

EASTERN LABS

Instructions
Model RM-1205
04/25/2007

Operation	
Junction Box Assembly	
Different Types of Switch Installations	
Counter Mounting Suggestions	

Operation



Push PWR/SEL button to turn on

LOCKOUT RESET

Normal power up display. (Plug in reset cord)

REMOVE RESET

Displayed while resetting. (Unplug reset cord)

Normal Operating Mode

RPM display will momentarily flash one of the drum status displays.

By pushing the PWR/SEL button the RPM display cycles thru these displays.

Note: In operating mode Total and Mix counters are always displayed. Only the lower half changes

Shut Down In 3

PWR/SEL button held more than 1.5s, shut down count will start. When zero is reached the unit will power off. If released before zero, the unit returns to where it left off in operating mode.

Agitate	Mixing
Charging	Discharg

⚡ Display's backlight flashes on & off

TIM 0:26 Time since reset H:MM

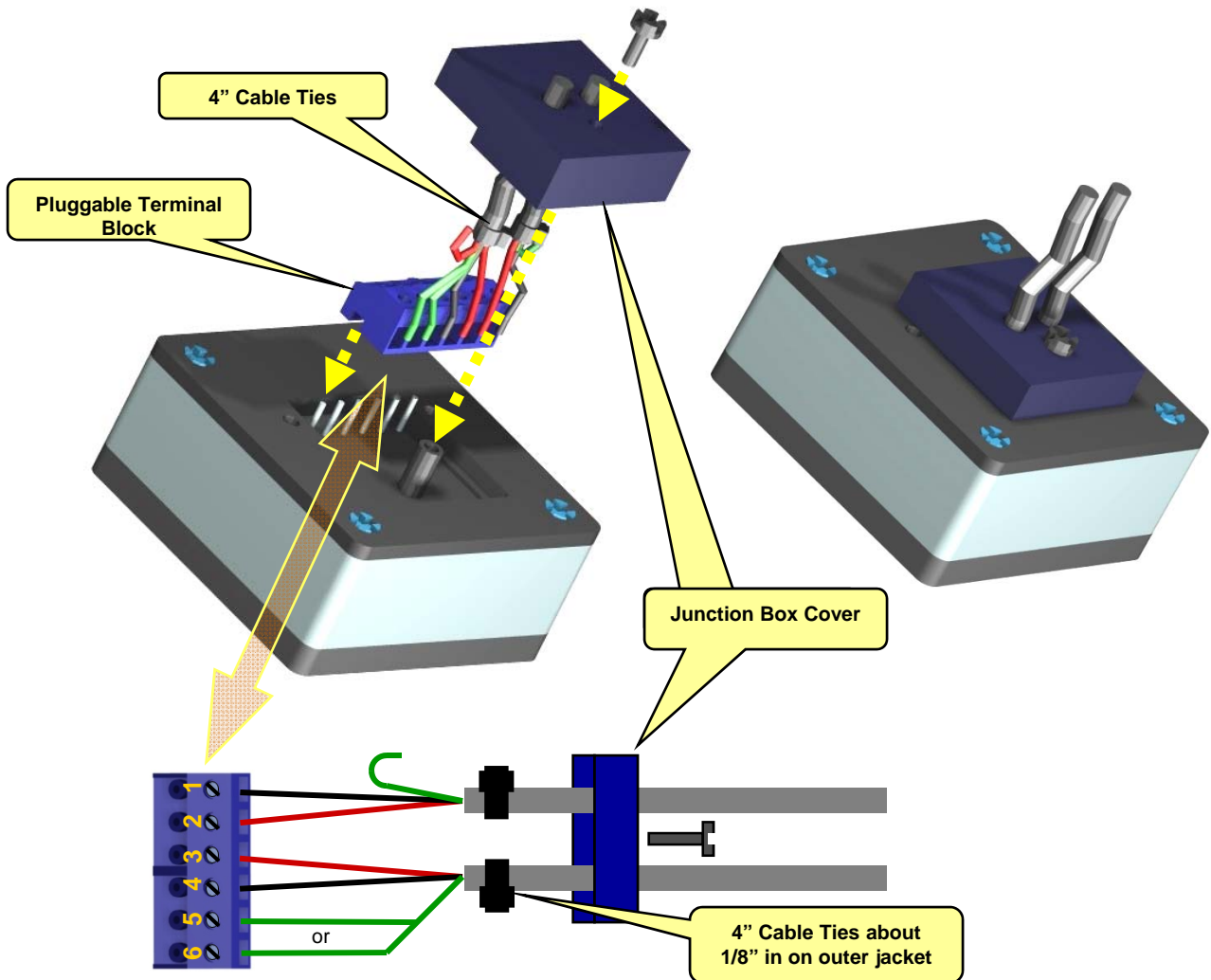
PS 6-18 Mixing range Preset Lo cutoff - Hi cutoff

