

# **OWNER'S MANUAL**

**OPERATION & SERVICE PARTS**

**INTERCONT MODEL TL-5036**



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## **SAFETY**

### **READ ALL SAFETY CAUTIONS BEFORE OPERATING WASHER!**

#### **CAUTION! RISK OF ELECTRICAL SHOCK/ ELECTROCUTION!**

- Washer installation and connections must comply with all local, state, and national codes.
- Washer must be connected to a permanent wiring system and a properly grounded source with adequate voltage and fuse protection.
- **Disconnect from power source when doing service repairs!**
- Washer should not be operated with open, removed, or damaged electrical enclosures.
- Washer and/or electrical supply and connections should not be touched by operator while standing in water or with wet hands.

#### **CAUTION! RISK OF EXPLOSION OR FIRE!**

- Washer should be operated in an environment free from flammable or combustible cleaning solutions, materials, or atmosphere.
- Washer should use only original equipment or equal replacement parts.
- Washer with natural/LP gas heat source option (see installation section).

#### **CAUTION! RISK OF BURNS**

- Washer cabinet, heater elements, parts, and cleaning solution should be cool before maintenance and service repairs.

#### **CAUTION! RISK OF MOVING PARTS AND BODILY INJURY!**

- Washer lid must be closed during wash cycle.
- Washer power should be disconnected and covers in place during circuit adjustments.
- Operator and maintenance personnel should be thoroughly familiar with controls and Intercont Operations & Service Parts Manual contents.

# **INSTALLATION**

## **LOCATION AND PLACEMENT**

- A qualified serviceman should install washer in a non-freezing, dry environment away from damaging winds and rain. Normal precautions should be taken to protect electrical controls or power.
- Washer should be in area that is free from flammable or combustible materials, gas vapors, insufficient ventilation, or oil/fuel leaks.
- Washer should be on level surface to insure proper pump performance, avoid tank spillage, and to insure complete sealing of the lid.
- Washer should be accessible for operation, maintenance, troubleshooting, and service.
- Washer with Natural/LP gas heat source option must have gas exhaust draft inverted funnel type diverter. Gas exhaust line must conform to local codes or national fuel gas code nfp54/ansiz223.1.

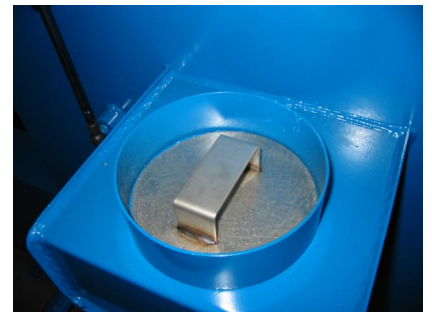
## **ELECTRICAL**

- A qualified electrician should perform all electrical requirements including a properly grounded outlet and compliance with all local, state, and national codes.
- Washer includes control box wiring that must be supplied with incoming electrical service power which must meet washer requirements specified on nameplate.
- Correct pump rotation, secure connections, and cover replacement must be insured before operation

