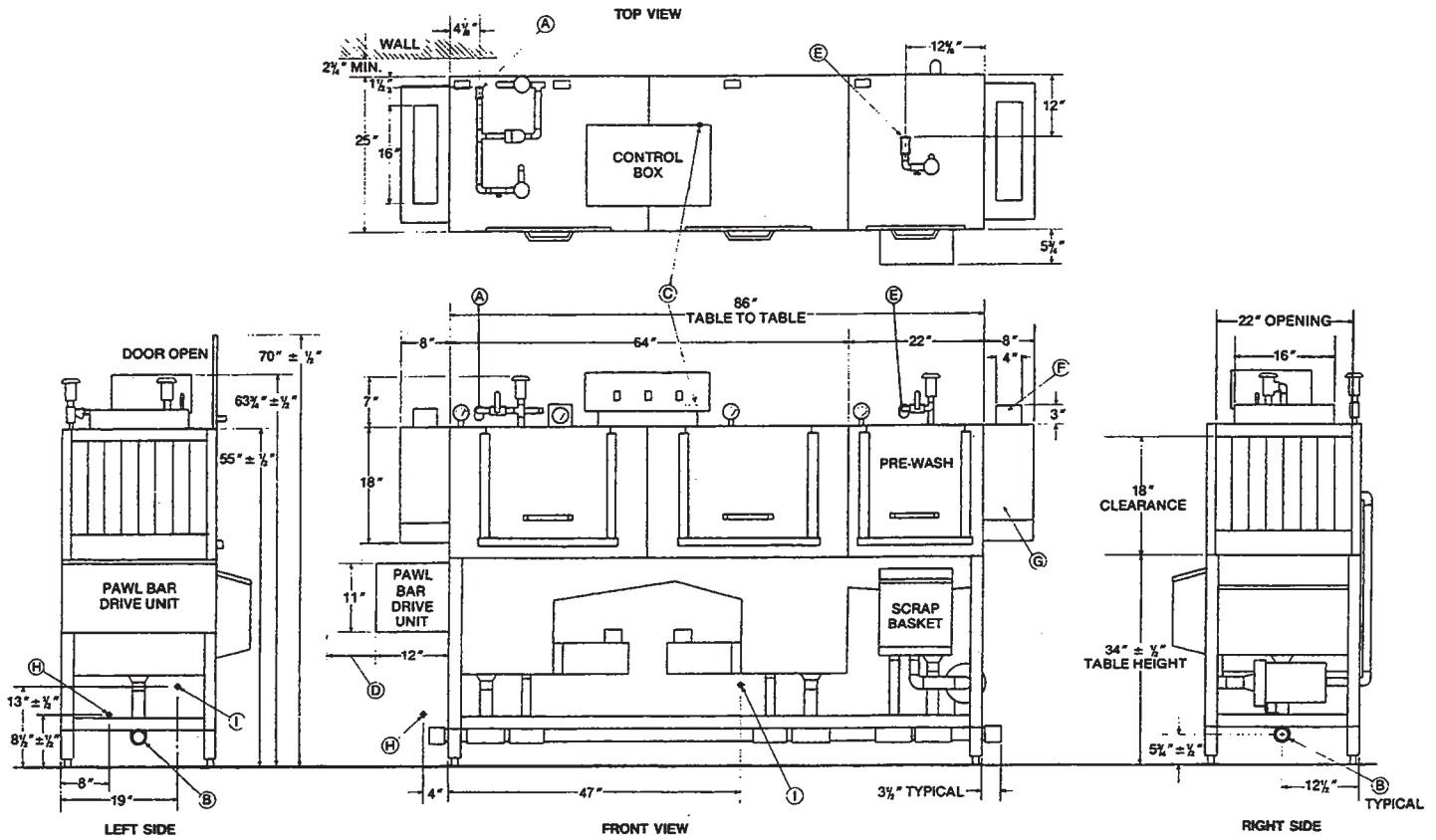
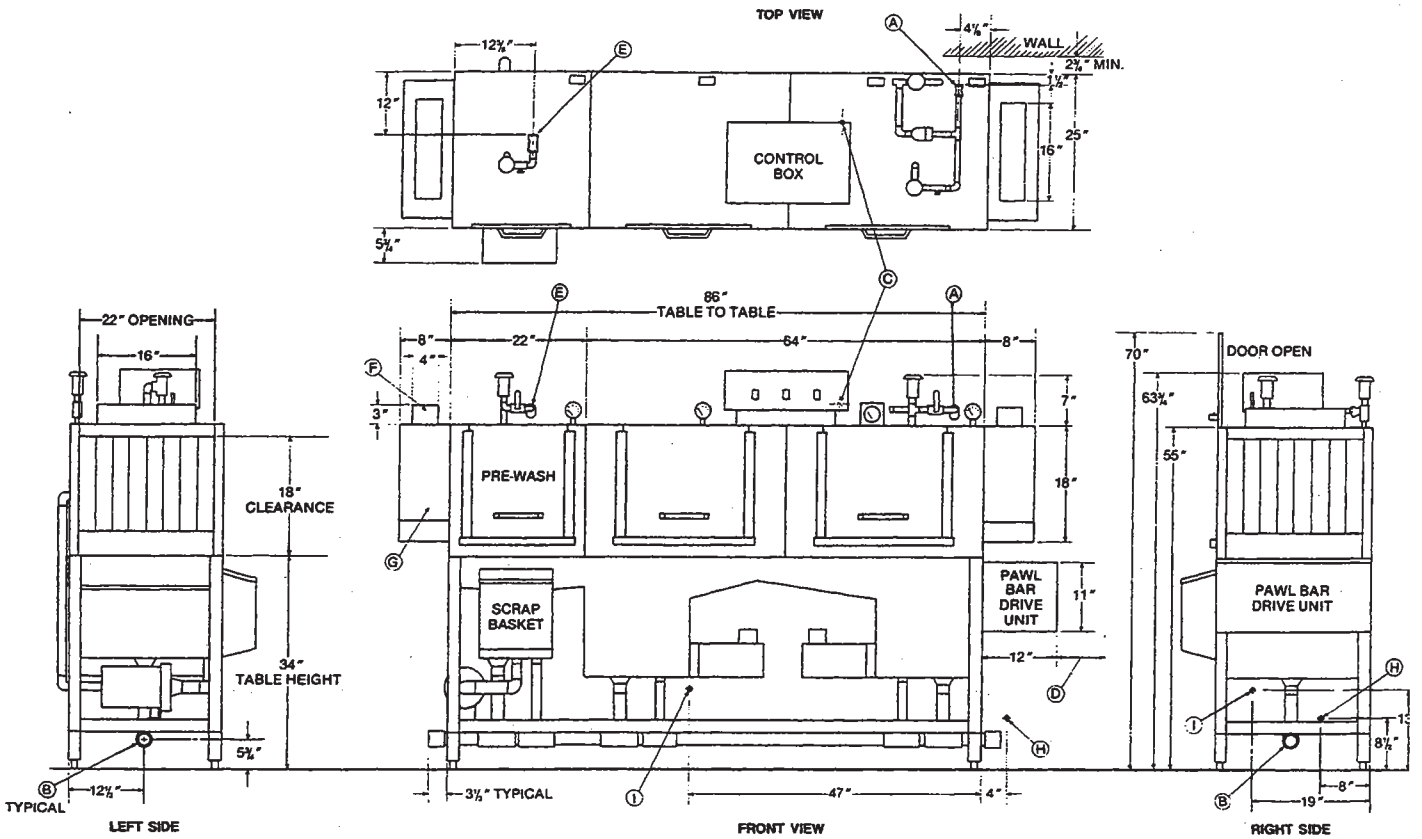


86CERPW RIGHT TO LEFT

LEGEND

A — MACHINE WATER INLET ½" I.P.S. 180°F MIN.
B — DRAIN CONNECTION 2" I.P.S. DRAIN CAN BE CONNECTED TO EITHER END.
C — ELECTRICAL CONNECTION.
D — ALLOW 12" FOR REMOVAL OF PAWL BAR DRIVE UNIT COVER.
E — PRE-WASH WATER INLET ½" I.P.S. 140°F.
F — VENT COLLAR 4" x 16" x 3" TALL, OPTIONAL.
G — VENT COWL, STANDARD.
*H — INCOMING STEAM CONNECTION, OPTIONAL. ¾" FPT. (GATE VALVE SUPPLIED.)
*I — CONDENSATE RETURN CONNECTION ¾" FPT. (RETURN TO BOILER OR OPEN DRAIN.)

*STEAM TANK HEAT ONLY



86CERPW LEFT TO RIGHT

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A — MACHINE WATER INLET ½" I.P.S. 180°F MIN.
B — DRAIN CONNECTION 2" I.P.S. DRAIN CAN BE CONNECTED TO EITHER END.
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*STEAM TANK HEAT ONLY

GENERAL INSTRUCTIONS
(INSTALLATION for 64C/86CRPW)

Note: Read the following instructions carefully. Proper installation of your Jackson Dishwasher will assure proper machine operation.

1. Open the front doors and hook open. Remove dish, cup, and glass racks and set aside for later use. Remove the tape holding the overflow tubes, the pump intake strainers, and the wash and recirculating rinse tubes that are in the machine.
2. Cut the straps holding the machine to the base of the crate. Ease the machine on to the floor and slide into place of installation.
3. Remove the plug provided on either end of the drain plumbing (whichever side is convenient), and connect the drain (2″ female IPS) with the proper slope to conform with local and/or national codes. Drain is a gravity feed system from the machine.
4. Connect incoming ½″ water line with capacity to supply 3.8 gallons per minute at 20 PSI flow pressure and at a temperature of 180ºF minimum. For the 86CRPW, another ½″ water line must be connected to the pre-wash section to supply 140ºF. These connections are just before the Y-strainer on top of the machine. Make connections to conform to local and/or national codes.
5. Electrical connections should be made through the hole in the back of the control box to the terminal board on the back right-hand side. This terminal board is accessible by removing the control box cover. The terminals are marked L1, L2 (single-phase), or L1, L2, L3 (three phase). Be sure all connections conform to local and/or national codes. Refer to data plate for voltage and amperage totals.
6. **DO NOT APPLY POWER UNTIL STEP 9!!!!**
7. Make sure drains are closed and the curtains are in place. The long curtains go on the outside of the vent cowls. The short curtains go on the inside of the vent cowls. A medium curtain goes between the pre-wash and wash tanks. A long curtain goes between the wash and recirculating rinse tanks. A short curtain goes between the recirculating rinse and final rinse.
8. Turn lever operated drains (if so equipped) to the closed position. Turn on hand valves controlling water supply to machine. Check for any leaks in the plumbing.
9. To energize electrically, proceed as follows:
   a. Turn on customer's circuit breaker controlling the machine.
   b. Check voltage at the incoming terminals L1, L2, and L3 (if applicable). It should match the data plate voltage. Voltage at L1 and L2 should be checked to ground individually to ensure that a high (or wild) leg is not connected to L1 or L2.
   c. If voltages are in the required range, turn on the 20-amp circuit breaker. The 20-amp circuit breaker protects the control circuits only; it is not meant to protect the wash and recirculating rinse heaters or motors.
10. a. Turn fill handle(s) on the top of the machine to supply the unit with water. When the required level is reached, turn the fill handle(s) back to the original position. Open the doors and check the water level. It should be within ¼″ below the overflow level.
    b. If unit is equipped with the Auto-Fill option, fill by turning on the power switch and pushing and releasing the Auto-Fill Switch. (**Warning:** If unit does not continue to fill when switch is released, **immediately** turn power switch off. Clean probes located in wash tank [and pre-wash, if 86CRPW] and try again. If problem persists, call service agency.) Fill will shut off automatically when proper level is reached.
11. When the water has reached the proper level, close the doors and turn on the power switch. The heaters are in the wash and recirculating rinse tanks. They are utilized to maintain the wash water temperature at 150ºF, and the recirculating rinse water temperature at 160ºF.
12. Turn the manual switch on by pushing and releasing the momentary side of the switch. This will activate a hold circuit and the pumps, conveyor, and final rinse will come on and run continuously. Turn manual switch off.
13. Turn the auto switch on by pushing and releasing the momentary side of the switch. This will activate a hold circuit, but nothing will come on until a rack is inserted into the machine. Insert rack into the soiled side of the machine. The pumps, conveyor, and final rinse will come on. Allow the rack to travel all the way through the unit. The pumps, conveyor, and final rinse will shut off automatically when the rack leaves the unit.

14. The unit is now ready to proceed with the washing of dishes in accordance with the operating instructions.

Note: As the racks leave the unit, do not allow them to accumulate more than three in a row.

GENERAL INSTRUCTIONS
(OPERATION of 64C/86CRPW)

Note: Read instructions carefully. Proper operation of your Jackson Dishwasher will asssure clean and sanitized glasses and dishes at optimum efficiency.

Dish Preparation:

1. Scrape the dishes thoroughly.
2. Pre-rinse the dishes by soaking or by spraying off with a pre-rinse hose.
3. Place the dishes and cups in the dish rack with the cups upside down.
4. Place the glasses and silverware in the combination glass-silverware rack with the glasses upside down. Scatter the silverware loosely on the bottom of the rack. DO NOT put glasses on top of the silverware.
   Note: When the silverware is in any upright position, it washes and rinses better than lying flat. These compartment silverware racks are available through your dealer or service agency.

Machine Operation:

1. Open the doors and insert pump intake strainers, overflow tubes, pan strainers, and the upper and lower wash and rinse tubes.
2. Make sure drains are closed and the curtains are in place. The long curtains go on the outside of the vent cowls. The short curtains go on the inside of the vent cowls. A medium curtain goes between the pre-wash and wash tanks. A long curtain goes between the wash and recirculating rinse tanks. A short curtain goes between the recirculating rinse and final rinse.
3. Close the doors.
4. a. Turn on the fill valve handle(s) on top of the unit. When the proper level is reached, turn off the fill valve(s).
   b. If the unit is equipped with the Auto-Fill option, fill by turning on the power switch and pushing and releasing the auto fill switch. (**Warning:** If unit does not continue to fill when switch is released, **immediately** turn power switch off. Clean probes located in wash tank [and pre-wash, if 86CRPW] and try again. If problem persists, call an authorized service agency.) Fill will shut off automatically when proper level is reached.
5. Turn on the power switch and allow the wash and rinse water to reach proper temperature (wash 150ºF, recirculating rinse 160ºF).
6. Select either automatic mode or manual mode. In the manual mode, the dishwasher will run continuously. In the automatic mode, the dishwasher will run only when a rack of dishes is in the machine. Activate desired mode by pushing the proper mode switch to the momentary position and releasing. Make sure the opposite mode switch is in the 'off' position.
7. Slide in a rack of dirty dishes. If machine is in the automatic mode, the rack will activate the paddle switch, and the machine will remain on long enough for the rack to pass through. Then, the unit will shut off. Each successive rack will reset the cycle. This is an energy-saving feature when intermittent use is required rather than continuous use.
8. When the rack leaves the other end of the machine, it should be removed and not allowed to accumulate more than three racks on the table. Failure to remove the racks could result in damage to the conveyor system. (If so equipped, accumulated racks will open the table limit switch which will shut down the machine until the racks are removed.)
9. At the end of a meal period, shut off the power switch. Drain the unit by operating the drain valves (if so equipped) or by removing the overflow tubes. Clean all the strainers and flush out the unit.

GENERAL INSTRUCTIONS

(PREVENTIVE MAINTENANCE for 64C/86CRPW)

(To be performed as needed.)

Note: Read carefully. Proper maintenance of your Jackson Dishwasher will ensure optimum service with a minimum of down time.

1. **Remove all lime and corrosion deposits.**
   a. Fill the machine with water as normal.
   b. Open doors and place de-liming compound into the wash and rinse water in accordance with the directions on the label. (Both tanks hold 18 gallons.) Close doors.
   c. Turn on the machine in the manual mode and allow to run for 5 minutes.
   d. Turn off the machine, open doors and inspect the interior. All lime should be removed and parts should appear shiny. If not, allow to run for a longer period.
   e. When the interior of the machine is clean, drain the water and refill.
   f. After refilling, allow machine to run for 2 minutes and drain again.
   g. Refill machine and resume normal operation.

2. **Clean strainers (every meal period or more).**
   a. Turn off unit and drain water.
   b. Remove and clean all strainers thoroughly.
   c. Replace strainers and refill machine. Resume normal operation.

3. **Clean wash and rinse tubes.**
   a. Remove wash and rinse heads by lifting the holding clip and sliding out.
   b. Remove end plugs by unscrewing.
   c. Flush tubes with water until clean.
   d. Reassemble and replace.

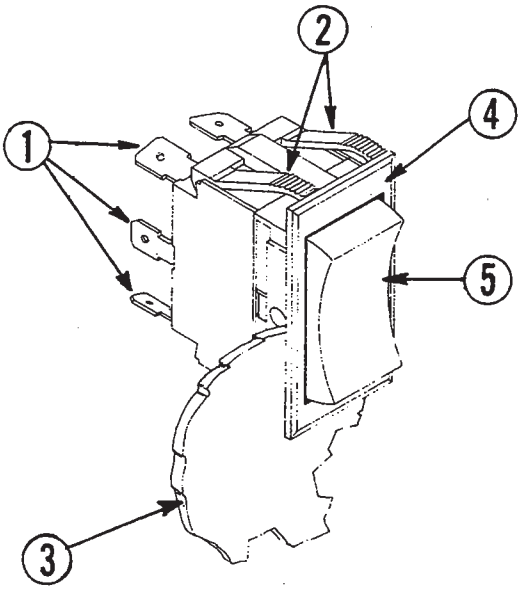
4. **Clean final rinse heads.**
   a. Remove end plugs.
   b. Clear spray nozzles using a pointed tool.
   c. Close doors and activate cycle momentarily.
   d. Replace end plugs.

5. **Clean Y-strainer on incoming water line.**
   a. Turn off water to the machine.
   b. Relieve line pressure by opening fill valve.
   c. Remove plug and strainer. Clean using a brush and de-limer.
   d. Replace strainer and plug.

6. **Clean exterior of the machine using a stainless steel polish.**

REPLACEMENT of SWITCHES in CONTROL PANEL

1. CONNECTION TERMINALS
2. RETAINING CLIPS
3. FRONT PANEL
4. SWITCH BEZEL
5. ROCKER BUTTON



There are three switches installed in the control box front panel. These are the power, automatic wash and manual wash switches.

Before working on the machine, it is important that power be turned off at customer's circuit breaker. To prevent the possibility of electrical shock, trip breaker to "off" position. Then turn the machine breaker located on the right side of the power box to "off".

Remove the cover from the control box by unlocking latch and lifting off cover.

If a switch is found to be defective, insert a new one into the cutout in the control box. Replace the wires from the used switch, terminal by terminal, onto the new switch.

Power can now be applied to the dishwasher and run through cycles checking all operations.

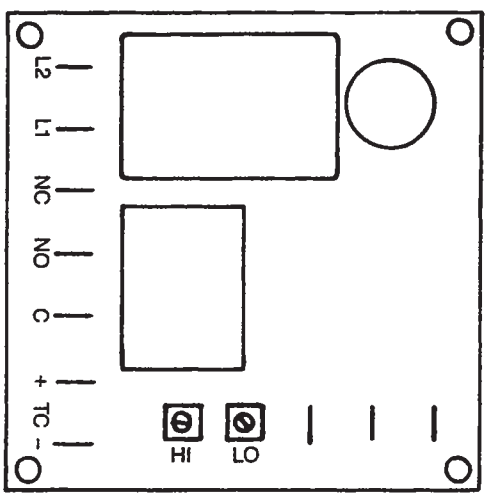
THERMOSTAT

The electronic thermostat can be adjusted on both the 'HI' (off) setting, and the 'LO' (on) setting by use of the corresponding control pot. Turning the control pot counterclockwise (CCW) will lower the setting. Clockwise (CW) will raise the setting. When adjusting the thermostat, adjust the 'HI' setting first.

To Adjust the Thermostat:

1. Fill unit with water, then turn the power switch "on".
2. Allow the water to reach the desired 'HI' (or turn off) temperature. This temperature should be approximately 160°F for the wash, or 170°F for the power rinse. (It may be necessary to turn 'HI' control pot CW all the way to stop in order to prevent heaters from shutting off before temperature is reached.)
3. When desired temperature is reached, slowly turn 'HI' control pot CCW until relay cube clicks "off" (N.C.).
4. Turn the 'LO' control pot CCW all the way to stop.
5. Turn on the manual wash and allow the unit to run until water temperature reaches the desired 'LO' (or turn on) temperature. This temperature should be approximately 153°F for wash, and 163°F for power rinse.
6. Turn the 'LO' control pot CW until relay cube clicks "on" (N.O.).

Note: If relay will not operate, check power to thermostat. Thermostat can be tested by placing jumper wire across T.C. terminals, bypassing thermocouple.



WASH TANK and RINSE TANK HEATER SYSTEM

Function:

The wash and rinse tank heater system are electrically connected in the circuit so that they are dependent upon the dishwasher being properly filled with and maintaining a safe water level.

The circuits are controlled by a power switch (mounted on the front control panel), two thermostats (mounted in the junction box behind the lower front panel), two water level controls (mounted in the control box), and two heater relays (mounted in the control box), with the coils being activated by the thermostats.

Indicators of Possible Malfunction:

Once the machine has been properly filled, the heat circuit should operate by merely turning on the power switch. Should the tank heat, be it either too high, too low, or no indication of temperature at all, the following checkouts should be made.

Checkout the Heater System for Tank (Refer to drawing, figure 1):

Note: The following checkouts should be done by a qualified service person or electrician.

1. If temperature is too high, adjust thermostat, using thermostat instructions in this manual.
2. If temperature is too low, adjust thermostat as above, then:
   a. Turn off power to machine by tripping customer's circuit breaker to "off" position. Turn off machine circuit breaker located on right side of power box.
   b. Remove cover from control box on top of machine.
   c. Make sure water temperature is below 140°F (preferably about 130°F).
   d. Turn on both circuit breakers. Observe heat relay (3 or 4 pole, mounted lower left inside power box) while power switch is turned "on" and "off". If relay contacts move in and out, heat relay is ok; if not, proceed to "A".