TPR 3.41 Time per Revolution Seconds

LSA 0.13 Limit Switch actuation time Seconds

Back to RPM

Junction Box Assembly



Terminal Block Pin Assignments

Power In

- 1.....-12v power in (ground)
- 2....+12v power in (hot after ignition sw.)


To Sensor Switch

- 3.....+12v power out to switch (fused)
- 4.....-12v power out to switch (ground)
- 5.....Input 2 for double pulse inputs (Eastern's Prox. or Standard Prox. with fork arm)
- 6.....Input 1 for single pulse inputs (Limit Switch or Standard Prox. with bar arm)

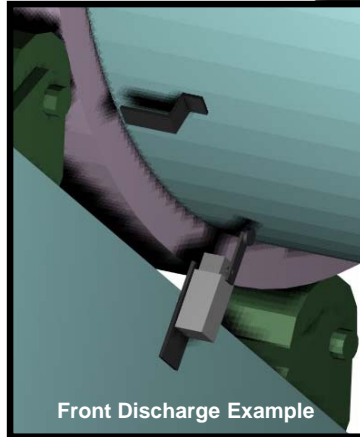
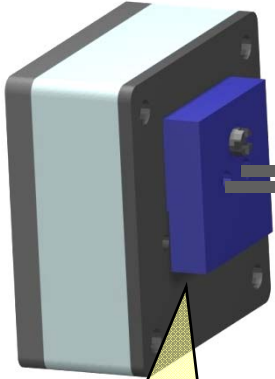
Note: For those with dual sensors
Use input 1 & 2 where 1 is on
before 2 in mixing direction

Prepared for
Limit Switch
from factory

Use this page *only* for Standard Limit Switch Installation

10ft Power Cable  } 12 to 24v connected after ignition switch

GRN no connection (NC)



20ft Cable to switch

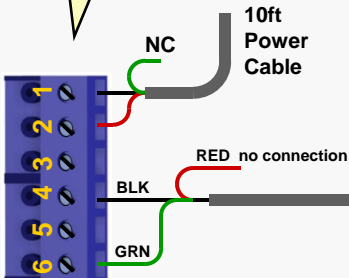
Use strain-relief connector

Set head for correct rotation (CCW shown)



Prewired for Limit Switch from factory

Limit Switch



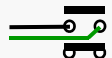
10ft Power Cable

20ft Cable

RED no connection

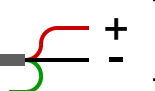
BLK & GRN to

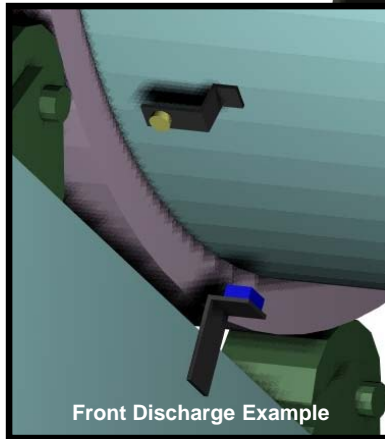
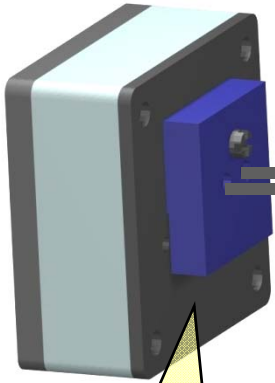
Normally open contacts



