

GREAT GUARD G-367RA

Installation Procedures and Notices

Introduction :

There are five parts of this system showed in figure1.

1. **Hydraulic unit—**
 - It is to be installed at the master brake pump system or ABS system as closer as possible. A bracket has to be if necessary.
2. **Main Unit ---**
 - It is to be installed just beneath the dashboard with cable connecting to Hydraulic unit and to Receiver.
3. **Receiver ---**
 - It is to be installed at a proper place near the dashboard. It is to receive the signal from Remote Controller.
4. **Remote Controller ---**
 - It is to be installed at a proper place to avoid the sunshine..
5. **Cables and others ---**
 - 6-pin Cable x 1
 - 2-pin power cable (Red / Black) x 1
 - 2 power wire (Red wire and Black wire) x1
 - Power switch and bracket x1
 - 3M sticker x 2
 - 3-pin cable x 1 **(Optional)**

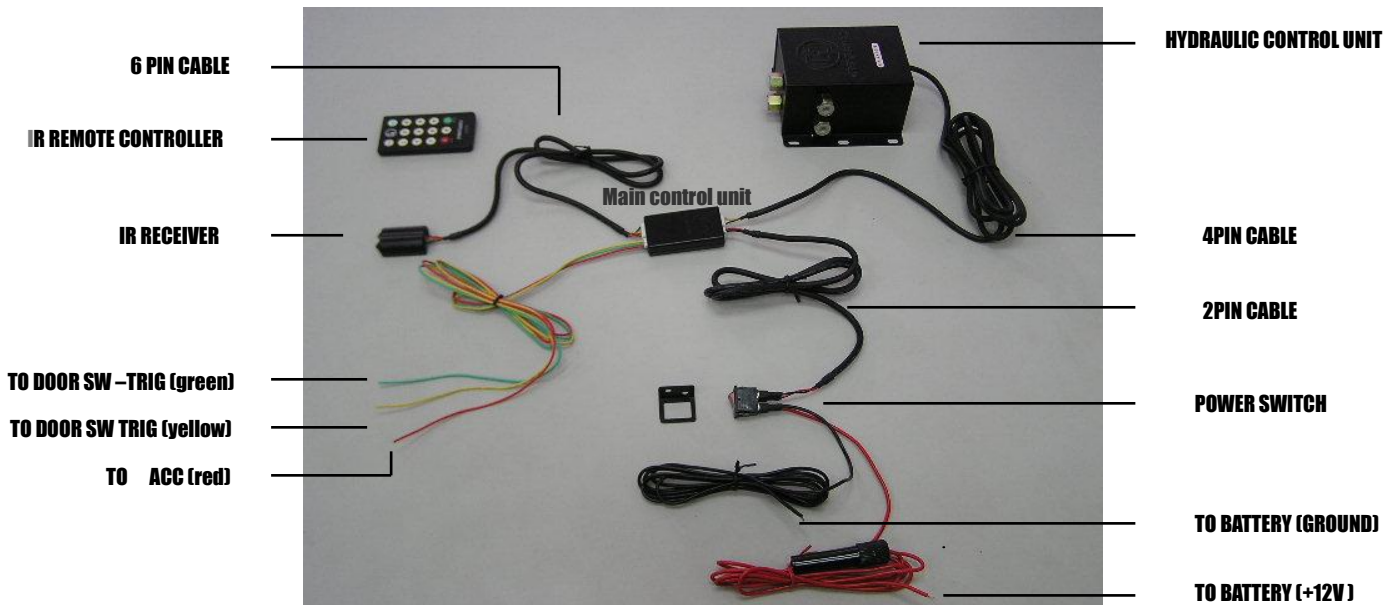
Procedures :