If Heat Relay Closes:

1. Check power supply at incoming terminal board L1, L2, L3. It should be data plate voltage across each leg.
2. Check power at positions 4, 5, and 6, figure 1. It should be data plate voltage. If not, check wires for breaks or bad connections.
3. Check power at positions 7, 8, and 9. It should be data plate voltage. If not, check wires for breaks or bad connections.
4. Temperature should rise as explained in "A-1", and amperages may be checked according to those instructions. Replace any defective elements.

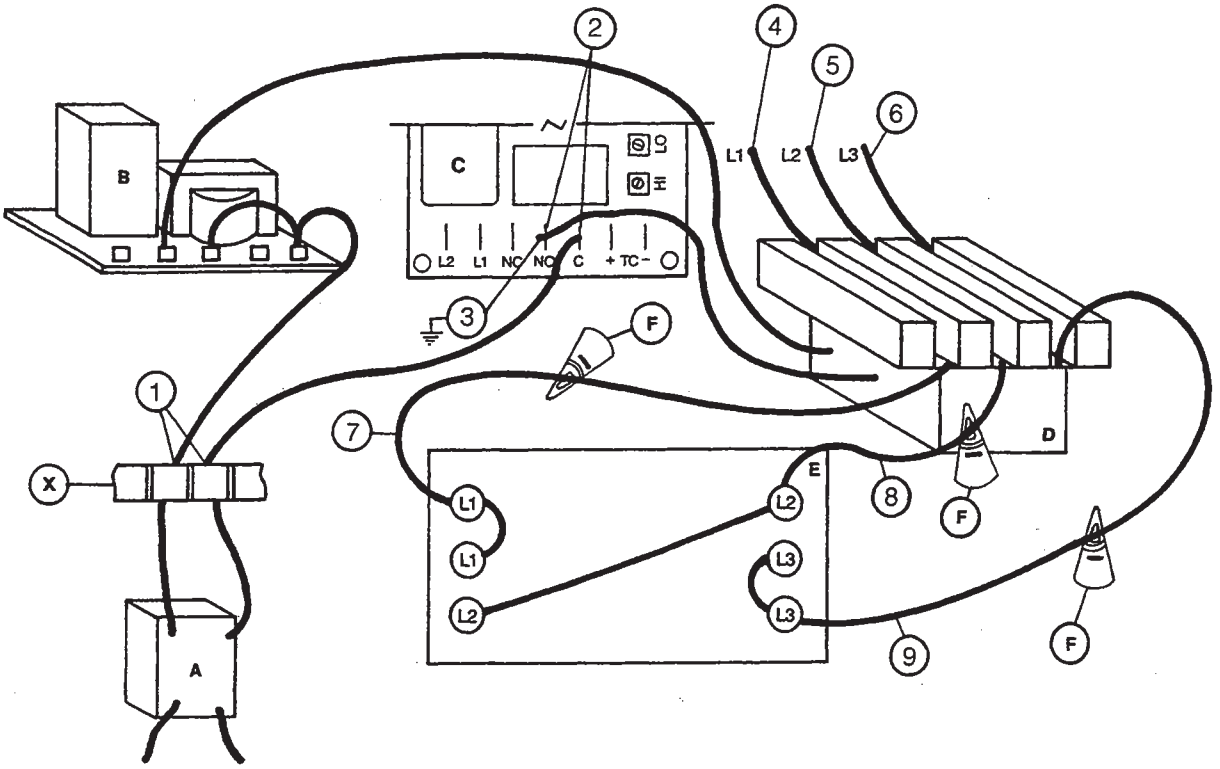


FIGURE NO. 1 HEATER SYSTEM 3-PHASE

A. POWER SWITCH
B. WATER LEVEL CONTROL
C. THERMOSTAT
D. HEATER RELAY
E. TANK HEATERS
F. AMPROBE TEST POSITION
X. TERMINAL BOARD (TERMINALS)

A. **If Heat Relay Does Not Close:**

1. There is an insulated movable bar on the relay across the top of the contacts. With insulated probe, depress this bar and observe the thermometer; the temperature should rise noticeably in a minute or two. If it moves slowly, it would indicate that the element is faulty. If it moves constantly higher at a good rate, elements should be ok.

2. With power switch on:
   a. Check position 1, figure 1. Voltage should be 220V; if not, checkout power switch and replace if necessary.
   b. Check position 2; there should be no voltage. If there is, readjust thermostat per thermostat adjustment instructions.
   c. Check position 3; voltage should be approximately 120V to ground.
   d. If voltage being applied on positions 1, 2, and 3 checks out okay, then the relay should be replaced. Coil is probably defective.

Note: A check with an amp probe at positions shown in figure 1 can be made. The amp draw on each leg should be appropriate for the voltage and phase as indicated by the data plate.

WATER LEVEL CONTROL
(ELS HEAT CIRCUITS)

This control is activated when the power switch is turned on. The primary function is to automatically activate the wash and rinse tank heat circuit. It will also provide cutoff of the wash and rinse heat circuit, should the water be accidentally drained from the machine (with the power switch still on). The power switch should always be turned off before draining.

This water level control is used in conjunction with two probes (sensors), power switch, thermostats, and heat relays.

When the power switch is turned on, the normally closed circuit in the plug-in relay is energized.

As the water rises in the wash and rinse tubs it will cover the probe (directly above wash element). At this time, the plug-in relay coil will be activated and open the normally closed contacts. Simultaneously, the contacts will close on the normally open circuit, energizing the wash and rinse heat circuits. (Checkout and information concerning that part of the circuit are in the wash heater system or rinse heater system instruction page of this manual.)

If the water should be drained from the machine while the power switch is still on, the probe will sense the lack of water and de-energize the plug-in relay, which will de-energize the wash and rinse heat circuit. DO NOT DEPEND ON THIS — always turn power switch off before draining.

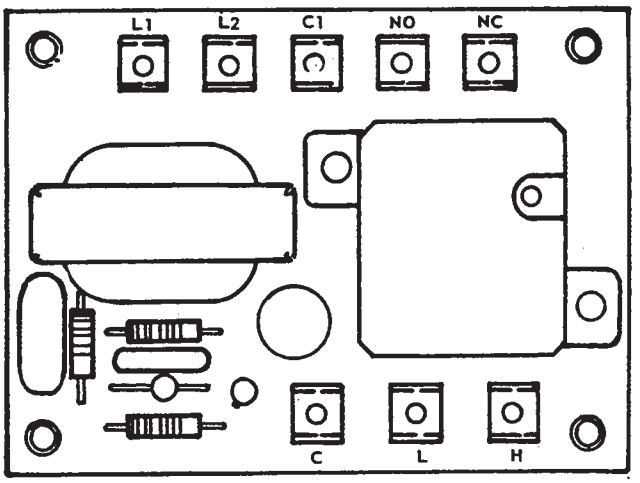
Symptoms of Level Control Failure:

1. Wash or rinse heat circuit does not activate.
2. Wash heater remains on (if wash water emptied with power switch on).
3. Rinse heater remains on (if rinse water emptied with power switch on).

Proceed with Checkout:

1. Remove power to machine by turning customer's circuit breaker to its "off" position. Turn machine circuit breaker, located on right side on power unit box, to "off."
2. Remove cover to control box.
3. Locate malfunctioning water level control board and disconnect wires going to terminals marked C, H, and L. Mark and insulate wires for replacement.
4. Be sure affected tank is empty and power switch is off. Carefully reapply power to machine. Begin by turning power switch on. With an insulated jumper wire, touch jumper between terminals C & H; relay in clear plastic cube should activate as wire is touched to terminals. Observe relay contacts — they should pull in. If they do, remove wire and they should return to original position. Repeat several times to verify action. Reconnect wires removed.
5. If relay operates, the control can be deemed operational and other causes should be explored.
   EXAMPLES:
   1. Loose or broken wire to probe or ground (green wire).
   2. Dirty probe(s).
   3. Thermostat faulty or needs adjustment. (See instruction page concerning thermostat.)
   4. Wash element faulty. (See instruction page concerning wash-heat checkout.)
   5. Rinse element faculty.
6. If relay does not operate, check voltage being applied to L1 - L2 marked on control. It should be 208-230V. Replace control, if necessary.

7. In any case, always locate sensor (probes) inside wash tub and clean off all deposits. (Instruct customer; this should be at least a weekly project.)
8. Remove power to machine and replace panel and any wires that were not replaced previously.



SERVICE INSTRUCTIONS
(INCOMING WATER SOLENOID VALVE)

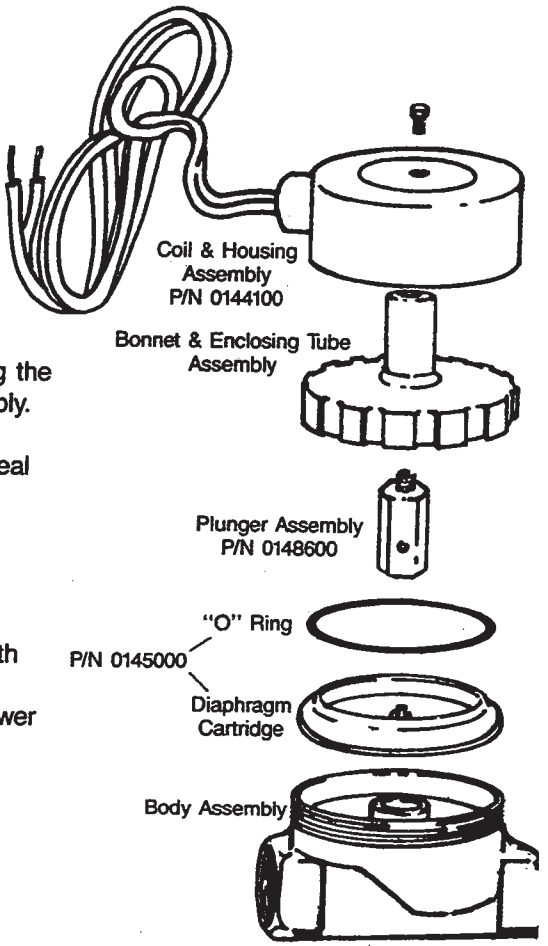


FIGURE NO. 2

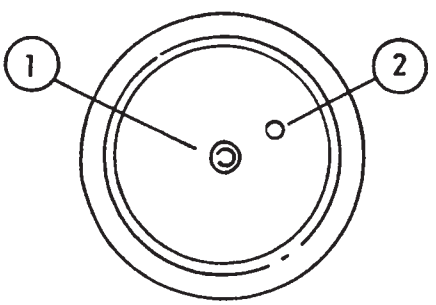
To Take the Valve Apart:

Disassembly — These valves may be taken apart by unscrewing the bonnet and enclosing tube assembly from the valve body assembly. See figure 2. After unscrewing, carefully lift off the bonnet and enclosing tube assembly. Don't drop the plunger. The "O" ring seal and diaphragm cartridge can now be lifted out.

Be careful not to damage the machined faces while the valve is apart.

To Reassemble — Place the diaphragm cartridge in the body with the pilot port extension UP. Hold the plunger with synthetic seat against the pilot port. Make sure the "O" ring is in place, then lower the bonnet and enclosing tube assembly over the plunger. Screw bonnet assembly snugly down on body assembly.

DIAPHRAGM CARTRIDGE
P/N 0145000



Possible Problems:

Pilot port extension #1 clogged.

Hole #2 clogged.

Remedy:

Pass heated straight pin through hole #2 or clean hole #1.

REPLACING SEAL and CERAMIC on WASH PUMPS

Function:

The pump is part of the total motor-pump system and utilizes one shaft seal and ceramic to prevent the pump from leaking around the impeller and shaft. One gasket is used to prevent leakage between the pump mounting plate and the machine pump plate.

Replacement of Seal and/or Ceramic:

1. Remove the power source to the machine by turning the circuit breaker to its "off" position on the side of the control box.
2. Drain the machine by removing the overflow strainer in the wash tank.
3. Support the motor — remove the four nuts holding the pump/motor to the machine's pump plate.
4. Carefully pull motor outward, move from side to side as required to remove from machine.
5. Set motor and pump on a sturdy stand close to machine or remove wires and conduit to allow motor/pump to be moved to a better work station.
6. Insert a firm object into the blades of the fan and use $^{15}/_{16}$" ratchet to remove bolt holding impeller. After the bolt is removed, pull the impeller up and off of the shaft.
7. The ceramic is imbedded in the pump mounting plate and usually does not need replacement, but the seal normally would when water leaks around the motor shaft area. If replacement of either is required, proceed as follows:
   a. Remove the four bolts holding the pump mounting plate to the motor.
   b. Slide the mounting plate up and off the shaft and motor. The imbedded ceramic and shaft seal will be removed with the mounting plate.
   c. Turn over the plate and push the seal and/or ceramic out of the housing carefully. It may be necessary to break the ceramic to remove it.
   d. Clean the hole where the ceramic was installed.
   e. Lightly coat with a lubricant around the new ceramic's edges and "O" ring. Gently press the ceramic into place against the snap ring in the housing. Make sure that the grooved side of the ceramic faces the motor and housing snap ring, leaving the smooth side toward the impeller.
   f. Make sure that the woodruff key is in place in the shaft and then set the plate back on the motor over the shaft.

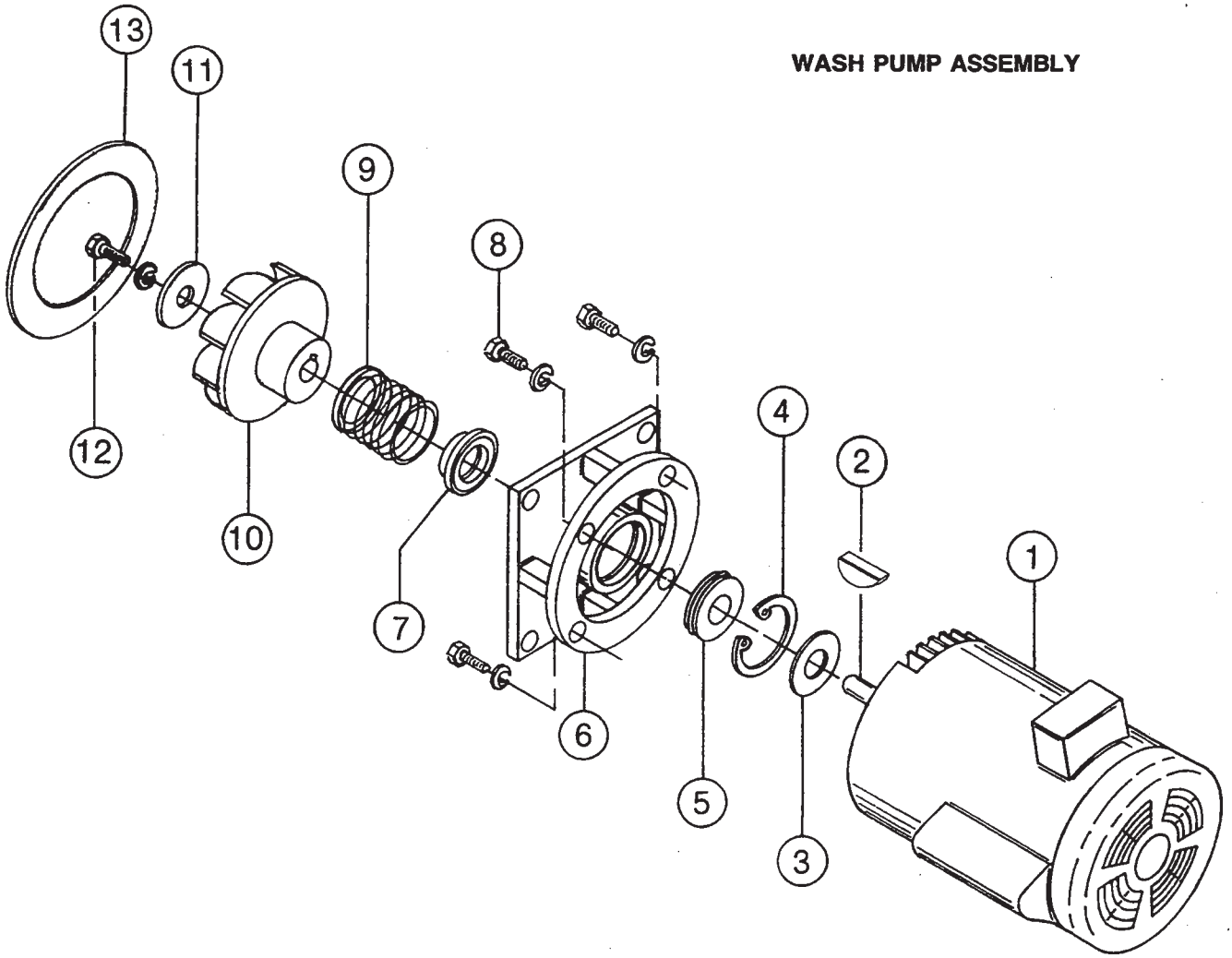
   Note: A field tool can be made (to ease installation of seal) from a pipe or tube (¾" CPVC typical example) that has proper outside and inside dimensions. It must fit over step down in shaft, but be close to larger shaft size on outside. To accommodate woodruff, cut long slot in tube. Lubricate tube. Slip seal over tube onto shaft.

   g. Lightly coat with a lubricant the new seal face and gently press it into place over the shaft with seal face against the ceramic. SEE NOTE ABOVE.
   h. Place the spring over the shaft with the metal cap up. Press the impeller down onto the shaft, aligning the keyway of the impeller with the woodruff key.
   i. Tigthten the impeller washer, lockwasher, and bolt into place. Replace the four bolts that hold the mounting plate to the motor.
8. Reinstall the pump and motor in the unit by reversing steps one through eight. (It is suggested that a new pump gasket be installed.)

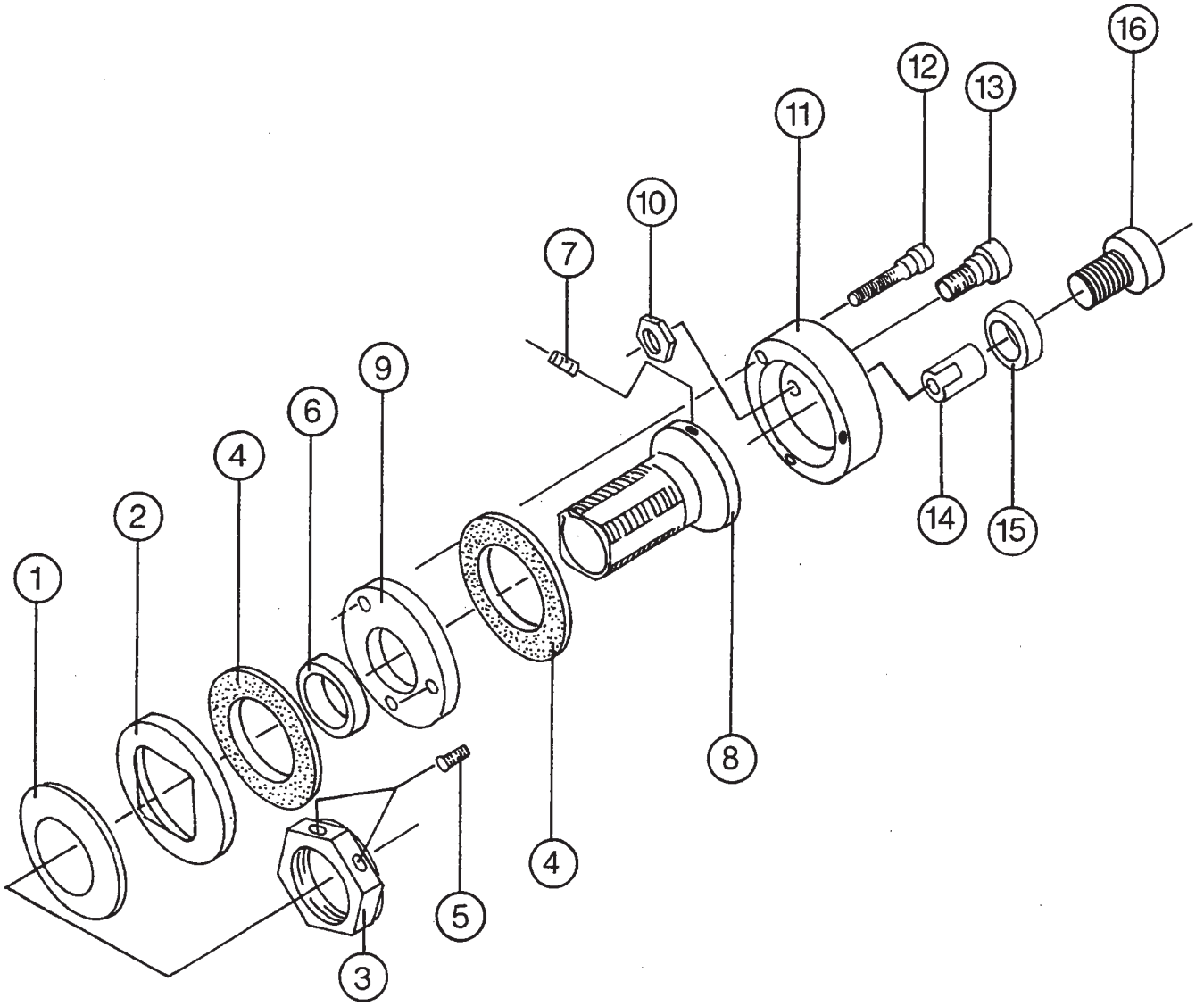
Impeller Rotation:

When facing the impeller after mounting it on the motor shaft, the impeller should turn in a CCW direction.

