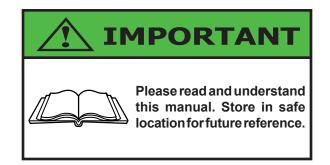


DUUCWB271000-OTC480



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Everyone who operates this unit should understand basic operations and safety precautions! The time you take to fully understand the proper installation, maintenance, and use of the machine will prolong its service life and assure you of trouble free operation.

When unpacking, check to make sure all the parts shown on the Parts Breakdown near the end of this manual are included. If any parts are missing or broken, please call Dultmeier Sales as soon as possible.

Consumers should notice that this manual may differ slightly from the actual product as more improvements are made to our products. Some of the pictures in this manual may differ slightly from the actual product as well. Dultmeier Sales reserves the right to update designs and / or change the specifications at any time without incurring any obligation to install them on units previously sold.

If you have any questions or suggestions about this manual, please contact us at:

1-888-677-5054 dultmeier@dultmeier.com www.dultmeier.com

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To avoid serious or fatal personal injury or major property damage, read and follow all safety and operation instructions in the manual.



This is a Safety Alert Symbol -

When you see this symbol in the manual, look for the following signal words & be on alert to the potential for personal injury or property damage.



Warns of potential hazards that WILL cause serious personal injury, death or property damage.



Warns of potential hazards that CAN cause serious personal injury, death or property damage.



Warns of potential hazards that WILL or CAN cause minor personal injury, death or property damage.



Indicates special instructions that **MUST** be followed but not related to hazards.

This manual is intended to assist in the installation and operation of this unit. Do not attempt to operate this unit without reading and understanding this manual.

General Safety

To avoid the risk of serious bodily injury and property damage, read safety instructions carefully before installing this system. Follow all local and/or national plumbing and electrical codes when installing.



Do Not Allow System or Components to Freeze.

To do so may damage the system and will void the warranty.



Never Run the System Dry.

Running the unit dry (without fluid) can damage internal parts, overheat the pump (which can cause burns to people handling or servicing the pump), and will void the warranty.



Risk of Electric Shock.

Keep the unit dry at all times -

Do not wash the motor or electrical panel or allow the unit to sit in standing water.

Use only Ground Fault Circuit Interrupter (GFCI) protected grounded outlet for the cord plug. If you must use an extension cord, use only UL approved indoor/outdoor, 3-wire, grounding type cords. The cord must be rated to support amp draw. Do not allow any part of cord or receptacle ends to sit in water.

To avoid fatal shocks, proceed as follows if service is needed:

- A. Turn off water to the system.
- B. Disconnect the power at main electrical service before unplugging the unit.
- C. Ground the electrical outlet box.
- D. Take extreme care when changing fuses.



Pump was designed for forward rotation to allow optimum lubrication of the crosshead area. Reverse rotation is acceptable if the crankcase oil level is increased slightly above center dot to assure adequate lubrication.



Modern motors can operate at high temperatures. To avoid burns when servicing pump, allow it to cool for 20 minutes after shutdown before handling.

Specifications

Motor	230/460v 3PH 1750RPM TEFC
Capacity	27GPM at 1000PSI
Pump Dimensions	
Shipping Weight	*Shipping weight/size may vary based on system parts*

Common Specifications

Style	. Positive displacement, Plunger Pump
Maximum Discharge Pressure	. 1450 PSI
Maximum Inlet Temperature	. 140F
PSI	. 1000PSI
Pump	. AR RTX 150 Left-hand Drive
Pump Drive	. Electric Motor- Belt Drive
Pump Inlet	. 1 1/4" BSP
Pump Discharge	. 1/2" BSP

Item Identification

Upon receipt of your system please ensure that you can identify all components of the DUUCWB271000 system. Do note, it is recommended to feed the equipment with a ¾" ID hose (Pump to Ramp). Customer will need to notify Dultmeier Sales of supply hose length needed. Fittings are provided allow for plumbing of ¾" hose to ½" tee and then to 3/8" feed lines to rotary equipment. ***Customer MUST specify length on ALL hoses***