1. **Covering with a plastic clothe on the surface of car above the tyre in order to prevent the scratch or hurt or oil-stained during installation.**
2. **To check the pump system whether it is equipped with ABS in order to determine position of the unit to be fixed.**
 - A. **Master pump installation, see reference figure 2**
 - B. **ABS installation, see reference figure 3**
3. **Fix firmly the Hydraulic Unit at a proper place and use bracket if necessary.**
4. **Fix the brake pedal with a bracket to prevent the flow away of braking oil during the disassembling of tubes of master pump.**
5. **Please refer figures 2 & 3 to acknowledge how to disassemble the brake oil tubes and install of new brake oil tubes.**

- A. Using the tube-bender to bend the tube and the bending angle couldn't be too small.
 - B. Clearance should be reserved between tubes to prevent vibratory friction during car driving.
 - C. The tightening torque value of thread for tubes should be 12Nm-18Nm.
 - D. Select carefully and properly for the concave or convex type tubes.
 - E. The standard thread(nut) of tube is M10 X 1.0. Transformation couple should be used if is not a standard thread(nut). There are:
 - i. SG-02, IV-02 for M12 X 1.0 (Mercedes Benz and BMW...)
 - ii. SG-04, IV-04 for M14 X 1.0 (Honda Accord)
6. Inspect whether all the connections is tightened under standard torque value.
 7. The additional braking oil should be same grade to that car (normally using DOT4 or above) and cannot exceed the standard scale of the oil reservoir.
 8. Vacuum the air in the braking tubes.
 9. Test the braking tube and connection to see whether there is any leakage.
 10. Cleaning with clean water the engine room or any oil-stained surface of car (note avoid to use any clothe in wiping out the oil stained car body).
 11. Pass the 4-pin cable from Hydraulic Unit and 2-pin Power Cable through the reserved opening of engine room to the driver's seat.(note: not to damage the 4-pin cable and the Power Cable) Then neatly fix them at a proper place with protection sleeve.
 12. Connect the 4-pin cable and 2-pin Power Cable to the Main Unit as showed in Fig.1
 13. Connect the 6-pin Cable to the receiver with another end to Main Unit as showed in Fig.1.
 14. Stick with 3M sticker on the back of the Receiver and with other face on a proper place just beneath the dashboard. (note: use alcohol to clean the surface before sticking)
 15. Connect firmly the 2-pin Power Cable to the battery and fix it with a tight.
 16. Operate " Lock " and " Unlock " three times to well-lubricate the mechanical parts in the system.
 17. Explain the operation and notification to the customer in detail. (ref. G-367RA manual)

G-367RA installation chart

(FOR WIRE CONNECTING)



Note : 1. power switch and wires connecting :

There are four ports [1, 1a, 2, 2a] on the power switch for connected with wires

- 1** : Insert port for one of the 2pin cable (**red wire**), Which connected with main control unit.
- 2** : Insert port for one of the 2pin cable (**black wire**), Which connected with main control unit.
- 1a** : Insert port for the (**red wire**) which connected with battery (+12V).
- 2a** : Insert port for the (**black wire**) which connected with battery (ground).

2. The special wire connecting for automatically locking function :

- Red wire** connect with ACC,
- Yellow wire** connect to door SW +TRIG,
- Green wire** connect to door SW – TRIG,

* **Yellow wire** or **Green wire** be connected to door SW choice only one.

*The ACC wire and Door SW wire must be well and tight connected.

Figure 1

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G-367RA oil tube installation chart