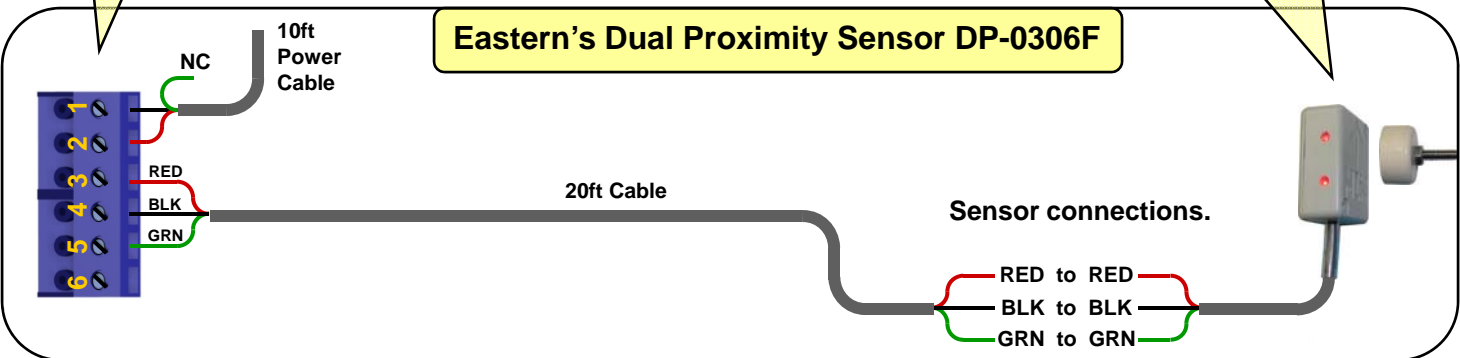
Pluggable terminal block (inside junction box)

Use this page *only* for DP-0306F Proximity Switch Installation

10ft Power Cable  } 12 to 24v connected after ignition switch
GRN no connection (NC)

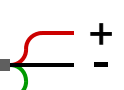


20ft Cable
to Sensor

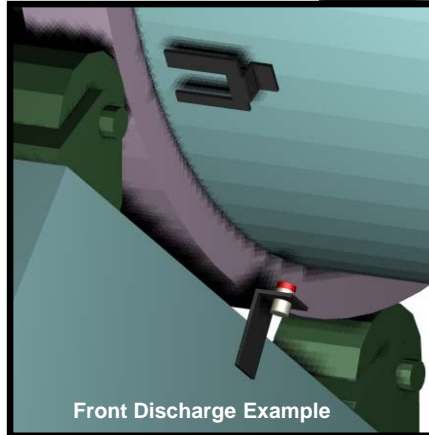
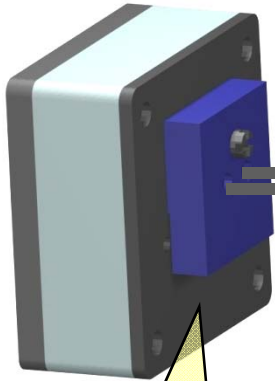


Pluggable terminal block (inside junction box)

Use this page *only* for Standard Proximity Switch Installation Using a Fork Arm

10ft Power Cable  } 12 to 24v connected after ignition switch

GRN no connection (NC)



Front Discharge Example

* 3/8" Gap



Fork Arm

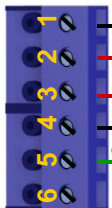
20ft Cable to Sensor

* Gap distance is dependant on Prox's rated sensing distance. For practical purposes use 50-75% of that

