

Ri505A 2015

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Quick start

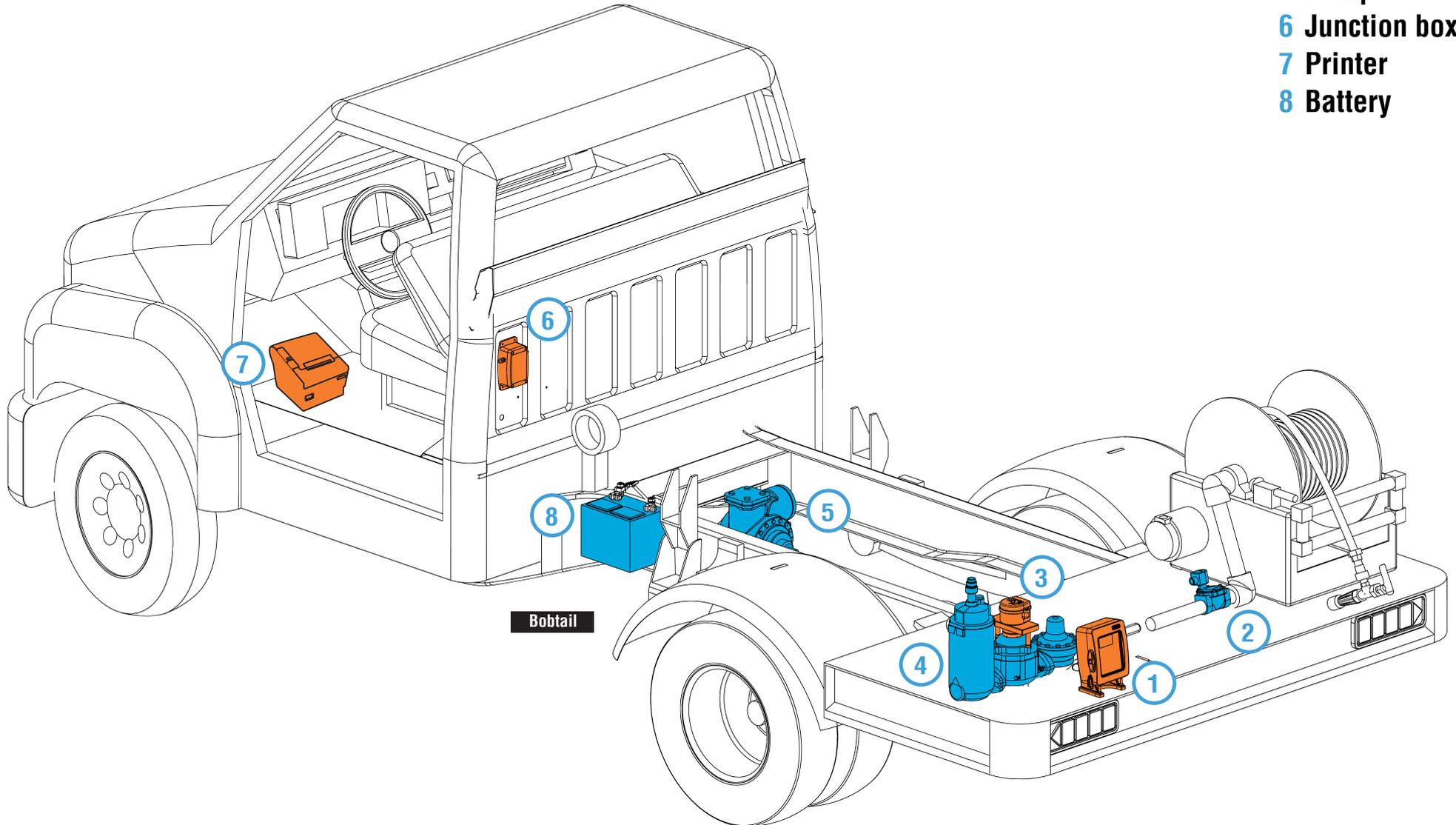
The most reliable and versatile control system for bobtails



