

# ARROW AUTOSTART SYSTEM WIRE INSTALLATION

Upon receipt of shipment, carefully remove the Autostart unit from the shipping container and thoroughly examine unit for shipping damage. In case of damage, immediately contact the carrier and request that an inspection report be filed prior to contacting Arrow Engine Company.

Following these instructions will help avoid common installation problems during wiring and setup. For a more detailed wiring schematic refer to page 8 of the Autostart Installation & User Manual.

**Battery must be disconnected before any wiring connections are made.**

**Wire length from the engine to the Autostart should not exceed 30 feet.**

**Use standard wire (THHN), since solid wire has a tendency to crack, break and loosen over time.**

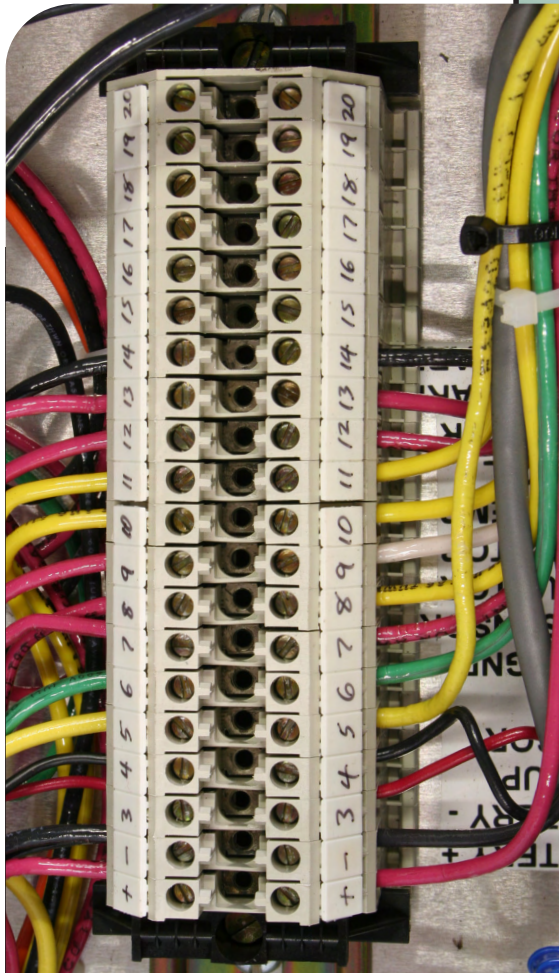
TERMINAL (Controller)	CONNECTION
+	Connect to battery positive.
-	Connect to battery negative.
3	Connect to white wire on the MP3298 magnetic pick-up.
4	Connect to black wire on the MP3298 magnetic pick-up.
5	Auxiliary shutdown input connection.
6	Connect to magneto kill lead.
7	Connect to oil sensor terminal "NO" (Normally Open.) [Connect common terminal oil pressure sensor to battery "+"]
8	Connect to terminal #2 in Murphy CO3 Actuator Box.
9	Connect to terminal #1 in Murphy CO3 Actuator Box.
10	Connect to ground terminal on high temperature/low water switch gauge shutdown.
11	Connect to ground terminal on low oil pressure shutdown gauge.
12	Connect to terminal #3 in Murphy CO3 Actuator Box.
13	Factory wired to the positive terminal on the start warning beeper.
14	Factory wired to the negative terminal on the start warning beeper.
15	Not used.
16	Not used.
17	Not used.
18	Not used.
17	Not used.
20	Not used.

10 gauge "+" wire must attach to the battery positive on battery or "+" terminal on engine starter.

10 gauge "S" wire must attach to the "S" (solenoid) terminal on the engine starter.