# OPERATING INSTRUCTIONS

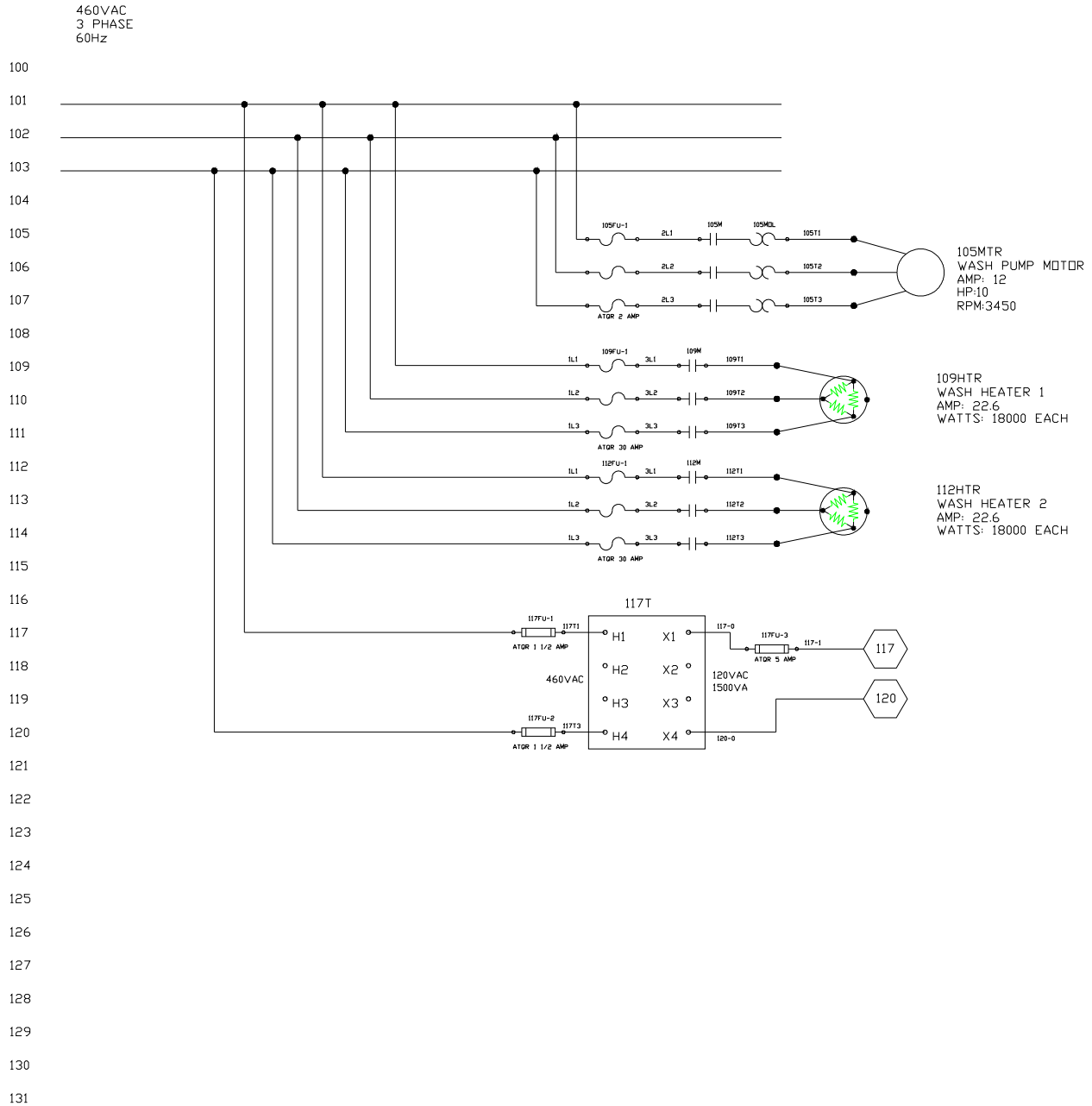
1. Fill and maintain water level to below tank debris screen.
2. Connect service power at start of work period.\*
3. Turn heater switch on and heat water to required operating temperature.\*
4. Add appropriate soap amount to hot water. **Never add soap to cold water!**
5. Run washer for 10 minutes.
6. Load and secure parts in washer.
7. Close lid (see instructions below).
8. Turn wash timer on to required wash cycle.
9. Turn heater switch off at end of work period.
10. Turn oil skimmer switch on when water is cold and pump is off as required.
11. Disconnect service power at end of work period.

