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<b>Other Languages:</b>	NONE	<b>Author:</b>	James Santos
<b>Viewed:</b>	589		

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Coding Information

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**Title: Aftertreatment Purge Air Valve Air Supply Line Routing for both Cummins ISX SCR Engines and N13 with SCR Engines**

**Applies To: ProStar, TransStar , PayStar, 9900i. ISX Cummins SCR, N13 SCR**

## DESCRIPTION

Proper AFT Purge Valve air line routing.

## POSSIBLE FAULT CODES

SPN 3490 FMI 7  
Cummins Fault 3225

## SERVICE PROCEDURE

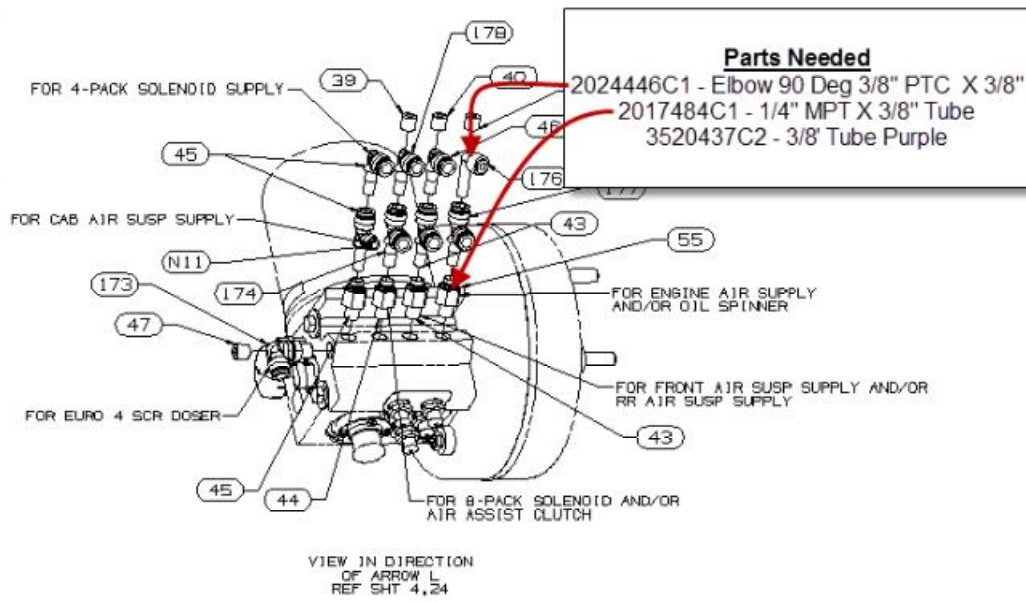
### N13 with SCR

The engine air supply is run directly from the manifold on a Bendix AD-IS dryer, used in all ProStars, and off the secondary air tank on all other units not equipped with the AD-IS dryer. Both configurations are shown below. The line runs up the driver side frame rail where it T's off to the Aftertreatment Purge Air Valve, continuing on to a reducer fitting just below the valve cover on the driver side, from here it runs around the front of the engine to supply air to the Air Control Valve (ACV).

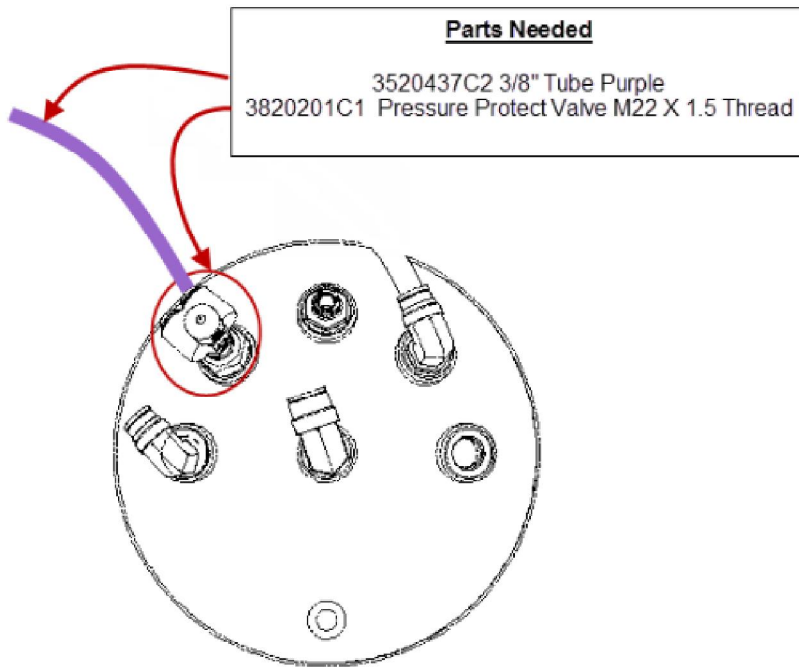
We have identified two types of concerns on N13 engines

