WAH JOO SENG

Hose Installation Guide

Installed hose assembly should have followed a proper guideline as without it hose will not function properly and might cause harm to its surrounding.

This guide is meant to help all hose users to fully optimize their hose use with simple and step by step breakdown of the entire process.

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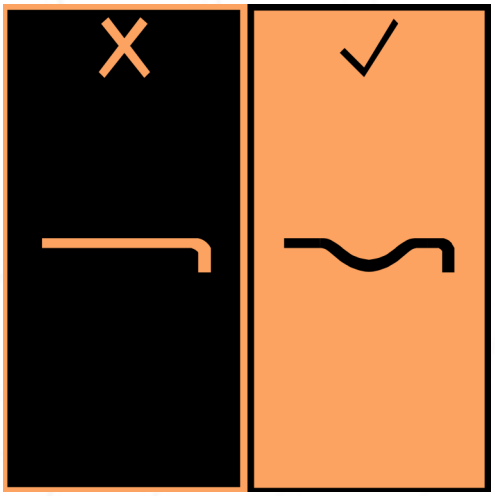
Prior to Installation Check

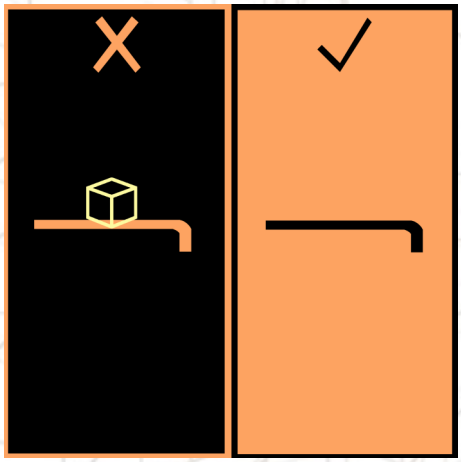
1 Proper Hose Length



Installed hose assembly should have more length than its port to port distance as hose can elongate and contract when pressurized. It is stated by manufacturers that hose can grow up to 2% of its original length or shrink by 4% depending on its types. This will add more stress to the assembly and might lead to catastrophic failure such as leak, loose fitting and hose failure.

In addition, having too much hose length will also give adverse effect as it might introduce new problems such as hose abrasion and uncontrollable hose movements.

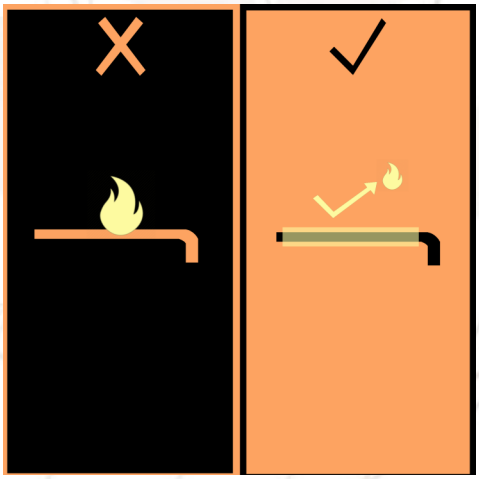
2 Proper Storage



Proper hose keeping can prolong hose life significantly. Below are the correct hose storing methods:

1. **Watch The Minimum Bending Radius .**
   Check your hose Minimum Bending Radius (MBR) and do not store your hose below the MBR value.
2. **Avoid Stacking**
   Avoid adding extra load onto your hose as it might crush your hose beneath.
3. **Install Protective Caps**
   Avoid the accumulation of impurities by blocking their entry points at both ends using protective caps.
4. **Store It Away From Risk**
   Make sure you store your hose away from potential risk and hazards that can damage the hose (e.g heat, chemical)

3 Protect From Extreme Hot and Cold



Extreme temperature can cause tears and cracks to your hose. Avoid direct contact of the hose and heat source or use additional protection such as protective sleeves to protect your hose from direct impact of the heat.