- A. (1) DUPM271000: ARRTTX150-L plunger pump unit complete with 20HP 230/480V electric motor. Pressure Regulator, Gauge, and bypass line. Dultmeier Sales suggests the motor be wired by a licensed electrician see Page 18 for pump unit component identification.
- B. (1) Control Panel: DUEP30-203/480/PE1 (for 480V)
 - i. The control panel contains (1) set of (2) photo eye sensors one transmitter and one receiver. Each has a 50ft cable that will need to be run from the control panel to the photo eye stands that will be anchored to the floor/concrete.
 - iii. To be wired by licensed electrician.
 - iv. Use Exhibit G for Wiring Diagram.
- C. (1) TLTSS2: Photo eye Stand, set of (2) to be ground-mounted by installer/customer (See Page 8).
- D. (1) MM80508: Undercarriage Ramp Assembly, with stabilizer cones (See Page 9).
 - i. (2) Discharge ports per head, total of (2) discharge heads per pan assembly total of (4) orifices per assembly.
- E. (2) MM80550: Outrigger assembly for mounting poles and Side/Wheel Blasters.
- F. (3) CTRB3000-1/2: 1/2" x 3/8" 304SS Hex Bushing, rated to 3000PSI.
- G. (1) HH1404-88SS: Swivel Union 1/2" MPT x 1/2" FPT rated to 3000PSI.
- H. (5) HH1404-66SS: Swivel Union 3/8" MPT x 3/8" FST rated to 3000PSI. These are supplied for jumper hose connections to Wheel/Side Blasters (MM84599) and Undercarriage Ramp.
- I. (1) CT8012CL: 1/2" x Close nipple, 304SS, rated to 3000PSI.
- J. (4) SSTP0005EG: Stainless EG Nozzle with vane, to be inserted inside of the stabilizer cones on the MM84599 Side/ Wheel Blasters.



Dultmeier Sales advises testing the system without the orifices installed into the venturi stabliizers – this will flush any excess thread tape or sealant out of the system and avoid clogging orifices on startup. Once the system has been flushed – then install the orifices. SSTP0005EG to be installed in the Blasters (2 per head) and SSTP0008EG to be installed in the Undercarriage Ramp heads (2 per head). These only need to be hand tightened.

Item Identification

- K. (4) SSTP0008EG Stainless EG Nozzle with vane, to be inserted inside of the stabilizer cones on the MM80508 undercarriage ramp heads.
- L. (2) MM84599 Side/Wheel Blaster assemblies for pole mounting installation. #5 Metric Allen Head Set Screws.
- M. (1) Undercarriage Pan Supply Hose: ½" x 15'-18' Suggested length specified by customer prior to order confirmation. This hose runs from ½" cross of supply feed through ramp to supply MM84599 Wheel/Side Blaster on opposite side. *No Supply hoses are not included in system BOM separate line item on order/packing slip/invoice. Same for 3/8" jumper hoses. See Page 7 Plumbing Explained.
- N. (3) Jumper Hoses to feed the Wheel/Side Blasters and UC Ramp- Customer must specify lengths.
- O. (2) CTRB3000-1: 1" \times 3/4" Reducer bushing 3000PSI to connect to pump discharge and allow for connection of 3/4" main feed line to equipment.
- P. (1) CTCC3000-3/4: $\frac{3}{4}$ " Coupling 3000PSI allows for connection of $\frac{3}{4}$ " main feed line to (1) CTRB3000-3/4 then to (1) CT8012CL Close Nipple. This allows for connection to the $\frac{1}{2}$ " cross.
- Q. (1) CTRB3000-3/4: 3/4" x 1/2" Reducer Bushing 3000PSI
- R. (1) CTCR3000-1/2: ½" Cross 3000PSI allows for connection of CTRB3000-3/4 and, CTCC3000-3/4, and CT8012CL. See Exhibit A Plumbing Explained.
- S. (2) MM903986: Stainless Steel Pole with floor/outrigger mounting pad (4 bolt hole pattern) (See Page 9).
- T. (2) MM84907: Stainless Steel Pole Extension #5 Metric Allen Head Set Screws (See Page 9).
- U. (2) MM80550: Stainless Steel Outrigger Arms mount to MM80508 ramp and MM903986 poles mount to Outrigger Arms (See Page 9).
- V. (1) MM80508: Stainless Steel Undercarriage Ramp (See Page 9).
- W. (1) HH1404-68SS: 3/8" MPT x 1/2" FPT Stainless Steel Union 4000PSI.

Installation and Operation

- 1) For an above ground (OTC) system, the undercarriage ramp can be permanently fixed to the concrete with concrete anchors (not supplied) but not necessary. Determine the location of the ramp and prepare the site for assembly. Assemble the ramp See Page 9 Youtube link. Dultmeier Sales advises that plumbers grease is used on bolts in the ramp stainless on stainless connections can and will cause galling (without plumbers grease) and eventually strip out the threads.
- 2) Connect the pump supply port to water supply feed line. Be advised this system needs to have at least 27GPM (total) water supplied to run the system without damage. If the supply water line cannot supply this amount contact Dultmeier Sales for a tank and tank float option to allow for a buffer on the water supply. Be advised the plunger pumps are designed to run off clean water that is less than 50ppm Total Dissolved Solids (TDS). *If questions of supply feed, Dultmeier Sales advises to plumb supply feeds on both sides of the pump manifold call for details/assistance.
- 3) Must use either Teflon® tape or pipe sealant for threaded stainless-steel connections. If using pipe sealant, follow the label directions and allow for adequate dry time before charging/pressurizing the system. Dultmeier Sales sells thread sealant products call for details.