Standard Proximity Sensor with Fork Arm

10ft Power Cable

NC



With Fork Arm

20ft Cable

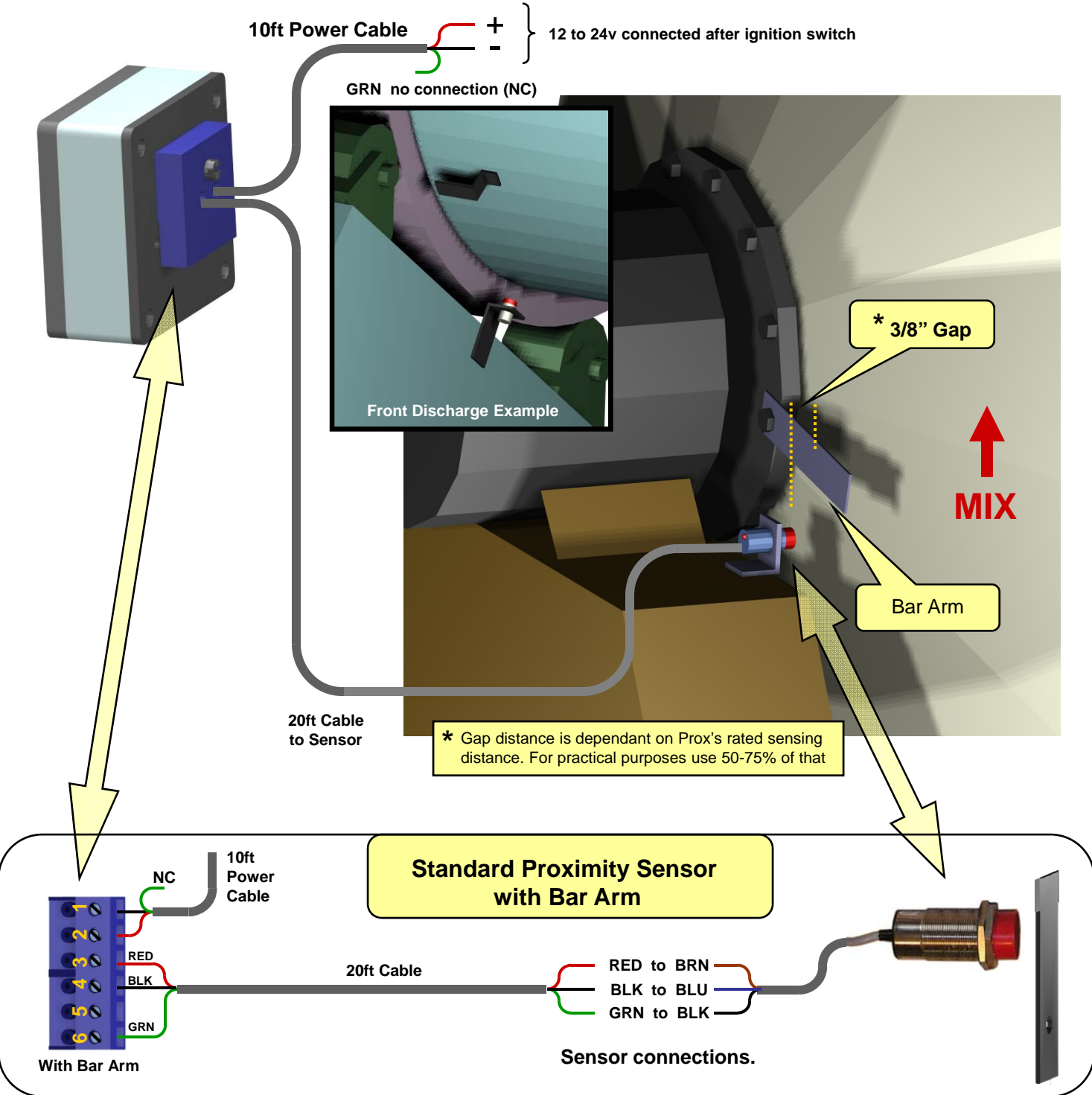
RED to BRN
 BLK to BLU
 GRN to BLK

Sensor connections.



Pluggable terminal block (inside junction box)