WASH PUMP ASSEMBLY

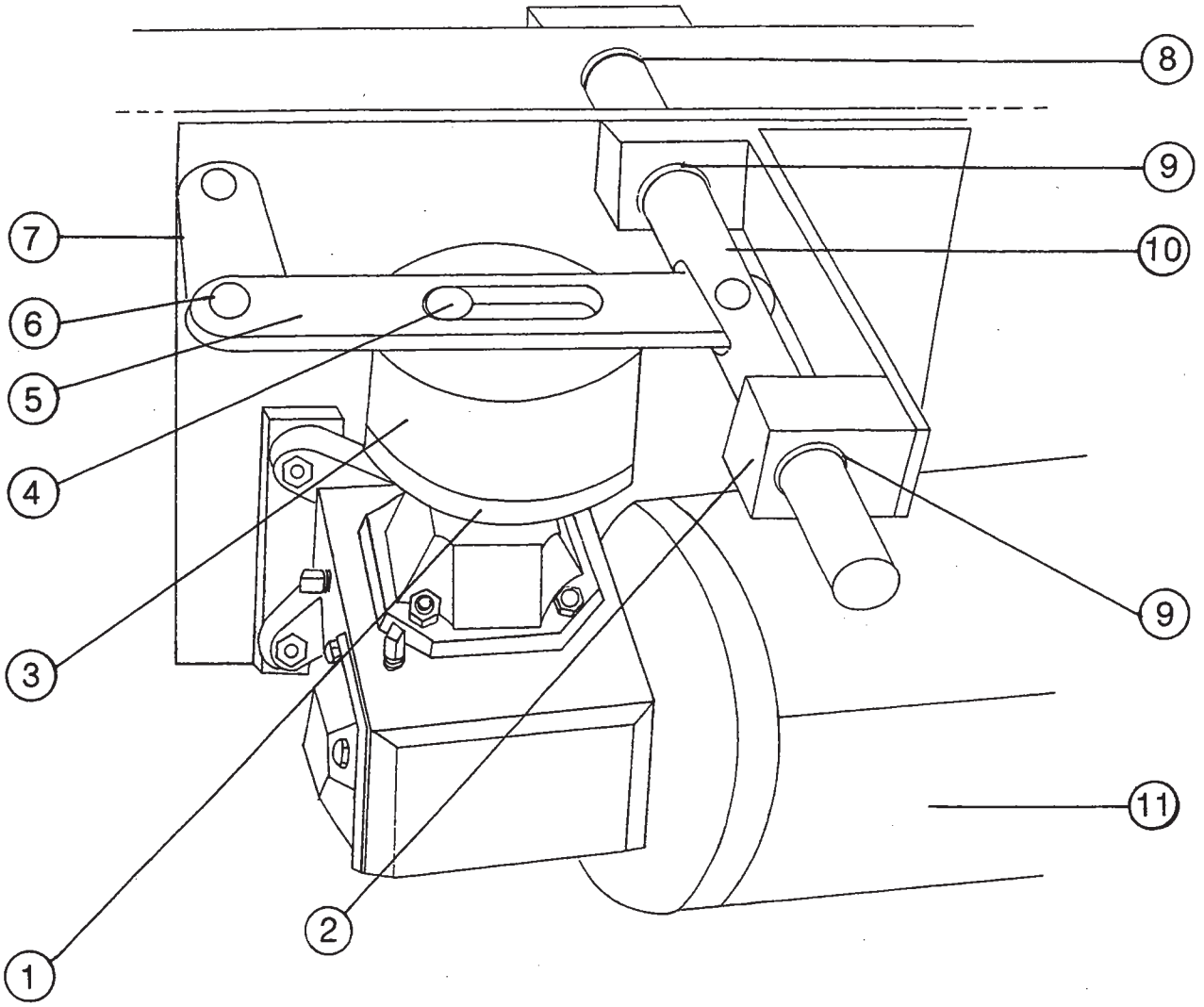


ITEM	P/N	DESCRIPTION
1.		PUMP MOTOR
2.	0106500	WOODRUFF KEY
3.		WASHER, RUBBER
4.	0108000	SNAP RING
5.	0105000	CERAMIC FACE W/"O" RING
6.	0104500	PUMP MOUNTING PLATE
7.	0105000	SEAL FACE
8.		PLATE TO MOTOR MOUNTING BOLTS & LOCKWASHERS
9.	0105000	SEAL ASSEMBLY (SEAL SPRING & CUP WASHER)
10.	0105500	PUMP IMPELLER
11.	0107500	IMPELLER WASHER
12.	0107000	IMPELLER BOLT & LOCKWASHER
13.	0106000	PUMP MOUNTING GASKET



CAM AND CLUTCH ASSEMBLY

ITEM	P/N	DESCRIPTION
1.-8.	0038501	CLUTCH, TORQUE LIMITER
9.	0039001	CLUTCH ADAPTER PLATE
10.	0038100	FOLLOWER BEARING LOCKNUT
11.		CAM WHEEL
12.	0037501	DRIVE BOLTS 10-32
13.	0038001	FOLLOWER BEARING
14.	0035001	SHAFT ADAPTER
15.	0039501	CAM WHEEL BUSHING
16.	0037501	DRIVE BOLT



CONVEYOR DRIVE ASSEMBLY AND MOTOR

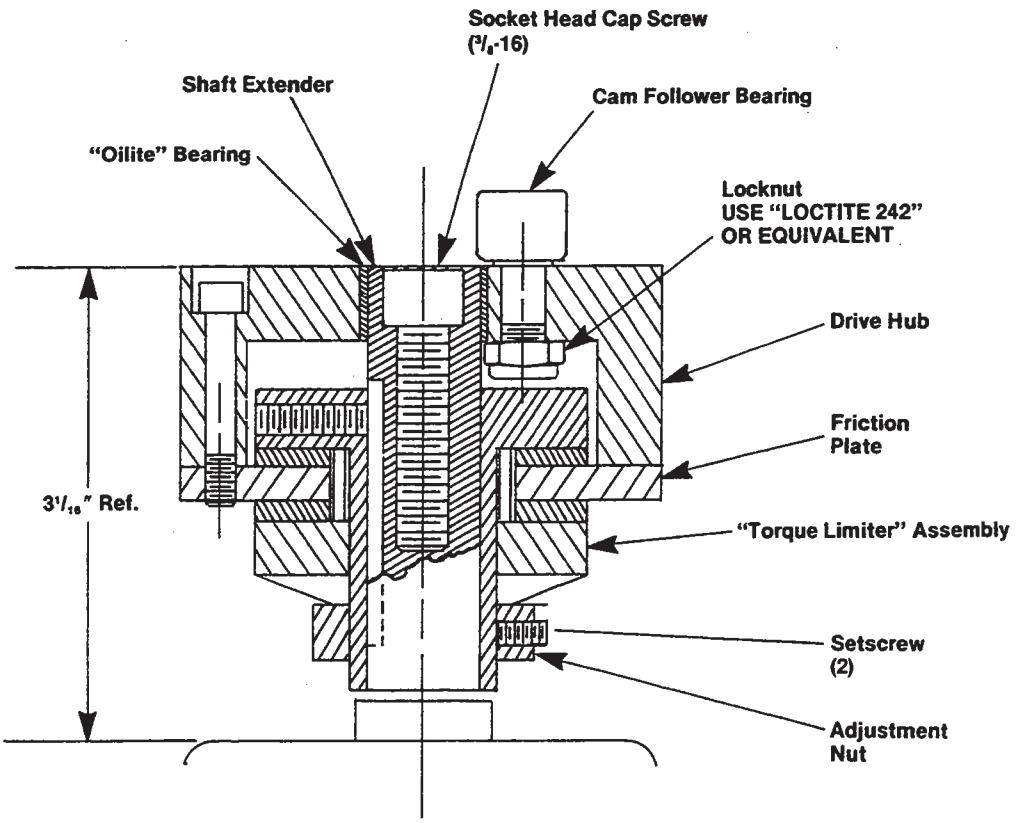
ITEM	P/N	DESCRIPTION
1.	0039001	CLUTCH ADAPTER PLATE
2.	0036100	DRIVE ROD BEARING BRACKET
3.		CAM WHEEL
4.	0038001	CAM FOLLOWER BEARING
5.	0035300	DRIVE ARM
6.	0041000	SHOULDER SCREW ¼"
7.	0035500	ARM LINKAGE
8.	0040500	ROD WIPER
9.	0040000	DRIVE ROD BEARING
10.	0036000	DRIVE ROD ARM
11.		DRIVE MOTOR & GEAR HEAD

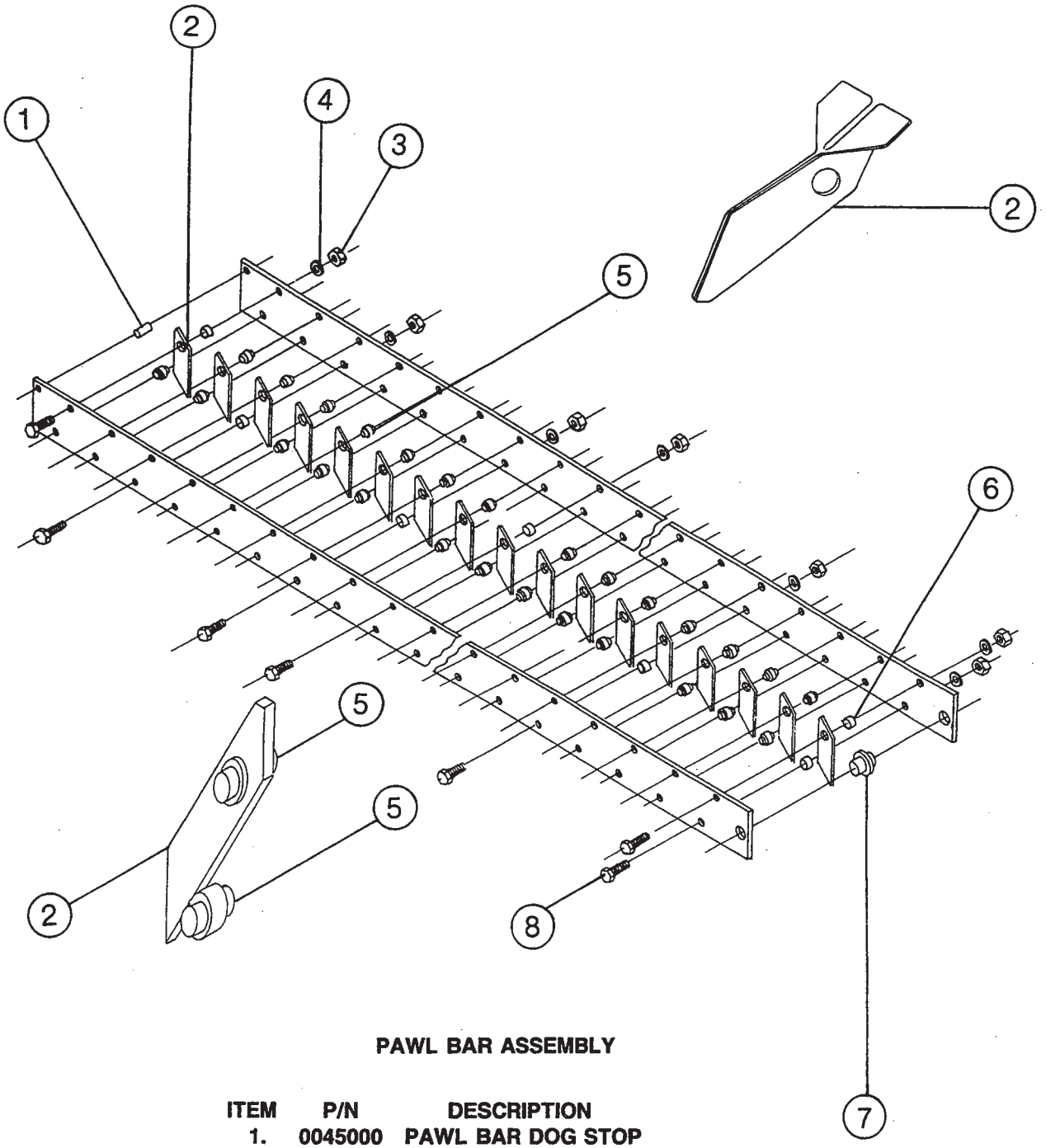
CONVEYOR CLUTCH ADJUSTMENT

This procedure is to be used should it be necessary to adjust the conveyor drive clutch.

1. Remove the cover from the conveyor drive assembly.
2. Loosen the (2) setscrews in the clutch adjustment nut at least 8 full turns.
3. Using a torque wrench and a crowfoot adapter, carefully adjust nut to a torque reading of 30 in-lbs.
4. Retighten setscrews.

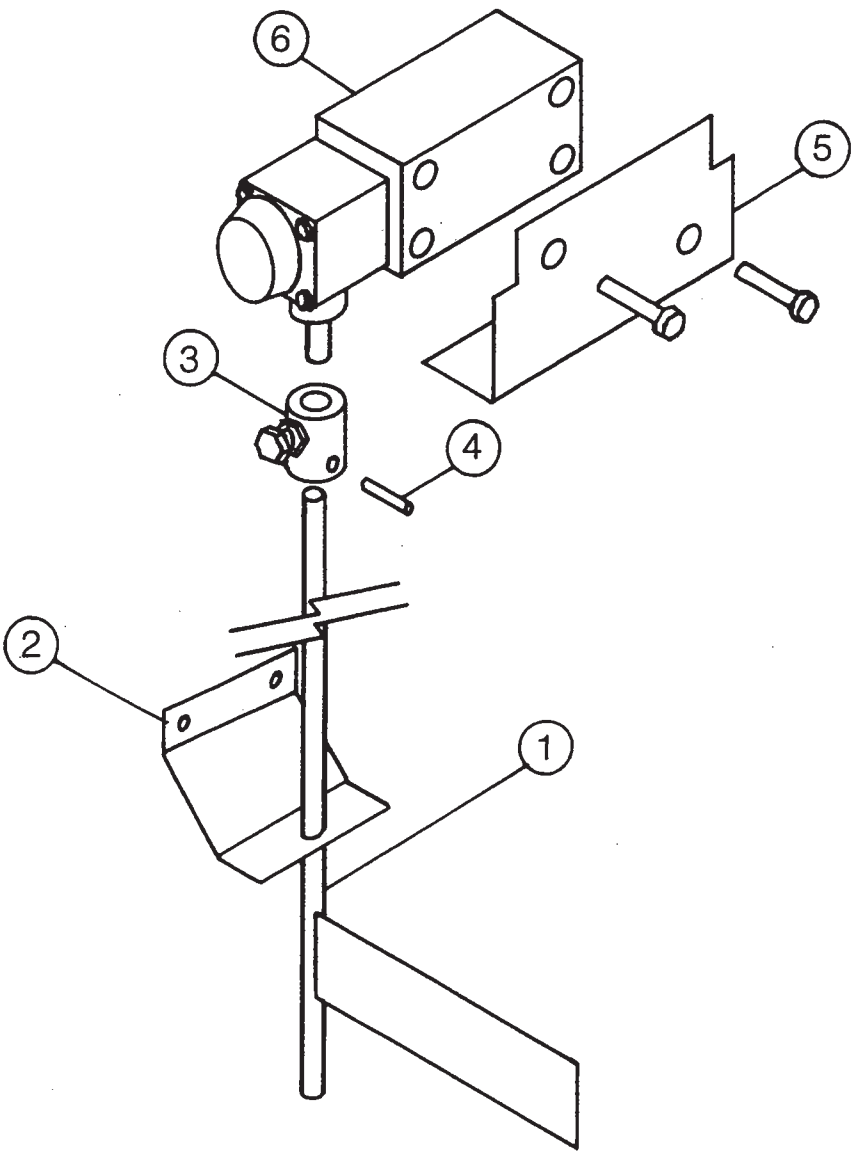
FIGURE NO. 3:





PAWL BAR ASSEMBLY

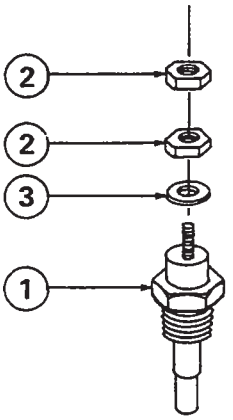
ITEM	P/N	DESCRIPTION
1.	0045000	PAWL BAR DOG STOP
2.	0043001	PAWL BAR PAWL (DOG)
3.	0044700	PAWL BAR NUT ¼" × 20" S/S
4.	0011200	LOCK WASHER
5.	0043500	PAWL BAR SPACER PIN
6.	0044000	PAWL BAR SPACER BUSHING
7.	0044500	PAWL BAR CONNECTOR PIN
8.	0044600	PAWL BAR BOLT ¼" × 20" × ¾" S/S



PADDLE SWITCH ASSEMBLY

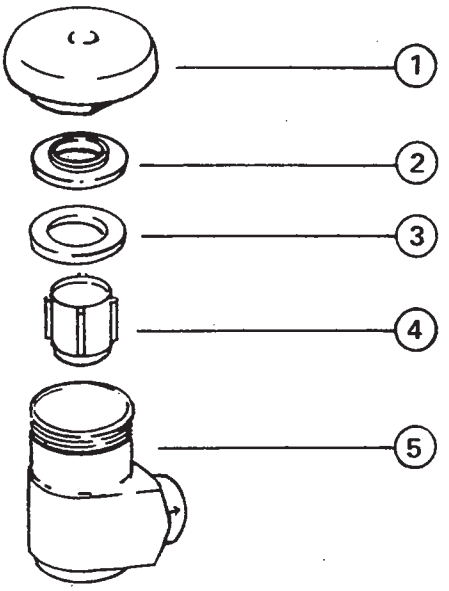
ITEM	P/N	DESCRIPTION
1.	0137600	ACTUATOR ROD AND PADDLE
2.	0137900	ACTUATOR ROD BRACKET
3.	0137800	ACTUATOR COUPLING
4.	0137801	ACTUATOR COUPLING ROLLED PIN
5.	0137702	ACTUATOR LIMIT SWITCH BRACKET
6.	0163500	SWITCH (L-R OPERATION)
	0163600	SWITCH (R-L OPERATION)

WATER LEVEL PROBE ASSEMBLY P/N 0084500

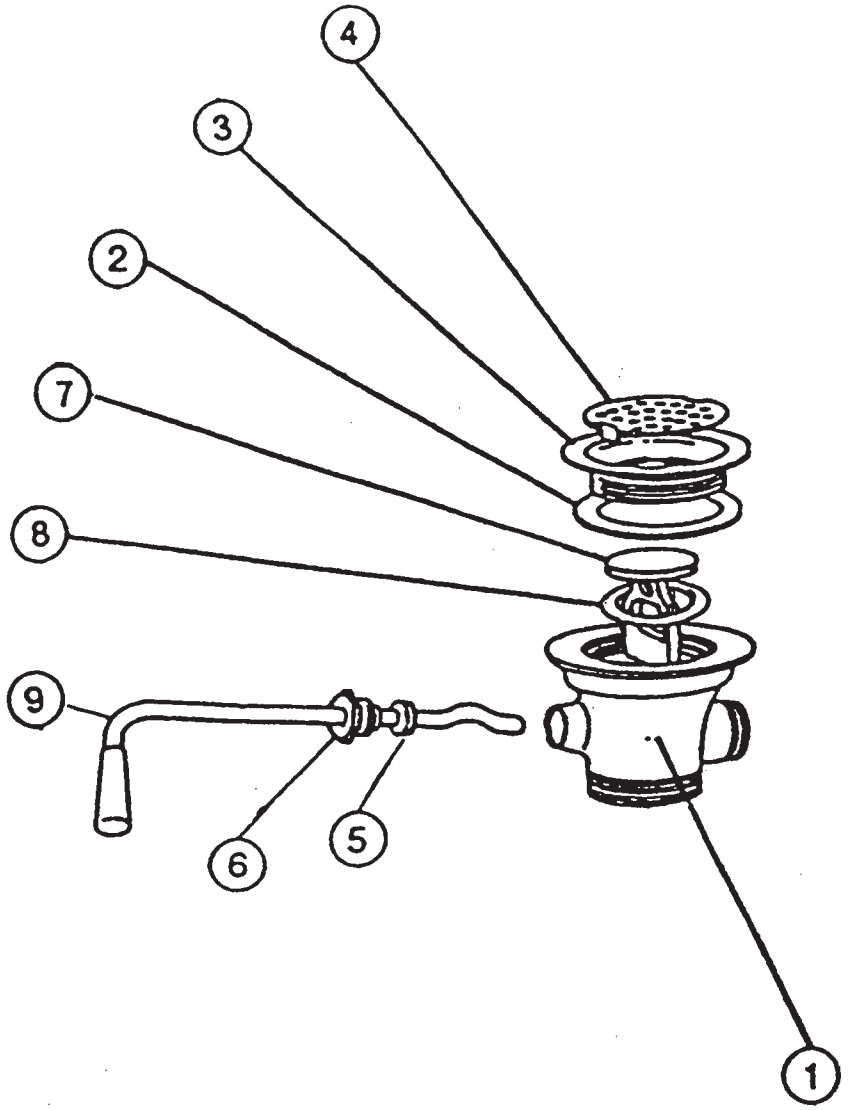


1. PROBE BODY
2. NUTS
3. LOCKWASHER

VACUUM BREAKER ASSEMBLY P/N 0184101

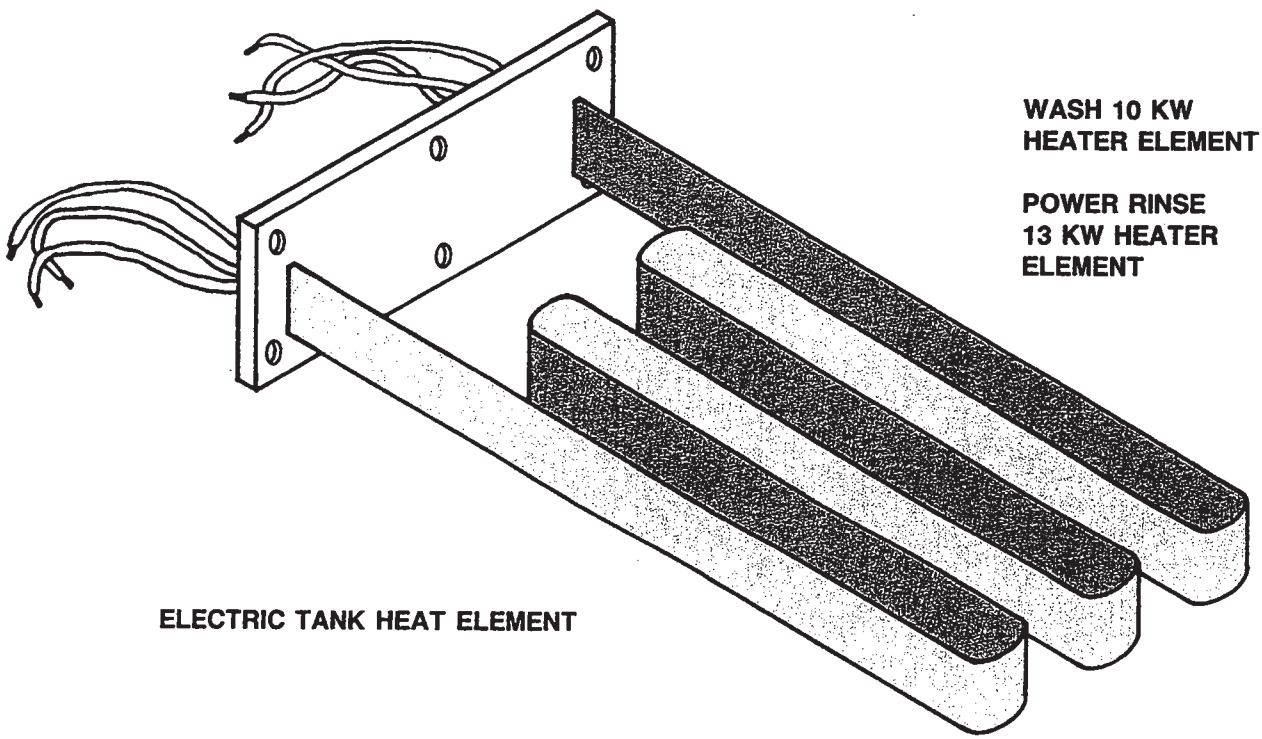


ITEM	P/N	DESCRIPTION
1.		BONNET
2.	0184200	DISK
3.	0184200	GASKET
4.	0184200	POPPET
5.		BODY



**SHORT HANDLE
LEVER OPERATED
DRAIN ASSEMBLY
P/N 0054003**

1. VALVE BODY
2. DRAIN VALVE GASKET
3. FLANGE
4. STRAINER
5. "O" RING
6. RETAINING NUT
7. STOPPER
8. "O" RINGS, STOPPER
9. HANDLE, SHORT