- Missing T fitting and short 1/4" air line to Aftertreatment Purge Air valve
- Missing complete engine air supply line - In this case you will need plumb air from either the auxiliary manifold found on the AD-IS dryer, or from the secondary air tank pressure protection valve used with all other dryer types

### Engine Air supply - Bendix AD-IS Dryer - N13 with SCR

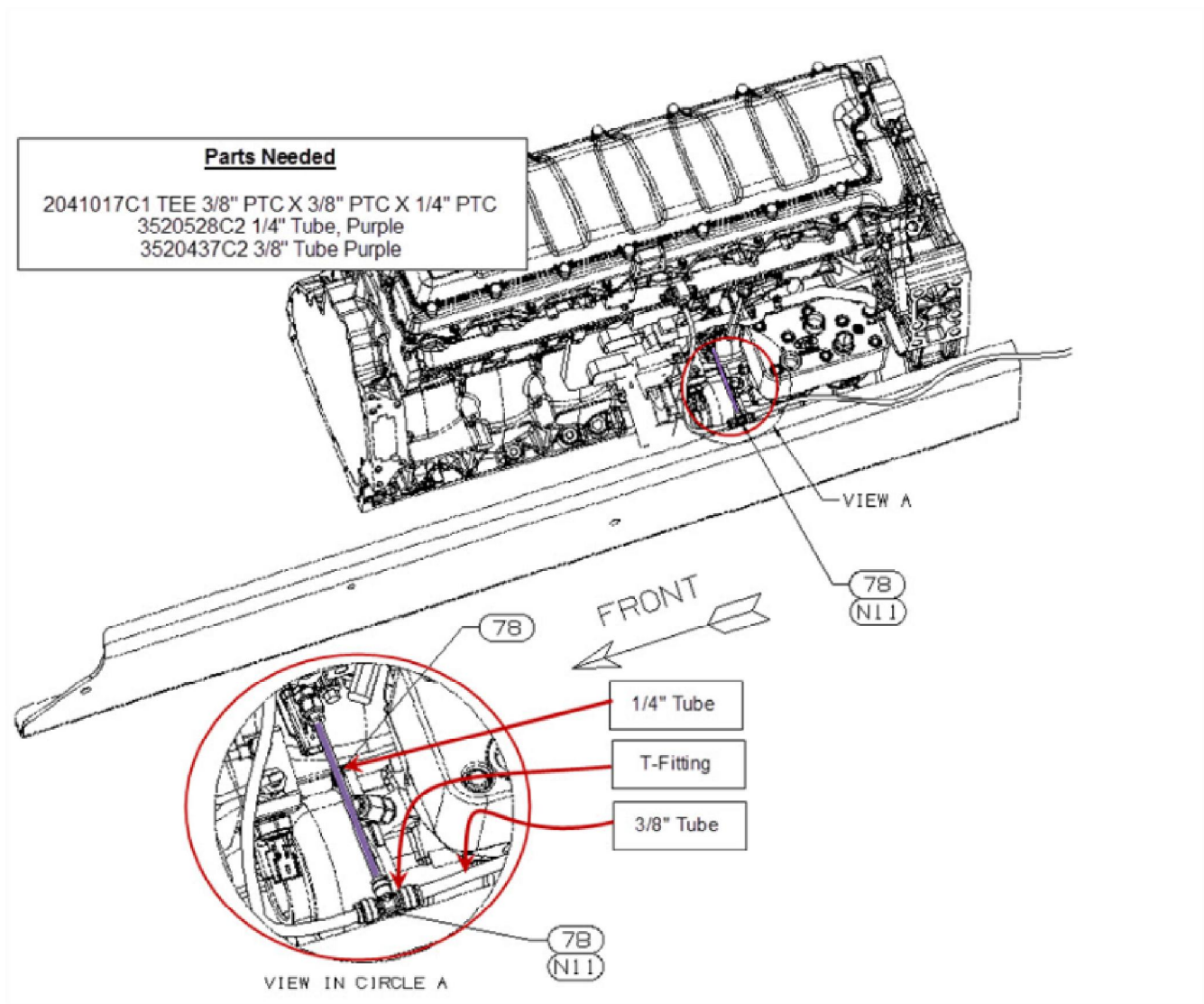


All other dryers air supplied to engine from secondary air tank pressure protected valve - N13 with SCR



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Parts and Routing info for Missing T fitting and short 1/4" tube - N13 with SCR



