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| Applicable product: | U02 Oil level sensor: | Stage 1: | Preparation | Device: | | Document No.: | | Ver: | A0 | Page: | 1 |
|---------------------|-----------------------|----------|-------------|---------|--|---------------|--|------|----|-------|---|

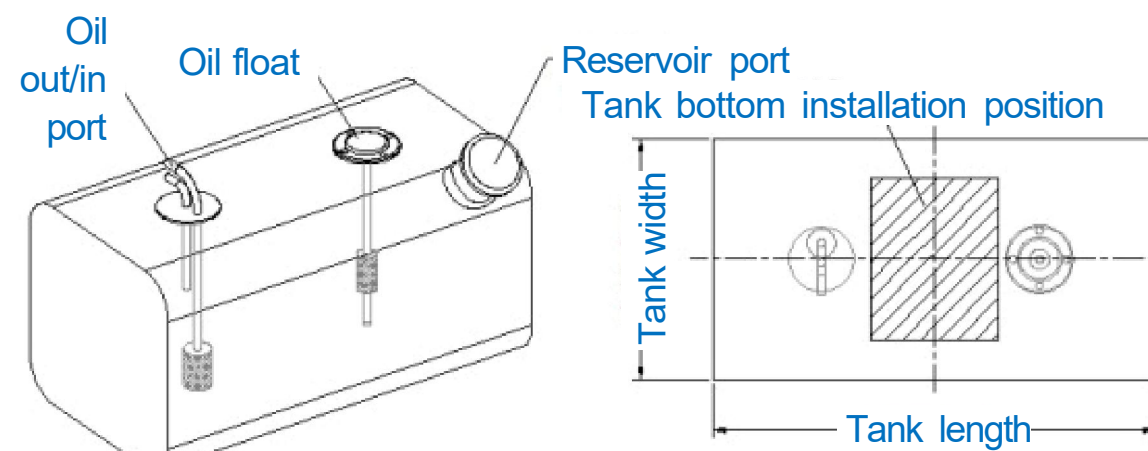
Operating conditions:

1. Vehicle status -- required to be parked in a horizontal position
2. The oil tank needs to be filled up

Material List:

| Name | Quatity |
|-----------------------|---------|
| Cleaning paper | 1PCS |
| Coarse fine sandpaper | 1PCS |

Diagram:



The square fuel tank

The fuel tank bottom view

Operation Step:

1. Park the installation vehicle on the level ground and select the installation position with the best flatness, which should be far away from the oil delivery/return pipe, oil float and baffle plate

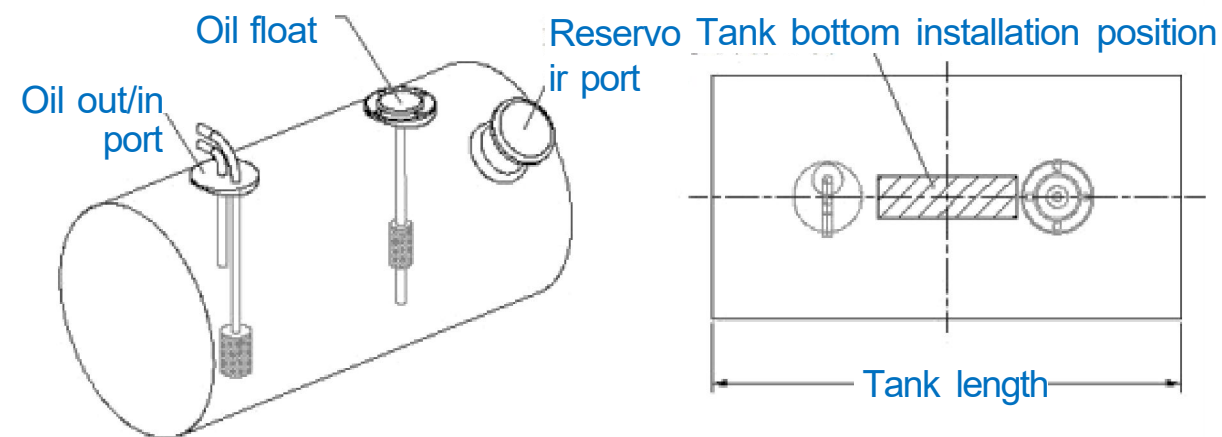
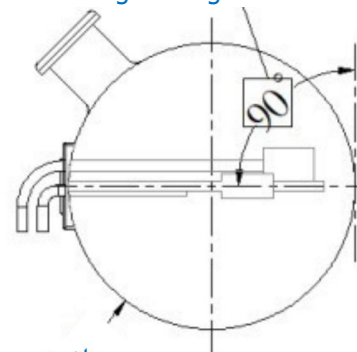
(Please refer to the illustration for tank structure)

2. Adopt sandpaper and gently polish the selected position, polish off the oil and dust on the surface, and then wipe the position clean with paper towels (or cloth) (gently wipe the position with your hand to confirm whether it is clean)

Matters need to attention:

The probe installation area should avoid refueling port, oil outlet, oil return pipeline, oil float, baffle, etc., and choose the position where the bottom of the tank is flat and as close to the center area as possible