Components Locations for POSITIVE DISPLACEMENT METER V - 1.1

Components ●●●

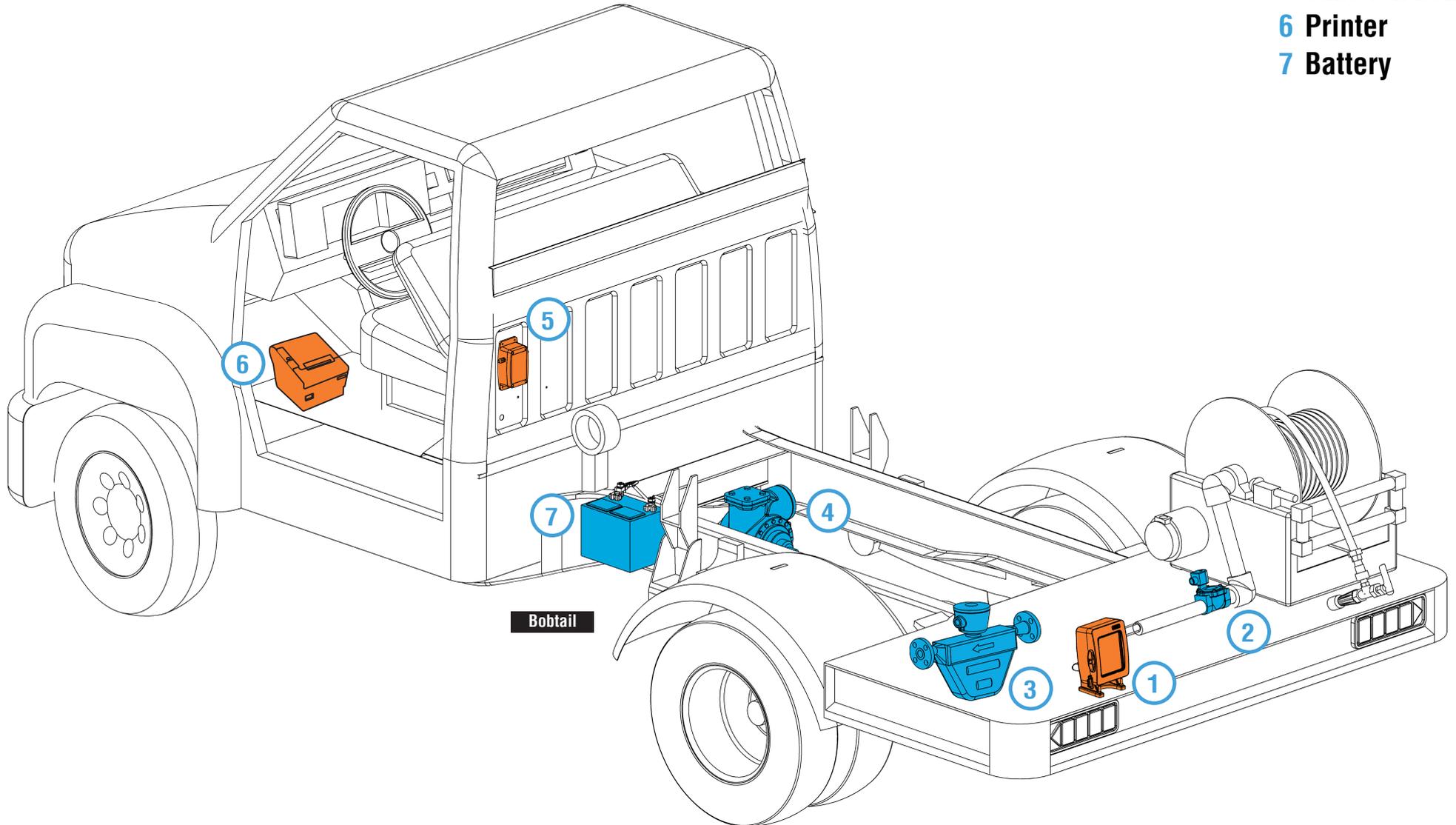
- 1 Ri505A 2015
- 2 Valve
- 3 Core processor
- 4 PD Meter
- 5 Pump
- 6 Junction box
- 7 Printer
- 8 Battery