**Use this page *only* for
Standard Proximity Switch
Installation
Using a Bar Arm**

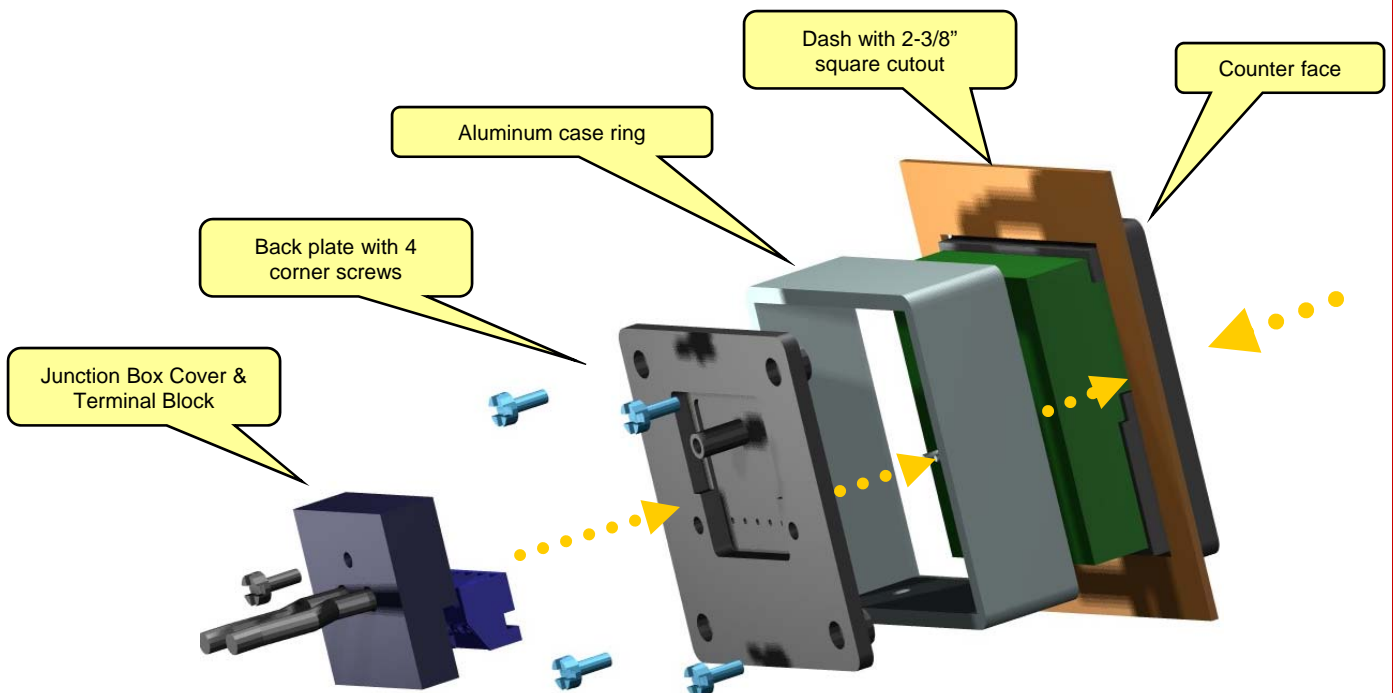


**Note: This is the only setup that is not NYSDOT accepted.
This is for use in areas where counting in both directions is allowed.**

Instrument Panel Mounting Flush Mount

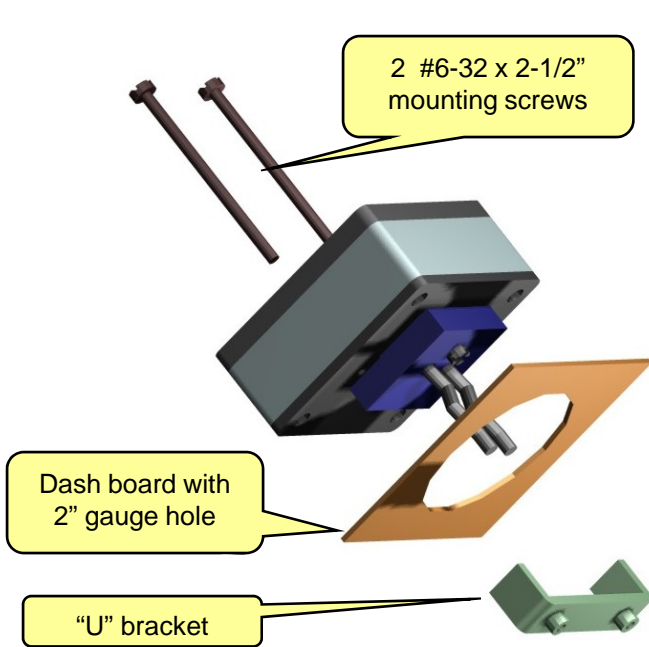


Cut a 2-3/8" square hole in dash. Take counter apart and reassemble with the face in front of the dash and the rest (aluminum ring, back plate, terminal block, & junction box cover) from behind the dash.



Instrument Panel Mounting 2" Gauge Hole

Make the connections and run the cables thru desired 2" gauge hole

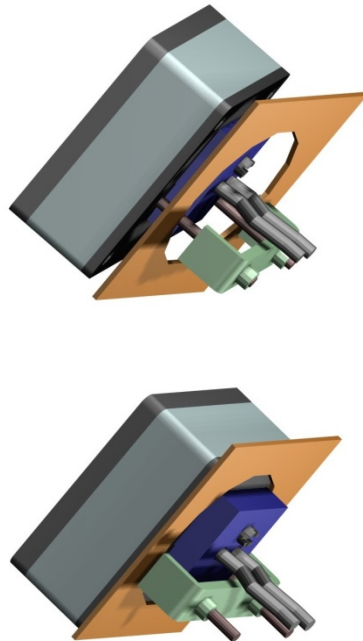


NEXT

Put counter head in dash and screw the 2 #6 screws into "U" bracket

OR

Put the 2 #6 screws thru counter head and just start them into "U" bracket. Tilt and shift the head & "U" bracket into the gauge hole.