**Murphy Actuator terminal # "5" connect to battery negative, terminal # "4" connect to battery positive.**

**NOTE:** If the CO3 Actuator is not used, Autostart terminals 8,9, & 12 are not used.

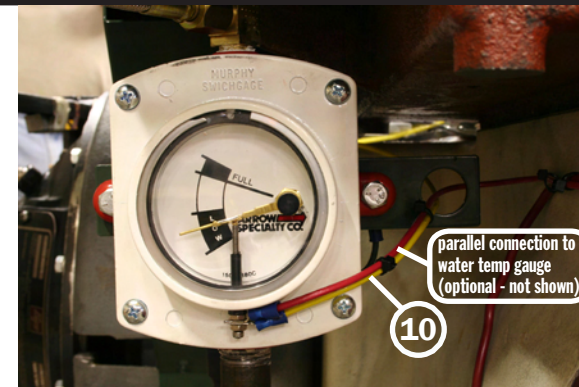


Autostart Terminal Strip

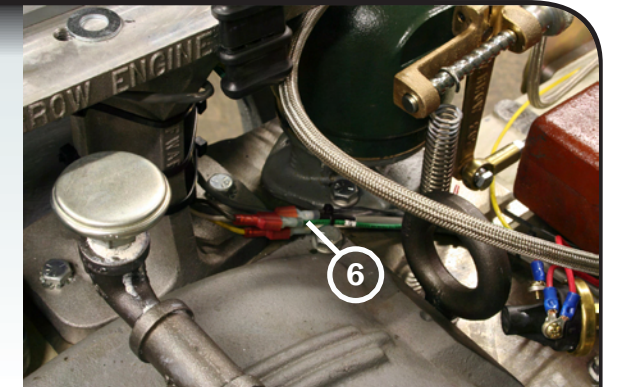


Autostart Solenoid

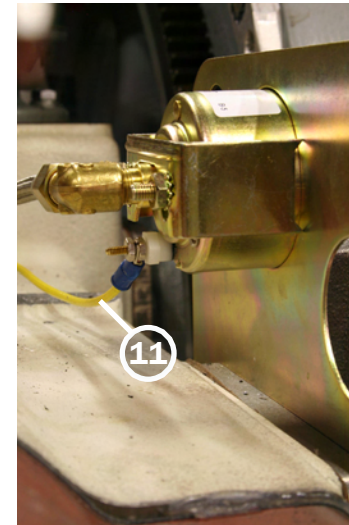
**ARROW ENGINE COMPANY**  
2301 E. Independence, Tulsa, OK 74110  
Toll Free 800.331.3662  
Local 918.583.5711  
Fax 918.699.2202  
Toll Free Fax in US & Canada 800.266.1481  
[www.arrowengine.com](http://www.arrowengine.com)