Form a 90-degree Angle to the oil level



The circle fuel tank

The fuel tank bottom view

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| Issue By: | PanHao | QC: | Shengchong zhao | Approved: | | Revised Date: | 2022-6-1 | Issue Date: | 2022-6-1 | Issue: | 2022-6-1 |
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| Applicable product: | U02 Oil level sensor: | Stage 2: | Testing before installation | Device: | Data display reader | Document No.: | | Ver: | A0 | Page: | 2 |
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Operating conditions:
1. Data display reader power by DC 5.0V

Material List:

| Name | Quatity |
|----------------|---------|
| Sensor | 1PCS |
| Data reader | 1PCS |
| coupling agent | 1PCS |



Figure 1

Figure 2

Operation Step:

1. Connect the sensor to the data display board (or computer) and observe the data display board (product version number/product detection distance value display 0/product return signal quality display maximum 30) (Figure 1)
2. Apply the couplant to the central concave point of the sensor host (the coupling dose needs to be higher than the concave point) (as shown in Figure 2)
3. Paste the sensor on the selected position, and check the sensor signal through the data display board: the sensor returns normal data (consistent with the actual distance), and the installation mode displays SUCC, indicating that the installation position is normal and can be installed. Installation mode is entered by clicking button B (The keys are C, B, A from left to right)

Note: The installation auxiliary tool E06 is an optional tool: the installation judgment is made through the instructions of the auxiliary tool (see DYP-RD-Operation Manual (DYP-E06) 200827-A0 for details)

Matters need to attention:

1. Use the installation mode to determine whether the installation is successful. **The oil level of the tank must be at least 20cm high**



← The display is an optional accessory. Please contact the salesperson if necessary.

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| Applicable product: | U02 Oil level sensor: | Stage 3: | Testing before installation | Device: | Data display reader | Document No.: | | Ver: | A0 | Page: | 3 |
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Operating conditions:

Material List:

| Name | Quatity |
|---------|---------|
| bracket | 1PCS |
| AB glue | 1PCS |



Figure 1

Figure 2

Operation Step:

1. After the sensor detection shows that the installation is satisfactory, clean the area, polish the paint surface, and install the bracket
2. Bracket installation: use the distribution to mix 302 glue A/B in a ratio of 1:1, and stir evenly (as shown in Figures 1 and 2)
3. Take out the bracket, remove the spring, and apply the stirred AB glue to the bottom of the bracket (as shown in Figure 3)
4. Grab the fulcrum of the bracket with your fingers, and stick the bracket to the selected installation position (as shown in Figure 4) Press the bracket by hand for 20 seconds and then release it, wait for 3 minutes to start installing the probe

Matters need to attention:

1. AB glue needs to be applied completely, and the flooding will affect the actual contact area and thus affect the service cycle
2. The bottom of the bracket should be completely attached to the container to avoid gaps



Figure 3



Figure 4

| | | | | | | | | | | | |
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| Applicable product: | U02 Oil level sensor: | Stage 4: | The sensor installation | Device: | Data display reader | Document No.: | | Ver: | A0 | Page: | 4 |
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Operating conditions:

Material List:

| Name | Quatity |
|-----------------------|---------|
| U02 SENSOR | 1PCS |
| Sensor extension cord | 1PCS |
| Sealing coupling glue | 1PCS |

Figures:

Operation Step:

- After the sensor detection shows that the installation is satisfactory, clean the area, polish the paint surface, and install the bracket
- Bracket installation: use the distribution to mix 302 glue A/B in a ratio of 1:1, and stir evenly (as shown in Figures 1 and 2)
- Take out the bracket, remove the spring, and apply the stirred AB glue to the bottom of the bracket (as shown in Figure 3)5. Grab the fulcrum of the bracket with your fingers, and stick the bracket to the selected installation position (as shown in Figure 4)Press the bracket by hand for 20 seconds and then release it, wait for 3 minutes to start installing the probe

Matters need to attention:

- Before applying glue, ensure that there is no residual coupling agent or other impurities on the sensor probe surface and gap
- Install the spring to avoid moving the sensor



Figure 1



Figure 2



Figure 3



Figure 4

| | | | | | | | | | | | |
|-----------|--------|-----|-----------------|------------|--|---------------|----------|-------------|----------|--------|----------|
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Operation instruction

Installation inspection(FAQ):

1. After the installation of sensor U02 finished, No data transmission or data does not conform to the actual oil level height.

- ① Check whether the ultrasonic sensor is installed correctly or not.
- ② Check whether the installation position at the bottom of the tank is smooth and whether the surface is clean.
- ③ Check after the ultrasonic sensor is installed whether the vehicle is on flat ground, without incline.
- ④ Check whether the ultrasonic sensor interface is in bad contact or loose.
- ⑤ Check when choosing the installation position, whether to avoid the internal obstacles of the tank.
- ⑥ Check whether the tank fuel/liquid contains too many components.

2. After the installation is complete, the data will be zero after a period of time.

- ① Check whether the wiring is loose and loose and in bad contact.
- ② Check whether the ultrasonic probe falls off.
- ③ Check whether the sealing coupling glue is uniform, or too little.
- ④ Try to remove the probe and install it correctly.

Because couplings(ultrasonic Gel) and AB glues are considered flammable and explosive, air transportation is not allowed! So the sensor does not contain ultrasonic couplings and AB glue. Please choose the right local brand to buy.



Ultrasonic Coupling standard:
Recommend to use Medical Ultrasonic couplant / gel



Glue standard:
Recommend AB glues /Epoxy



Loctite E-05CL
Hysol Epoxy...

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