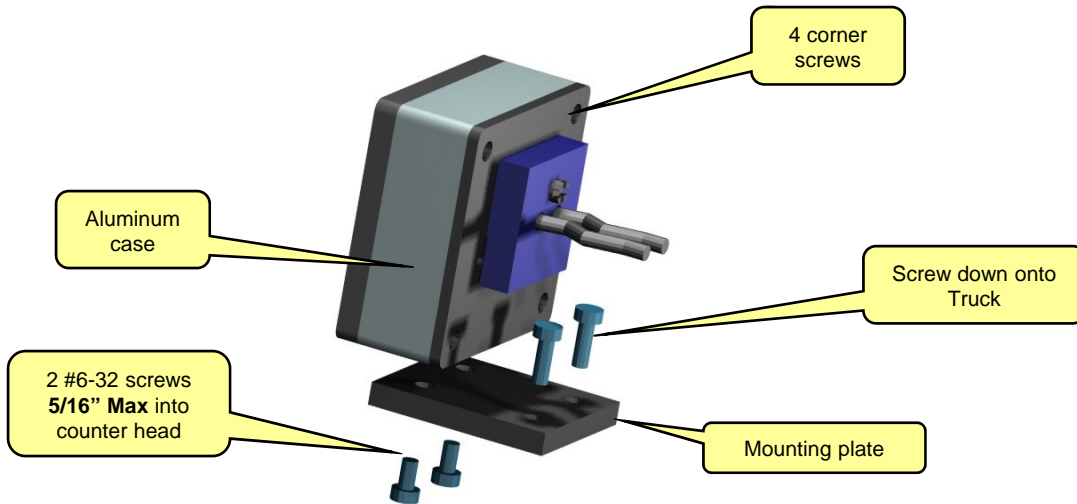


NEXT

Center the head in the hole and tighten down the screws

To remove the head in the future just remove 1 #6 screw completely and loosen the other. This will allow you room to tilt and shift the head & "U" bracket out.