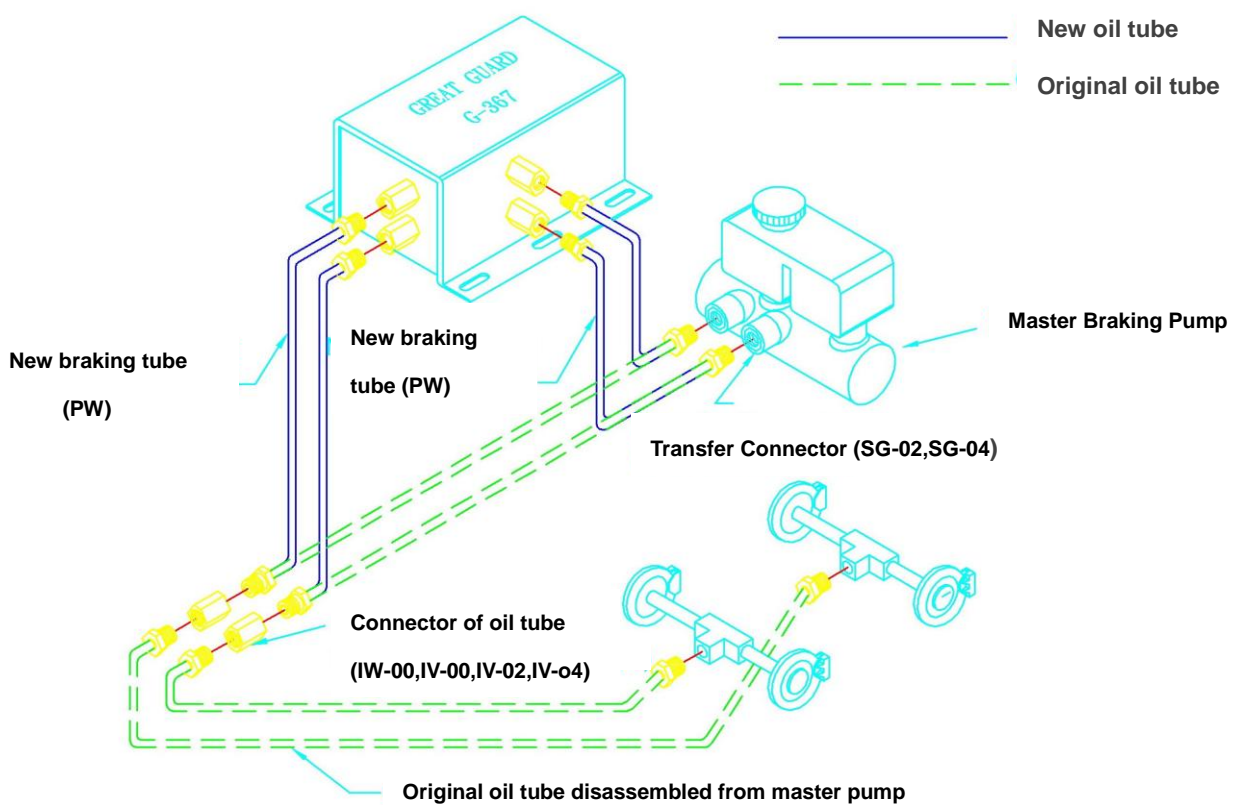
(For Master Braking Pump)

PW (tube) : Double concave braking oil tubes with 10mm thread diameter

PV (tube) : One concave and the other convex braking oil tube with 10mm thread diameter

IW-00 (connector) : Double concave connector with 10mm thread diameter

IV -00 (connector) : One concave and the other convex connector with 10mm thread diameter



Notices :