**WASH 10 KW
HEATER ELEMENT**

**POWER RINSE
13 KW HEATER
ELEMENT**

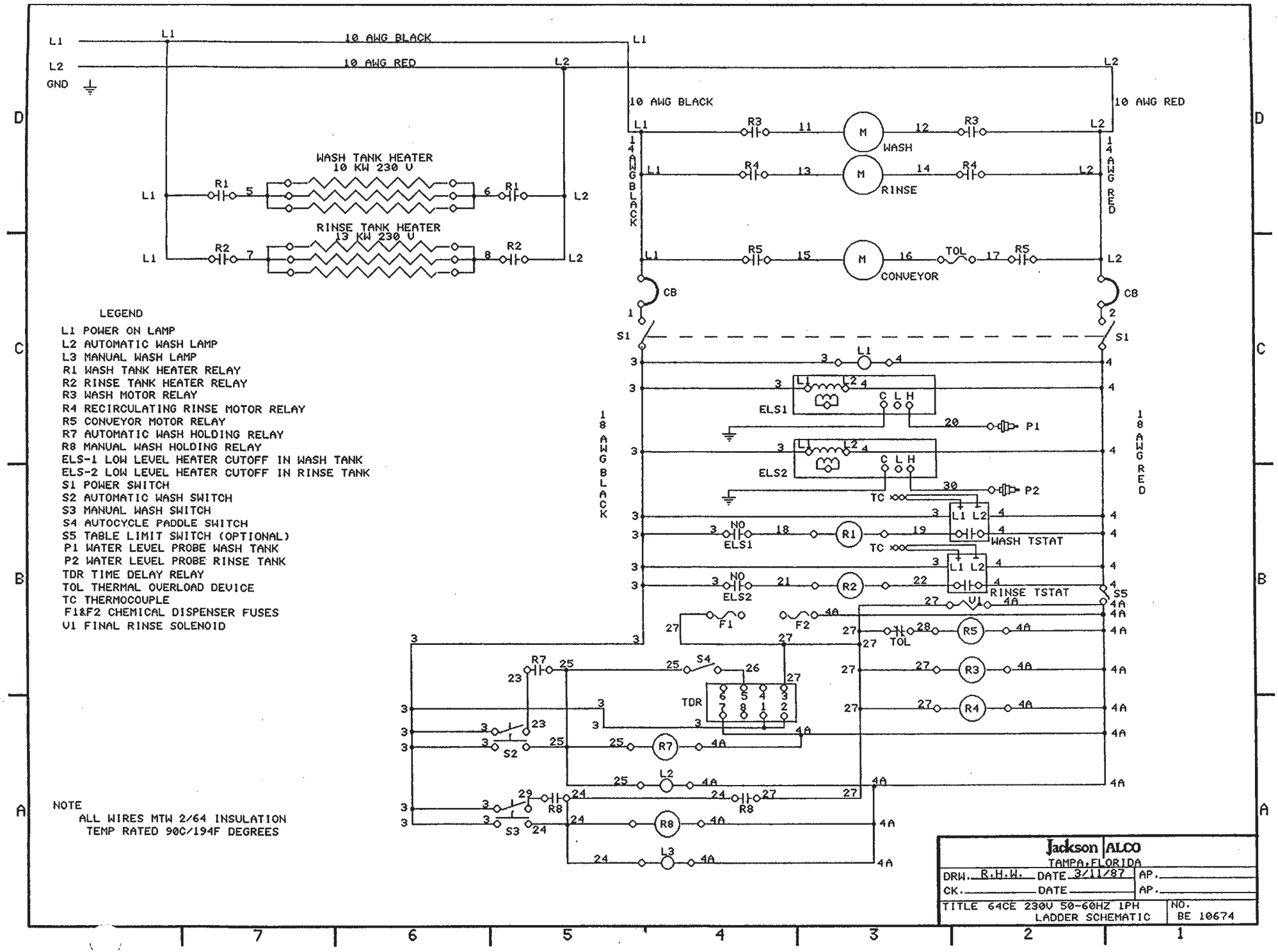
ELECTRIC TANK HEAT ELEMENT

TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Water level to low in wash tank. Water level to low in rinse tank. Water level to low in pre-wash tank.	1. "O" ring not in drain fitting or damaged.	1. Check to see that there is an "O' ring in the drain fitting and it is not damaged. Replace if necessary.
	2. Water trough not adjusted properly.	2. Adjust trough.
Pawl bar moves with no load but does not move when loaded.	1. Clutch slipping.	1. Adjust clutch. (See page insert for instructions of Torque Tamer.)
Wash and rinse pumps don't run.	1. Auto or manual switch is defective.	1. With auto or manual switch on, check to see that you're getting power into the switch and out of the switch, check back to circuit breaker on dishwasher. If you are, but not out of the switch, replace switch.
	2. Loose wires or connections.	2. Check all wiring to and from motor to see that there are no loose connections or broken or frayed wires. Repair or replace as necessary.
	3. Pump jammed.	3. Clean pump housing.
Conveyor motor doesn't operate.	1. Conveyor motor thermal overload relay has opened.	1. Push reset bar on component. If motor is still inoperable, check T.O.L. heater. If open, replace heater.
	2. Clutch is slipping but conveyor motor is operating.	2. Adjust clutch.
	3. Loose wires or connections.	3. Check all wiring for breaks, loose terminals and connections, and repair accordingly.
	4. Motor is defective.	4. Motor hums or doesn't operate at all. Defective, replace motor.
Heat circuit does not operate (rinse or wash tank not at required temperature).	1. Water level in rinse or wash tank below low water cutoff probe.	1. Fill rinse or wash tank to overflow level.
	2. Thermostat is out of adjustment or defective.	2. Refer to section regarding thermostat adjustment.
	3. Water level control is defective.	3. Check to see that the terminals L1 and L2 on the water-level control have power coming to them, then with a short link of insulated wire, jump terminals "C" and "H". These terminals are on the low voltage (24V) system. If low water control is operating, the contacts in the little plastic-coated relay will work or move. (Before attempting above, remove wire to water-level probe.)
	4. Water-level control checked out okay but heat circuit still does not operate.	4. Make sure that the probe wire has been replaced.
	5. Rinse element is defective.	5. Replace element.

TROUBLE SHOOTING GUIDE

PROBLEM	CAUSE	SOLUTION
Vacuum breaker is allowing water to escape and spray on top of machine and against wall.	1. Vacuum breaker is defective.	1. Remove top of vacuum breaker by unscrewing. Lift poppet out and clean.
	2. Gasket on poppet split or worn.	2. Replace rubber gasket and washer on poppet completely.

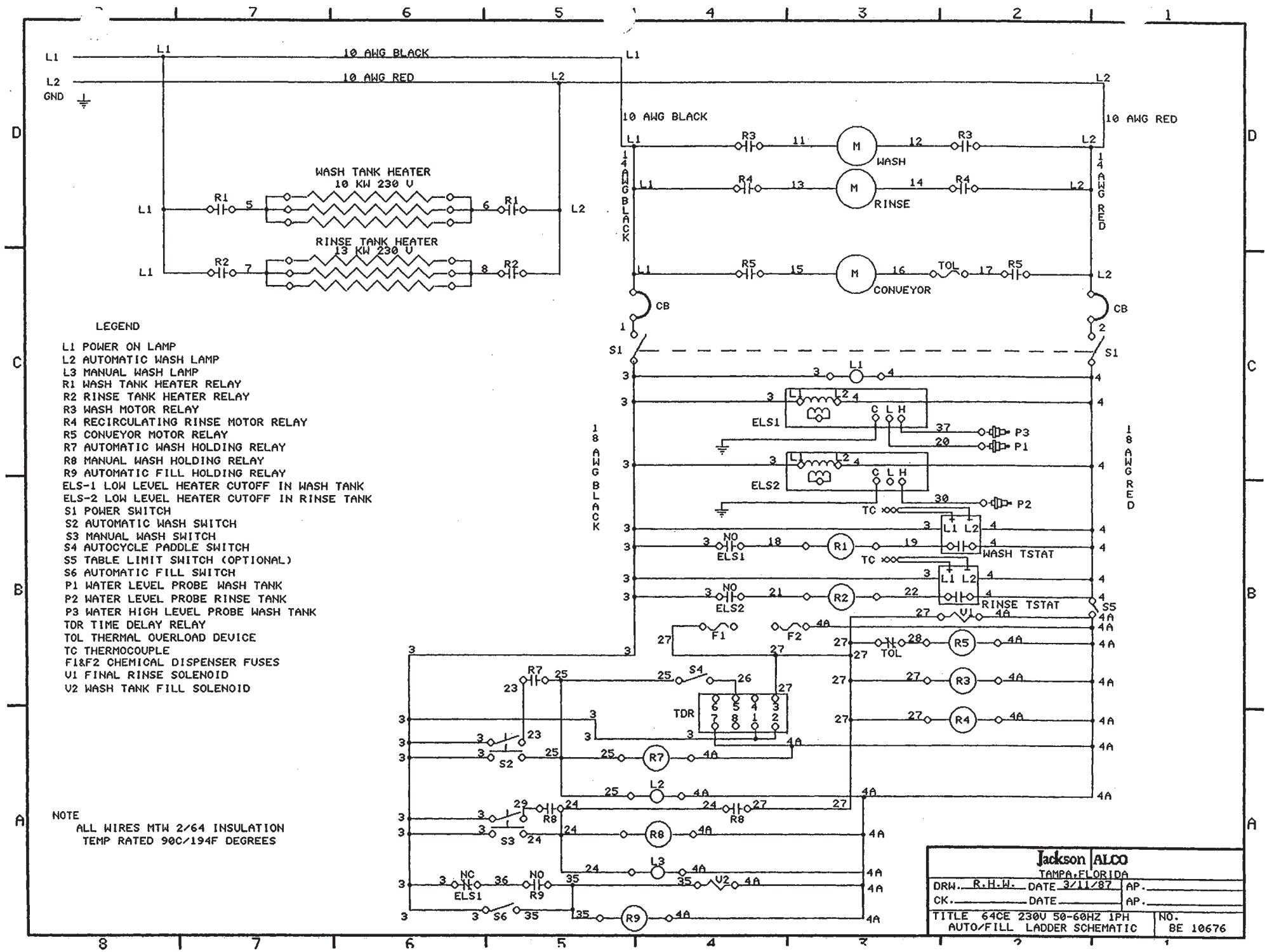


LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson ALCO TAMPA, FLORIDA			
DRW. R.H.W.	DATE 3/11/87	AP.	
CK.	DATE	AP.	
TITLE 64CE 230V 50-60HZ 1PH LADDER SCHEMATIC		NO. BE 10674	



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
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P2 WATER LEVEL PROBE RINSE TANK
P3 WATER HIGH LEVEL PROBE WASH TANK
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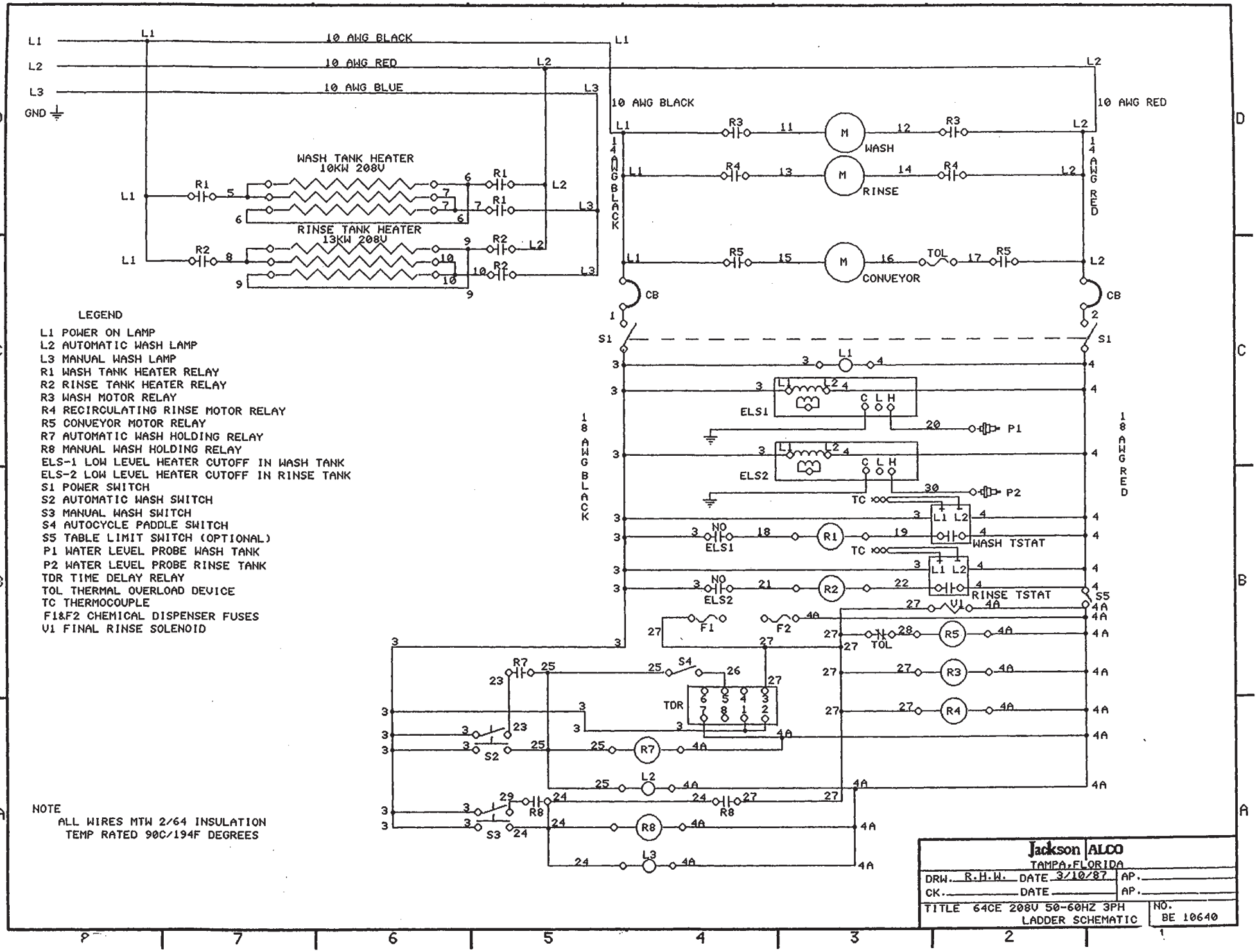
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson ALCO TAMPA,FLORIDA		
DRW. R.H.W.	DATE 3/11/87	AP.
CK.	DATE	AP.
TITLE 64CE 230V 50-60HZ 1PH AUTO/FILL LADDER SCHEMATIC		NO. BE 10676



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
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TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

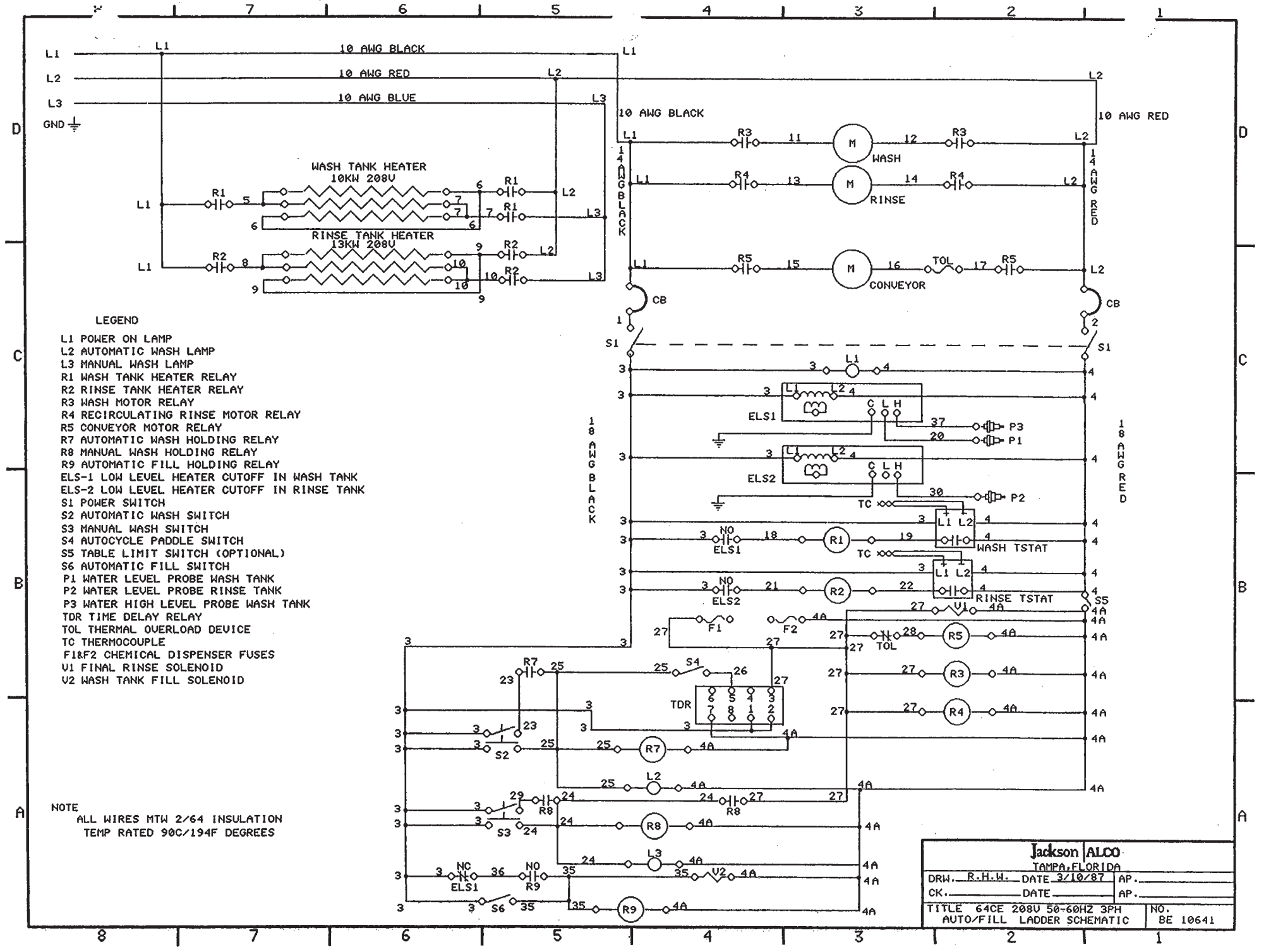
Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	

TITLE 64CE 208V 50-60HZ 3PH LADDER SCHEMATIC

NO. BE 10640

1



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
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TC THERMOCOUPLE
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V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

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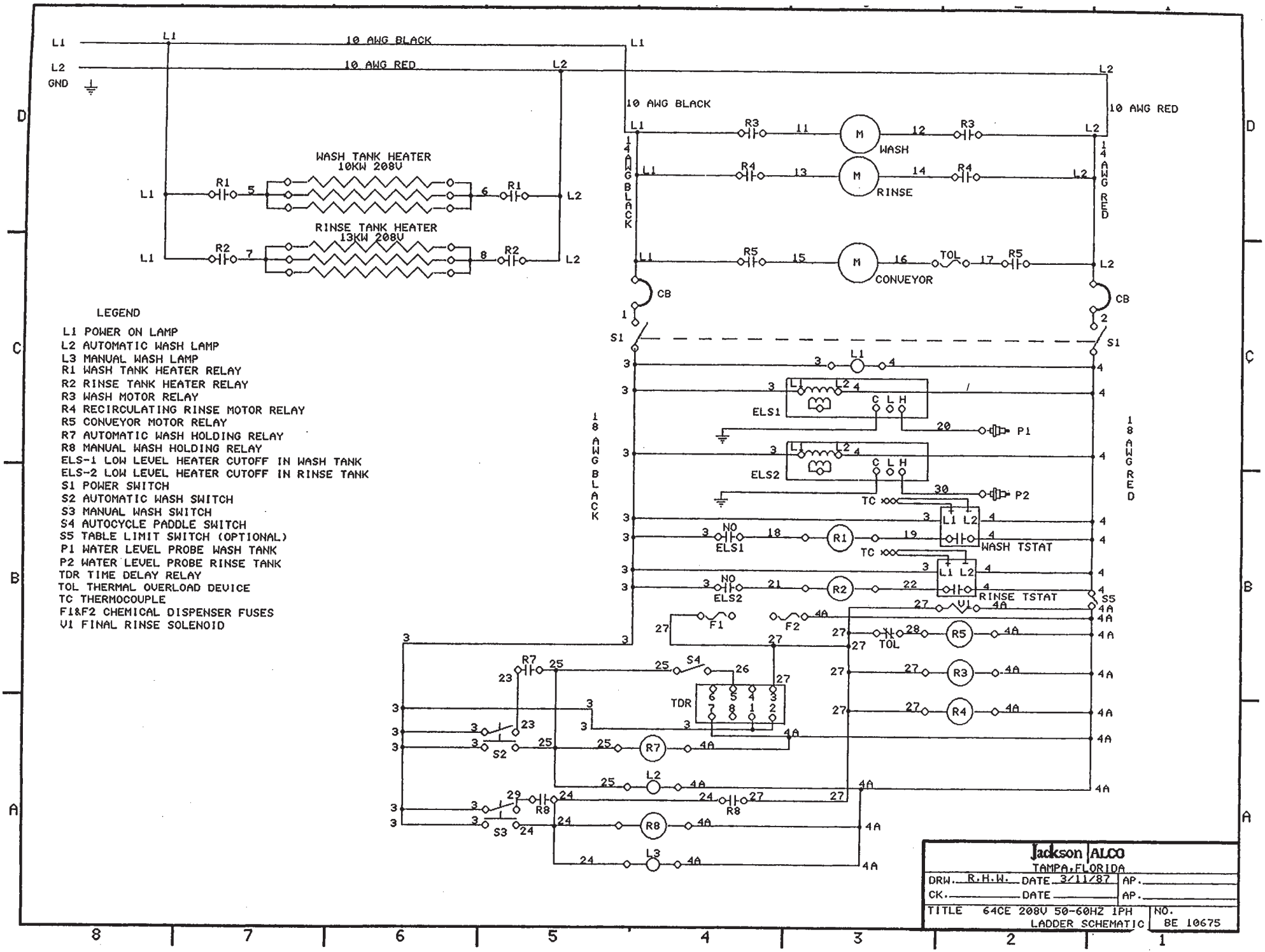
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	
TITLE 64CE 208V 50-60HZ 3PH AUTO/FILL LADDER SCHEMATIC		NO. BE 10641	


