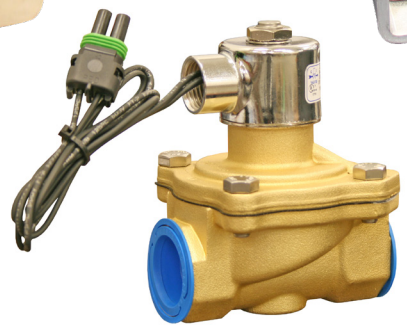
DULTMEIER SALES™

Pay For Water System

DU1A046
DU1A046B
DU1A046F







Owner's Manual #0820 092220	
Serial Number:	**Installation Date:**

IMPORTANT



Please read and understand this manual. Store in safe location for future reference.

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:

800-228-9666
dultmeier@dultmeier.com
www.dultmeier.com

Table of Contents

Safety Information 1
Setup Instructions 2
Plumbing & Testing 3
Parts Breakdown 4-6
Wago Wire & Terminal Block Installation 7
Warranty Information 8

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 alert to the potential for personal injury or property damage.

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

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

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

IMPORTANT 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.

IMPORTANT

Do Not Allow System or Components to Freeze.
To do so may damage the system and will void the warranty.

WARNING

Never Run the System Dry.
Running the unit dry (without fluid) can damage internal parts, overheat pump (which can cause burns to people handling or servicing the pump), and will void the warranty.

WARNING



Hazardous voltage can shock, burn or cause death.

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.

Setup Instructions

1. Mount the 1A046 Control Panel in a convenient location. Locate near 120V power supply.

   The DU1A046 is supplied with a 25' control cable to run a 24V Solenoid Valve. It is suggested to install the valve within reach of the control cable. If this is not possible, an extension harness can be purchased. See Parts Breakdown for part numbers needed, order cable to specific length.

IMPORTANT **Check local plumbing codes for proper installation.**

2. Have plumber install the Solenoid Valve. See page 3 for plumbing instructions.

3. Select location for the 1A046 coin meter. It is suggested to mount the coin meter box approx. 48" from the ground.

IMPORTANT **Check local electrical codes for proper installation.**

4. Have electrican run wiring from coin meter to control panel. Install wire through fitting provided. Use same color scheme to aid in installation. **(Fig 1-A)**

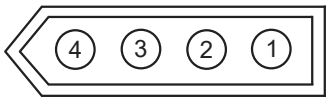
5. Following the diagram below, terminate wires in the control panel using the provided Wago Tool. **(Fig 1-B)**

#1	Pink	24V
#2	White	24V COM
#3	Gray/Black	Load

   Install other end of wiring into 4 pin molex connector. Take extra care to assure control functions line up when molex connectors are assembled. Use the following diagram for pin locations. **(Fig. 2)**

IMPORTANT **Color scheme does not always match from component to component. See label inside control box and/or coin meter box for reference.**

#1	Pink
#2	White
#3	Gray/Black
#4	N/A



6. With the Solenoid Valve plumbed in place, connect 2 pin Weatherpack from Control Panel to Solenoid Valve. **(Fig. 3)**

