

Ducted Systems Technical Services Service Tips Letter

Letter: **ST-005-2021** 

Date: February 24, 2021

To: All Ducted Systems Branch Service, Sales, and Training Managers All Ducted Systems Distribution Service, Sales, and Training Managers

## Subject: **Product Enhancement – Flare Pressure Transducer**

Product: YZV, YXV, AC21, HC20, AL21, HL20

Starting in mid-October 2020 production of the above mentioned model units, the pressure transducers have been

changed from a sweat style (right) to a flare style (left). This improvement allows a service technician the ability to replace a possibly failed pressure transducer without having to remove the unit refrigerant charge. During production, a <sup>1</sup>/<sub>4</sub>" male flare fitting is brazed onto the appropriate piping and a Schrader core is installed. The pressure transducer is then installed on the flare fitting and properly torqued. This is similar to the pressure transducer utilized in the factory installed EEV CM model



indoor coils. When factory installed EEV coils were first introduced, the flare connection did <u>NOT</u> contain a Schrader core valve. Starting in January 2019 production, the flare connector on the factory installed EEV indoor coils should contain a Schrader core. This applies to both CM model coils and single piece air handling units. As a precaution, do not ever assume a Schrader core is present and functioning correctly. The flare style pressure transducers contain a depressor to open the Schrader core valve. If working on a system that contains refrigerant, loosen the transducer no more than one full turn. If refrigerant can still be heard leaking, tighten the transducer and remove the refrigerant charge for service.

For units built with sweat style transducers that experience a failure, Source One kits were set up that contain a flare style transducer, a Schrader valve body, Schrader core, and installation instructions. See an example of a Source One transducer kit below.

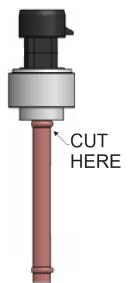


To install a flare type transducer in place of a sweat type transducer, the sweat type transducer must be removed and replaced with a brass <sup>1</sup>/<sub>4</sub> male flare connector like the one shown above. Since this is a brass to copper braze connection, a technician very proficient in brazing must make the repair.

An alternate method of repair may be preferred so a field technician would only have to make a copper to copper connection. This could be achieved by cutting off the installed sweat style pressure transducer directly below the transducer body. Since this port is used for sensing purposes, there is no need to de-burr the remaining <sup>1</sup>/<sub>4</sub>" stub left in place. Use a <sup>1</sup>/<sub>4</sub> copper sweat coupling and a pre-built field process tube (such as JB Industries part number A31004 and shown below) to provide a <sup>1</sup>/<sub>4</sub> flare connection for the replacement flare style pressure transducer.



The above mentioned 1/4 copper sweat coupling and field process tube must be customer supplied for this method of repair.



Part numbers listed below are for flare style pressure transducer kits.

S1-32552072000KIT, TRANSDUCER, DISCHARGES1-32547941000KIT, TRANSDUCER, SUCTION

If you have any questions on this feel free to call Ducted Systems Technical Services at 1-877-UPG-SERV and speak with a technical support representative or you may email us at <u>be-ams-be-ductedsystemsresidentialdistributorsupport@jci.com</u>

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