Components Locations for MASS FLOW METER V - 1.1

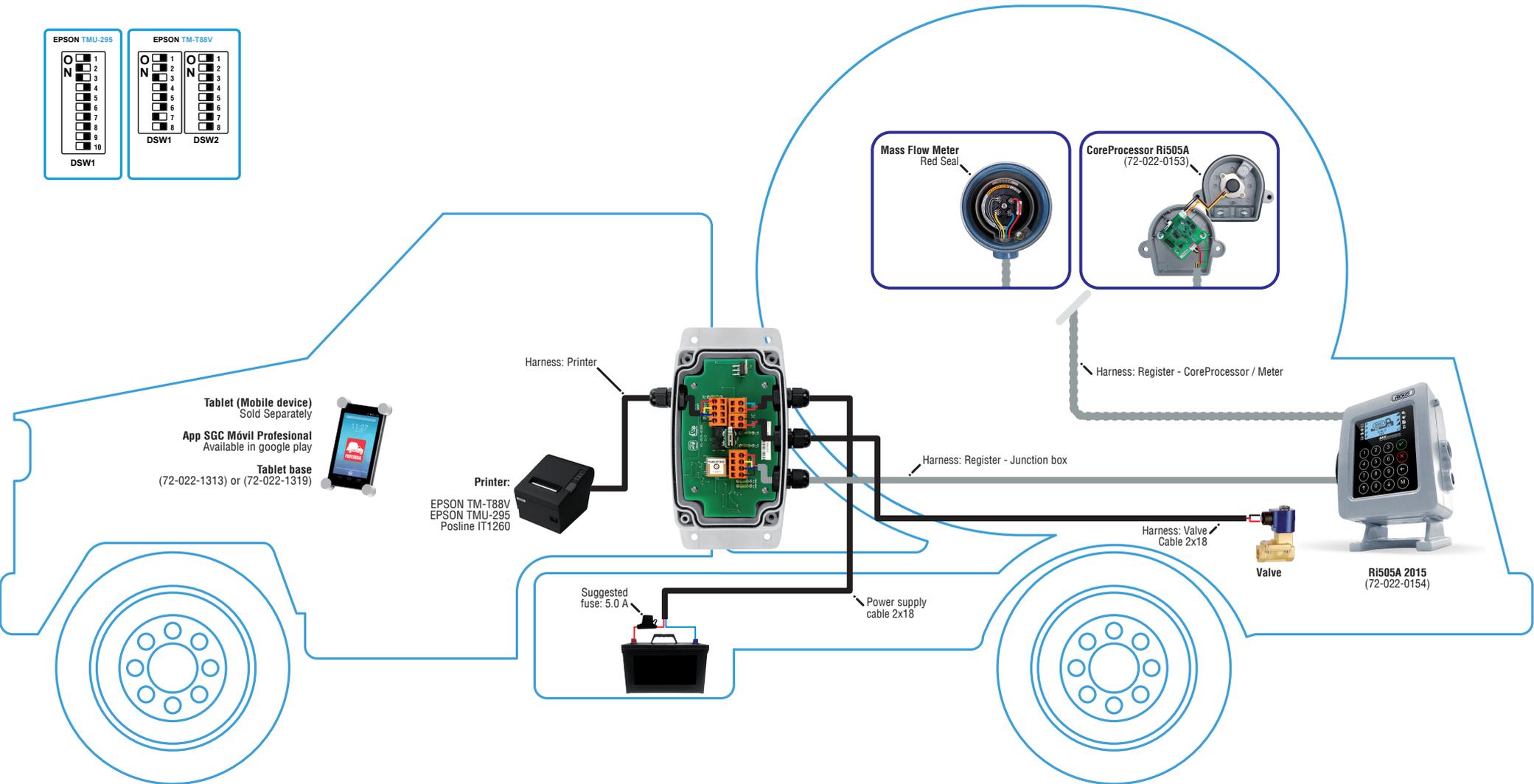
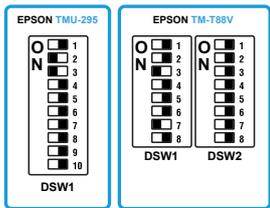
Componentes ●●●

- 1 Ri505A 2015
- 2 Valve
- 3 Mass Flow Meter
- 4 Pump
- 5 Junction box
- 6 Printer
- 7 Battery



Electrical and communications installation diagram V - 1.1

PRINTER	OBSERVATIONS
EPSON TMU-295	Dot-matrix printer, Type: receipt printing.
POSILINE IT1260	Thermal printer, With autocutter.
EPSON TM-T88V	Thermal printer, With autocutter; Graphics and barcode.



Register's installation guide on the bobtail. V - 1.1

Install the register using
 x4 1/4" Screws
 x4 1/4" Slip lock washers
 x4 1/4" Nuts
 Included in the purchase of the product.

Step 1. Register installation.

- Make 4 holes using the register as a template in the back of the bob tail.
- Install the register using 1/4" screws, slip lock washer and nut.