7. Inspect all fittings and wiring.

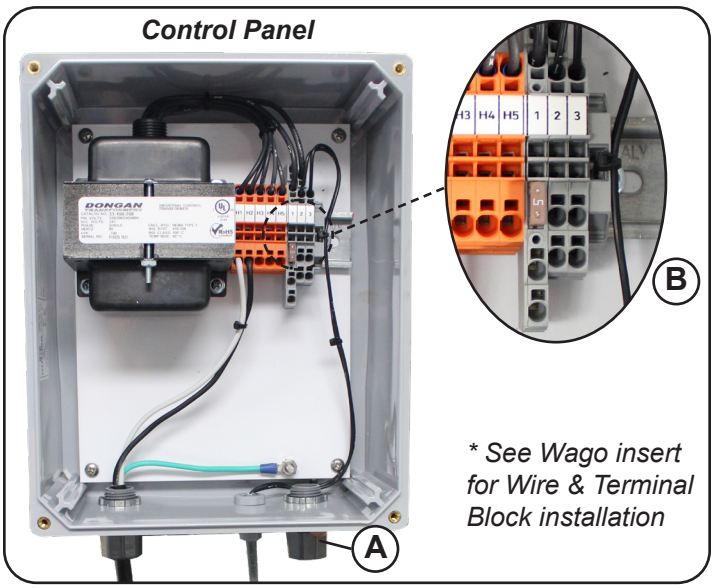


figure 1

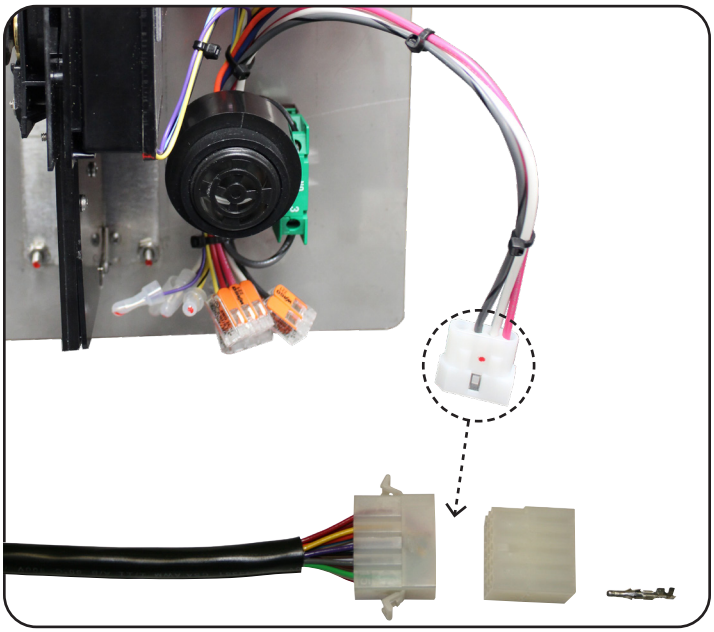


figure 2

