


TN-19-18-001 December 2, 2019		Tesla, Inc. Tech Notes
Model:	Vehicle System:	Region:
Model S, Model X	18 - Thermal Management	North America

Tech Note: Flush A/C System and Replace A/C Compressor and Expansion Valves Due to Compressor Failure

Tech Notes are announcements that help to communicate and track new information about Tesla Service concerns. Such concerns may or may not be VIN specific. These instructions assume knowledge of motor vehicle and high voltage electrical component repairs, and should only be executed by trained professionals. Tesla assumes no liability for injury or property damage due to a failure to properly follow these instructions or for repairs attempted by unqualified individuals.

As noted in Toolbox article 2392, some Model S and Model X vehicles can experience A/C compressor failures that circulate compressor debris throughout the entire A/C system. Refer to the information provided in this document if diagnosis determines that a compressor failure has resulted in compressor debris being circulated in the thermal system.

Parts and Special Tools Required

	Part Number	Description	Quantity	
Parts Required	6001487	LABEL, TAMPER EVIDENT	1	
	1039097-00-A	BOLT PF 4x9 PC88 ECOFIX SEAL	11	
	1526197-00-A	REPLACEABLE FILTER, AC FLUSH	1	
	1527940-00-A	Johnsens A/C Flush 1 Gallon	2	
	1024770-00-A	O-RING, HNBR 15.22 x 2.48	1	
	1024762-00-A	O-RING, HNBR 10.92 x 2.47	1	
	6008481-00-B	VALVE ASY, TXV W/ SOL – Evaporator	1	
	1039040-00-G	EXV	1	
		Model S:		
		1004378-00-B	NUT,FLG,HEX,M6x1.00[8]-14	1
	1008722-00-A	BOLT HF M8x30 PC109 ADH MAT	4	
	1009169-00-A	BOLT HF M14x2.00x50 DP [10.9] ZnAl-W	2	
	1007717-00-A	DESICCANT BAG - SUBCOOL CONDENSER	1	
	1007718-00-A	CAP - RECEIVER AND DRIER	1	
		Model S and Model X Standard HVAC:		
	1010832-00-A	O-RING, HNBR, 12.22 x 2.48	6	
	1024772-00-A	O-RING, HNBR 6.07 x 2.18	2	
	1063369-00-G	A/C COMPRESSOR, ELECTRIC, NO RHVAC	1	
		Model X Standard HVAC:		
	1054298-00-C	BOLT,PF,M5x12,STL[4.8],ECOFIX,SEAL	2	
	1018693-00-B	BOLT&WASHER PN M5x16 PC98	1	
	2007206	BLT,HEX,FLG,M6-1.00x25[8.8]-09	4	
	1048528-00-A	MX, CFM, COND, IRD SERVICE KIT	1	

Model X Dual HVAC:		
1010832-00-A	O-RING, HNBR, 12.22 x 2.48	9
1024772-00-A	O-RING, HNBR 6.07 x 2.18	3
1042442-00-D	MX, COMPRESSOR, A/C ELECTRIC	1
1050969-00-C	VALVE ASY, TXV- RearHVAC	1
2007059-00-B	NUT HFPT M10x1.50 [10]-ZnNi	2
1054298-00-C	BOLT,PF,M5x12,STL[4.8],ECOFIX,SEAL	4
2007206	BLT,HEX,FLG,M6-1.00x25[8.8]-09	4
1048528-00-A	MX, CFM, COND, IRD SERVICE KIT	1
1540085-00-A	SEAL EVAPORATOR DRAIN TO DASH, MODEL X RR HVAC	1

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the [Parts Catalog](#).

Special Tools	1526195-00-A	Robinair 17580 AC Flush Machine
	1120026-00-A	AC Service Machine, Robinair, 34988NI
	1492019-00-A or 1492019-01-A	Kit, AC Flush Adapters AC Flush Adapters, High Pressure EMEA Version

Model S:	
1058696-00-A	Wiper Arm Removal Tool
1080562-00-A	Hood Prop

Model S Dual Motor and Model X	
1065131-00-A	Kit, battery coolant drain & fill

Shop Supplies Isopropyl Alcohol (IPA) wipes

Procedure

Flush the A/C system and replace the A/C compressor and expansion valves.

- **Model S RWD:** refer to Service Manual procedure 18208002
- **Model S Dual Motor:** refer to Service Manual procedure 18208012
- **Model X with Standard HVAC:** refer to Service Manual procedure 18208022
- **Model X with Dual HVAC:** refer to Service Manual procedure 18208032

For feedback on the accuracy of this document, email ServiceBulletinFeedback@tesla.com.