3A. Plumbing the Ramp & Wheel/Side Blaster (see Page 7 & 9 for parts identification and corresponding visuals)

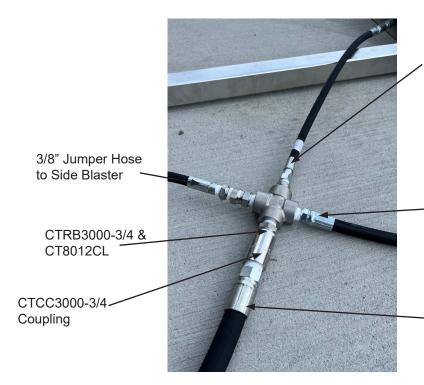
- I. Must use either Teflon® tape or pipe sealant for threaded connections. If using pipe sealant, follow the label directions and allow for adequate dry time before charging the system. Dultmeier Sales sells these sealant products call for details.
- ***Be advised that if using thread tape, a common occurrence on startup is excess thread tape being sucked into nozzle orifices if system is not spinning rapidly check suspect orifices.***
- II. Connect the inlet port of the pump to the water supply but do NOT allow water to flow through the pump unit until all connections are sound. Do not plumb the pump feed/supply line smaller than 1-1/4IN ID which is the size of the supplied hose barb fitting. In instances where low positive suction head is available it is advised to increase to 1-1/2IN or 2IN pump feed/supply line consult Dultmeier Sales with questions.
- IV. See Pg. 7 for ramp/blaster plumbing diagram.
- a. Connecting the ¾" discharge (ramp/blaster feed hose) into the pump outlet: Thread CTRB3000-1 (1"x3/4" SS Reducer Bushing) into the 1IN Pump discharge.
- b. Connect the swivel end of the ¾" discharge hose (customer specified length Dultmeier Sales recommends Swivel x Swivel but need at least one swivel end). Run the discharge hose to the CTCR3000-1/2 (1/2" SS Cross, 3000PSI).
- c. Thread the free end of the $\frac{3}{4}$ " discharge hose into CTCC3000-3/4 (3/4" SS Coupling). Thread this into CTRB3000-3/4 (3/4"x1/2" SS Reducer Bushing). The Top Port and Left Hand Port (As viewing down on the cross) should have CTRB3000-1/2 (1/2"x3/8" SS Reducer Bushing) threaded in. These ports will be dedicated to the near Wheel/Side Blaster and the Ramp feed lines (3/8" jumper hoses are customer specified lengths). Generally speaking, a 3/8" x 4' hose will work for both feed lines, but the customer needs to confirm length as this may change based upon their space constraints.
- d. The Right-Hand Port of the $\frac{3}{4}$ " SS Cross (CTCC3000-3/4) is dedicated for the $\frac{1}{2}$ " feed line (customer specified length) that supplies the far Wheel/Side Blaster. Generally speaking, $\frac{1}{2}$ " x 18' will work, but the customer needs to confirm the length needed as this length requirement will vary based upon the set height of the Wheel/Side Blaster pan. The free end of the hose must be ran through the factory drilled hose openings in each ramp leg. Run the hose and let it rest on the ground next to the Far Wheel/Side Blaster. Thread HH1404-68SS (1/2"FST x 3/8" MPT SS Reducer Swivel Union) into the inlet port of the Far Wheel/Side Blaster. Connect the free end of the $\frac{1}{2}$ " supply hose.
- e. Gravity Feed Test: Open the valve on the supply/suction side of the pump and let water gravity flow (or low pressure flow) through the system. Note: the rotary unions will not engage under low pressure this step is simply to check for sound connections and/or leak points. If a leak is identified, tighten the connection and/or reapply thread sealant/Teflon tape.

^{***}The customer is responsible for communicating lengths of supply hoses and jumper hoses needed.*** Common jumper hose lengths can be seen here: https://www.dultmeier.com/products/search/13450