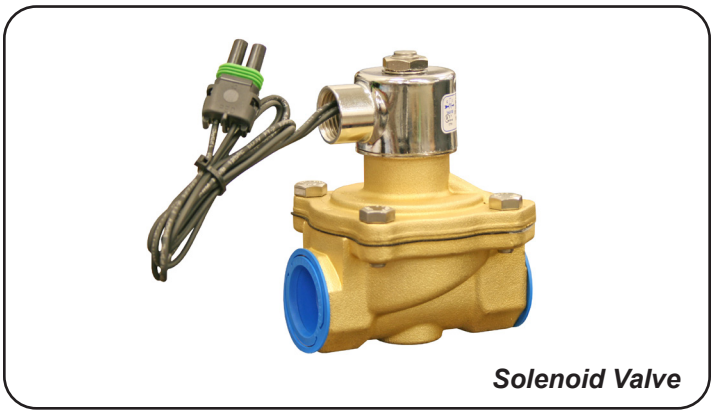


figure 3

Plumbing

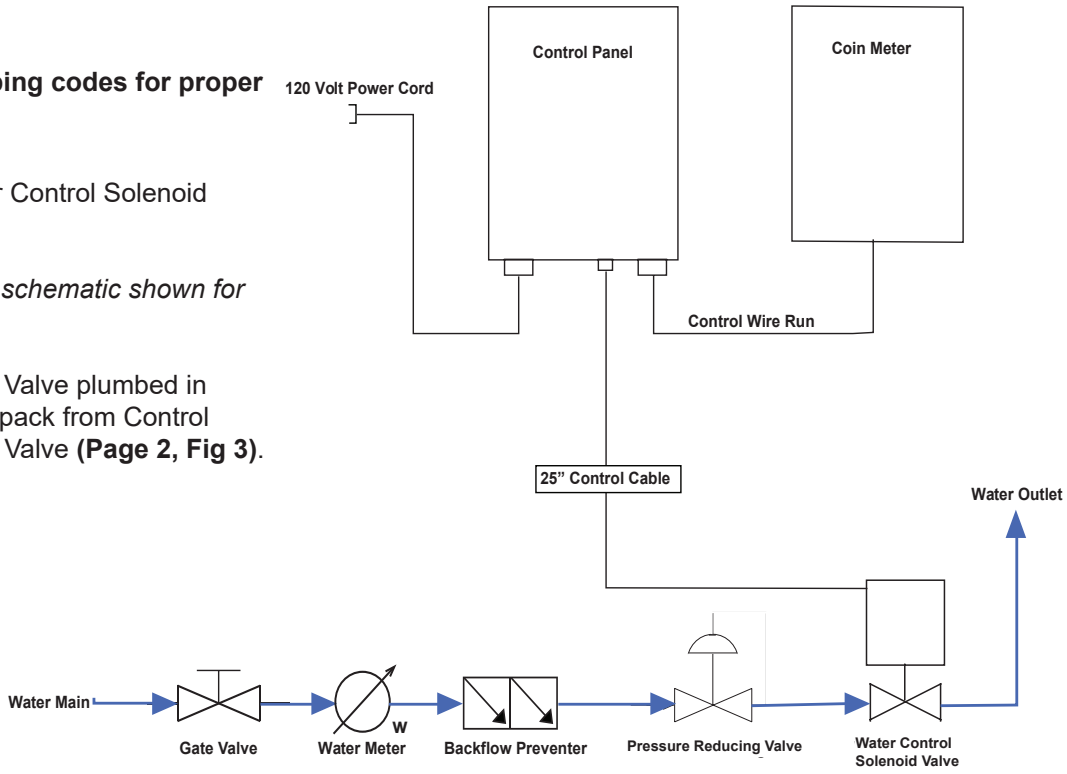
IMPORTANT **Check local plumbing codes for proper installation.**

