

TECH TIP

ACCUMULATOR STUD BREAKAGE

It has been brought to our attention that some customers are experiencing failures of the stud where the suction line is held to the accumulator on some Ford applications. In response to this situation, we tested the hardness of our studs.

Our results show that there is very little difference (within 3%) in the hardness of the studs.

Ford publishes a torque specification of 71 in/lbs for this nut and stud configuration. As a reference, we found that after hand tightening the nut until contact and using an in /lb torque wrench, 71 in/lbs was attained after 10° rotation of the torque wrench. We tested the torque of our product to a torque of 270 in/lbs and did not break the stud. We tested the nut and stud configuration to a breaking point of 283 in/lbs.

In conclusion, we recommend the use of hand tools only when attaching the suction line to the accumulator with this stud and nut configuration. Use of power tools may weaken or break the stud due to excessive torque and void the warranty.

The following is a chart showing the O.E. specifications of all of the accumulator/driers that we currently offer with a stud and nut configuration.

P/N		Application	Accumulator / Drier Line Torque Spec
83001	408601	Hyundai Accent 97-95	35-52 in/lbs
83002	408602	Hyundai Elantra 97-96	35-52 in/lbs
83016	218100	Ford Freestyle	71 in/lbs
83023	408577	Ford Windstar	71 in/lbs
83041	408513	Ford T-bird; Lincoln LS; 05-00	71 in/lbs
83043	408904	Ford Super Duty P.U 05-99	71 in/lbs
83046	408906	Chev / GMC Lt. Trucks	145 in/lbs (12 ft/lbs)
83096	408951	Ford Explorer / Mercury Mountaineer	71 in/lbs
83106	408401	Jeep Liberty 03-02	80 in/lbs
83109	408699	PT Cruiser 03-01	80 in/lbs
83115	208716	Dodge Dakota 07-05	181 in/lbs (15 ft/lbs)
83127	408017	Dodge Dakota 04-02	230 in/lbs + or - 30 in/lbs
83163	218928	Kia Sedona 05-02	35 - 52 in/lbs
83222	408622	Trailblazer - Bravada - Ascender	145 in/lbs
83239	208450	Chevrolet Avalanche 07-06	145 in/lbs
83270	408954	Jeep Grand Cherokee / Comander 5.7L	181 in/lbs
83290	408907	Chevrolet / GMC Yukon - Tahoe 02-00	145 in/lbs