Installation and Operation

- 4) Pump Unit: Run the bypass/hose relief line back to water source (If tank supply) this line is supplied with each pump/motor unit. If no tank supply, then run back to inlet of the pump (additional plumbing tee will be required consult Dultmeier if needed). Supply inlet with no smaller than 1-1/2" plumbing. Depending on supply plumbing, reducers will be required Consult Dultmeier once supply plumbing ID has been confirmed.
- 5) Confirm water supply is connected, plumbing connections are tightened, and wiring is complete, then move on to testing the system.
 - A. Dultmeier Sales advises testing the system with low pressure by allowing city water pressure to feed through the pump and to the pans note, the pan assemblies will NOT rotate with city water pressure. This will show if any leaks are present and thread tape/pipe sealant needs to be reapplied.
 - B. Begin by ensuring pump has adequate water supply and engage motor contactor. Use regulator/unloader valve (See Page 18 for item identification) to increase the pressure of the system (turn clockwise to increase pressure and counterclockwise to decrease pressure). This system is designed to run at 1000PSI at which point it will produce 27GPM. There will be a small amount of flow that runs through the bypass line due to nozzle orifice sizing. Use the pressure gauge mounted on the pressure side of the pump manifold to dial in/monitor your pressure setting. The pressure regulator has a bushing to "set" the desired pressure once at tained.
- C. Dultmeier Sales advises testing the system without the orifices installed into the venturi stabliizers this will flush any excess thread tape or sealant out of the system and avoid clogging orifices on startup. Once the system has been flushed then install the orifices. SSTP0005EG to be installed in the Blasters (2 per head) and SSTP0008EG to be installed in the Undercarriage Ramp heads (2 per head). These only need to be hand tightened.
- 7) Install the Photo Eye Stands. See System Setup (See Pgs. 8, 11-13) for orientation guidelines. Stands should be anchored to the cement with enough clearance for vehicles to avoid physical contact with the sensors and/or stands. One photo sensor is the transmitter, and the other is the receiver. This component functions like a garage door opener beam
- i. See Pgs. 10-16 for item identification, replacement parts, and wiring diagrams.
- ii. Beam max 75ft distance.
- iii. Optical Angle +/- 3° opening.
- 8) Installing Guide Rails While the diamond playing area is rated for direct traffic, the area where water shoots upward is not traffic rated driving over this section of the ramp will cause damage to the ramp assembly. See Pg 9 for diagram and optional guide rail suggested installation.
 - A. 3" or 4" ID Schedule 40 Galvanized, Black Steel, or Stainless-Steel Pipe will be sufficient for this purpose.
 - B. Rails should be mounted in a manner that does NOT allow the inside of the tires to run over the undercar riage pan assembly lid(s) by more than 1.4" from outside edge. See Page 11 for undercarriage pan assembly dimensions.

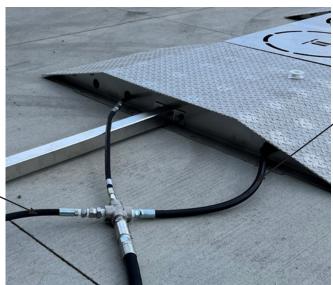
Plumbing Diagram for Supply Line Connections from Pump Unit.



3/8" Jumper Hose to Supply Ramp. Customer Specified Length.

_½" Supply Hose to Opposite Side Blaster (runs through Ramp Opening). Customer Specified Length

³/₄" Supply Hose From Pump. Customer Specified Length

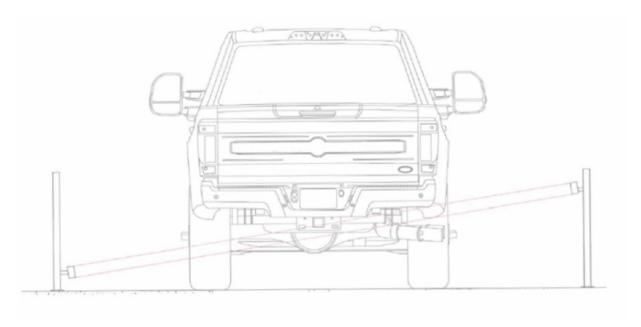


½" Line that feeds the far Pole Mount Blaster – runs through the ramp thru-holes.

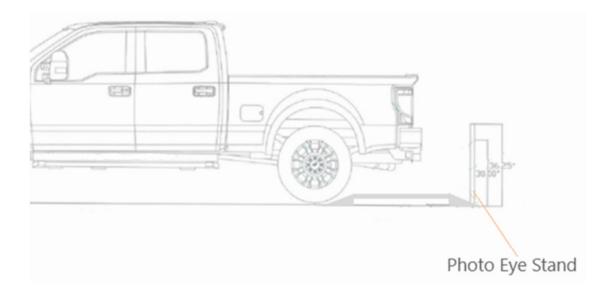
3/8" jumper hose feeds to close Pole Mount Blaster.

Additional wider-angle view of supply plumbing.

System Setup - Photo Eye Orientation

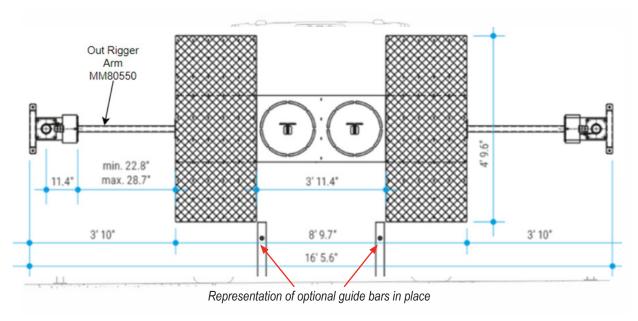


Make note of the angled orientation of the photo eyes. This installation method ensures the beam will remain in a "broken" status. Thus, engaging the motor contactor inside the control panel.