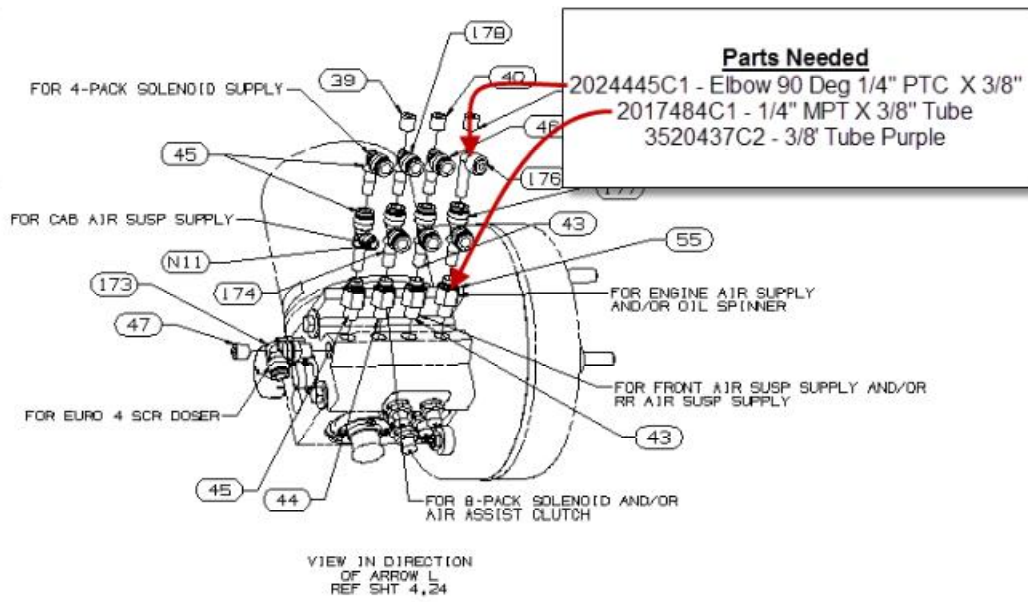
**Parts Information N13 with SCR**

Part Number	Description
202446C1	Elbow 90 Deg 3/8" PTC X 3/8"
2017484C1	1/4" MPT X 3/8"
3820201C1	Pressure Protect Valve M22 X 1.5 Thread
2041017C1	TEE 3/8" PTC X 3/8" PTC X 1/4" PTC
3520437C2	3/8" Tube, Purple
3520528C2	1/4" Tube, Purple

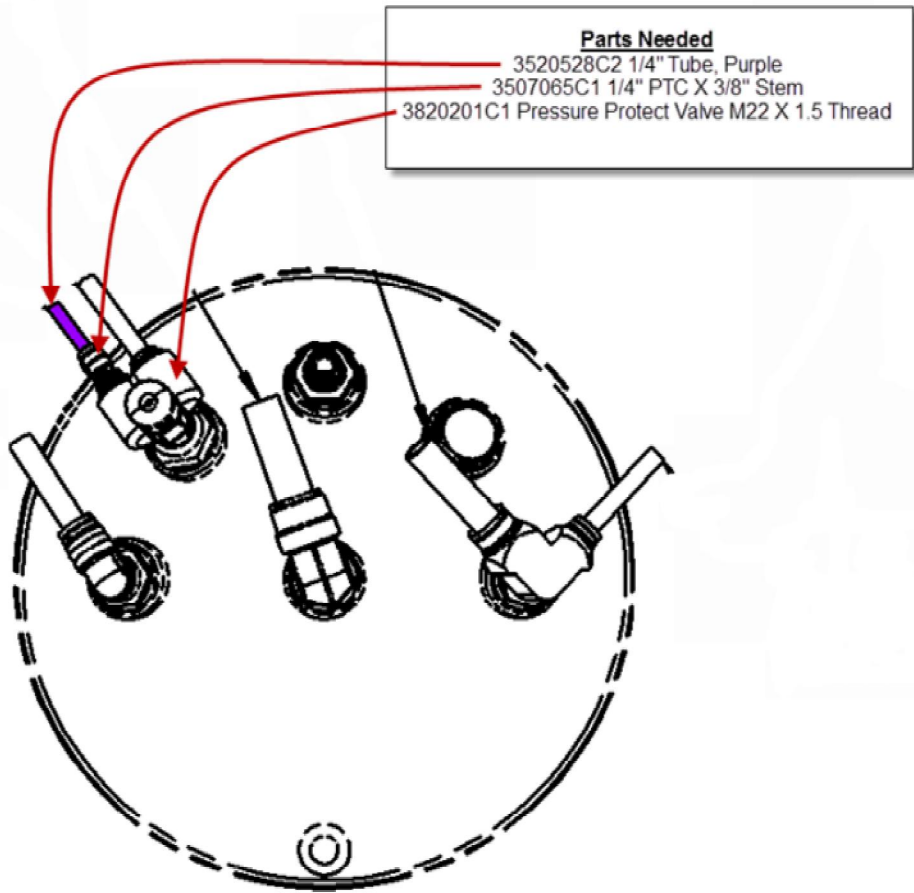
**Cummins ISX 15L with SCR**

Since the ISX does not have an ACV the only concern we have seen on this application is that complete line is missing from the either the auxiliary manifold (AD-IS Dryer) or the secondary air tank pressure protection valve (all other dryers). Both configurations are shown below.