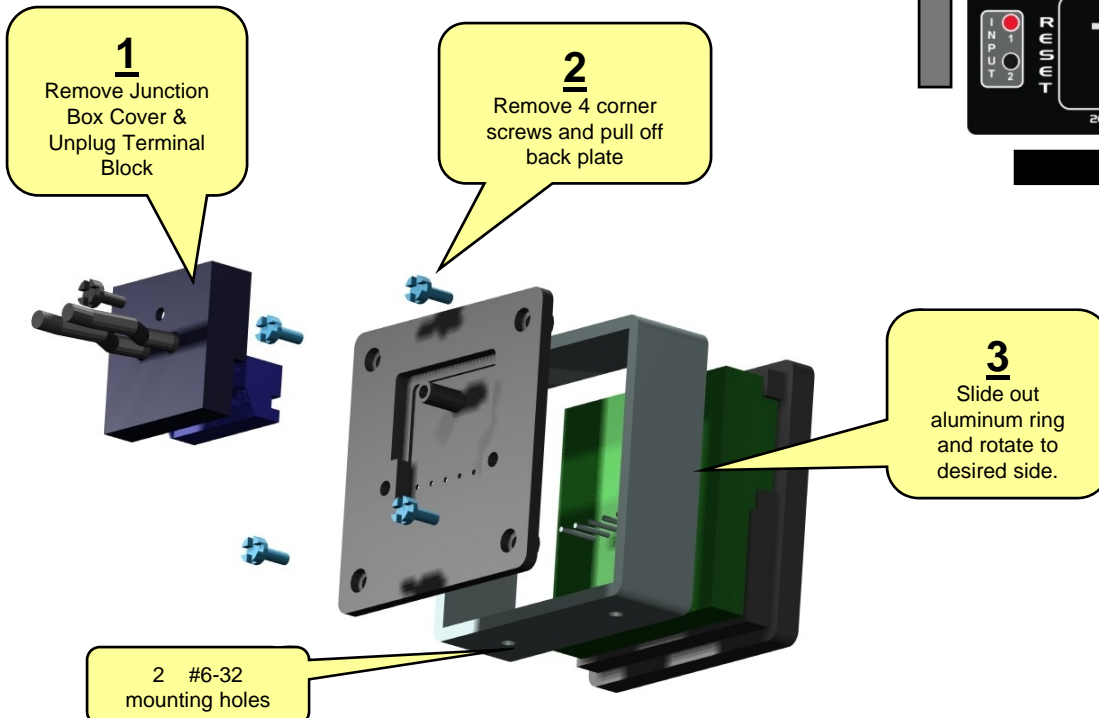
Side Mounting



Caution: Only use #6-32 x 5/16" screws that go into counter head. Using longer screws can cause damage internally.

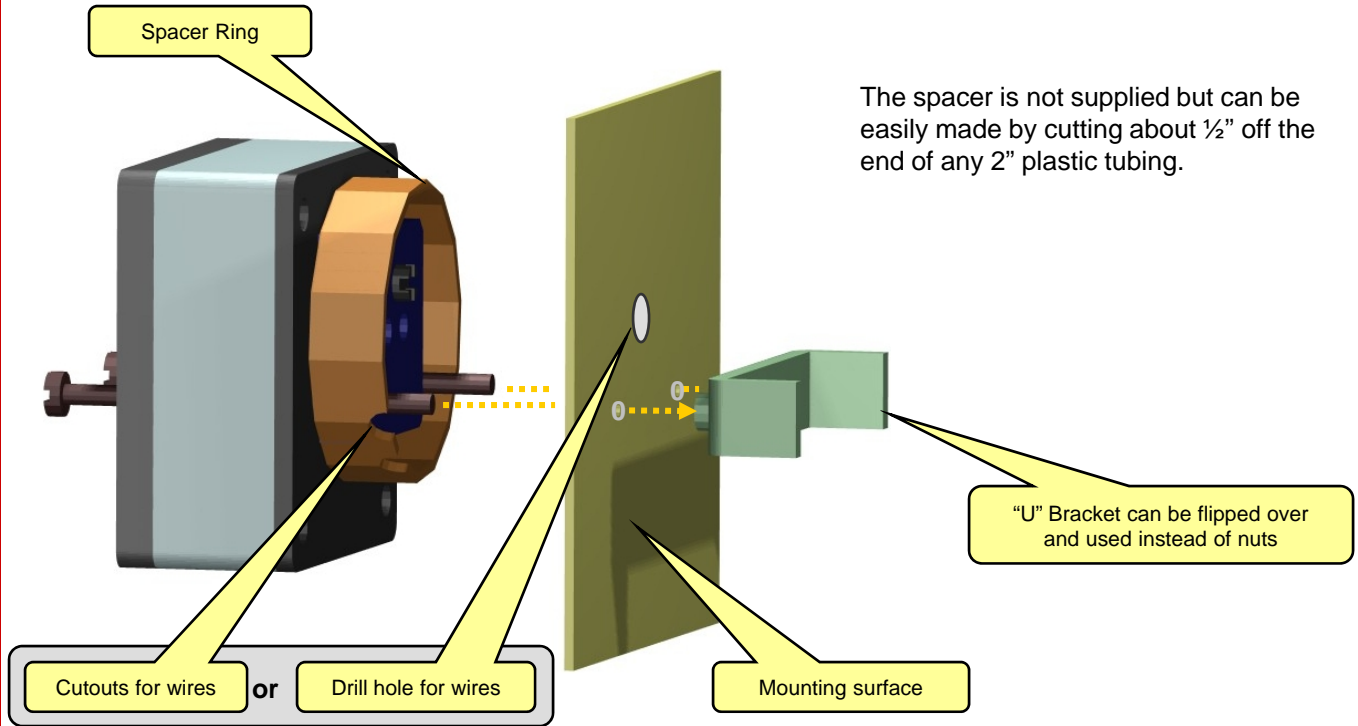
Changing the mounting side

Mounting plate can be put on any of the 4 sides. To change this remove jack box and unplug terminal block (refer to: Junction Box Assembly page). Remove 4 corner screws and pull off back plate. Slide out aluminum ring and rotate so that the mounting holes are on the desired side. Reverse to reassemble.



Additional Mounting Ideas

Surface Mounting



Gauge Bracket Mounting