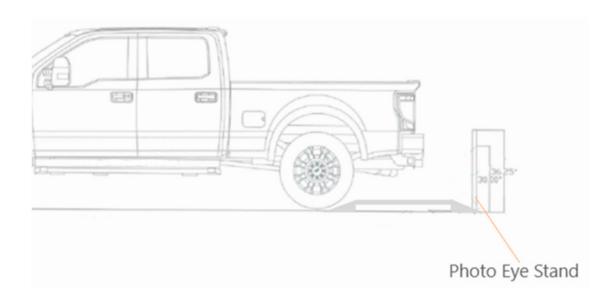


This illustration shows the undercarriage rinse ramp (not to scale) and photo eye stand height. Photo eye stand height dimensions are actual but spacing is not. Spacing can be modified based upon axel to vehicle bumper dimensions.

Ramp and Blaster Detail



Ramp Assembly Video: https://www.youtube.com/watch?v=_O4vGUlcmSU https://www.youtube.com/watch?v=g_vxmBOhgf8



This illustration shows the undercarriage rinse ramp to photo eye spacing. Photo eye stand height dimensions are actual but spacing is not. Spacing can be modified based upon axel to vehicle bumper dimensions.

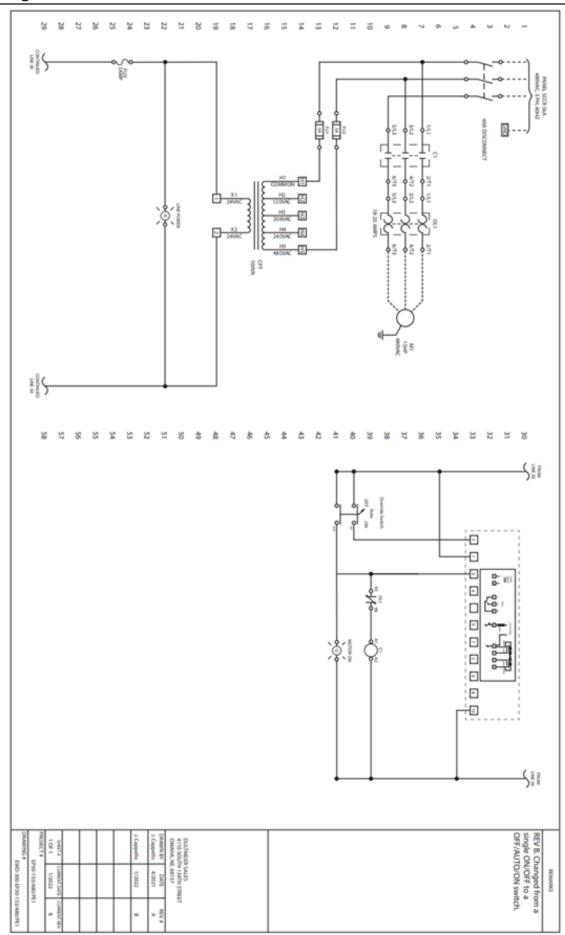


Photo Eye Wiring Diagrams

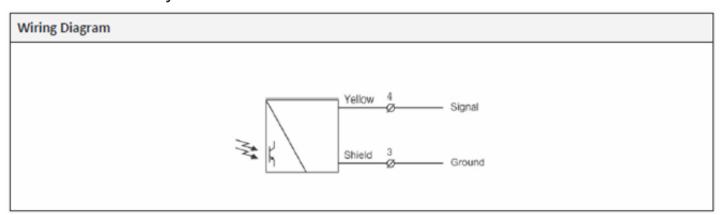


Receiver Part Number: TLLR05LCW (includes 50ft cable)



Receiver Part Number: TLLT05LCW (includes 50ft cable)