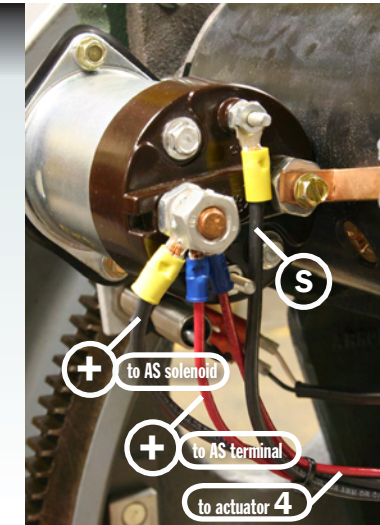
Low Water Gauge



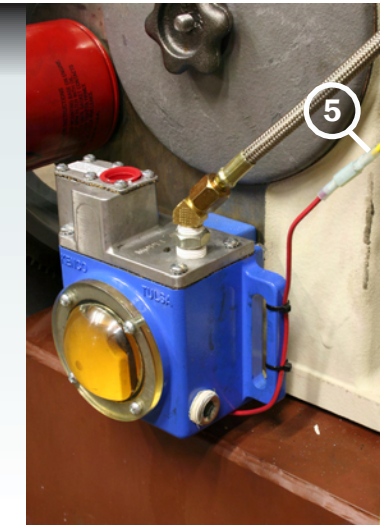
Magneto Kill Lead



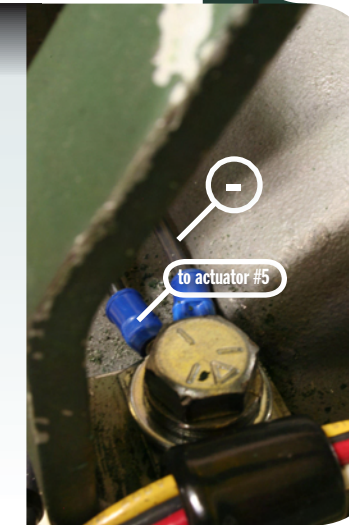
Oil Pressure Gauge



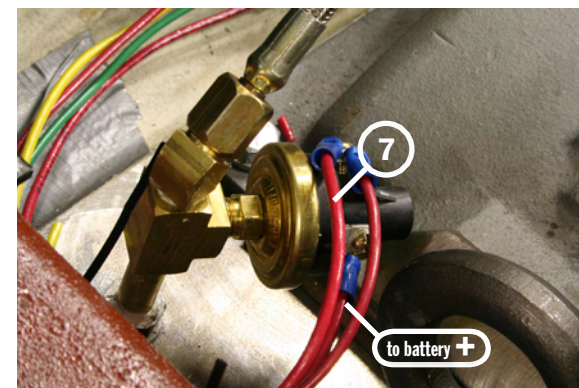
Starter Solenoid



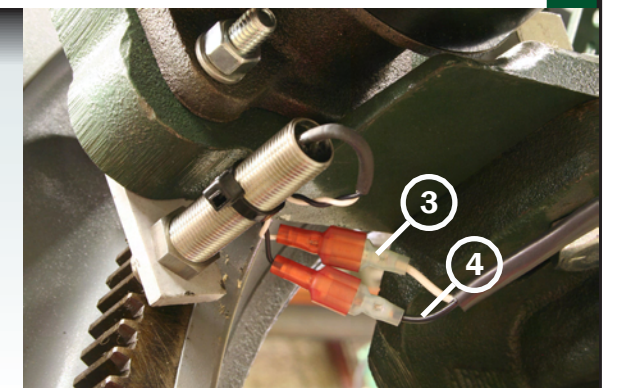