L1
L2
GND
10 AWG BLACK
10 AWG RED
WASH TANK HEATER
10KW 208V
RINSE TANK HEATER
13KW 208V
R1
R2
5
6
7
8
LEGEND
L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
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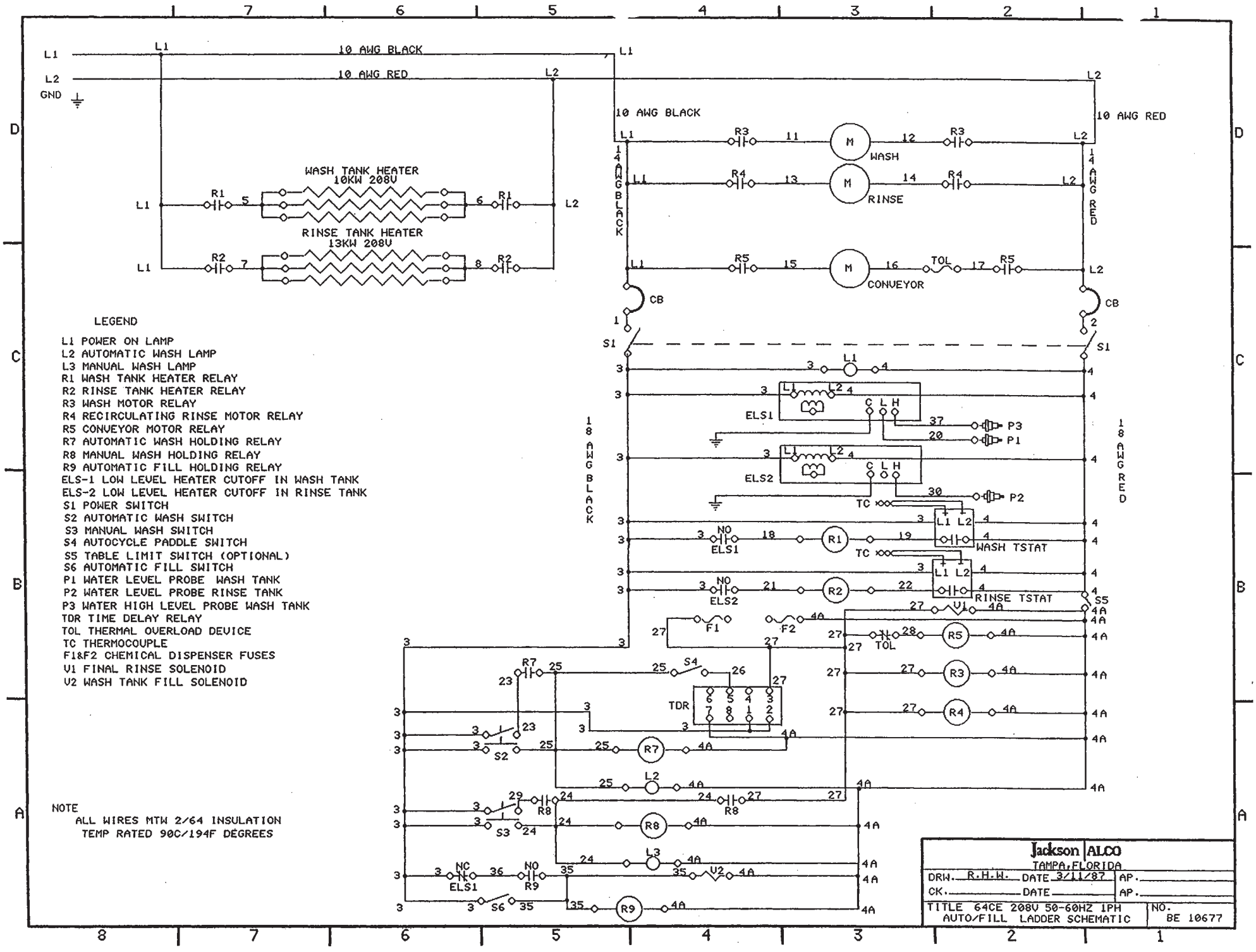
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
14 AWG BLACK
14 AWG RED
18 AWG BLACK
18 AWG RED
M
WASH
RINSE
CONVEYOR
TOL
CB
S1
ELS1
ELS2
P1
P2
TC
NO
WASH TSTAT
RINSE TSTAT
S5
V1
F1
F2
TDR
S2
S3
R7
R8
L2
L3
Jackson ALCO
TAMPA, FLORIDA
DRW. R.H.W. DATE 3/11/87 AP.
CK. DATE AP.
TITLE 64CE 208V 50-60HZ 1PH LADDER SCHEMATIC
NO. BE 10675



LEGEND

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TC THERMOCOUPLE
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V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
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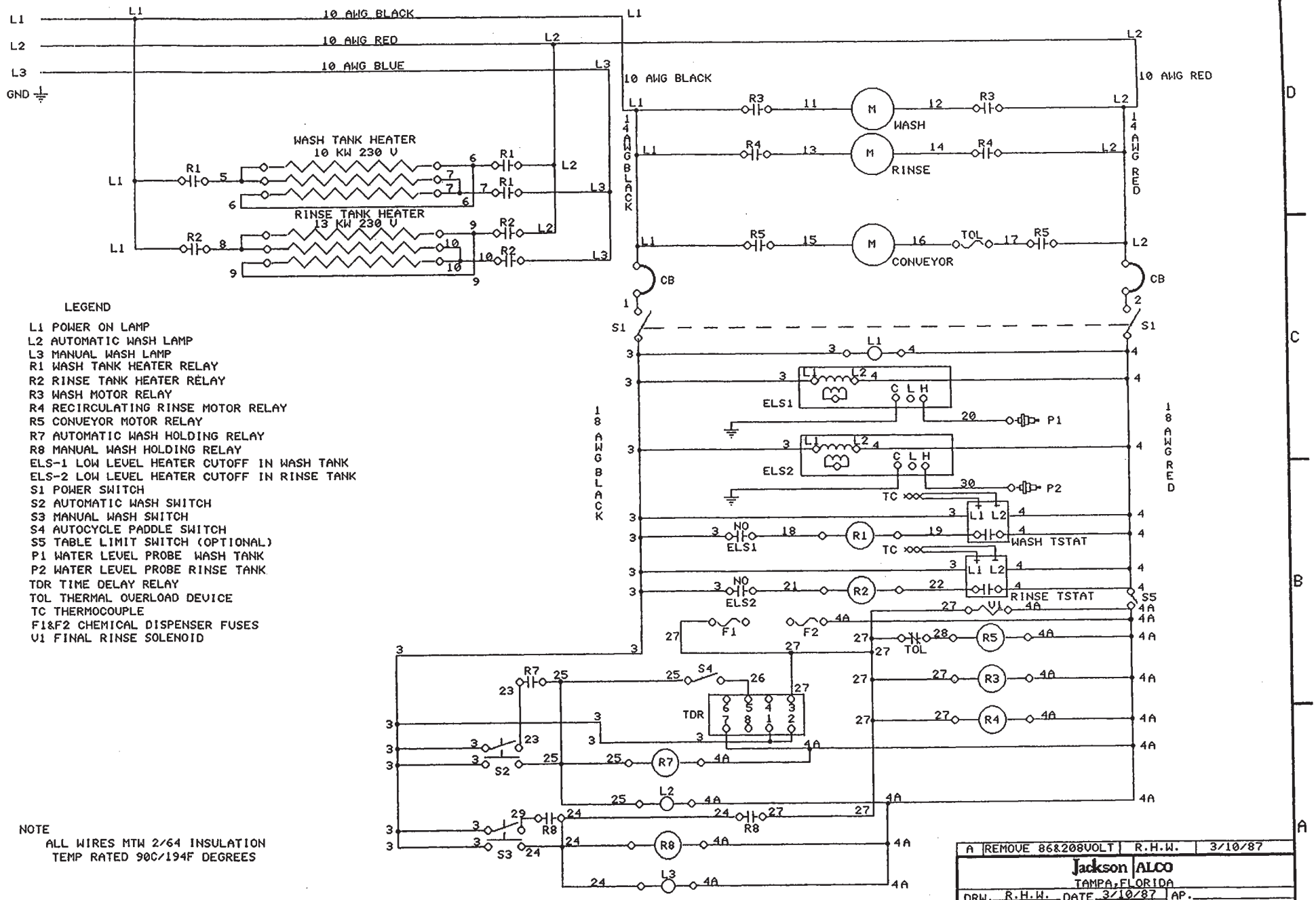
DRW. R.H.W.	DATE 3/11/87	AP.	
CK.	DATE	AP.	
TITLE 64CE 208V 50-60HZ 1PH AUTO/FILL LADDER SCHEMATIC		NO. BE 10677	



LEGEND

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TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID

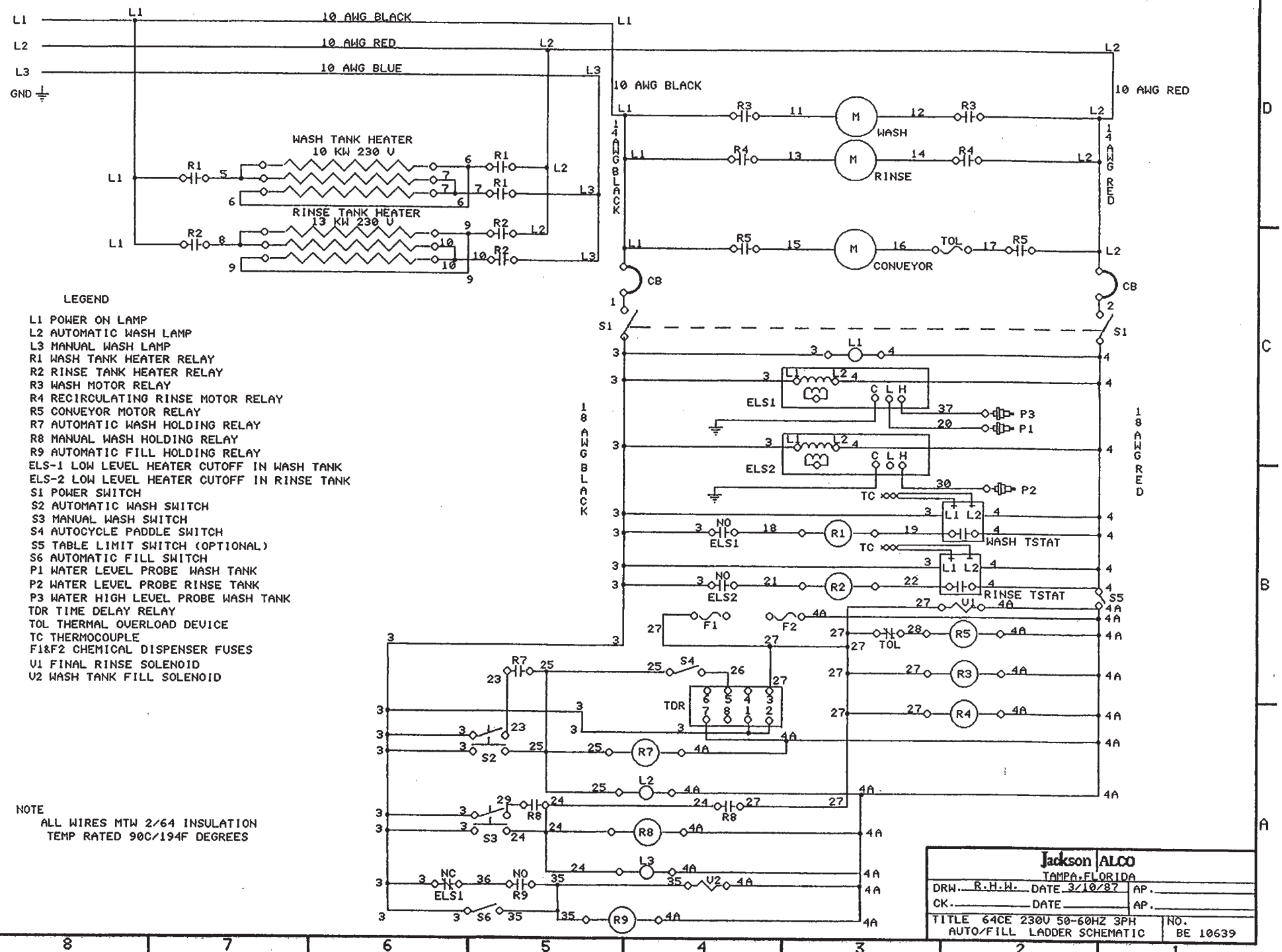
NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

A	REMOVE 86&208VOLT	R.H.W.	3/10/87

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W. DATE 3/10/87 AP.
CK. DATE AP.

TITLE 64CE 230V 50-60HZ 3PH LADDER SCHEMATIC
NO. BE 10095A



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
S6 AUTOMATIC FILL SWITCH
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
P3 WATER HIGH LEVEL PROBE WASH TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
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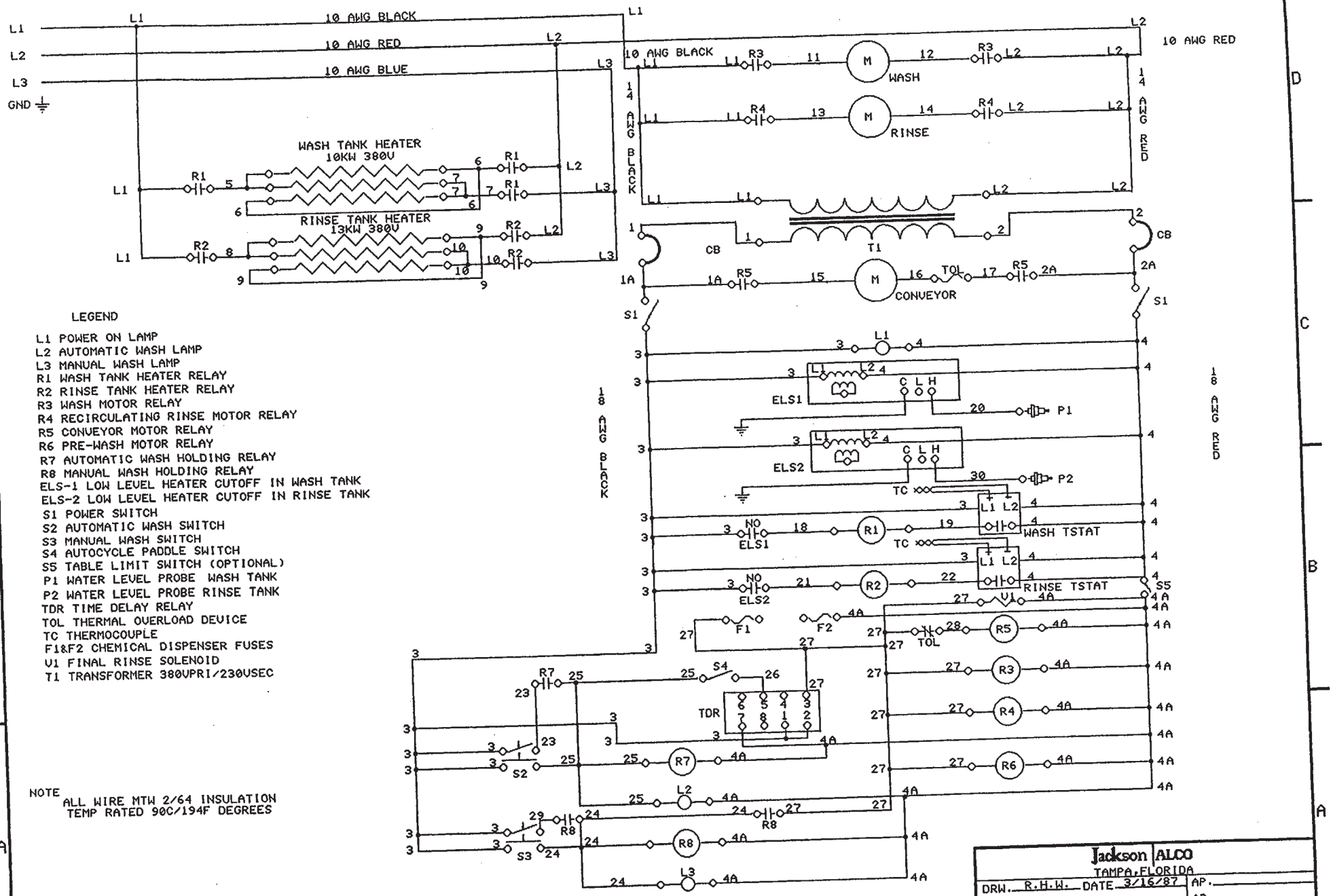
DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	
TITLE 64CE 230V 50-60HZ 3PH AUTO/FILL LADDER SCHEMATIC		NO. BE 10639	



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
T1 TRANSFORMER 380VPRI/230VSEC

NOTE
ALL WIRE MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

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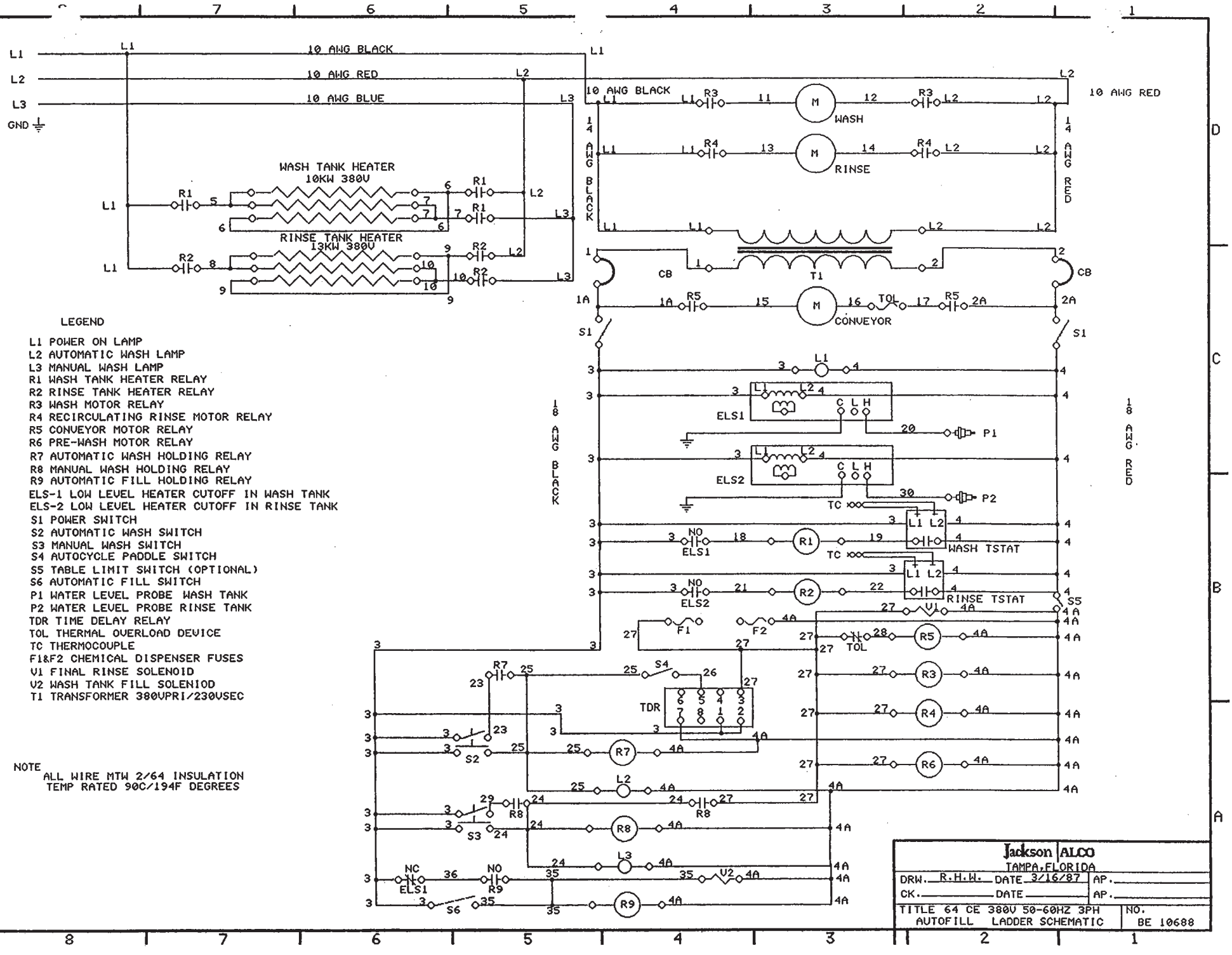
DRW. R.H.W.	DATE 3/16/87	AP.	
CK.	DATE	AP.	
TITLE 64CE 380V 50-60HZ 3PH LADDER SCHEMATIC		NO. BE 10684	



