

RealTorque™ User Guide

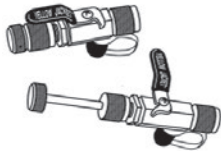
1/4" Models	5/16" Models
18991 with Side Port	18992 with Side Port
18998 Rod/Nut Only	18994 with 1/4" Side Port
	18999 Rod/Nut Only

RealTorque™ Advantage

The RealTorque™ Core Removal Tool is essential for effectively removing and replacing HVAC/R system Schrader valves. Removal of the system Schrader valves significantly improves the speed of evacuation and charging.

According to the Institute of Refrigeration's REAL Zero Guide to Good Leak Testing, Schrader valves are the second most common places where leaks are found in HVAC & refrigeration systems and improper tightening of the system Schrader valves is one of the likely causes of these leaks.

The RealTorque™ Core Removal Tool has an integrated torque mechanism that clicks as soon as the Schrader valve has been tightened to the manufacturer recommended torque value of 3-5 in-lb. This provides assurance that the Schrader valve is properly tightened on every job and minimizes the chances of leaks from this area of the system.



Core Removal

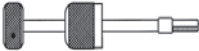
- A. With the retaining rod pulled back from the core removal tool body, attach female quick coupler to 1/4" or 5/16" male service fitting on the system. Make sure ball valve is open.
- B. Push retaining rod forward and engage head and shoulder of Schrader stem. Turn retaining rod knob counterclockwise until Schrader is disengaged from service fitting.
- C. Pull retaining rod back all the way. Pressure in the system will help push the Schrader back.
- D. Turn ball valve handle 90° to close off passageway.
- E. Unscrew retaining rod nut and remove rod/nut assembly and Schrader core.

Core Replacing

- F. Put new core on end of retaining rod and insert both back into valve body. Tighten the retaining rod nut onto the back of the core removal tool body.
- G. Turn ball valve handle 90° to open passageway and push retaining rod forward.
- H. Turn the retaining rod knob clockwise until it clicks. The Schrader is now fully seated at the proper tightening torque.
- I. Disconnect from system.

For Vacuum or Charge

- J. Follow the core removal process outlined above.
- K. Attach charging or vacuum hose to the back of the core removal tool body.
- L. Open ball valve and charge or pull vacuum without restrictions.
- M. All RealTorque™ Core Removal Tools include a 1/4" or 5/16" side port. Attach a micron vacuum gauge here for the systems internal vacuum reading. When charging a system or checking system pressure, a manifold set can be attached to this port.
- N. After servicing, close ball valve. Remove hose and reinstall Schrader valve into system (F-I).
- O. Disconnect from system.



Rethreading Schrader Threads

- P. Insert 18978 or 18988 tool into valve tool and tighten retaining nut.
- Q. Open shut-off valve.
- R. Push 18978 or 18988 rod forward and use clockwise motion to chase internal threads.
- S. Unscrew rod and pull it back.
- T. Close shut-off valve and remove 18978/18988.



Removing Broken Schrader

- U. Remove rod assembly and insert 18979 or 18989. Make sure shut-off valve is open.
- V. Attach to 1/4" male fitting.
- W. Turn counterclockwise, engage Schrader.
- X. Continue to push on broken/frozen core and turn until the core releases. Pull rod back.
- Y. Turn shut-off handle 90° to close.
- Z. Unscrew retaining nut, remove 18979/18989 tool.

**Warranty Information** - Ritchie Engineering guarantees YELLOW JACKET® products to be free from defective materials and workmanship which could affect the life of the product when used for the purpose for which it was designed. If found defective, we will either repair or replace, at our option, products returned within one year of factory shipment. Warranty does not cover products that have been altered, abused, or returned solely in need of field service maintenance. Returns must be prepaid.