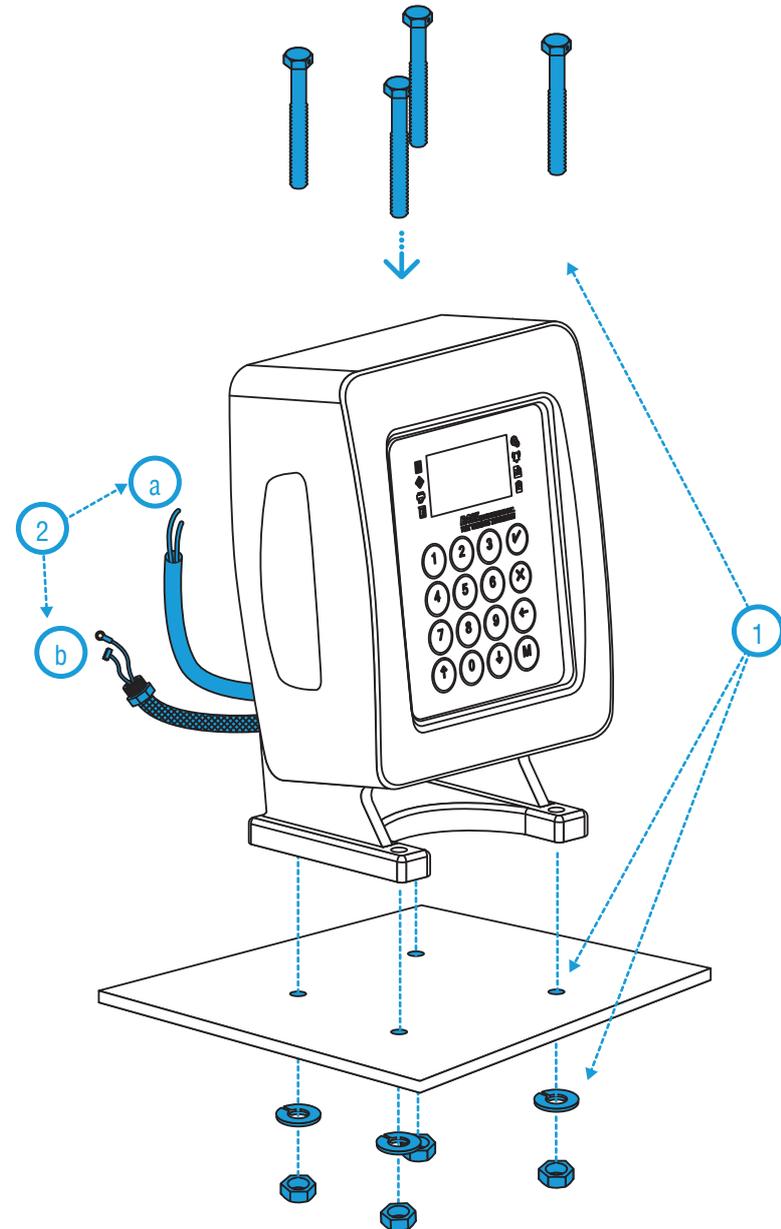
Step 2. Register connections.

- Route the power cord from the register (a), to the location of the junction box in the cabin.
- Route the core processor connecting cable (b), to the location core processor on the PD meter.

a - Harness: Register - junction box
 b - Harness: Register - Core Processor

IMPORTANT:

Make sure the register is left in a position of easy access. We recommend that the display direction is towards the operator.



Core processor installation guide for Neptune 1" PD meter V - 1.1

- X 4 10 - 32 2" Screw
- x4 2" Slip lock washer
- x4 2" Nut
- * Not included.

Step 1: Adapter connection.

- Place the magnetic coupling on the Neptune meter, insert on the meter's arrow and fix it with the opposor.
- Mount the protective tube coupling to the meter and place the Core Processor above it

Step 2: Core Processor preparation.

- Remove the hex screws and cover of the conduit.
- Connect the Ri505A's flexible pipe. Then fix the adapter with screws conduit 10-32 using a slip lock washer.

Step 3: Ri505A's Terminal conection to Core Processor.