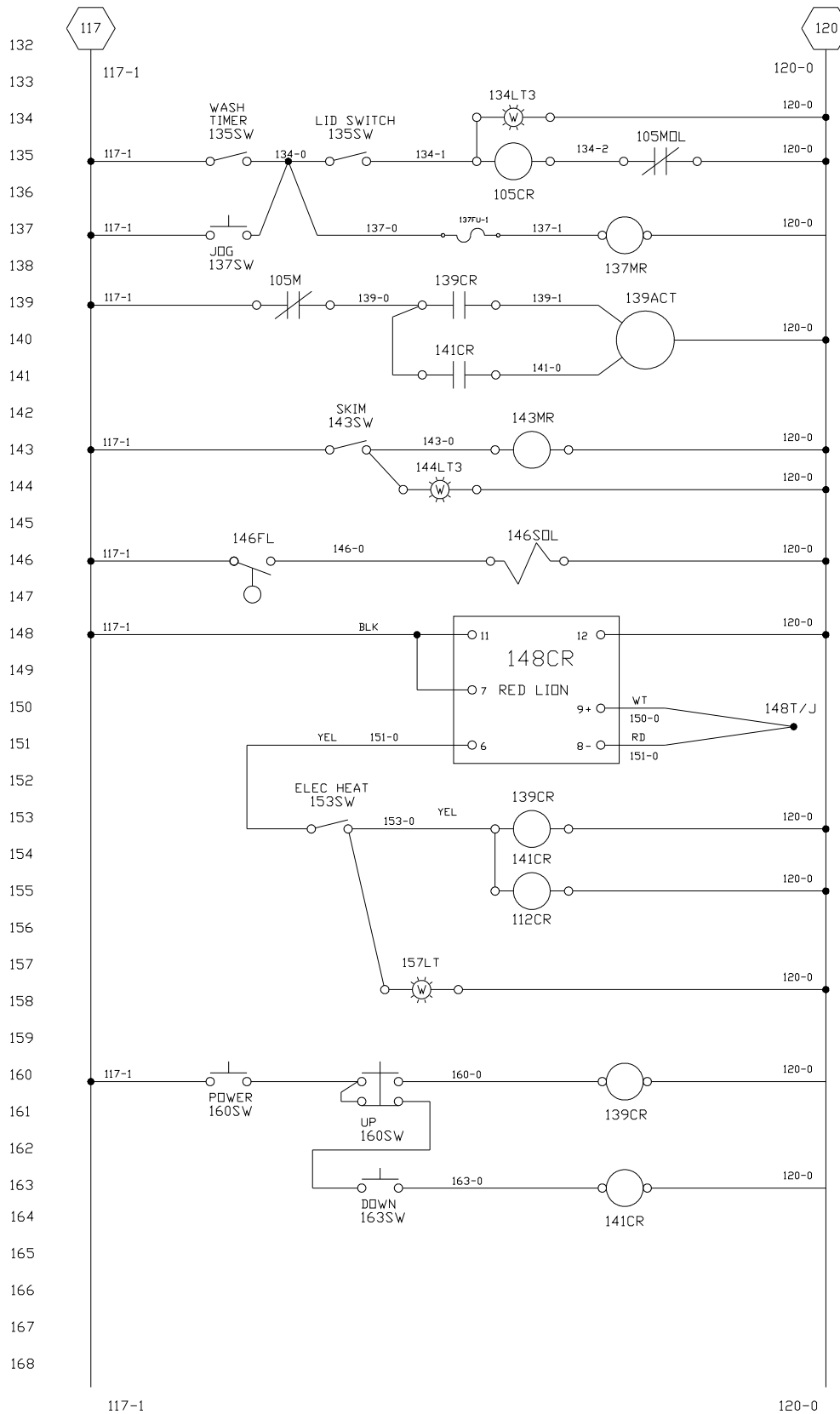
A stainless steel lid is temporarily installed in the exit port of the steam exhaust transition. If the installation includes the external ducting of the steam exhaust then this lid should be removed. If no external ducting is done then it is the owner's option to remove or retain the lid during operation



12. Lid operation:
  - A. The operation of the lid requires that the operator use both hands to open and close the lid.
  - B. On the front of the control panel (next to the wash cycle timer) is a "Lid Power" button that must be depressed when opening or closing the lid.
  - C. On the back of the control panel are two buttons. One button is specified for opening and the other for closing. Power button must be depressed when activating either the open or close button.