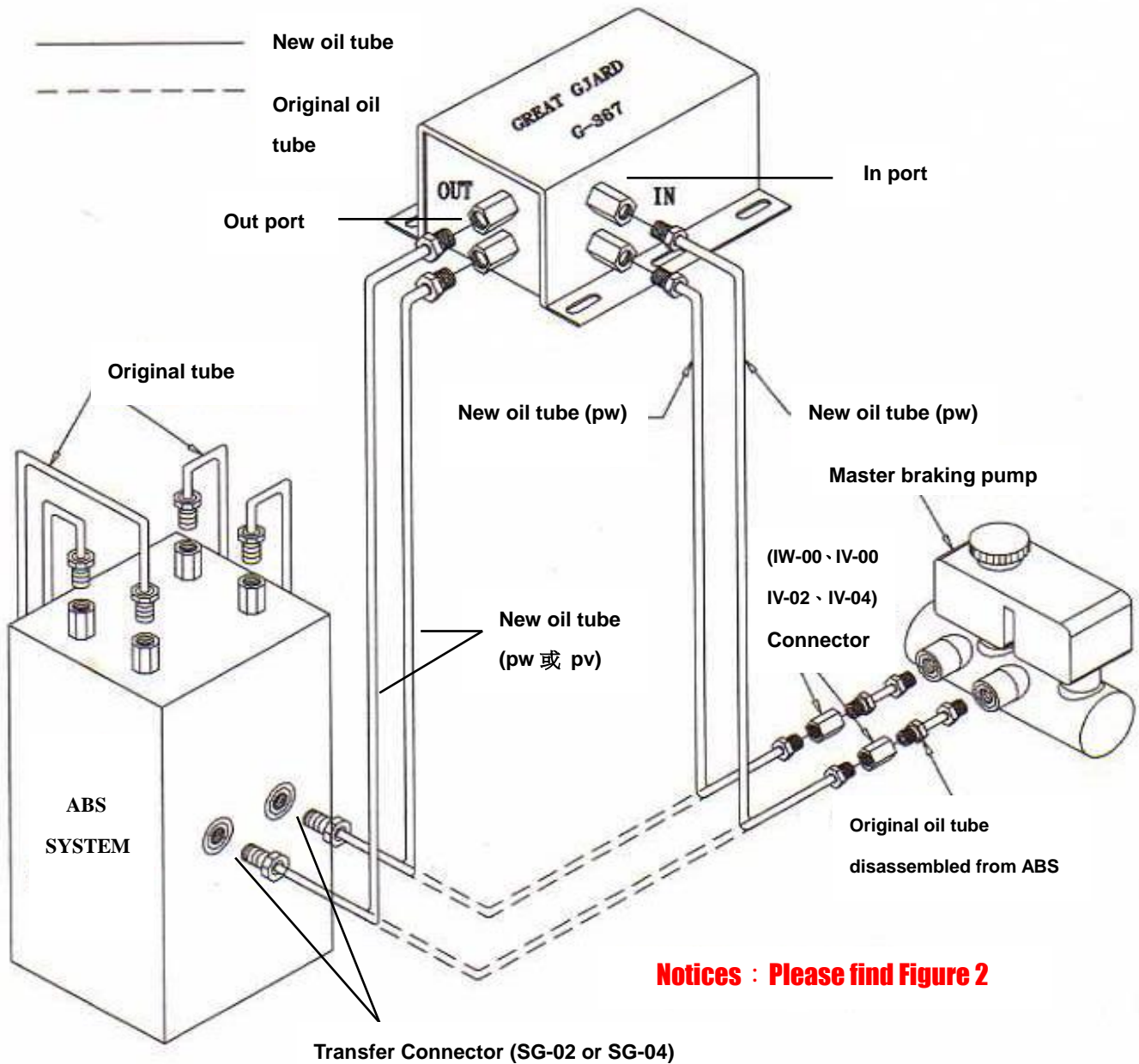
1. Please note the different connector type of concave or convex during the piping
2. If the thread specification of disassembled oil tube is large size than 10mm, Please use the transformation couple of the following : **SG-02 for (M12 x P1.0)** , **SG-04 for (M14 x P1.0)** to screw into the master pump and then use pipe (PW) for further piping
3. **IV-02 is used for connecting thread diameter between 10mm and 12mm**
IV-04 is used for connecting thread diameter between 10mm and 14mm
4. Use torque strength 12Nm – 16Nm to lock the oil screw

Figure 2

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G-367RA oil tube installation chart

(For ABS system)



Notices : Please find Figure 2

Figure 3

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Insatllation Pictures



Benz-ML350



BMW330-2



Toyota 2.0



IR Receiver & IR Controller



Power switch and bracket