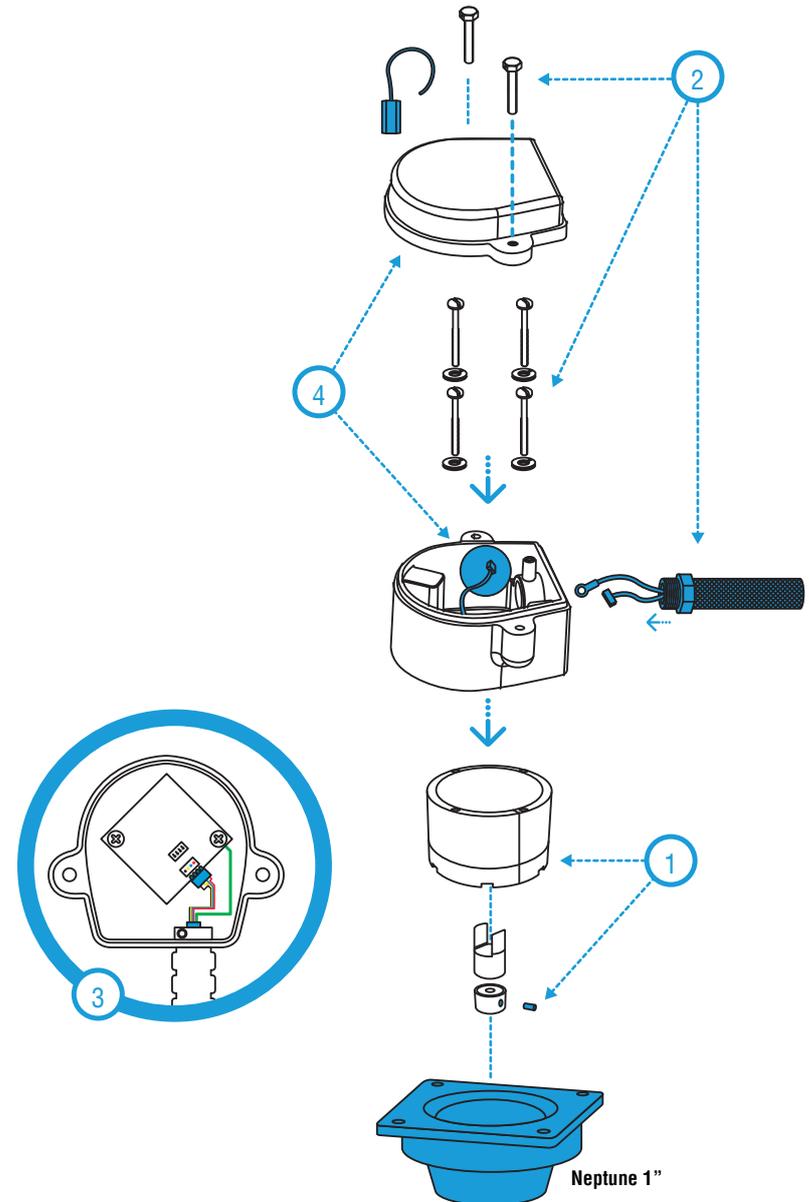
- Please connect the harness to the register's card according to the diagram.

Step 4: Securing the Cover.

- Connect the encoder harness to the core processor located in the cover of the conduit, at last use a bantum seal and fix it using hex screws.

IMPORTANT:

The harness that goes to the core processor, must be connected in the position CN2, in addition the ground wire must be secured in one of the screws that are fixed on the card.



Core processor adapter installation guide for Neptune 1.5" and 2" PD meters. V - 1.1

X2 Screw 3/8 of 3 "
x4 3/8" Slip lock washer
* Included in the purchase of the product.

Step 1: Coupling instalation

- Place the magnetic coupling on the Neptune meter, insert it into the meter's arrow and then fix it with the opressor.

Step 2: Assemble aluminum plate

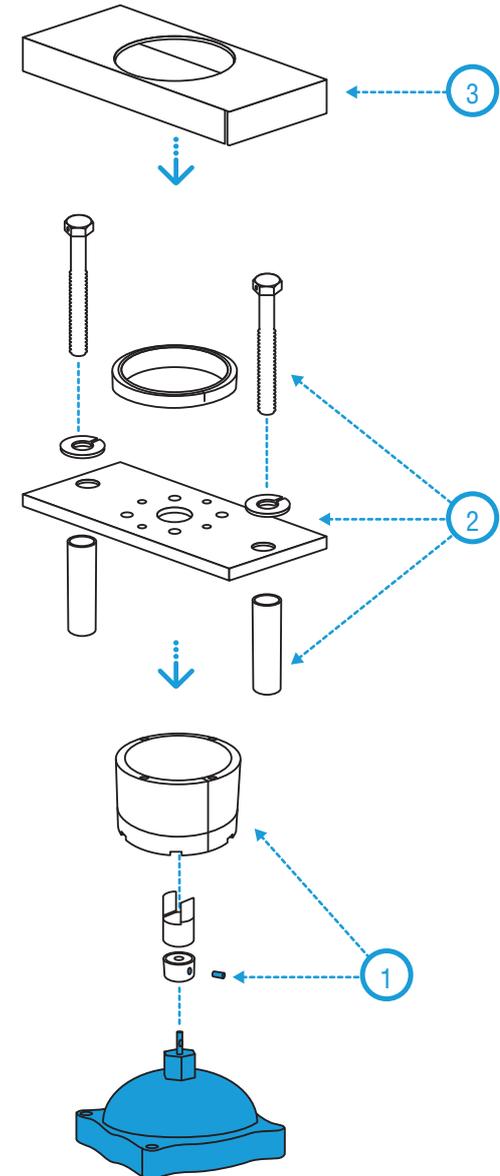
- Insert screws 3/8" into the holes in the plate placing washers.
- Place the spacers tubes and screw the meter.
- Place the spacer ring on the plate.

Step 3: Place the foil covers screws.

- Place the lid and make sure that the spacer ring embone correctly.

IMPORTANT:

The cover and the spacer should be centered, for installing the screws easily.