# ELECTRICAL SCHEMATIC (460 volt/3 phase /60 cycle)







## **TL-5036 SPECIFICATIONS**

Intercont Products Model FL-5036 top loading heavy heavy duty washer with following machine specifications:

- Washer features a 50 inch diameter gear driven turntable with a 1,500 pound load capacity
- The operational inside vertical clearance is 36 inches
- The lid is mechanically operated with the assist of a linear actuator and two heavy duty gas shocks. The lid must be in the full down position before the wash pump can be operated
- Switch operated stainless disc type oil skimmer
- 36 kW electric heat (2 x 18 kW)
- Tank debris screen
- 10 hp cast iron vertical sealless pump w/screen (250 GPM @ 50 PSI)
- 60 min. spring wound wash timer
- Digital thermostat with LED display
- 260 gallon cleaning solution tank
- Low water shut-off switch & automatic solution refill
- 460/60/3 electrical requirements
- 12 gauge carbon steel tank and lid construction
- Precaution blue paint
- Full load amp requirements are approximately 52.5 based on 460 volt power



## MAINTENANCE

The following steps of action are to be taken on a daily, weekly, or monthly basis depending on usage or need:

1. Check and maintain cleaning solution level by replacing water and soap before or upon low water shut-off switch actuation. *(Note: This should be done automatically as required, but it is always a good idea to visually confirm system levels periodically.)*
2. Clean or back-flush clogged spray jet nozzles as required.
3. Remove and clean the two tank debris screens located on the thermal barrier floor located in the inside of the front of the washer. *(Note: This procedure may be required multiple times per day depending on the contamination level and type being removed from the components being processed.)*
4. Clean pump suction screen as required.
5. Remove oil, grease, and sludge from tank by:
  - a. Operating oil skimmer with cold cleaning solution.
  - b. Disconnecting service power, draining/pumping out dirty cleaning solution, **Remove skimmer for service** removing all contaminants/sludge, and rinsing inside of tank into containers for disposal and compliance with local DEP/EPA regulations.
6. Fill tank with clean water and follow operating instructions.
8. Clean, rinse, and remove cleaning solution from washer surface.
9. Drain and remove cleaning solution from the tank when moving the washer to avoid possible damage.



# TROUBLESHOOTING

## CONTROL BOX

“Nothing works!”

- Check electric service power source, safety warnings, and installation of connections for compliance with local, state, and national codes.
- Check electric service power source, control box, fuses, and wiring for tightness and grounding and conformance with recommended and specified washer voltage and amperage requirements.

## HEATING CIRCUIT

“My water won’t heat up!”

- Remove heater fuses, check continuity, and replace blown fuses.
- Check and replace failed heater elements-**Do not over-tighten!**
- Check and replace failed thermostat.
- Check cleaning solution level.
- Check, clean, or replace low water shut-off switch and/or float ball.
- Check water hardness & soap quality.

“My heater won’t shut off!”

- Check and replace failed thermostat.

“There’s a loud whining/whistling sound with just my heater on!”

- Common electricity sound transfer through heater element during start-up.

## PUMP CIRCUIT

“My pump won’t spray!”

- Insure that lid safety switch is properly adjusted and depressing the “lid safety” switch just above the control panel.
- Remove pump fuses, check continuity, and replace blown fuses.
- Check for clogged spray jet nozzles.
- Check for plugged suction screen.
- Check motor condition and rotation.
- Check cleaning solution level, temperature, and quality and eliminate cavitations, boiling, and foaming.

# **TROUBLESHOOTING (CONT.)**

## **TURNTABLE CIRCUIT**

“My turntable won’t turn!”

- Check control box face button/fuse actuation and replace blown fuse.
- Remove drive gear motor and transformer fuses, check continuity, and replace blown fuses.
- Check shaft turning, set screw on gear shaft, and tighten if loose.

## **OIL SKIMMER CIRCUIT**

“My oil skimmer won’t turn!”

- Check drive gear motor and transformer fuse continuity and replace blown fuses.
- Check set screw on skimmer wheel and tighten if loose.
- Check cover to motor mounting face bolts and loosen over-tightened bolts.
- Check gear motor and determine if shaft can be turned manually. if not, replace gear motor.

## **LID CIRCUIT**

“My lid won’t operate!”

- Insure that lid safety switch is properly adjusted and depressing the “lid safety” switch just above the control panel.
- Check micro switch set points in lid operating linear actuator.
- Remove fuses, check continuity, and replace blown fuses.