1. Have a plumber install the Water Control Solenoid Valve.

   Due to various installations, use schematic shown for example only.

2. With the Water Control Solenoid Valve plumbed in place connect the 2 pin Weatherpack from Control Panel to Water Control Solenoid Valve **(Page 2, Fig 3)**.

3. Inspect all fittings and wiring.



Testing

1. Turn On-Off switch to the OFF position. **(Fig. 4-A)**

2. Turn main water supply to Solenoid Valve ON.

3. With all control cables connected, plug in the 120V power cord. At this time the coin meter will power up. Wait approx. 15 seconds.

4. Using the coin slot, bill acceptor, or credit card insert the pre-determined amount of coins shown on LED display. **(Fig. 4-B)** When that amount is reached the timer light will illuminate and begin to count down **(Fig. 4-C).** See LED7 manual for info on how to change timer settings.

5. With the timer started, turn the On-Off Switch to the ON position. Water should now flow from the Solenoid Valve to its end destination.

6. Now turn the On-Off Switch to the OFF position. Water should now stop flow at the Solenoid Valve.

7. Let the timer run down until the timer turns off. No water should flow through the Solenoid Valve.

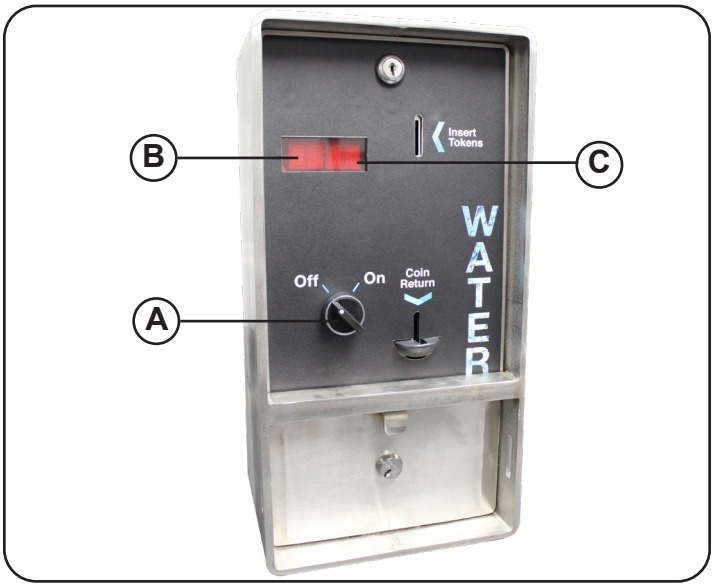
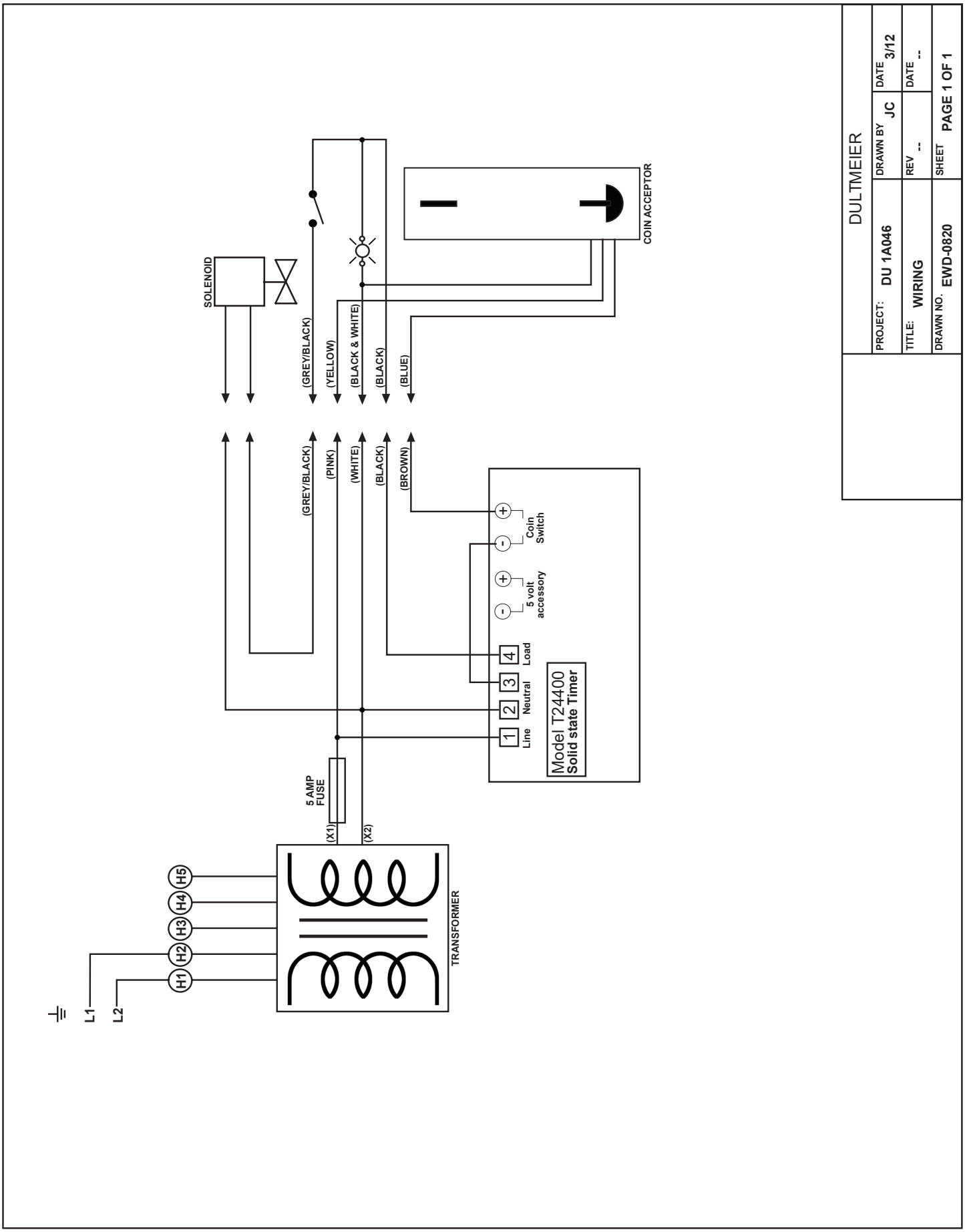