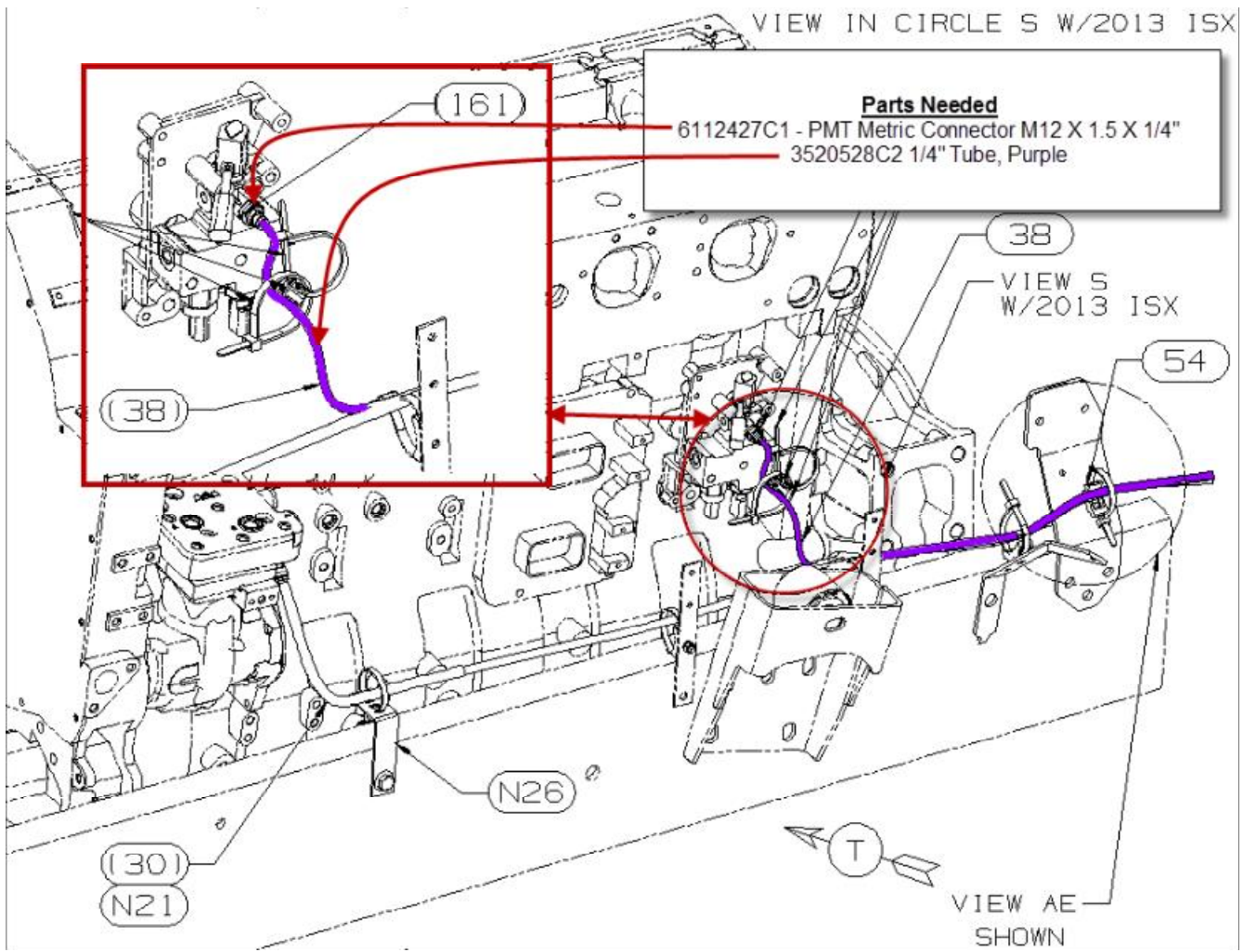
**Engine Air supply - Bendix AD-IS Dryer Cummins ISX**



**All other dryers air supplied to engine from secondary air tank pressure protected valve - Cummins ISX with SCR**



Parts and Routing information for missing engine supply line and fitting - Cummins ISX with SCR



**Parts Information Cummins ISX with SCR**

Part Number	Description
2024445C1	Elbow 90 Deg 1/4" PTC X 3/8"
2017484C1	1/4" MPT X 3/8"
3820201C1	Pressure Protect Valve M22 X 1.5 Thread
3507065C1	1/4" PTC X 3/8" Stem
3520528C2	1/4" Tube, Purple

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