The **A8/SPORT to CDS Conversion Kit** is a unique aftermarket solution to convert an existing A8 or SPORT pressure regulator into a modulating, stepper motor driven CDS valve. By utilizing the existing A8 or SPORT body, there is no brazing required to complete the conversion, saving considerable time and expense. The conversion kit reduces the seal surface area of the installed valve, making this an ideal upgrade opportunity versus a seal rebuild, or even as a full store scheduled retrofit. Once the retrofit is complete, you will find that the solution pays for itself through improvements in system performance, and through future serviceability and diagnostic capabilities.

For optimal performance, make sure to pair your CDS conversion kit with a Sporlan Pressure or Temperature Control.

**A8/SPORT DISASSEMBLY**

1. Back the adjustment stem on top of the bonnet on the existing valve out until it can be loosened by hand.
2. On the side of the existing adaptor remove the cap and turn the manual open feature to the “OPEN” position.
3. The circuit or condenser to be modified should be pumped down, isolated and residual refrigerant reclaimed.
4. All power should be removed from any solenoid operator on the valves.
5. The coils and all wiring should be removed at the relays or other connections in the control panel. Any vacant knockout holes should be plugged per electrical code.
6. Loosen the four A8/SPORT bolts. **CAUTION:** Make sure you have reduced the internal pressure to a safe level (0 psi) before proceeding. Loosen bolts slowly to release any residual pressure before removing the bolts.
7. Completely remove the four A8/SPORT bolts.
8. Remove the existing Bonnet, Adaptor Plate, Cartridges and all associated seals from the existing A8/SPORT body.
9. Inspect the gasket seating surface on the original A8/SPORT body. If necessary, clean with a light oiled rag to ensure that it is clean, flat and free of debris.
10. Lightly lubricate the O-ring and gasket on the new CDS adaptor with refrigerant oil.

11. Place the new gasket on the sealing surface of the valve body, making sure to line up the hole in the gasket with the alignment pin protruding from the sealing surface.

12. Install the CDS adaptor into the existing body, making sure to align the key hole in the adaptor with the alignment pin protruding from the sealing surface.
13. Install and tighten the new bolts (supplied with the adapter) using a star-cross pattern.
   a. For A82 conversions
      (Large Adapter): Tighten bolts to 22 ft.-lbs. of torque.
   b. For A8A, A81 and SPORT conversions
      (Small Adapter): Tighten bolts to 10 ft.-lbs. of torque.

**WIRING THE CDS VALVE**

14. Route the conversion kit cable to the appropriate control panel.

   **NOTE:** To prevent cable damage, grommets or strain reliefs should be used whenever the cable passes through the panel or any metallic bulkhead. Care should be taken to properly support the cable, and that routing avoids hot piping or sharp edges.

15. Connect the four cable leads to the Sporlan Pressure or Temperature Control, or to a suitable third-party control or interface board. Refer to the control manufacturer’s recommendations for the correct wiring sequence.

   **NOTE:** Some interface boards may require a connector to be applied to the lead ends.

16. The CDS Conversion Kit installation is now complete. Follow the procedures for setting up your valve controller to complete the system upgrade.
⚠️ WARNING – USER RESPONSIBILITY

Failure or improper selection or improper use of the products described herein or related items can cause death, personal injury and property damage.

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To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

FOR USE ON REFRIGERATION and/or AIR CONDITIONING SYSTEMS ONLY