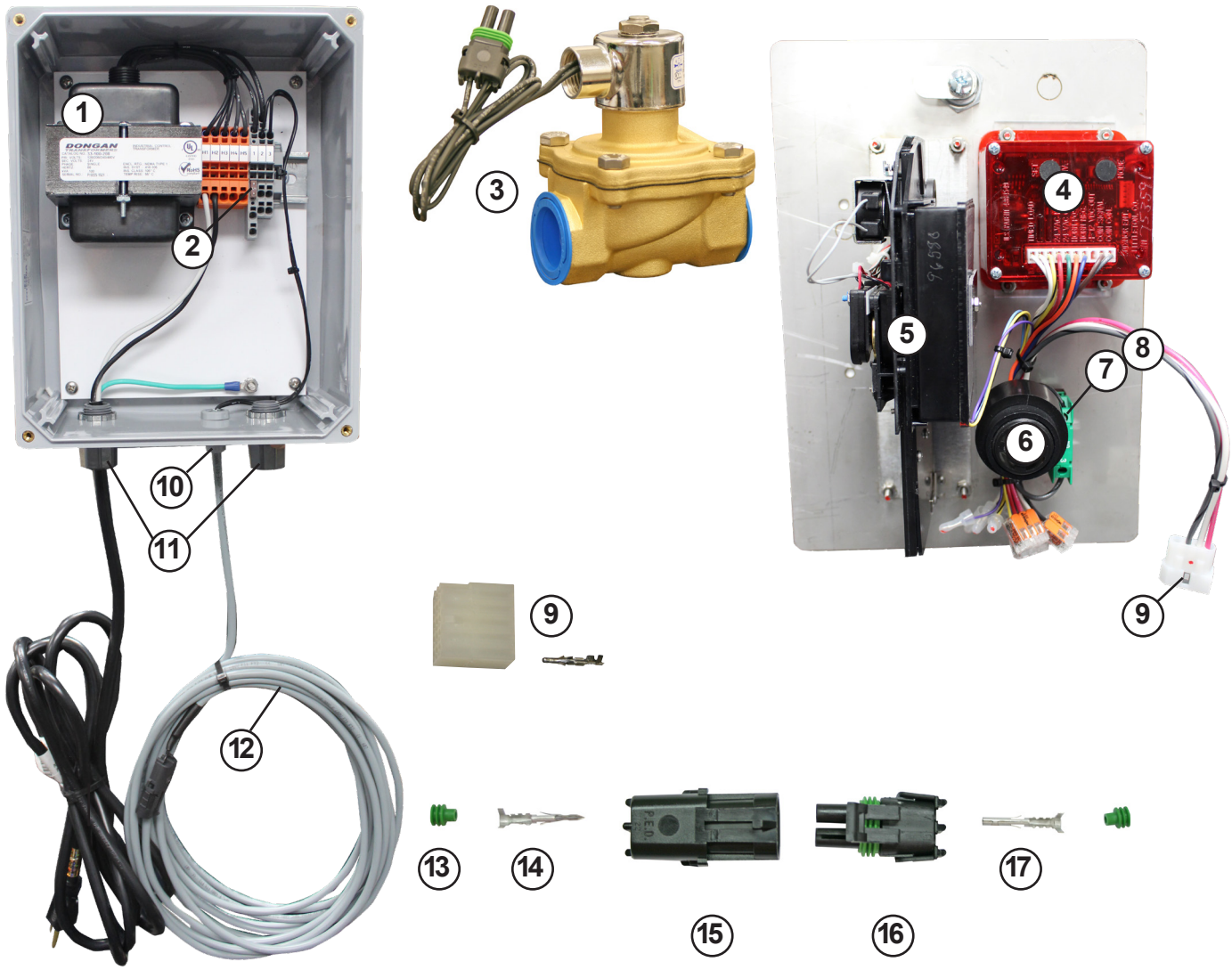
figure 4

IMPORTANT **If the amount of money put in exceeds the pre-determined dollar amount NO change will be given.**