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
S6 AUTOMATIC FILL SWITCH
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENIOD
T1 TRANSFORMER 380VPRI/230VSEC

NOTE
ALL WIRE MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

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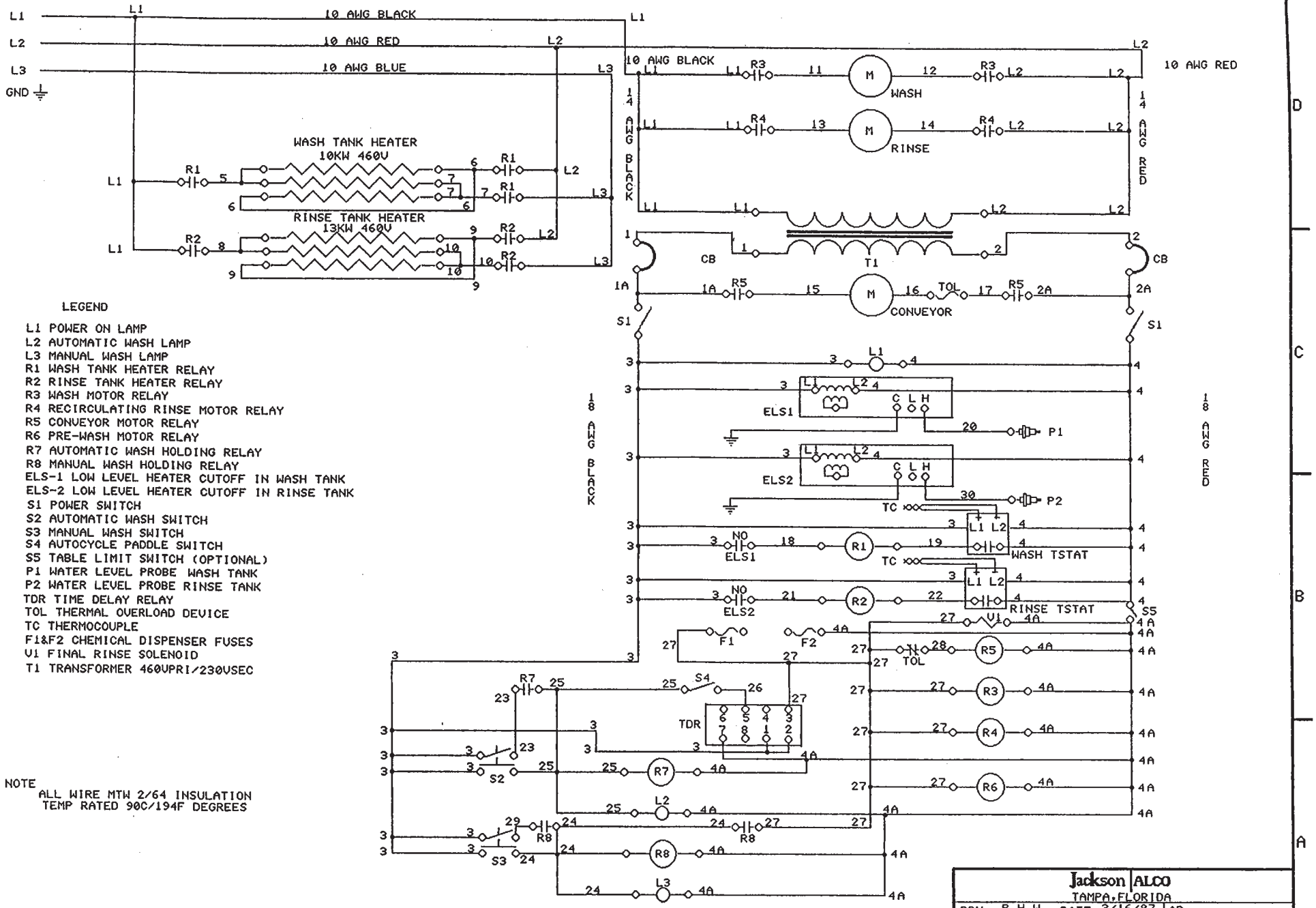
DRW. R.H.W.	DATE 3/16/87	AP.	
CK.	DATE	AP.	

TITLE 64 CE 380V 50-60HZ 3PH AUTOFILL LADDER SCHEMATIC

NO. BE 10688



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
T1 TRANSFORMER 460VPRI/230VSEC

NOTE
ALL WIRE MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

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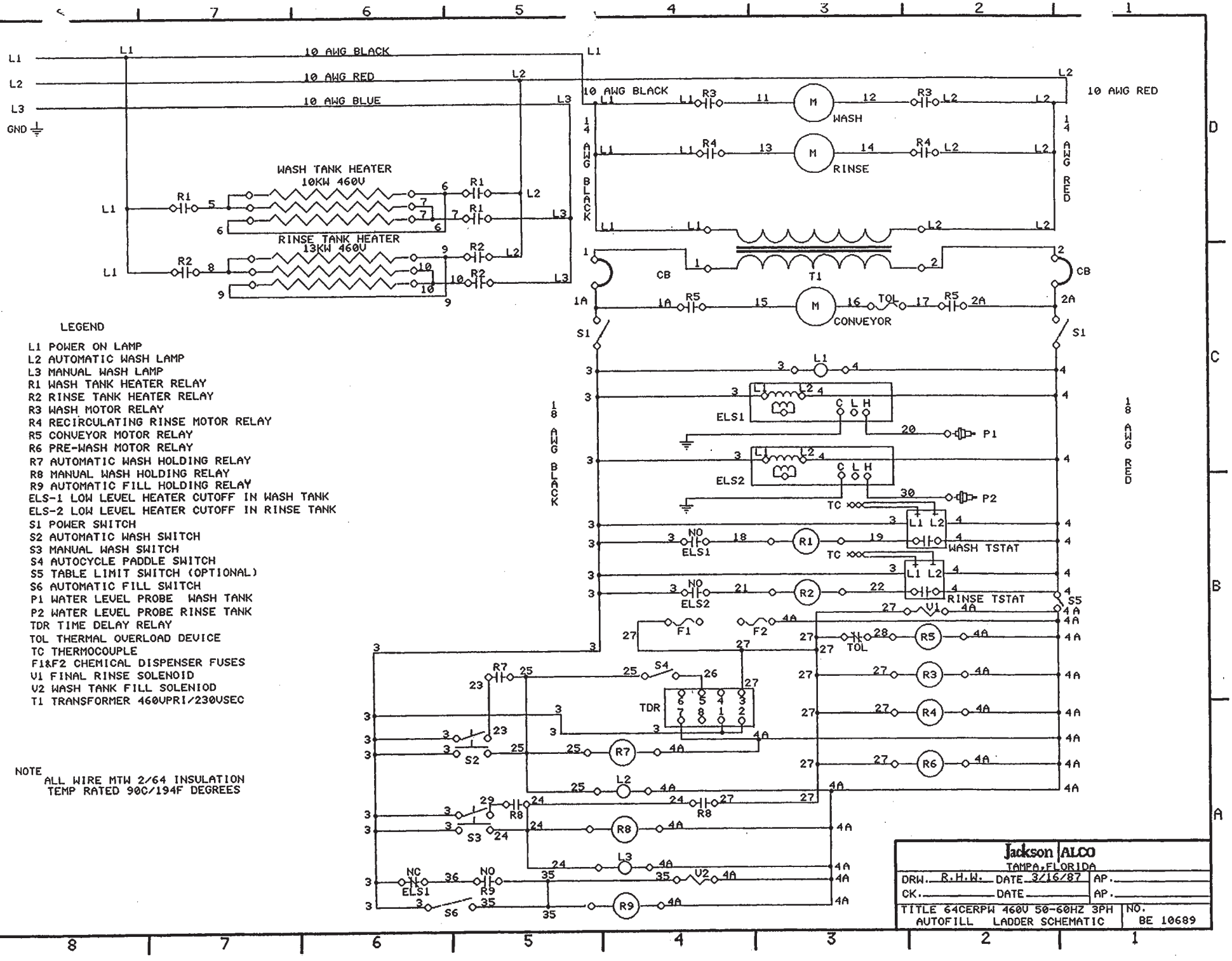
DRW. R.H.W.	DATE 3/16/87	AP.	
CK.	DATE	AP.	
TITLE 64CE 460V 50-60HZ 3PH LADDER SCHEMATIC		NO. BE 10685	



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
S6 AUTOMATIC FILL SWITCH
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENIOD
T1 TRANSFORMER 460VPRI/230VSEC

NOTE
ALL WIRE MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

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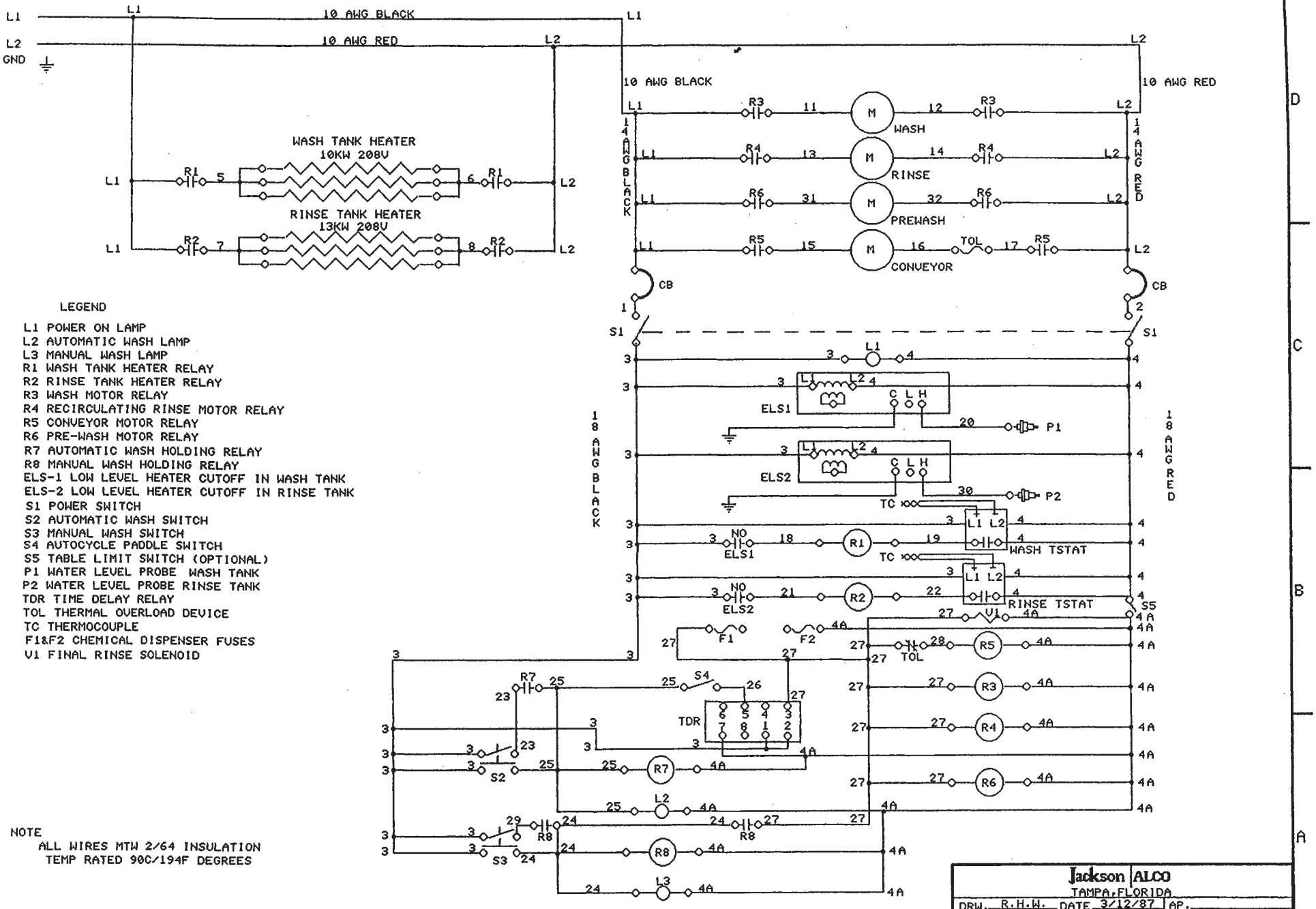
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/16/87	AP.	
CK.	DATE	AP.	
TITLE 64CERPW 460V 50-60HZ 3PH AUTOFILL LADDER SCHEMATIC		NO.	BE 10689

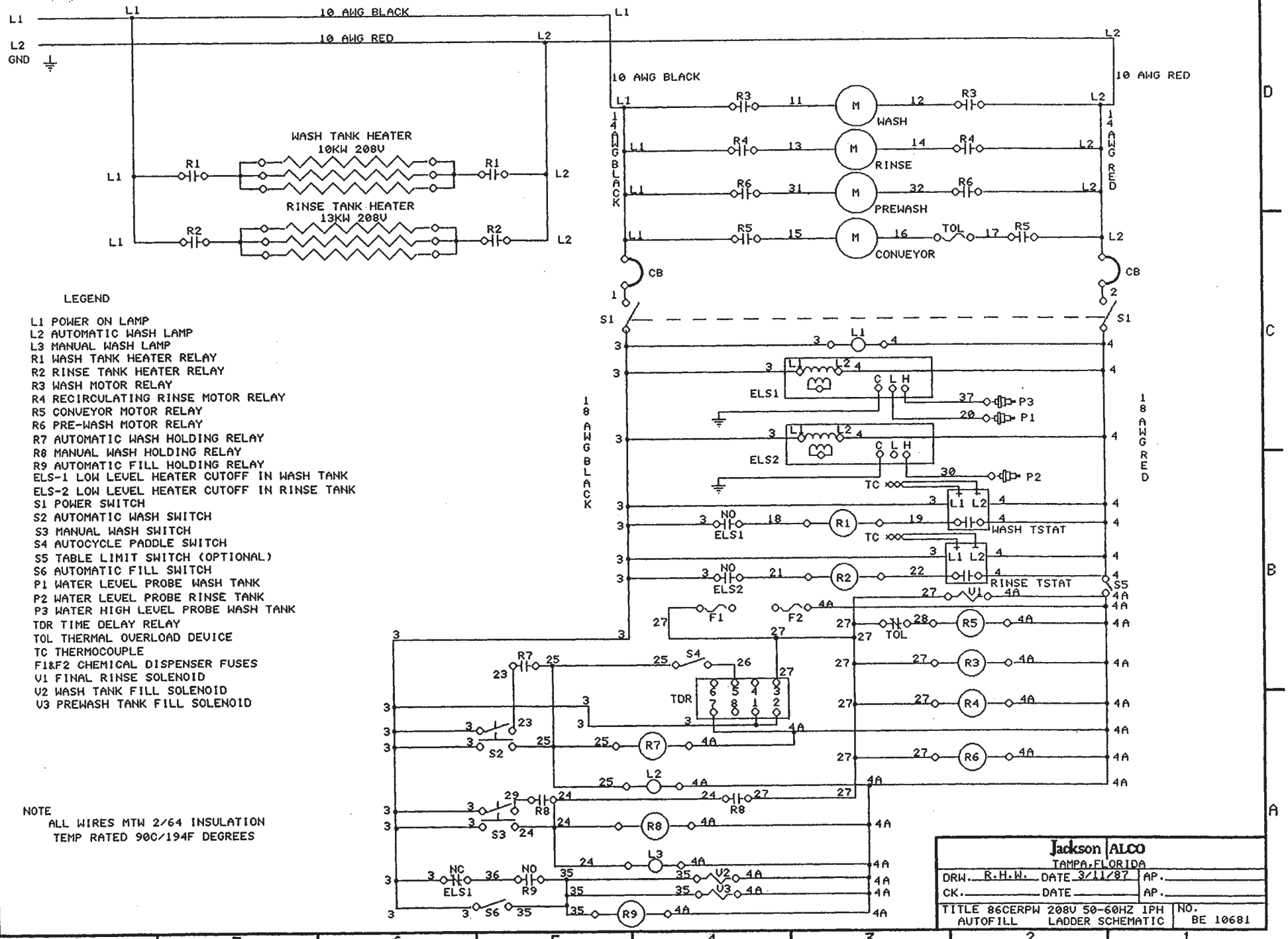


LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson ALCO TAMPA, FLORIDA			
DRW. R.H.W.	DATE 3/12/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 208V 50-60HZ 1PH LADDER SCHEMATIC		NO.	BE 10679



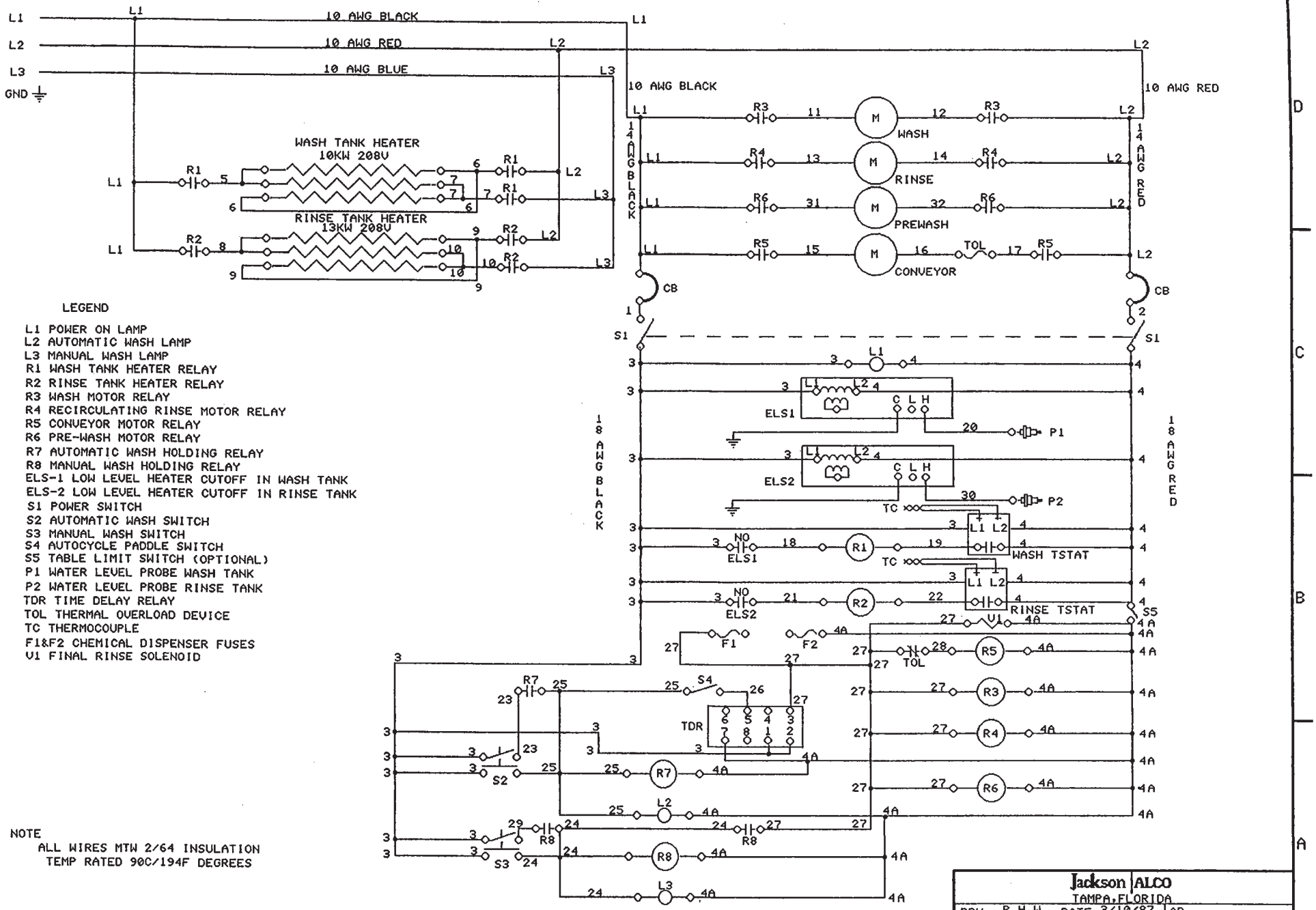
LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
S6 AUTOMATIC FILL SWITCH
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
P3 WATER HIGH LEVEL PROBE WASH TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID
V3 PREWASH TANK FILL SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/11/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 208V 50-60HZ 1PH AUTOFILL LADDER SCHEMATIC		NO.	BE 10681