Receiver Photo Eye



Transmitter Photo Eye

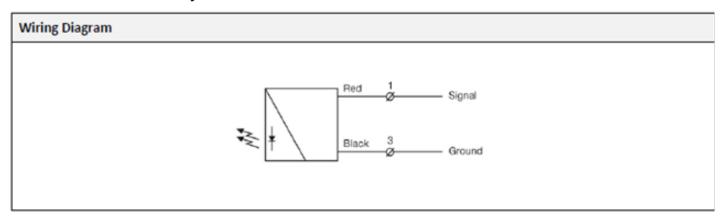
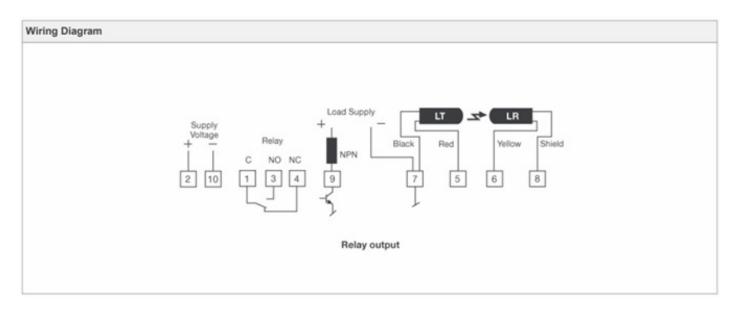
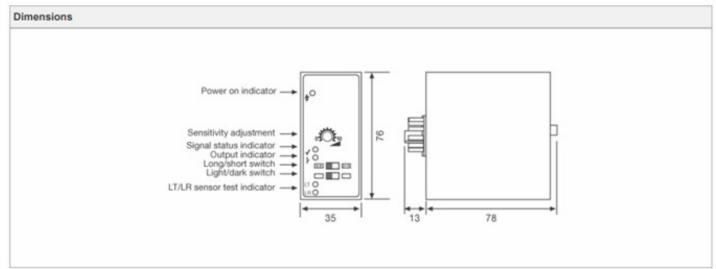


Photo Eye Wiring Diagrams

Environmental Data		
Operation Temperature	- 10 to +50 °C	
Storage Temperature	- 40 to +80 °C	
Sealing Class	IP 40	







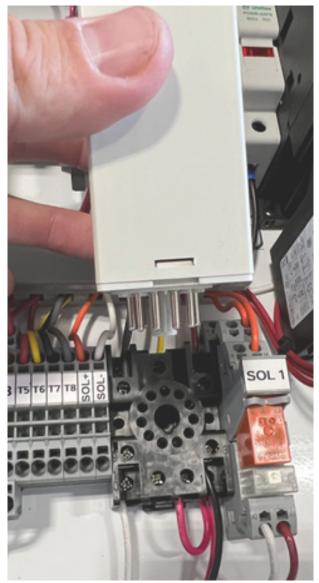
Amplifier Instructions for Default Settings:

- -Sensitivity Adjustment should be 3-4 depending on the lighting.
- -Long/Short Switch should be flipped LEFT.
- -Light/Dark Switch is identifies NORMALLY CLOSED or NORMALLY OPEN. The System is designed to be NORMALLY OPEN. Therefore, the switch should be flipped LEFT.

Communication wire supplied is 50ft. Longer length cables available, factory confirmed testing to 350m cable with no reduction in performance.

Amplifier is shipped uninstalled in panel – customer installation on site as shown.



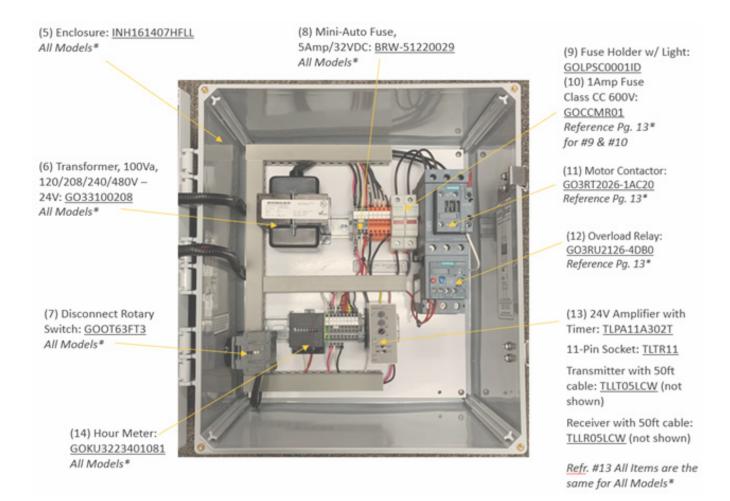


Dultmeier Sales EP30 Panel Series hold a IP66/NEMA 4X rating. They include a DIN-mounted hour meter to aid in the service schedule of your wearable parts/components like seals, valves, etc. Make note, not ALL BOM components are listed. The most common repair/wearable components are listed. Should you need additional information, please contact Dultmeier Sales (800-228-9666) for all components.



External components are the same between ALL EP30 Series Washdown Panels. With the exception of the Disconnect Rotary Switch Selector Handle – See Cross Reference Chart on Page 16.

Internal Components photographed and outlined are for Panel Model: DUEP30-73/PE1. See cross reference diagram (pg. 13) for alternate panel models. Panel used in the DUUCWB271000 is DUEP30-203/480/PE1.