## **SERVICE PARTS**

Intercont & Process Solutions products service parts

- P/N PS-1702 18 KW HEATER ELEMENT (2 EA. REQ'D.)
- P/N PS-1729 THERMOSTAT
- P/N PS-1819 24 HR./7 DAY HEATER TIMER (OPT)
- P/N PS-1819 24 HR./7 DAY SKIMMER TIMER (OPT)
- P/N PS-12108 10 HP 3PH VERTICAL SEALESS PUMP
- P/N PS-6102-A PUMP SUCTION SCREEN
- P/N PS-2006 SPRAY JET NOZZLE (26 EA. REQ'D.)
- P/N PS-12203.1 TURNTABLE DRIVE GEARMOTOR
- P/N PS-4848 TD GEARMOTOR SHAFT ARBOR
- P/N PS-14304 TURNTABLE DRIVE GEAR
- P/N PS-1914 TURNTABLE JOG SWITCH
- P/N PS-12212 OIL SKIMMER GEARMOTOR
- P/N PS-14608.2 OS GEARMOTOR SHAFT ARBOR
- P/N PS-14622 OIL SKIMMER WHEEL
- P/N PS-14629 OIL SKIMMER WIPER
- P/N PS-1911 OIL SKIMMER TOGGLE SWITCH
- P/N PS-1911 HEATER TOGGLE SWITCH
- P/N PS-1800.1 60 MIN. SPRING WOUND WASH TIMER
- P/N PS-1914 DOOR SAFETY SWITCH
- P/N PS-3005 LOW WATER SHUT-OFF/AWF SWITCH
- P/N PS-1956 AUTO WATER FILL SOLENOID VALVE
- P/N PS-4842 SPINDLE HUB
- P/N PS-LA482.5 LID OPERATION ACTUATOR

# **WARRANTY POLICY**

## **ONE-YEAR LIMITED WARRANTY**

WASHER PARTS AND CABINET ARE WARRANTED TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SHIPMENT. NORMAL WEAR PARTS, DAMAGE RESULTING FROM NEGLIGENCE, CARELESSNESS, ABUSE, MISUSE, ABNORMAL USE, TAMPERING, USE OR ADDITION OF NON PARTS WASHER SALES OR SUPPLIER PARTS WHICH IMPAIR PROPER OPERATION ARE NOT COVERED UNDER WARRANTY.

## **LIABILITY LIMITATION**

LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES IS EXPRESSLY DISCLAIMED TO THE EXTENT ALLOWABLE UNDER APPLICABLE LAW. PARTS WASHER SALES PRODUCTS CANNOT BE HELD RESPONSIBLE FOR INJURY, EITHER PERSONAL OR PROPERTY SUSTAINED THROUGH WASHER OPERATION OR USAGE.

## **WARRANTY DISCLAIMER**

WARRANTY IS EXPRESSLY MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

## **WASHER SUITABILITY**

PARTS WASHER SALES PRODUCTS DOES NOT GUARANTEE WASHER COMPLIANCE WITH LOCAL, STATE, OR NATIONAL CODES OR REGULATIONS AND CANNOT BE HELD RESPONSIBLE FOR APPLICATION, INSTALLATION, OR CLEANING SOLUTION DISPOSAL.

## **RETURN AUTHORIZATION**

RETURN AUTHORIZATION IS REQUIRED TO RETURN PARTS OR WASHER TO FACTORY FOR WARRANTY CONSIDERATION. WARRANTY POLICY INCLUDES REPAIR OR REPLACEMENT AND IS CONTINGENT UPON HTC FACTORY'S INSPECTION AND JUDGMENT. DEFECTIVE PARTS AND/OR WASHER SHOULD BE RETURNED TO HTC FACTORY ADDRESS VIA PREPAID FREIGHT. WASHER SHOULD BE EMPTY, WITH CLEANED OUT TANK, PALLETIZED WITH SHRINKWRAP/CARDBOARD PROTECTION, AND SECURED WITH STRAPS OR ROPE FOR SHIPMENT.