Electrical Diagram

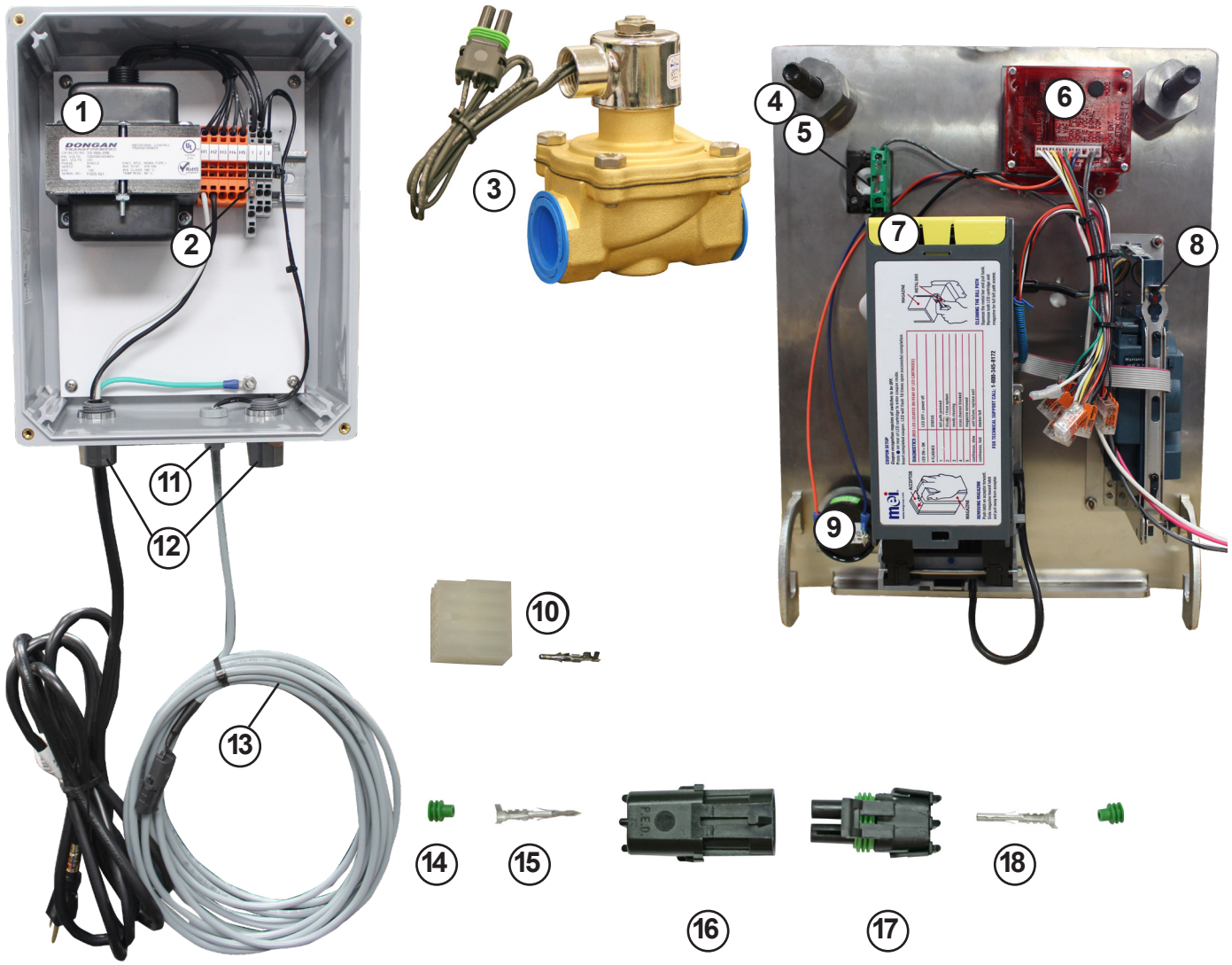


Parts Breakdown: DU1A046



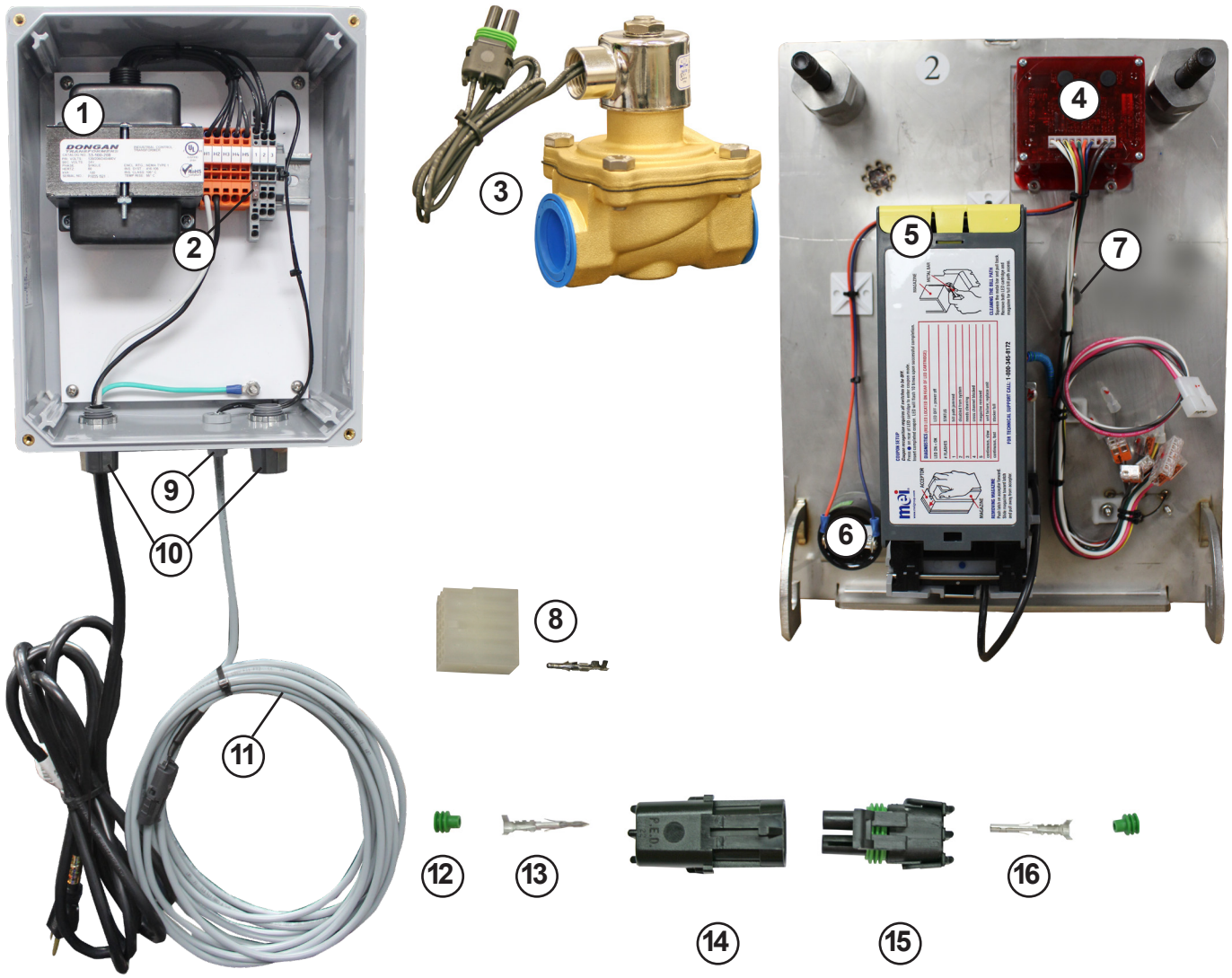
Item	Part Number	Description
1	GO33100208	Transformer, 24VAC
2	BRW-51220029	5 Amp, Mini-Auto Fuse
3	GCS210-24	Solenoid Valve, 24V
4	DXLED7	Digital Timer, Less Horn
5	PKP55EZ	Slugbuster II Coin Mechanism
6	DXRS1	Horn, Digital Timers
7	CE8LM2TC10	Contact Element
8	CE8LP2TS120	Selector Switch, Maintained, Less Mount (Not Shown)
	CE8LM2TAU120	*Mounting Adapter for Selector Switch (Not Shown)*
9	UT4PINMOLEX	4 Pin Molex Connector, Male & Female, with Pins
10	UTLPCG25	Strain Relief
11	UTLPCG50	Strain Relief
12	UT02041802	Control Cable, Specify Length & Use Items 12, 13, 14, 15 & 16
13	RVWPS-GRN	Weatherpack Dust Seal *(Order 4 qty for Control Cable)*
14	RVWPM-15	Weatherpack Pins, Male *(Order 2 qty for Control Cable)*
15	RVWPS2	2 Port Weatherpack, Female
16	RVWPT2	2 Port Weatherpack, Male
17	RVWPF-15	Weatherpack Pins, Female *(Order 2 qty for Control Cable)*
	BRW-50092070	*Replacement Wago Screwdriver (Not Shown)*
	UT18TFFN-_____*	*18 AWG Colored Wire (Not Shown) *specify color & order per foot*