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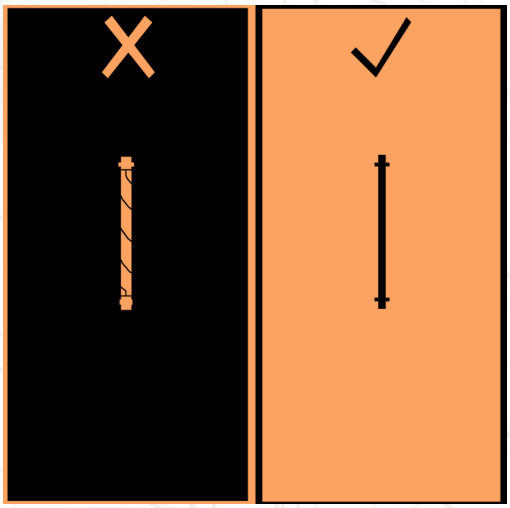


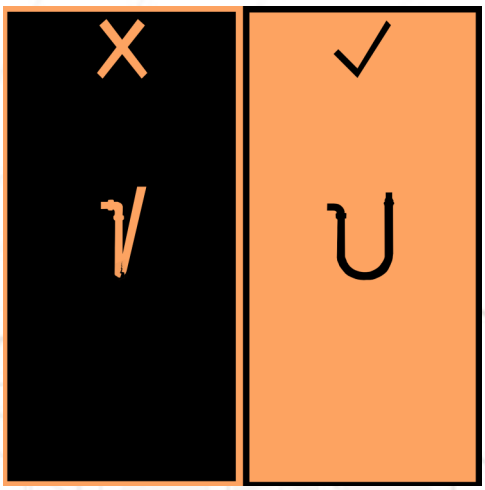
4 Avoid Torque

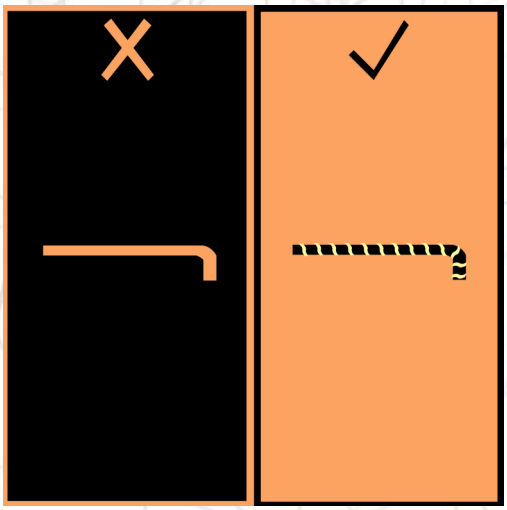
When your hose is twisted, you are also increasing the chance of its failure as hose is not designed to withstand torsional force.

Use swivel fitting on one end and fixed end on the other end to avoid torsional stress during installation. In addition, proper tightening of the hose connection will prevent torque movement during the operation.

5 Avoid Overbending

Bending your hose into a radius smaller than its Minimum Bending Radius (MBR) will result in hose failure. Prevent overbending to prolong your hose life.





6 Avoid Abrasion

Hose abrasion occurs because of constant contact of hose with another surface. It can lead to hose failure as it gradually weakens the hose pressure retention.

One solution is to add external protective cover so that the hose is not directly in contact with the abrasive surface.

Other solution is by using the help of clamp to help secure the hose and avoid contact entirely.