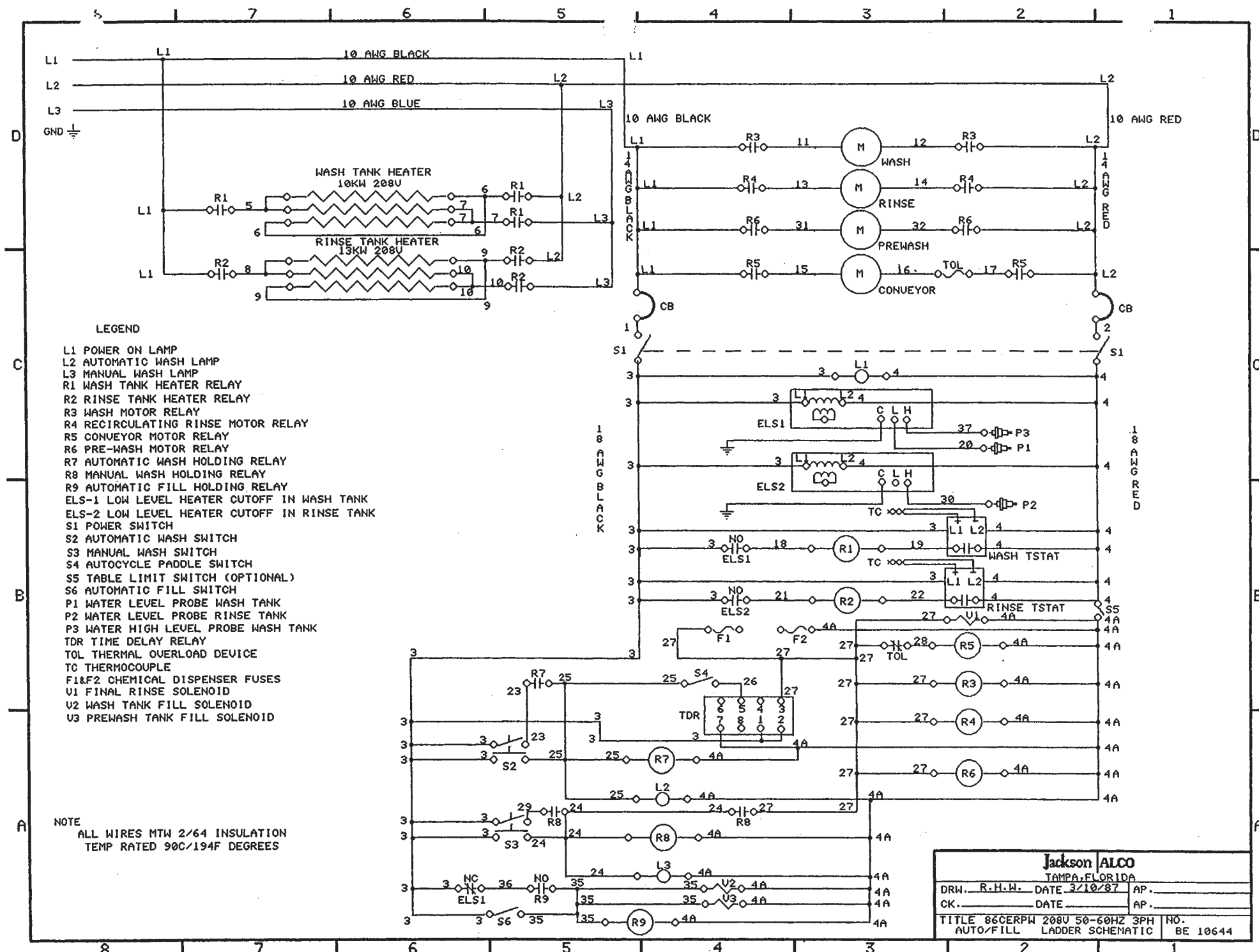
LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 208V 50-60HZ 3PH LADDER SCHEMATIC		NO.	BE 10643



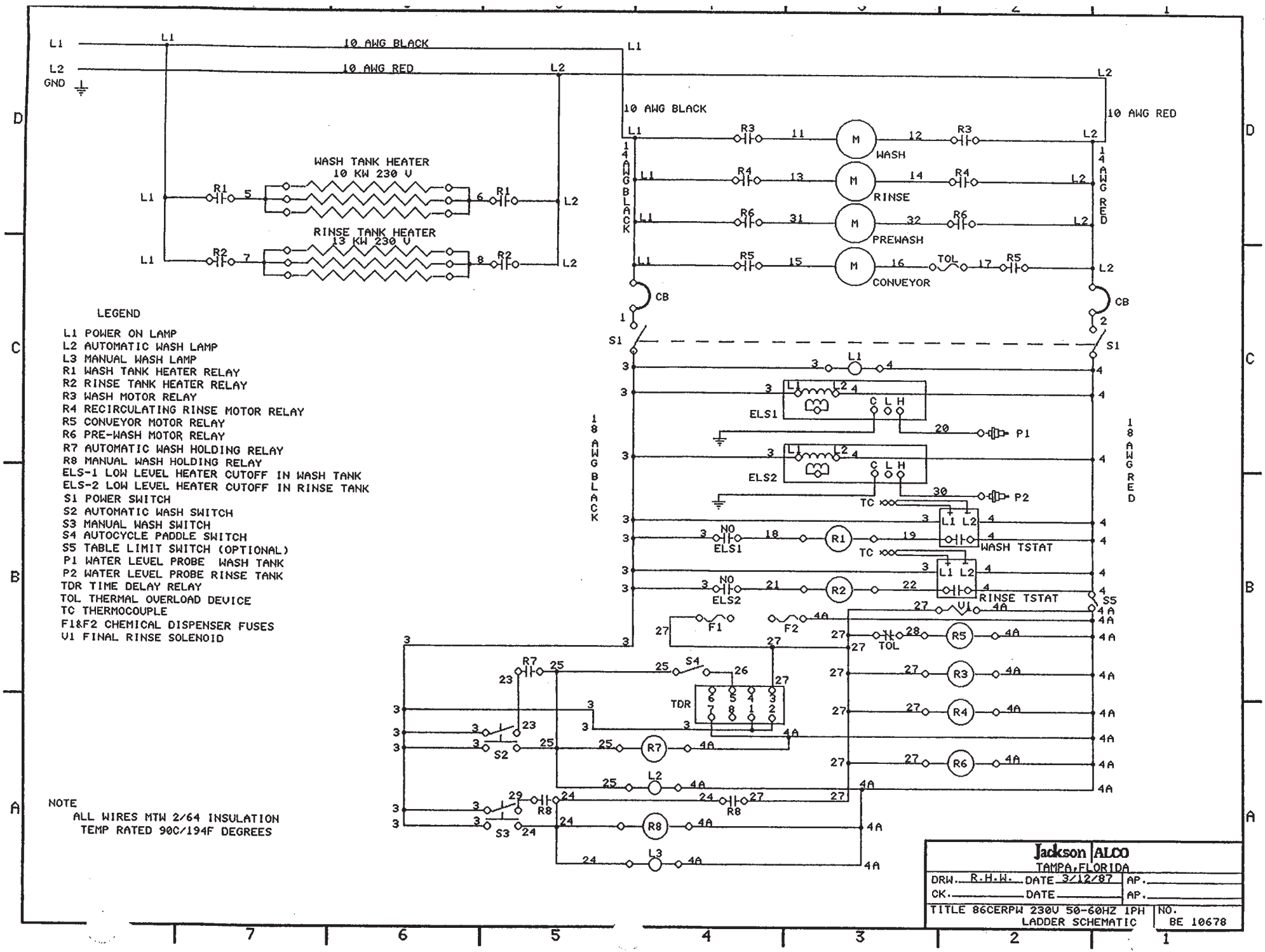
LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
S6 AUTOMATIC FILL SWITCH
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
P3 WATER HIGH LEVEL PROBE WASH TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID
V3 PREWASH TANK FILL SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 208V 50-60HZ 3PH AUTO/FILL LADDER SCHEMATIC		NO. BE 10644	



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID

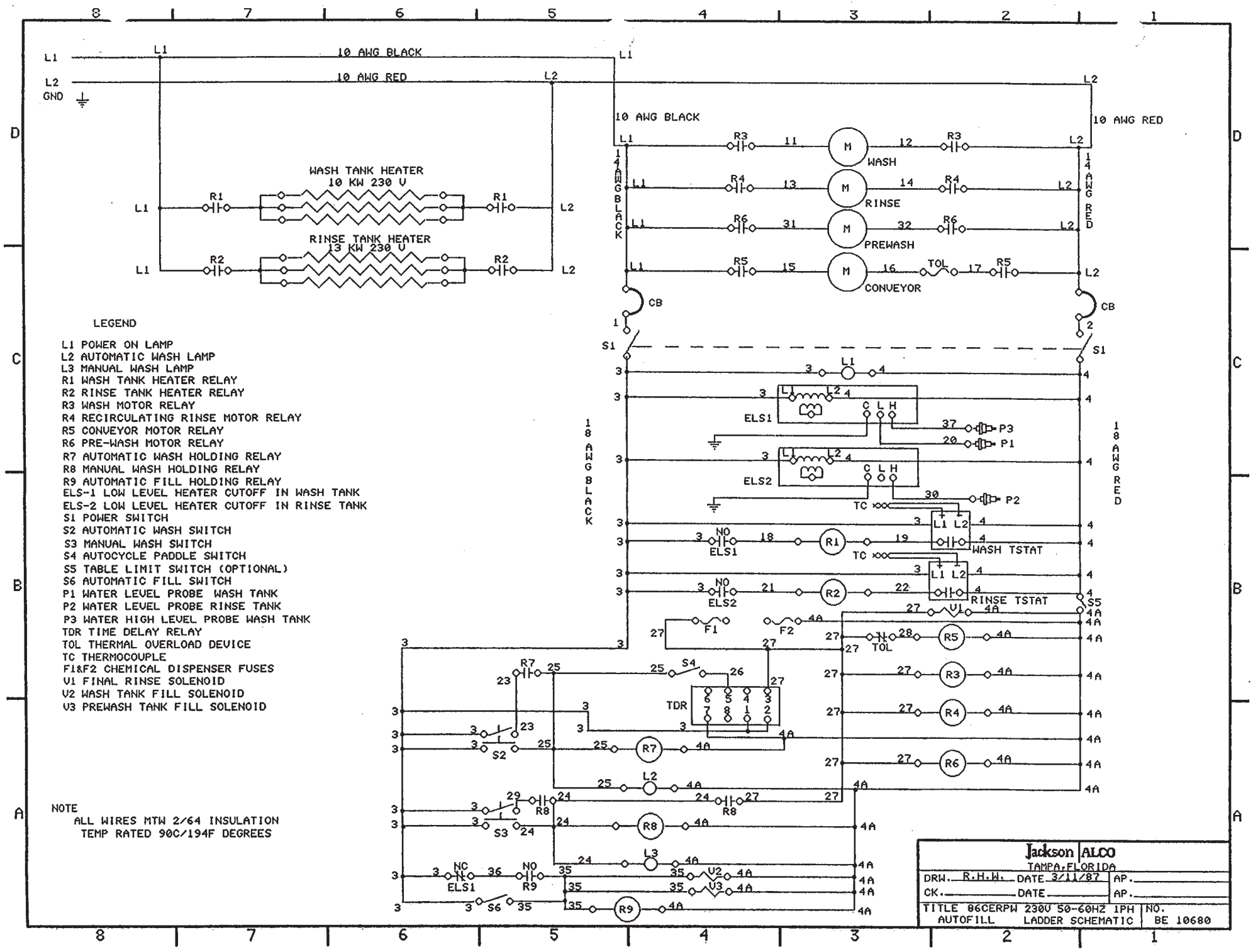
NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/12/87	AP.	
CK.	DATE	AP.	

TITLE 86CERPW 230V 50-60HZ 1PH LADDER SCHEMATIC

NO. BE 10678



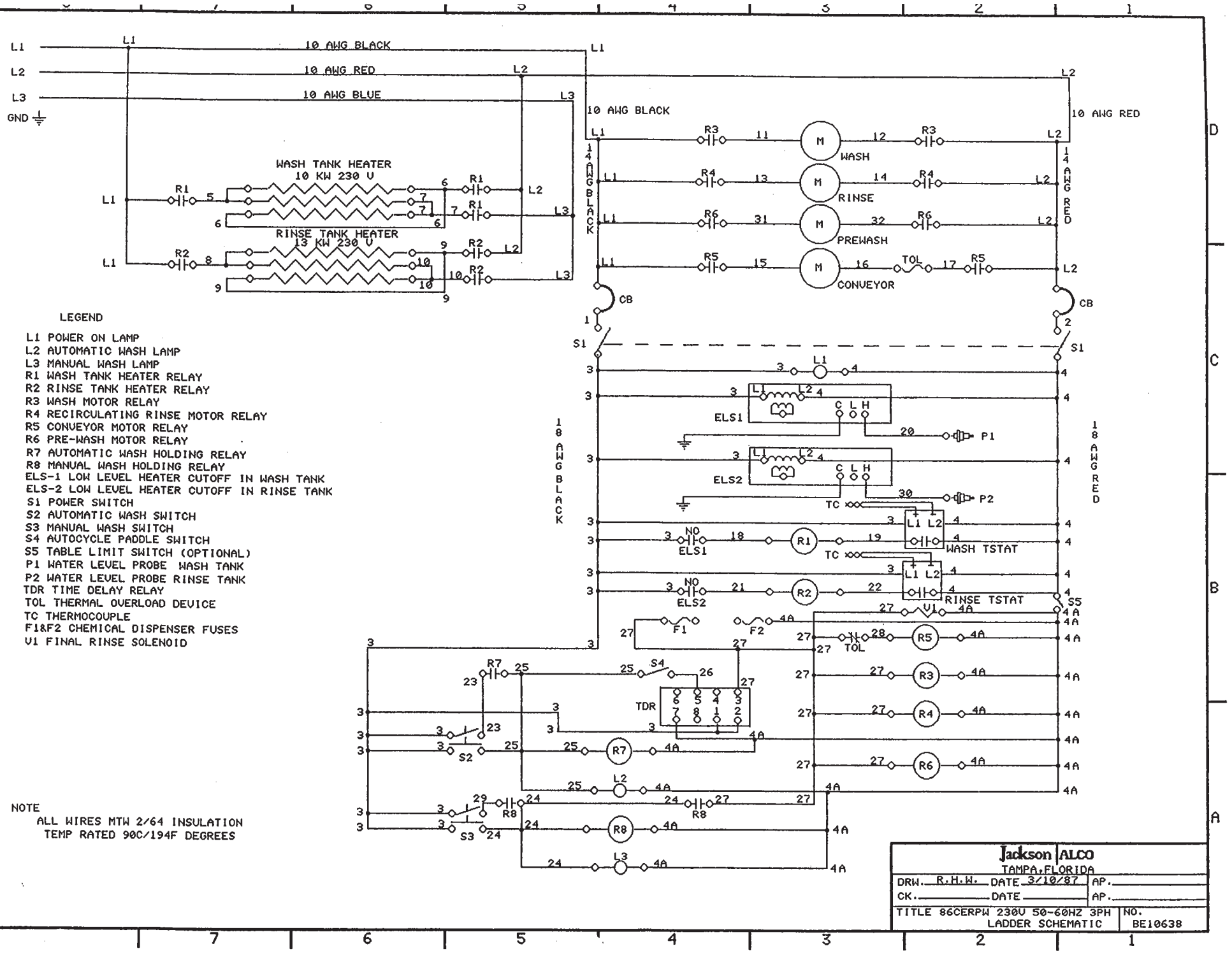
LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
S6 AUTOMATIC FILL SWITCH
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
P3 WATER HIGH LEVEL PROBE WASH TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID
V3 PREWASH TANK FILL SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/11/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 230V 50-60HZ 1PH AUTOFILL LADDER SCHEMATIC		NO.	BE 10680



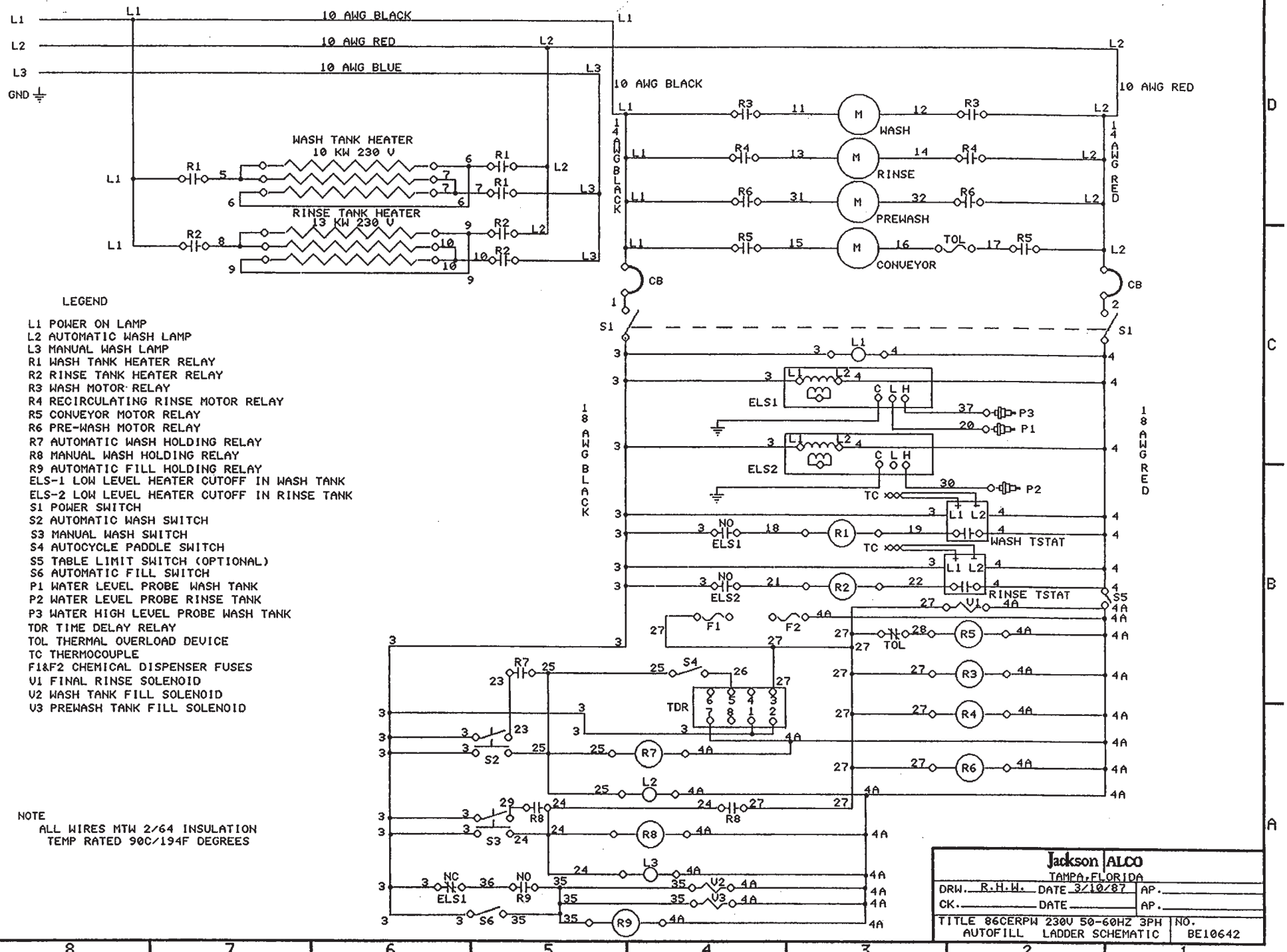
LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 230V 50-60HZ 3PH LADDER SCHEMATIC		NO. BE10638	



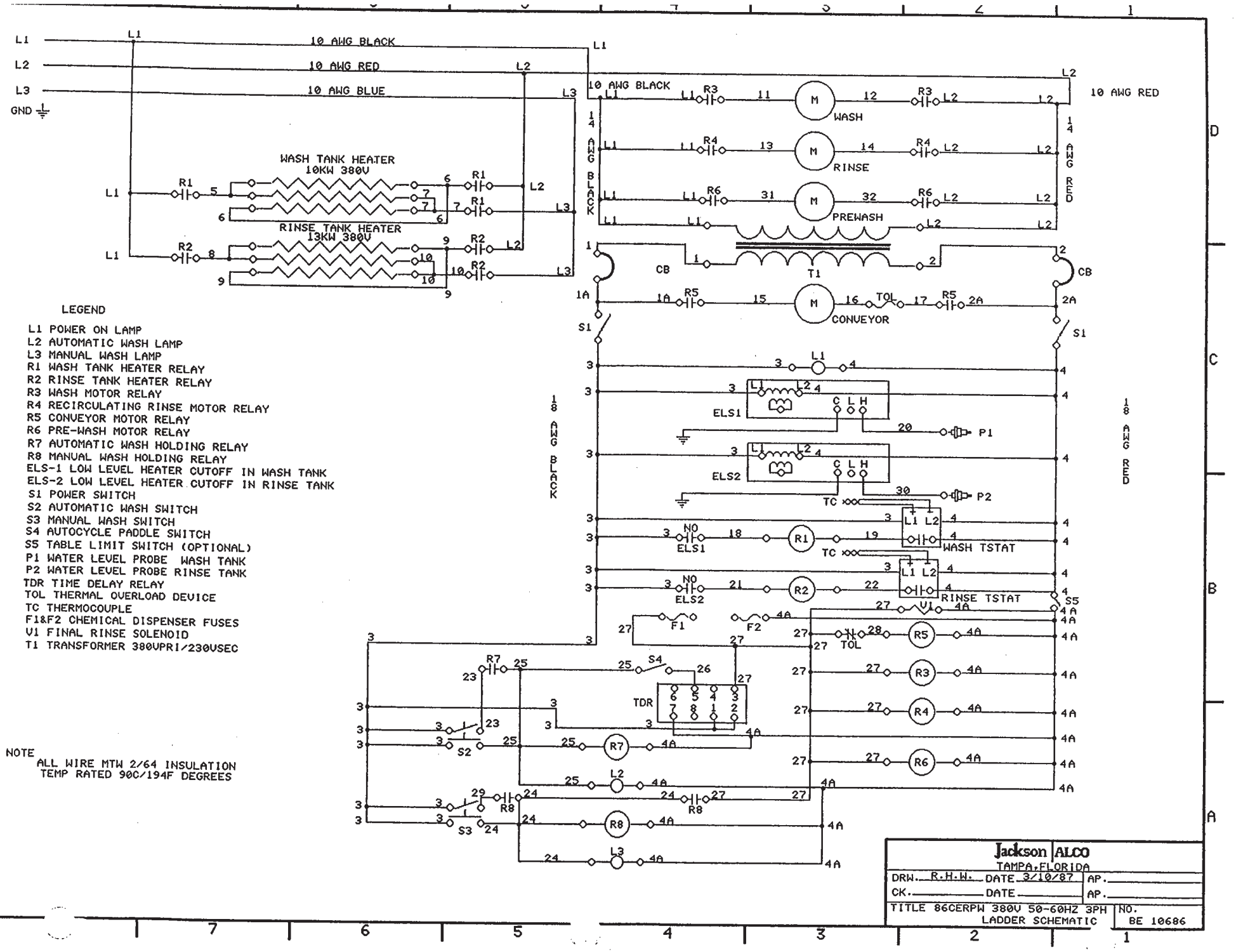
LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
S6 AUTOMATIC FILL SWITCH
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
P3 WATER HIGH LEVEL PROBE WASH TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID
V3 PREWASH TANK FILL SOLENOID

NOTE
ALL WIRES MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 230V 50-60HZ 3PH AUTOFILL LADDER SCHEMATIC		NO.	BE10642