Low Oil Shutdown Gauge



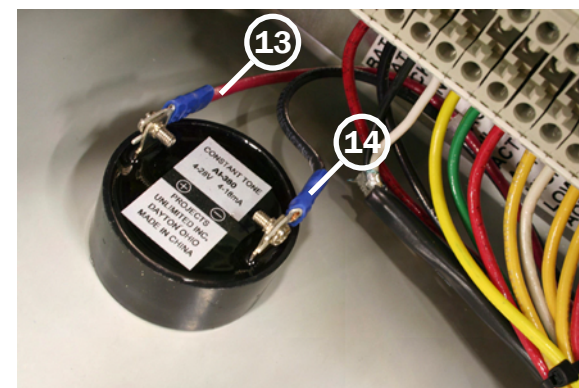
Ground



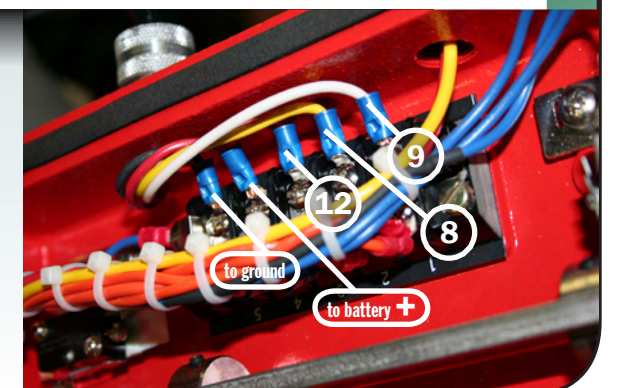
Oil Pressure Sensor



MP3298 Magnetic Pick-Up



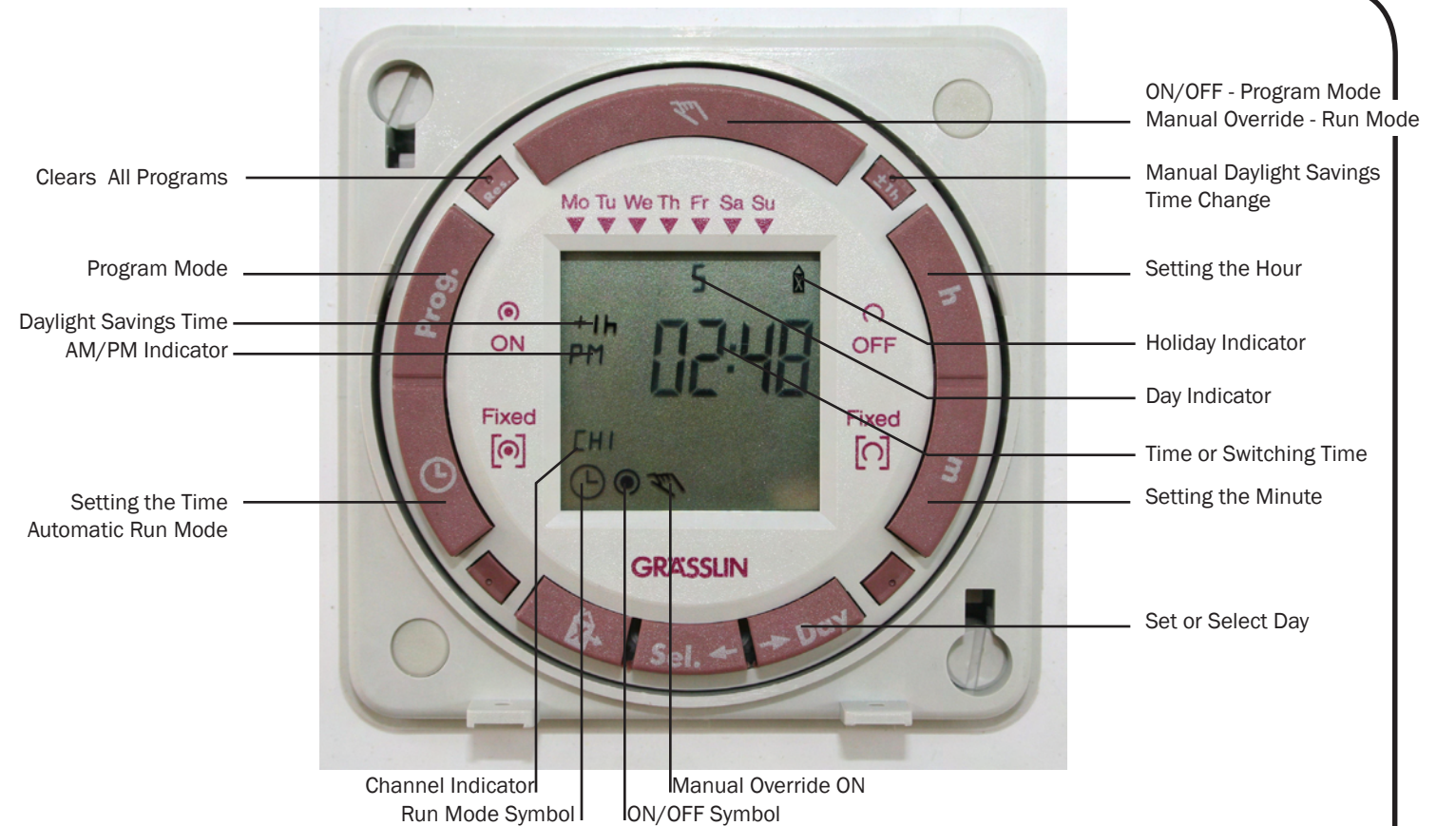
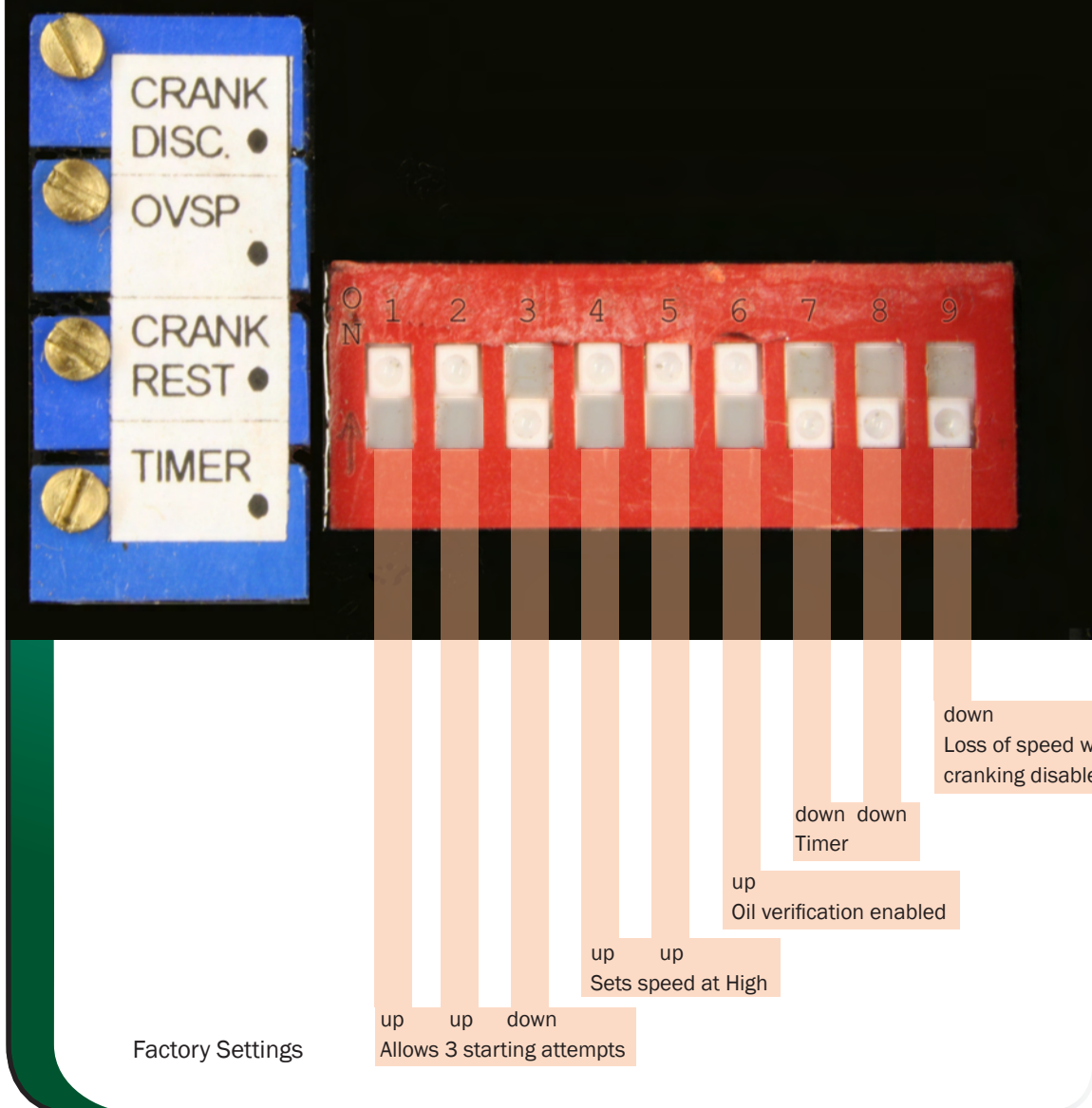
Start Warning Beeper