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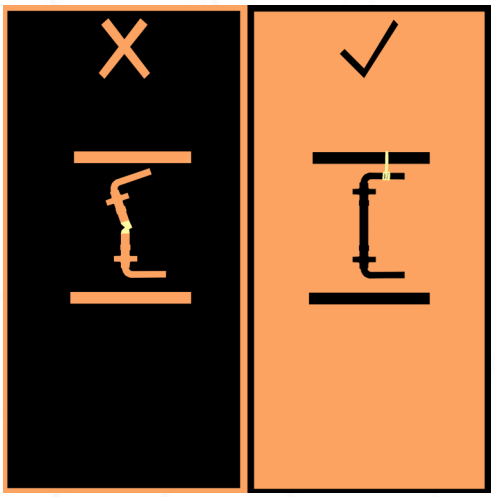
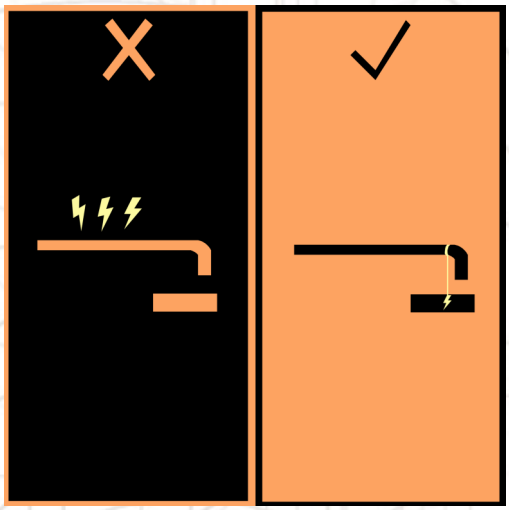
7 Avoid Axial Overextension and Compression

Axial Overextension and over compression of the hose will create more stress to the hose. Add support to properly guide the hose routing and prevent the axial stress.



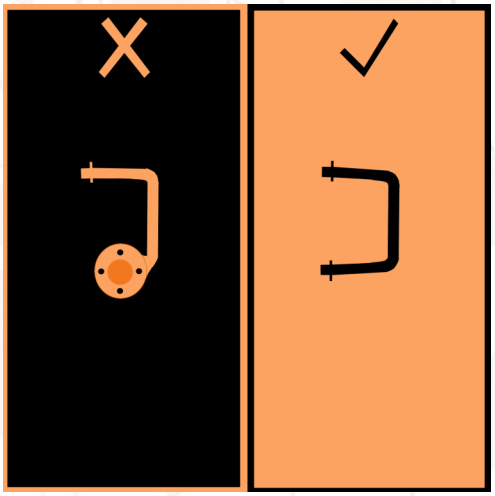


8 Avoid Electricity Build Up

Some fluid may contain solid impurities that if it is constantly rubbing the hose surface will create a static build up. Use a conductive hose material to discharge the electricity and ground it with a proper grounding system.

9 Avoid Multiple Plane Flexing

The number of plane of flexing will contribute greatly to hose life. Using more than one plane of flexing will make the hose easily twisted and create axial movement. Set up your routing to only one plane of flexing.



Prior to Installation Check

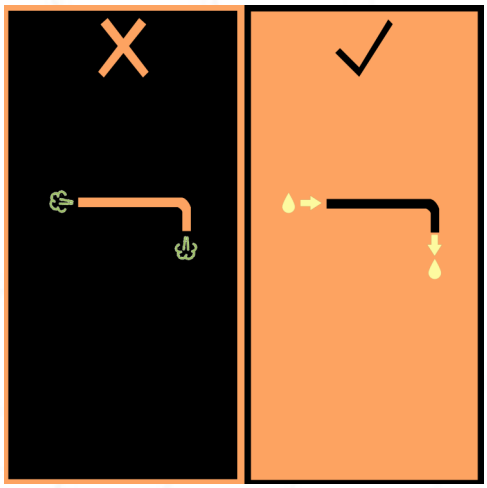
10

Maintain Hose Cleanliness

Impurities such as debris, dust, rust and abrasive particles will built-up with time or during hose assembly and can lead to serious wear and tear damage to hose assembly.

Clean all the impurities by passing through the hose with either one of these cleaning media or tool:

- Strong Blast of Compressed Air
- Sponge-like Projectiles
- Cleaning Fluid



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We hope to see you again.