Neptune 1.5" / Neptune 2"

Core processor installation guide for Neptune 1.5" and 2" PD meters. V - 1.1

- x4 Screw 3/8 of 3 "
- x4 10-32 2" Screw
- x4 2" Slip lock washer
- x4 2" Nut
- * Not included

Step 1: Core Processor's Preparation.

- Remove the hex screws and the cover conduit. Connect the Ri505A's flexible tube. Then fix the conduit to the adapter using 10-32 screws and the slip lock washer.

Step 2: Ri505A's communication connection to Core Processor.

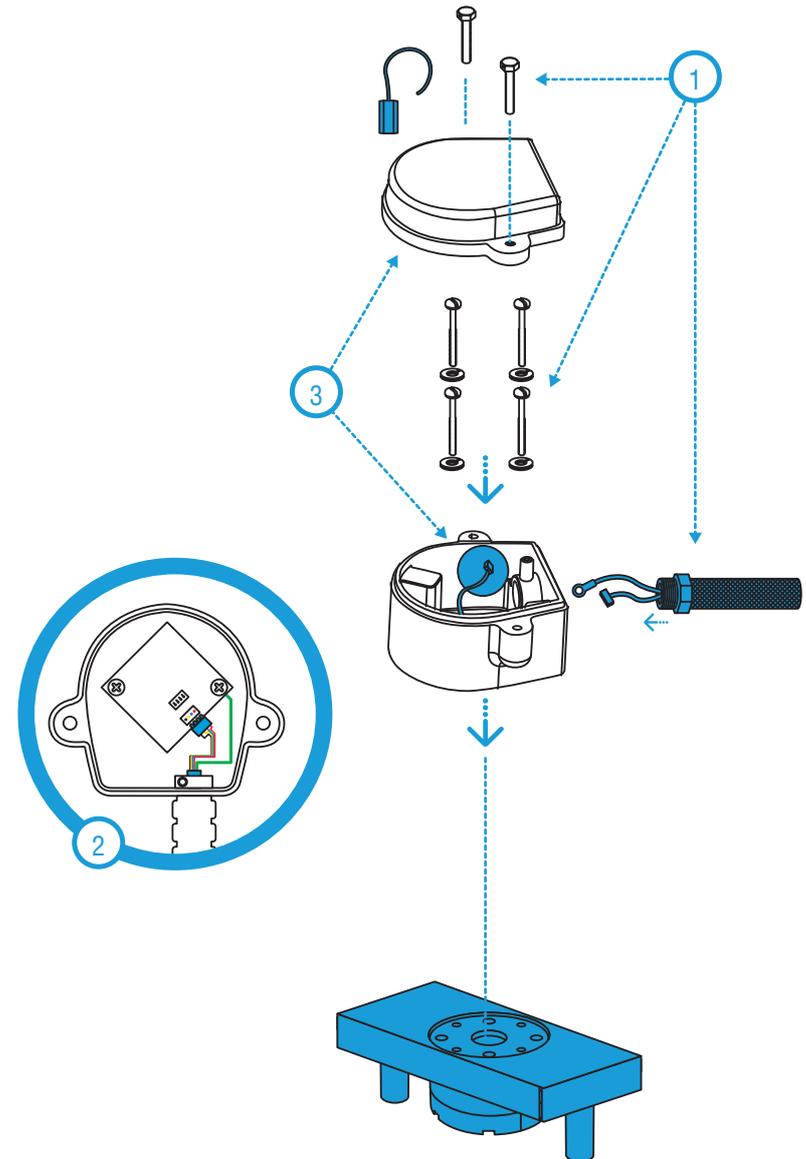
- Make the connection between the register's wires and the card, according shown in the diagram.

Paso 3: Securing the Cover.

- Connect the wire to the encoder located on the cover of the Core Processor, finally use a Bantum seal and set it using the screws.

IMPORTANT:

The harness that goes to the core processor, must be connected in the position CN2, in addition the ground wire must be secured in one of the screws that are fixed on the card.



Junction box installation guide V - 1.1

- x4 10-32 2" Screw
- x4 2" Slip lock washer
- x4 2" Nut
- x1 Gland connector
- * Included in the purchase of the product.

Step 1: Junction box assembly.

- Make 4 holes using the distributor as a template for its mounting in the cab.
- Subsequently, make a hole to place the printer's wire. Use the gland connector to prevent the wire from getting out of its position.

Step 2: Junction box connections.