		2000 100 200	
Reference Number	Item Part No.	Description	Panel Model Number
1	GOOHYS2RJ	Selector Handle for Disconnect Rotary Switch	All Models
2	GOSS-D7D-P4N3	Pilot Light LED Red	All Models
3	GOSS-D7-N3G	LED Module Green	All Models
4	DUEP30-DECAL	Decal for EP30 Washdown Panels	All Models
5	INH161407HFLL	Enclosure 16X14X7, Hinged	All Models
6	GO33100208	Transformer, 100Va, 120/208/240/480V - 24V	All Models
7	GOOT63FT3	Disconnect Rotary Switch	DUEP30-73/PE1 & DUEP30-71/PE1 & DUEP30- 101/PE1 & DUEP30-153/PE1
	GOOT40FT3-A	Disconnect Rotary Switch	DUEP30-73/480/PE1 & DUEP30-103/480/PE1 & DUEP30-103/PE1 & DUEP30-103/480/PE1 & DUEP30-153/480/PE1 & DUEP30-203/480/PE1
8	BRW-51220029	Mini-Auto Fuse, 5Amp/32VDC	All Models
9	GOLPSC0001ID	Fuse Holder with Light	All Models
10	GOCCMR01	1Amp Fuse Class CC 600V	DUEP30-71/PE1 & DUEP30-73/PE1 & DUEP30- 73/480/PE1 & DUEP30-101/PE1 & DUEP30-153/PE1 & DUEP30-203/PE1
	GOCCMR.5	.5Amp Fuse Class CC 600V	DUEP30-103/480/PE1 & DUEP30-153/480/PE1 & DUEP30-203/480/PE1
11	GO3RT2026-1AC20	Motor Contactor, #0, 24VAC, 25Amp	DUEP30-71/PE1 & DUEP30-73/PE1 & DUEP30- 73/480/PE1 & DUEP30-103/480/PE1
	GO3RT2046-1AC20	Motor Contactor, #3, 24VAC	DUEP30-101/PE1
	GO3RT2035-1AC20	Motor Contactor, #3, 24VAC, 40Amp	DUEP30-103/PE1 & DUEP30-153/480/PE1 & DUEP30-203/480/PE1
	GO3RT2045-1AC20	Motor Contactor, #3, 24VAC, 80Amp	DUEP30-153/PE1 & DUEP30-203/PE1
12	GO3RU2126-4DB0	Overload Relay, #0, 20-25Amp	DUEP30-73/PE1 & DUEP30-153/480/PE1
	GO3RU2136-4GB0	Overload Relay, #2, 36-45Amp	DUEP30-71/PE1
	GO3RU2126-1KB0	Overload Relay, #0, 9-12.5Amp	DUEP30-73/480/PE1
	GO3RU2146-4JB0	Overload Relay, #3, 45-63Amp	DUEP30-101/PE1 & DUEP30-203/PE1
	GO3RU2136-4EB0	Overload Relay, #2, 22-32Amp	DUEP30-103/PE1 & DUEP30-203/480/PE1
	GO3RU2126-4AB0	Overload Relay, #0, 11-16Amp	DUEP30-103/480/PE1
	GO3RU2146-4HB0	Overload Relay, #3, 36-50Amp	DUEP30-153/PE1
13	TLPA11A302T	Amplifier 24V with timer	All Models
14	GOKU3223401081	Hour Meter	All Models
15	GOSS-D7-X10	Contact Block, Rotary Switch	All Models