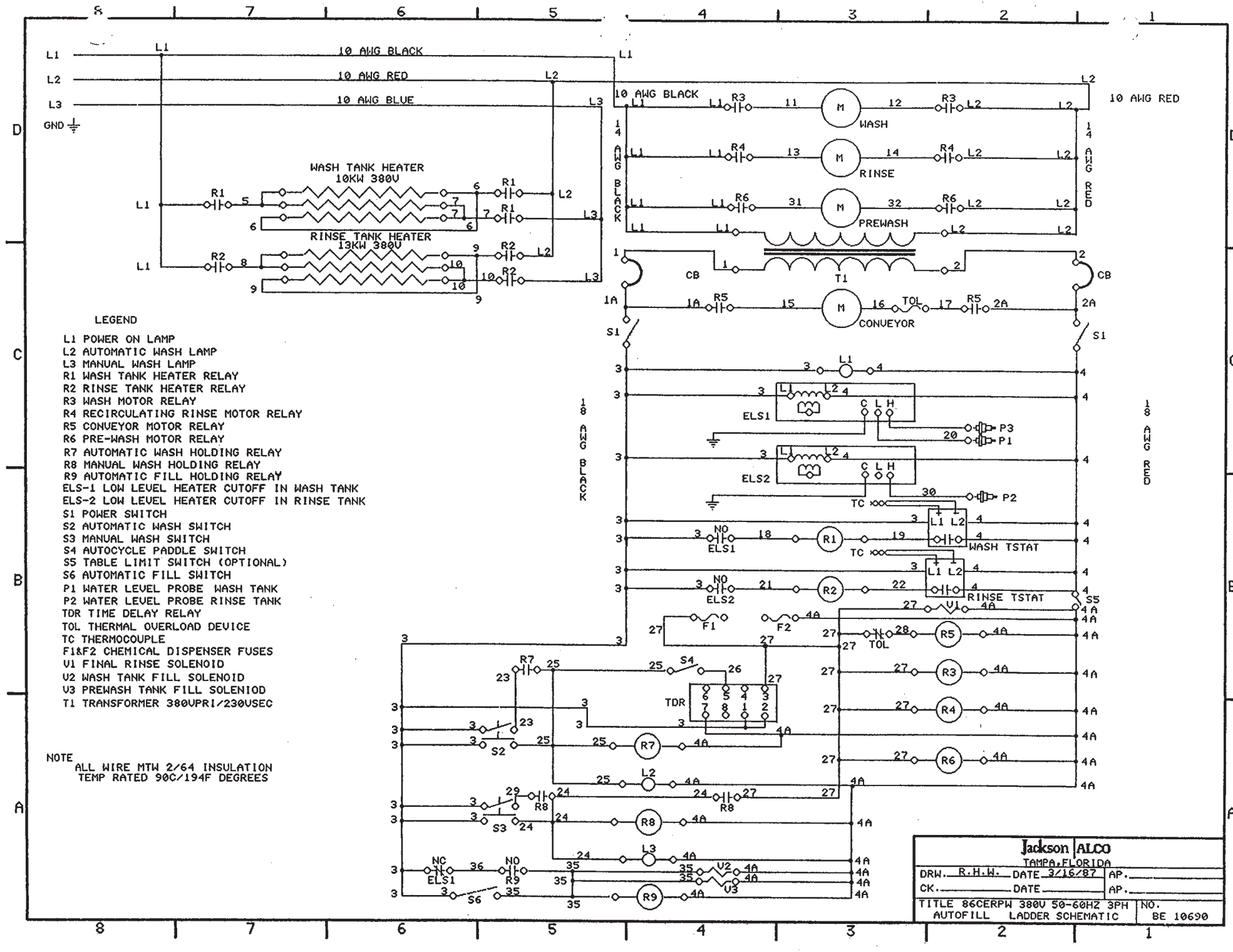
LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
S1 POWER SWITCH
S2 AUTOMATIC WASH SWITCH
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
T1 TRANSFORMER 380VPRI/230VSEC

NOTE
ALL WIRE MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 380V 50-60HZ 3PH LADDER SCHEMATIC		NO.	BE 10686



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
R8 MANUAL WASH HOLDING RELAY
R9 AUTOMATIC FILL HOLDING RELAY
ELS-1 LOW LEVEL HEATER CUTOFF IN WASH TANK
ELS-2 LOW LEVEL HEATER CUTOFF IN RINSE TANK
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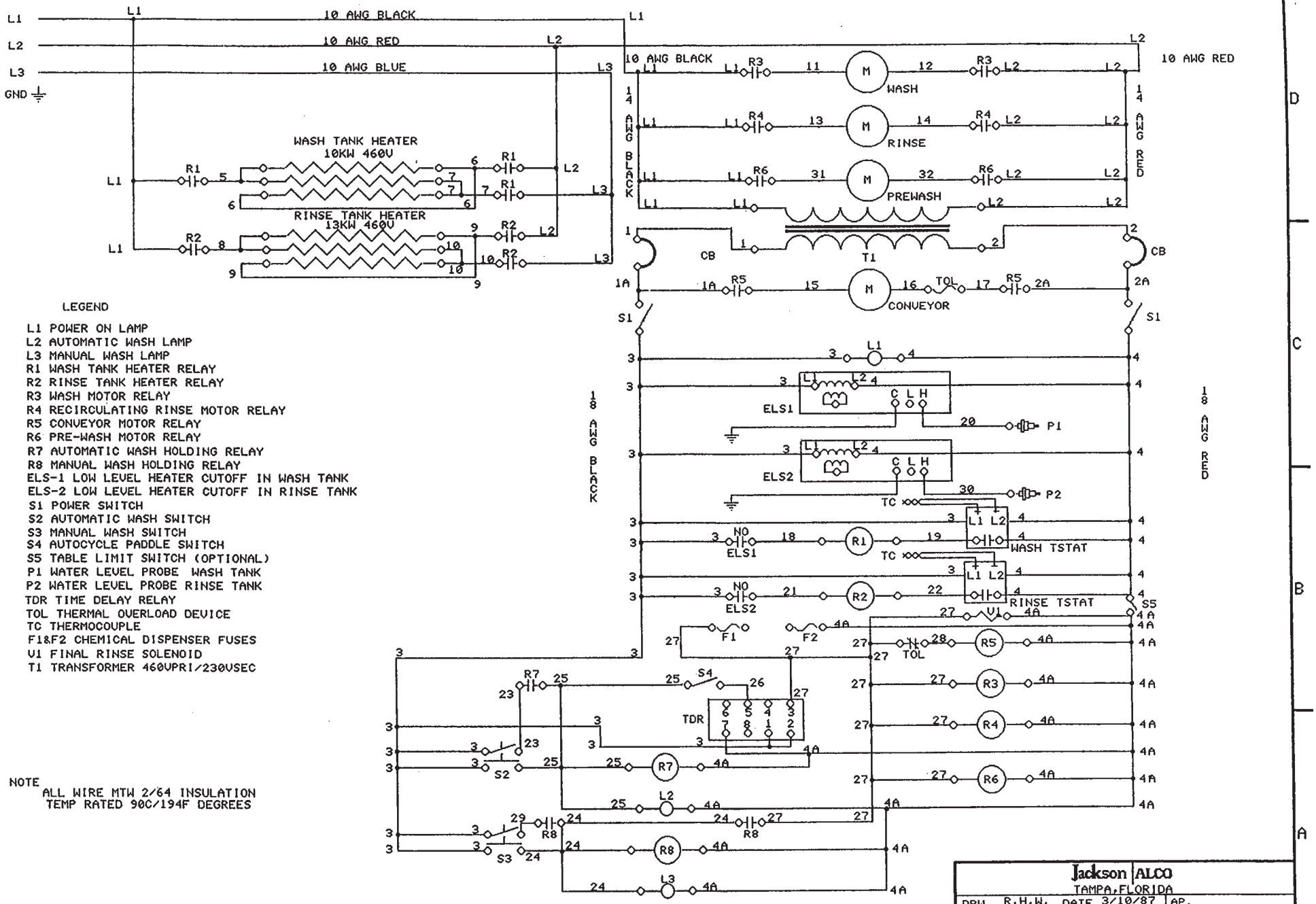
S3 MANUAL WASH SWITCH
S4 AUTOCYCLE PADDLE SWITCH
S5 TABLE LIMIT SWITCH (OPTIONAL)
S6 AUTOMATIC FILL SWITCH
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2 WASH TANK FILL SOLENOID
V3 PREWASH TANK FILL SOLENIOD
T1 TRANSFORMER 380VPRI/230VSEC

NOTE
ALL WIRE MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/16/87	AP.	
CK.	DATE	AP.	
TITLE 86CERPW 380V 50-60HZ 3PH AUTOFILL LADDER SCHEMATIC		NO.	BE 10690



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
R5 CONVEYOR MOTOR RELAY
R6 PRE-WASH MOTOR RELAY
R7 AUTOMATIC WASH HOLDING RELAY
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S5 TABLE LIMIT SWITCH (OPTIONAL)
P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
T1 TRANSFORMER 460VPRI/230VSEC

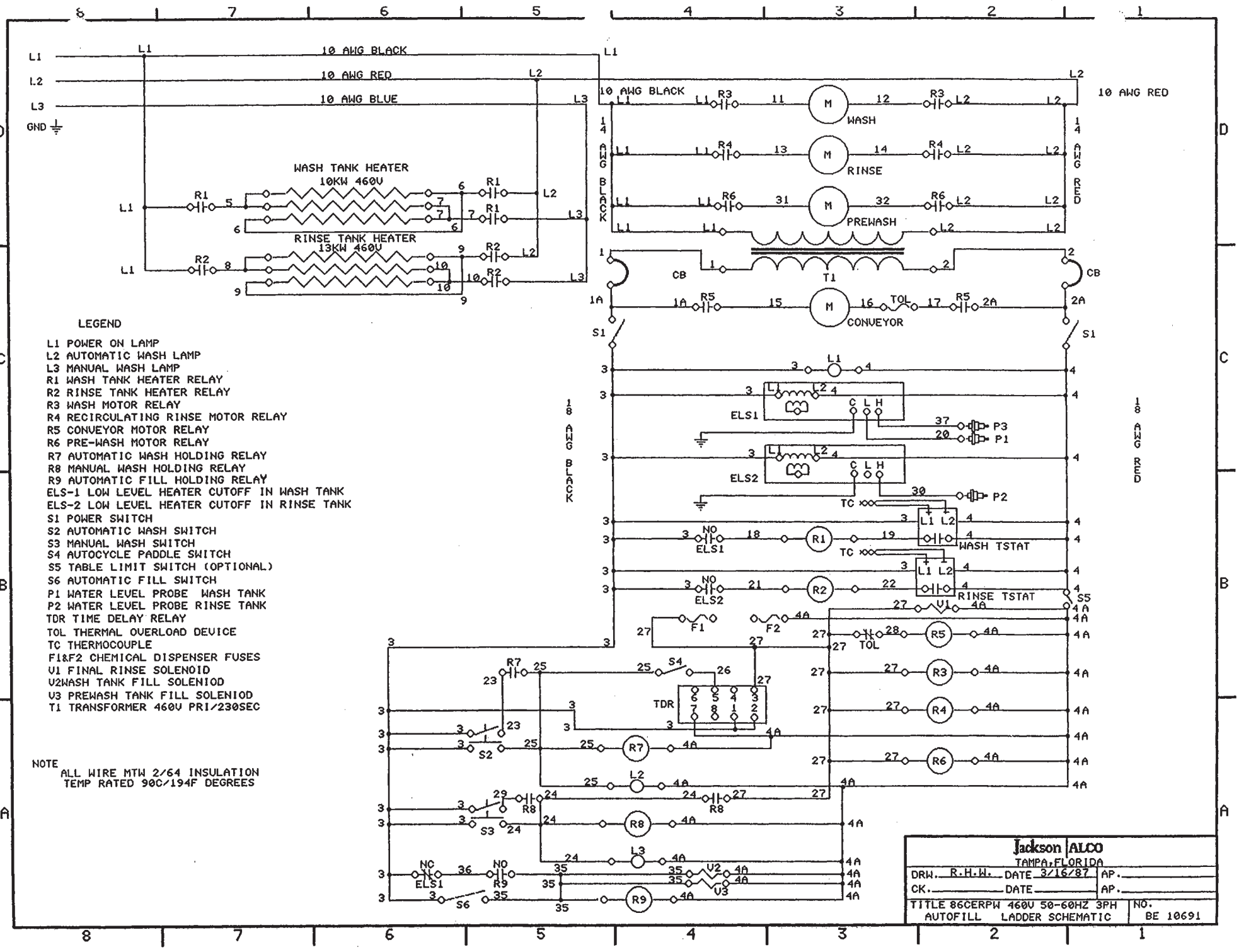
NOTE
ALL WIRE MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson | ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/10/87	AP.	
CK.	DATE	AP.	

TITLE 86CERPW 460V 50-60HZ 3PH LADDER SCHEMATIC

NO. BE 10687



LEGEND

L1 POWER ON LAMP
L2 AUTOMATIC WASH LAMP
L3 MANUAL WASH LAMP
R1 WASH TANK HEATER RELAY
R2 RINSE TANK HEATER RELAY
R3 WASH MOTOR RELAY
R4 RECIRCULATING RINSE MOTOR RELAY
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R6 PRE-WASH MOTOR RELAY
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R9 AUTOMATIC FILL HOLDING RELAY
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P1 WATER LEVEL PROBE WASH TANK
P2 WATER LEVEL PROBE RINSE TANK
TDR TIME DELAY RELAY
TOL THERMAL OVERLOAD DEVICE
TC THERMOCOUPLE
F1&F2 CHEMICAL DISPENSER FUSES
V1 FINAL RINSE SOLENOID
V2WASH TANK FILL SOLENIOD
V3 PREWASH TANK FILL SOLENIOD
T1 TRANSFORMER 460V PRI/230SEC

NOTE
ALL WIRE MTW 2/64 INSULATION
TEMP RATED 90C/194F DEGREES

Jackson ALCO
TAMPA, FLORIDA

DRW. R.H.W.	DATE 3/16/87	AP.	
CK.	DATE	AP.	

TITLE 86CERPW 460V 50-60HZ 3PH AUTOFILL LADDER SCHEMATIC

NO. BE 10691

COMPLETE PARTS LIST for 64C/86CRPW

0012400	Circuit Breaker, 2-Pole, 20A
0029800	Control Box, Lock
0034800	Conveyor Drive Motor, ¼ HP, 220V, 60 CY, 1 PH, 45 RPM (For 50 Cycle Units)
0034900	Conveyor Drive Motor, ¼ HP, 220V, 60 CY, 1 PH, 30 RPM (For 60 Cycle Units)
0035001	Conveyor Drive Shaft Adapter, For Motor
0035300	Conveyor Drive Arm
0035500	Conveyor Drive Arm Linkage
0036000	Conveyor Drive Rod Arm
0036100	Conveyor Drive Rod, Bearing Bracket Assembly
0036501	Conveyor Drive Cam Wheel (For 50 Cycle Units, Used with 45 RPM Motor)
0036502	Conveyor Drive Cam Wheel (For 60 Cycle Units, Used with 30 RPM Motor)
0036600	Conveyor Drive Cam and Clutch Assembly
0037501	Conveyor Drive, Socket Head Bolt
0038001	Conveyor Drive Cam Follower Bearing
0038100	Conveyor Drive Cam, Follower Bearing Locknut
0038501	Conveyor Drive Clutch, Torque Limiter
0039001	Conveyor Drive Clutch, Adapter Plate
0039501	Conveyor Drive Bushing, for Cam Wheel
0040000	Conveyor Drive Rod Bearing
0040500	Conveyor Drive Rod Wiper
0041000	Conveyor Drive Shoulder Screw, ¼"
0041500	Conveyor Drive Shoulder Screw, ⅜"
0042300	Conveyor Pawl Bar Idler Roller
0042400	Conveyor Pawl Bar Idler Roller Bushing
0042700	Conveyor Pawl Bar Assembly (64")
0042800	Conveyor Pawl Bar Side (64")
0042900	Conveyor Pawl Bar, Drive Connector Pin
0043001	Conveyor Pawl Bar Pawl (Dog)
0043100	Conveyor Pawl Bar Assembly (86")
0043200	Conveyor Pawl Bar Side (86")
0043500	Conveyor Pawl Bar Spacer Pin
0044000	Conveyor Pawl Bar Spacer Bushing
0044600	Conveyor Pawl Bar Bolt
0044700	Conveyor Pawl Bar Locknut
0045000	Pawl Bar Dog Stop
0045200	Curtain Rod
0045300	Curtain, Medium
0045301	Curtain, Short
0045302	Curtain, Long
0050000	Door Assembly, Wash or Rinse
0050100	Door Assembly, Pre-Wash
0050200	Door Strip, Nylatron
0050300	Door Catch
0053000	Door Handle
0053202	Drain Stopper 'O' Ring
0053206	Drain Overflow Stopper, Wash
0053207	Drain Overflow Stopper, Pre-Wash
0054002	Drain 'O' Ring (For Lever Operated Drain)
0054003	Drain, Lever Operated
0055800	Feed-Water Trough (For Make Up Water) Located Between Power Rinse and Wash Tank
0056100	Gauge, Pressure, 0-15, Panel Mount Rear Connection
0059100	Heater Element, Wash, 380V, 10KW
0059101	Heater Element, Wash, 460V, 10KW
0059200	Heater Element, Power Rinse, 380V, 13KW
0059201	Heater Element, Gasket
0059202	Heater Element, Power Rinse, 460V, 13KW

COMPLETE PARTS LIST for 64C/86CRPW

0059400	Heater Element, Wash, 230V, 10KW
0059401	Heater Element, Wash, 208V, 10KW
0059500	Heater Element, Power Rinse, 230V, 13KW
0059501	Heater Element, Power Rinse, 208V, 13KW
0083105	Leg, Leveling Foot
0083501	Light, Indicator, Amber
0083518	Light, Indicator, Red
0084500	Probe, Warrick
0087700	Pump and Motor Assembly, ½ HP, 380V, 50 CY, 1 PH, 2850 RPM (22″ PW)
0087701	Pump Motor, ½ HP, 380V, 50 CY, 1 PH, 2850 RPM (22″ PW)
0087702	Pump Seal (22″ PW)
0087703	Pump Gasket (22″ PW)
0087704	Pump and Motor Assembly, ½ HP, 220 V, 60 CY, 1 PH, 3450 RPM (22″ PW)
0087705	Pump Motor, ½ HP, 460V, 60 CY, 1 PH, 3450 RPM (22″ PW)
0087706	Pump and Motor Assembly, ½ HP, 460V, 60 CY, 1 PH, 3450 RPM (22″ PW)
0087707	Pump Motor, ½ HP, 220V, 60 CY, 1 PH, 3450 RPM (22″ PW)
0087800	Pump and Motor Assembly, 1 HP, 380V, 50 CY, 1 PH, 1450 RPM
0087801	Pump Motor, 1 HP, 380V, 50 CY, 1 PH, 1450 RPM
0087802	Pump and Motor Assembly, 1 HP, 460V, 60 CY, 1 PH, 1725 RPM
0087803	Pump Motor, 1 HP, 460V, 60 CY, 1 PH, 1725 RPM
0102000	Pump and Motor Assembly, 1 HP, 220V, 60 CY, 1 PH, 1725 RPM
0102700	Pump Motor, 1 HP, 220V, 60 CY, 1 PH, 1725 RPM
0104500	Pump Mounting Plate
0105000	Pump Seal and Ceramic
0105500	Pump Impeller
0106000	Pump Gasket
0106500	Pump Woodruff Key
0107000	Pump Bolt, Impeller, S/S 5/16-18 × 1″
0107500	Pump Washer, for Impeller Bolt
0108000	Pump, Snap Ring
0118500	Regulator, Pressure, ½″ Watts
0119500	Regulator Repair Kit, Pressure, ½″ Watts
0122000	Relay, 2-Pole, 220V, 30 AMP
0123000	Relay, 3-Pole, 220V
0123300	Relay, 220V, SPDT
0124700	Relay, Overload (For Conveyor Motor) with Heater
0124900	Relay, 220V, DPDT
0137600	Rinse or Cycle Actuator Rod and Paddle
0137601	Rinse or Cycle Actuator Rod and Paddle (22″ PW)
0137700	Rinse or Cycle Actuator Rod Bushing
0137701	Rinse or Cycle Actuator Helper Spring
0137702	Rinse or Cycle Actuator Limit Switch Bracket
0137800	Rinse or Cycle Actuator Coupling
0137801	Rinse or Cycle Actuator Coupling Rolled Pin
0137900	Rinse or Cycle Actuator Rod Bracket
0138100	Rinse Head Assembly, Final
0139000	Rinse Spray Nozzles, Final, Upper, ¼″
0139500	Rinse Spray Nozzles, Final, Lower, ⅛″
0140000	Rinse End Plugs, ½″ Pipe Plugs
0142500	Solenoid Valve, ½″, 220V
0144100	Solenoid Valve Coil, 220V, JE
0145000	Solenoid Valve Diaphragm Kit, ½″
0148600	Solenoid Valve Plunger, JE
0152500	Strainer, Pump Intake
0152800	Strainer, Basket (22″ PW)
0152801	Strainer, Pan (22″ PW)

COMPLETE PARTS LIST for 64C/86CRPW

0152802	Strainer, Pan (Wash and Rinse)
0153600	Strainer, 'Y', ½"
0155600	Switch, DPDT, 3 Position Momentary, Rocker Type
0162000	Switch, DPST, Rocker Type
0163500	Switch, Limit (L-R Operation)
0163600	Switch, Limit (R-L Operation)
0165500	Terminal Board, 3-Pole
0167000	Terminal Board, 9-Pole, Slip Terminal
0167100	Terminal Board, 9-Pole
0167101	Terminal Board Jumpers
0168900	Thermometer, 2½" Dial
0169100	Thermometer, 3-Foot Capillary
0170100	Thermostat, Solid State, 150 Degree Fixed
0170101	Thermostat, Solid State, 160 Degree Fixed
0170102	Thermocouple Probe
0170300	Time Delay Relay
0170303	Time Delay Relay Socket
0180401	Track Assembly, Front or Back (64")
0180402	Track Assembly, Front or Back (86")
0180600	Transformer, 500 KVA, 380/220V
0180601	Transformer, 500 KVA, 460/220V
0184101	Vacuum Breaker, ½" Conbraco
0184200	Vacuum Breaker Repair Kit, ½" Conbraco
0184900	Valve, ½" Fill
0185000	Valve, ¼" (For Pressure Gauge)
0199100	Wash Head Tube Assembly (22" PW)
0199200	Wash and Rinse Head Tube Assembly (64")
0199201	Wash Head End Plug
0199202	Wash Head Tube, Release Mechanism
0205000	Water Level Control, 220V