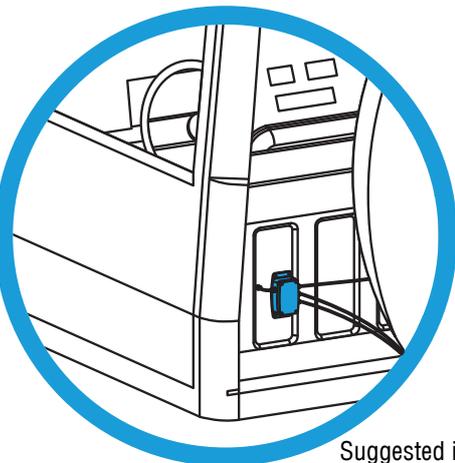
- Remove the junction box cover, the connect the following wires using a wago tool: Printer, battery, valve and Ri505A 2015's communications.
- Once the connections are made, proceed to install the cover.

Step 3: Mounting the junction box.

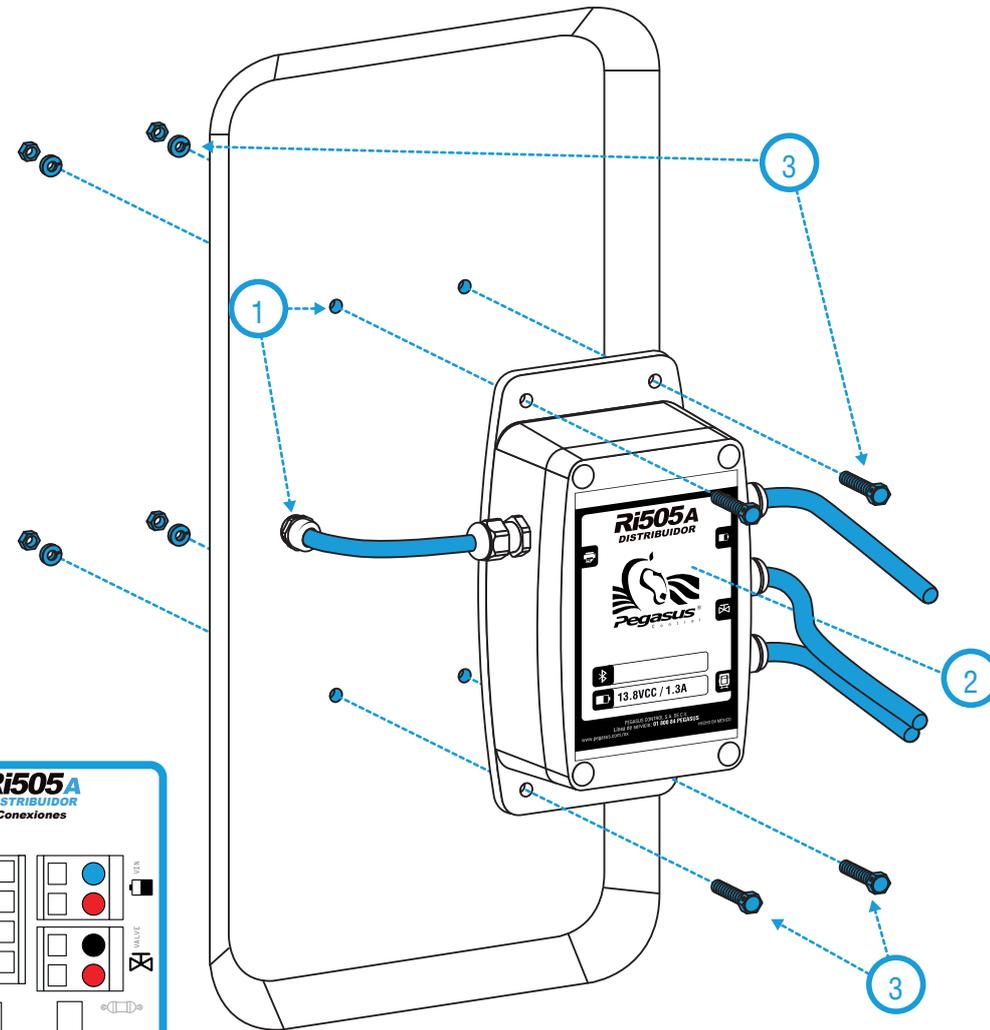
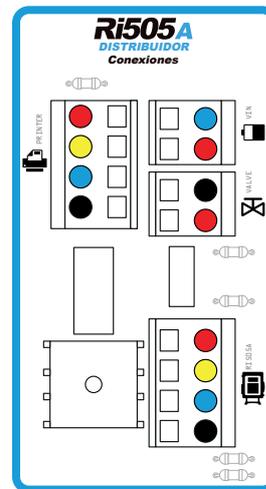
- To fix the junction box, use the material mentioned at the top of this page.

IMPORTANT:

Once the connections are made, verify that the display in the register is ON.