Troubleshooting

IMPORTANT

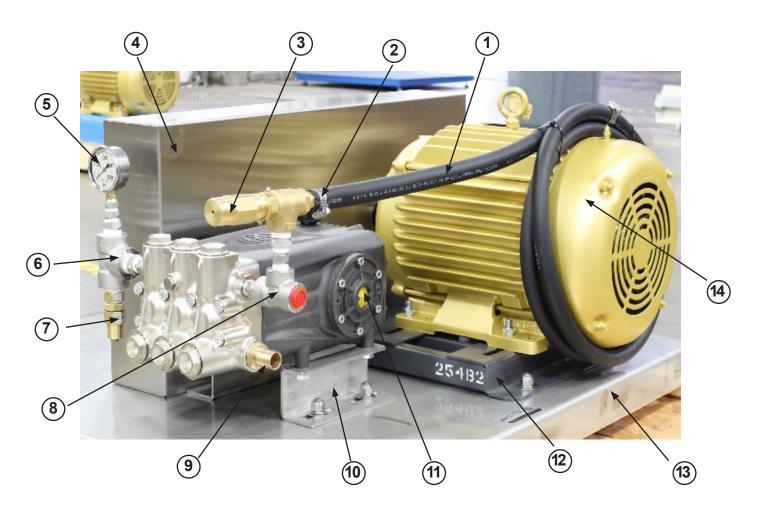
PROBLEM	CAUSE	SOLUTION
Pressure Gauge holds pressure and then slowly drops as unit is running.	Seal Failure or Valve Failure	Open the pump manifold to assess damage. What to look for – scored markings on orings/seals, cracks in valve bodies.
		Replace with new gauge.
Pressure Gauge does not register any pressure.	Gauge is sprung	Turn the throttling knob of the Relief Valve clockwise to increase pressure and counterclockwise to decrease pressure. If there is no result and gauge is confirmed good, then contact Dultmeier Sales for additional troubleshooting or replacement of the pressure relief valve.
Rotary Head is spinning slower than normal	Clogged nozzle orifice	Clear obstruction. If issue persists, contact Dultmeier Sales.
Pressure declines gradually over time	Wear of nozzles or pump seals	Inspect both nozzles and pump seals - replace nozzles and/or pump seal kit upon inspection.
	Worn pump valves or pressure regulating valves	Replace valves or use repair kit (IPK316) to repair.
Pressure Loss	Foreign Particles	Thread tape, brass filings, etc. lodged in one of the discharge valves. Valves, (top ports) should be removed and checked for foreign particles, reassembled and replaced in pump.
Pump is leaking water between crankcase and manifold	Normal wear of seal	Replace with new seal.
Water in oil	Normal wear of pump seal kit	Replace with new seal.
	Cracked ceramic plunger caused by wear or premature failure	Replace plunger.
Low oil in crankcase	Crankcase seal or the crankshaft seal failure	Contact Dultmeier Sales.

pump unit, there WILL be damage to your equipment. Verify that you have at least 27GPM feed supply to the inlet of your pump. Supply pump inlet with no smaller than 1-1/2" plumbing. Rigid plumbing is not recommended. If you have questions on calculating this, please contact Dultmeier Sales for consultation.

Pump crankcase oil should be changed at first 50 operating hours and then every 500 running hours after that.

ARTX150 Pump Breakdown: https://www.dultmeier.com/pdfs/arRTX150-100N.pdf

Parts Breakdown:



Item	Part Number	Description
1	GA3204-1425 MP620-12 IPCWR4525 DUBG500-SS	Hose for Relief DumpHose ClampPressure Relief ValveBelt Guard Inside Belt Guard
5	AH2750-3 CTT3000-3/4 CC9940 CTT3000-1 TKPHB125150	Pressure Gauge Stainless Steel Tee Safety Valve Stainless Steel Tee Inlet Hosebarb GASK-30MM Bushing GA3BH-1-5/8 Bushing GA3B80 3-Groove Pulley GA3B40 3-Groove Pulley GABX5 (3)-Cog V-Belts
10	ARRTXKIT ARRTX150-L GN2M513 DUBP4225S CEEM2334T	Rail Kit Plunger Pump Adjustable Motor Base Base Plate Electric Motor



Notice Regarding Manufacturer's Limited Warranty

Dultmeier Sales Limited Liability Company (hereinafter Dultmeier), notifies you that component part(s) carry a manufacturer's limited warranty provided by the manufacturer of said component part(s). These warranties do not pertain to normal wear of component part(s) that may occur within any specified period. While Dultmeier is not the manufacturer of any of the component part(s), Dultmeier will assist you in processing any and all manufacturer's warranty claim if applicable and available. Any and all manufacturer's claims must be submitted in writing to the manufacturer within the warranty periods provided by the manufacturer.

Defective component part(s) that are to be considered for manufacturer's limited warranty must be returned to the manufacturer by prepaid shipment with the applicable manufacturer's limited warranty period. If the component part(s) are deemed to be defective under the manufacturer's warranty, Dultmeier will assist in obtaining a replacement or repair of the component part(s). Said component part(s) will be returned F.O.B. Omaha, Nebraska. Replacement or repair shall be the exclusive remedy for any breach of warranty. Labor for installation, either with respect to original or replacement part or components, is not covered under the manufacturer's limited warranty.

Neither the manufacturer nor Dultmeier warrants loss of income or consequential damages for injury or commercial loss resulting from any breach of warranty or warranties stated above.

The manufacturer's limited warranty as stated does not apply to component part(s) which have been improperly installed, misused, altered, neglected, abused or not installed, adjusted, maintained, or used in accordance with applicable codes and ordinances and in accordance with the manufacturer's specifications as to such factors.

Notwithstanding Dultmeier's willingness to assist in the processing of the manufacturer's limited warranty, Dultmeier makes no warranty against infringement of the like, makes no warranty of merchantability, makes no warranty of fitness for a particular purpose, and makes no other warranty, express or implied, including implied warranty arising from the course of dealing or usage of trade.

Compliance with all local, state and federal codes regarding the installation and operation of said equipment, parts and components shall be the responsibility of the purchaser. The rights and obligations of the parties shall be governed by the laws of the State of Nebraska.

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