

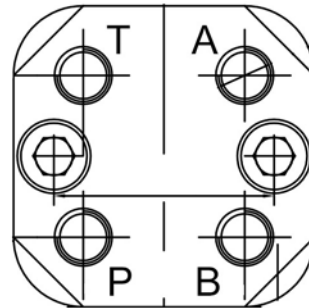
This guide is only a point of reference- there is no implied warranty or guarantee of cause of failure or proper usage.

Please refer to your equipment's original operating manual for optimal guidance.

INSTALLATION AND FITMENT GUIDE

- Before installing your unit, please verify the port threading/sizes, displacement, and relief settings are suitable to replace your original unit.
 - Some similar thread sizes will allow for fittings to install and connect, but will not form a proper seal. This will ultimately result in leaking, and improper function of your unit.
 - Some units contain integrated check / flow control valves locate in the "P" port, which may need to be removed, if it constricts flow. This will ultimately result in pressure build up on your unit and damage to your system if not removed.
 - Many tractor models will have more than 1 steering unit model that was used, with differences possibly being in displacement, pressure settings and/or port sizes, amongst other possibilities.
- Oil used in your system must be absolutely clean prior to installing your unit. Purge the complete hydraulic system, clean out the reservoir, change filters and add clean premium grade oil. Refer to your equipment's owner's manual for recommended grade of oil.
- Fill the case of the new unit with oil.
- For most Sonic steering units, port connections are indicated as follows:

- T- Return Line
 - Hydraulic oil outlet to oil tank
- P- Pressure Line
 - Hydraulic oil inlet from hydraulic pump
- A- Right Hand
 - Connect to the cylinder (right)
- B- Left Hand
 - Connect to the cylinder (left)



- Some tractor models and applications will have steel, inflexible lines. If installing a replacement unit with slight differences in port locations from your original unit on a tractor with steel lines, it is recommended to install the unit as follows:
 - Remove line brackets
 - Adjust (carefully bend) the lines
 - Connect the lines to the motor,
 - Reinstall the brackets.

This is the optimal way to install the steering unit.

- Connect unit using correct fittings and parts. Ensure pipes, hoses and fittings are compatible with oil flow. All lines should be free from sharp bends, preventing suction depression and pump cavitation. To minimize vibrations, flexible hoses are also suggested.
- After installing, run at lowest rpm and zero pressure for several minutes. The unit should run freely and not build up any leaks or heat. If the unit operates properly, the speed and pressure can be increased to normal settings.
- In rare cases, for any interference or installation obstruction issues, please contact us to verify the application, or possible modifications you may need or may perform.

To ensure proper motor performance and maximum efficiency, it is important to follow the steps above. Short cutting these steps may cause premature motor failure and/or damage to the motor.

FAILURE TO COMPLY WITH THE ABOVE WILL INVALIDATE YOUR WARRANTY