Parts Breakdown: DU1A046B



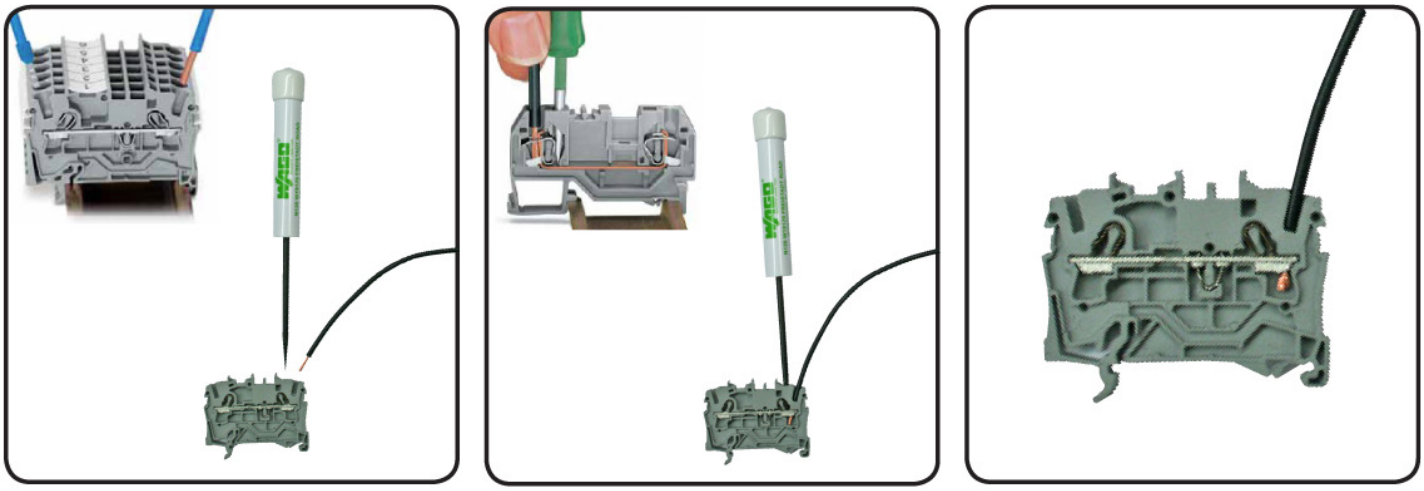
Item	Part Number	Description
1	GO33100208	Transformer, 24VAC
2	BRW-51220029	5 Amp, Mini-Auto Fuse
3	GCS210-24	Solenoid Valve, 24V
4	CE8LM2TC10	Contact Element
5	CE8LP2TS120	Selector Switch, Maintained, Less Mount (Not Shown)
	CE8LM2TAU120	*Mounting Adapter for Selector Switch*
6	DXLED7	Digital Timer, Less Horn
7	AVAE2612U3E	Mars Bill Acceptor, 24V
8	DXQLC	Microcoin Coin Mechanism
9	DXRS1	Horn, Digital Timers
10	UT4PINMOLEX	4 Pin Molex Connector, Male & Female, with Pins
11	UTLPCG25	Strain Relief
12	UTLPCG50	Strain Relief
13	UT02041802	Control Cable, Specify Length & Use Items 12, 13, 14, 15 & 16
14	RVWPS-GRN	Weatherpack Dust Seal *(Order 4 qty for Control Cable)*
15	RVWPM-15	Weatherpack Pins, Male *(Order 2 qty for Control Cable)*
16	RVWPS2	2 Port Weatherpack, Female
17	RVWPT2	2 Port Weatherpack, Male
18	RVWPF-15	Weatherpack Pins, Female *(Order 2 qty for Control Cable)*
	BRW-50092070	*Replacement Wago Screwdriver (Not Shown)*
	*UT18TFFN-_____**	*18 AWG Colored Wire (Not Shown) *specify color & order per foot*

Parts Breakdown: DU1A046F



Item	Part Number	Description
1	GO33100208	Transformer, 24VAC
2	BRW-51220029	5 Amp, Mini-Auto Fuse
3	GCS210-24	Solenoid Valve, 24V
4	DXLED7	Digital Timer, Less Horn
5	AVAE2612U3E	Mars Bill Acceptor, 24V
6	DXRS1	Horn, Digital Timers
7	CB11SW	Crypto Pay Swiper (Not Shown)
8	UT4PINMOLEX	4 Pin Molex Connector, Male & Female, with Pins
9	UTLPCG25	Strain Relief
10	UTLPCG50	Strain Relief
11	UT02041802	Control Cable, Specify Length & Use Items 12, 13, 14, 15 & 16
12	RVWPS-GRN	Weatherpack Dust Seal *(Order 4 qty for Control Cable)*
13	RVWPM-15	Weatherpack Pins, Male *(Order 2 qty for Control Cable)*
14	RVWPS2	2 Port Weatherpack, Female
15	RVWPT2	2 Port Weatherpack, Male
16	RVWPF-15	Weatherpack Pins, Female *(Order 2 qty for Control Cable)*
	BRW-50092070	*Replacement Wago Screwdriver (Not Shown)*
	UT18TFFN-_____*	*18 AWG Colored Wire (Not Shown) *specify color & order per foot*

Wago: Wire & Terminal Block Installation



1. Push Wago Driver into terminal block to displace spring.
2. Install wire. Wire must be stripped. (Approx. 5/16”, 8mm)
3. While holding the wire in place, remove the Wago Driver.
4. Pull gently on wire to assure proper installation.

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.

Dultmeier Sales • 1-800-228-9666 Omaha, NE • 1-800-553-6975 Davenport, IA