Suggested installation position



Configuration Guide

V - 1.1

1 METER KIND.

- Press the "M" button twice, And then introduce the password: eight times the number 2, ("22222222").
- Locate the option "Meter kind" and press the green button to enter.
- Using the "up arrow" select the meter kind as you wish (Positive Displacement Meter, Mass Flow Meter).
- Press the red button to go out of the menu.

2 PRICE.

- Press the "M" button twice, And then introduce the password: eight times the number 1, ("11111111").
- Locate the option "Price" and press the green button to enter
- Select the price you want to update and press the green button to access, type the new price and confirm the change with the green button.
- Press the red button to go out of the menu.

3 TAX.

- Press the "M" button twice, And then introduce the password: eight times the number 1, ("11111111").
- Locate the option "Tax" and press the green button to enter.
- Enter the new tax and confirm the change with the green button
- Press the red button to go out of the menu.

4 TIME ZONE (DATE).

- Press the "M" button twice, And then introduce the password: eight times the number 1, ("11111111").
- Locate the option "Time zone" and press the green button to enter.
- Enter the new time zone, use the "up arrow" button to change "+" to "-" and vice versa.
- Confirm the change using the green button.
- Press the red button to go out of the menu.

5 CHANGE PASSWORD.

- Press the "M" button twice, And then introduce the password: eight times the number 1, ("11111111").
- Locate the option "Change password" and press the green button to enter.
- Enter the new password, it will be 8 digit, at the end the system will ask you to confirm the new password.
- Enter the new password and press the green button to confirm the change.

Meter Configuration Guide

V - 1.1

SETTING POSITIVE DISPLACEMENT METER.

1 DIRECTION OF ROTATION

- Press the "M" button twice, And then introduce the password: eight times the number 2, ("22222222").
- Locate the option "sense of rotation" and press the green button to enter.
- With the button "up Arrow" select the direction of rotation of the meter, left or right depending on the case".
- Press the red button to go out of the menu.

2 CALIBRATION

- Press the "M" button twice, And then introduce the password: eight times the number 2, ("22222222").
- Locate the option "sense of rotation" and press the green button to enter.
- Present Tag to start an assortment of fuel.
- Press the red button to stop the assortment, and then enter the number of liters that indicates the meter pattern, finally confirm the calibration using the green button.
- Press the red button to go out of the menu.

3 MEASUREMENT UNIT.

- Press the "M" button twice, And then introduce the password: eight times the number 2, ("22222222").
- Locate the option "Measurement Unit" and press the green button to enter.
- Press the "up arrow" button to select the unit of measurement: liters or gallons.
- Press de red button to go out of the menu.

SETTING MASS FLOW METER.

1 MEASUREMENT KIND

- Press the "M" button twice, And then introduce the password: eight times the number 2, ("22222222").
- Locate the option "Measurement Unit" and press the green button to enter.
- Press the "up arrow" button to select the measurement kind: Volume (liters or gallons) or Mass (kilograms or pounds).
- Press the red button to go out of the menu.

2 MEASUREMENT UNIT

- Press the "M" button twice, And then introduce the password: eight times the number 2, ("22222222").
- Locate the option "Measurement unit" and press the green button to enter.
- If you configured the measurement type in mass, you will have the options Kilograms and Pounds, on the other hand if you configured the volume option you will have options liters and gallons.
- Press the "up arrow" button to select the unit of measurement.
- Press the red button to go out of the menu.

Operation Guide Ri505A STAND ALONE. V - 1.1

1 PRESET DELIVERY BY MONEY

- Press the “M” button, select the menu “Start Delivery” and then press the green button.
- Select the price that will be used using the buttons “1 to 0”.
- Introduce the amount and then press the green button.
- Present the seller Tag to start.

2 PRESET DELIVERY BY MEASUREMENT UNITS

- Press the “M” button, select the menu “Start Delivery” and then press the green button.
- Select the price that will be used using the buttons “1 to 0”.
- Press the “down arrow” button to select the delivery (liters or gallons).
- Introduce the amount of the delivery and then press the green button.
- Present the seller Tag to start.

3 NON PRESET DELIVERY

- Press the “M” button, select the menu “Start Delivery” and then press the green button.
- Select the price that will be used using the buttons “1 to 0”.
- Press the green button.
- Present the seller Tag to start.

Check List V - 1.1

START CHECK LIST

Checkpoint	Critical point	Confirm
Truck number	- Make sure the truck number is correctly assigned	
Measurement	- Make sure that the register Ri505A contains the properly configuration in the direction of rotation. - Validate the calibration record, against the meter pattern.	
Printer	- Ensure that the printer is connected to, your DipSwitch configured, and with the Power Button ON. Ensure that the printer is connected to the power, its DipSwitch configured, and with the Power Button in position "ON".	