Murphy CO3 Actuator

# ARROW AUTOSTART SYSTEM ADJUSTMENTS

## STANDARD DIP SWITCH SETTINGS



### Setting the Time

NOTE: If the **h** and **m** keys are held down longer than 2 seconds, the numbers will advance rapidly.

Press and hold the **⌚** key during the following: (If Daylight Savings Time is in effect, press the **±1h** first.)

While holding down the **⌚** key, press **h** to advance to the current hour.

Continuing to press the **⌚** key, press **m** to advance to the current minute.

Still pressing the **⌚** key, press the **Day** key repeatedly to advance to the current day.

NOTE: If the days are flashing, it indicates the day of the week was not set when setting the time. The timer cannot be programmed unless the day of the week is entered.

### Manual Daylight Savings Time Changeover

Each year during the Spring changeover to DST, press the **±1h** button once to advance the time one hour. In the Fall, revert to standard time by pressing the **±1h** button once.

### Programs

The Digi 42/2 will accept up to 42 programs

A program consists of:

An ON or OFF command.

Time of day (hour and minute.)

Single Day or multiple days.

A program is required for each ON event, and a program is required for each OFF event.

NOTE: Multiple On or OFF events may be pre-programmed.

### Channels

In each program, CH1 and/or CH2 can be an OFF or ON event. Also, one channel can be an OFF event and the other an ON event in the same program. With both channels programmed to the same ON/OFF schedule, the timer becomes a DPDT time switch.

EXAMPLE: CH1 ON, CH2 OFF at 8 am every day.

Press **Prog.** key once

Press **⌚** key once CH1 ON symbol **●** appears

Press **⌚** key twice CH2 OFF symbol **○** appears

Press the **h** key to 8am

Press the **m** key to 00

Press the **Prog.** key to enter additional programs

### Selecting AM/PM or Military Time

After pressing reset, the display may show AM (right.) The numbered day symbols will be flashing on and off.

If the display does not show AM, it is in military time mode (24:00 hr.) To change to AM/PM mode, press and hold the **h** key and press the **±1h** key once. AM will appear in the display.

If display is in AM mode and military time is desired, press and hold the **h** key, press the **±1h** key once