

Compressor Lubrication



TEMP PRODUCTS



Oil Type & Viscosity Set by Compressor Manufacturer – Choose a Quality Oil



Available Lubricants & Application



Oil Type	Viscosities	Application	Notes	TCD #
Paraffinic	NA	Ford R12 Systems	Not available; Use mineral or PAG.	209500 (Min.) or 409503 (PAG)
Mineral	500	R-12 Systems	Original R12 Systems	209500 (qt)
Polyalkylene Glycol (PAG)	46, 100, 150	R-134a Systems	Best choice on "Clean" retrofit.	409503, 409977 409502 409501, 409976
Polyol Ester (POE)	100	R12 to R134a Retrofit	"Dirty" retrofit. Last Resort	409500 409510 409600
PAG – R-1234yf	46 etc.	R-1234yf Systems	Compatible with R-134a Systems	409123
Polyol Ester (POE) HV, R-1234yf & R-134a	85	HV R-1234yf & R-134a Compressors	Also all Honda 2017 & Up	809610 (Supersedes 409610)

ND Oil Reference Chart



ND #	NAPA Temp #	Oil Type	Notes
ND-8	409503 (8. oz)	PAG 46	409977 (32.00oz.)
ND-9	409502 (8. oz)	PAG 100	
ND-11	409610 (8. oz)	HV POE Oil	R-134a & R-1234yf HV Systems
ND-12	409123 (8. oz)	PAG 46 (R-1234yf)	Backwards compatible with R-134a System
ND-14	809610 (8oz.)	POE HV R-1234yf & R-134a	R-134a & R-1234yf HV Systems. Also, all R-1234yf 2017 & Up Honda

Compressor Oil Status Labels




ADD OIL HERE

This compressor is precharged with 3 ounces of Oil.
Must add recommended amount and type.
Scan QR code for application specific oil type and charge.

Este compresor está precargado con tres onzas de aceite.
Se debe añadir la cantidad y tipo de aceite recomendado. A través de una aplicación puede escanear el código QR para el tipo de aceite y carga necesarios para el compresor.

Ce compresseur contient déjà 3 onces d'huile.
Vous devez ajouter la quantité et le type d'huile recommandés.
Scannez le code QR pour obtenir cette information.

86953141



WARNING!
ADVERTENCIA!
AVERTISSEMENT!

MUST ADD OIL

ADD OIL PER INSTRUCTIONS THRU THE PORT MARKED BY THIS DECAL.

DEBE AGREGAR ACEITE

AGREGUE EL ACEITE DE ACUERDO COMO EN LAS INSTRUCCIONES ATRAVÉS DEL PUERTO MARCADO POR ESTA CALCOMANIA.

AJOUTER DE L'HUILE

L'HUILE DOIT ÊTRE VERSÉE DANS LE PORT INDIQUÉ PAR CETTE ÉTIQUETTE, CONFORMÉMENT AUX INSTRUCTIONS.

6953075

This compressor may contain SHIPPING OIL. **DRAIN SHIPPING OIL** and add manufacturer's recommended oil type and amount thru drain bolt or suction port.

Este compresor puede contener ACEITE EXCLUSIVAMENTE PARA FINES DE EMBARQUE. **DRENAR EL ACEITE PARA EMBARQUE** y llenar la cantidad y el tipo de aceite recomendada por el fabricante a través del perno de drenado o puerto de succión.

Ce compresseur peut contenir de l'HUILE CONÇUE POUR L'EXPÉDITION. **Veillez VIDANGER** cette huile et verser le type et la quantité d'huile recommandée par le fabricant par le boulon de vidange ou l'orifice d'aspiration.

6953068

NOTICE

This compressor is pre-charged with 3 ounces of HFO-1234yf oil. HFO-1234yf oil is compatible for both R-134a and HFO-1234yf systems. If PAG 46 is recommended for the application, oil must be drained from compressor. If you choose to use HFO-1234yf oil for an R-134a application, the whole system must be flushed and the recommended amount of HFO-1234yf oil added.

Pink Label



- Compressor is pre-charged with 3 oz. of appropriate oil

ADD OIL HERE

This compressor is precharged with 3 ounces of Oil.

Must add recommended amount and type.

Scan QR code for application specific oil type and charge.

Este compresor está precargado con tres onzas de aceite.

Se debe añadir la cantidad y tipo de aceite recomendado. A través de una aplicación puede escanear el código QR para el tipo de aceite y carga necesarios para el compresor.



Ce compresseur contient déjà 3 onces d'huile.

Vous devez ajouter la quantité et le type d'huile recommandés.

Scannez le code QR pour obtenir cette information.

86953141

Yellow Label



- Shipping oil – must be drained first

This compressor may contain SHIPPING OIL. **DRAIN SHIPPING OIL** and add manufacturer's recommended oil type and amount thru drain bolt or suction port.

Este compresor puede contener ACEITE EXCLUSIVAMENTE PARA FINES DE EMBARQUE. **DRENAR EL ACEITE PARA EMBARQUE** y llenar la cantidad y el tipo de aceite recomendada por el fabricante a través del perno de drenado o puerto de succión.

Ce compresseur peut contenir de l'HUILE CONÇUE POUR L'EXPÉDITION. **Veillez VIDANGER cette huile** et verser le type et la quantité d'huile recommandée par le fabricant par le boulon de vidange ou l'orifice d'aspiration.

6953068

Orange Label



- Shipped dry – must add oil

WARNING!
ADVERTENCIA!
AVERTISSEMENT!

WARNING! **MUST ADD OIL** **WARNING!**
ADD OIL PER INSTRUCTIONS THRU THE PORT MARKED BY THIS DECAL.

ADVERTENCIA! **DEBE AGREGAR ACEITE** **ADVERTENCIA!**
AGREGUE EL ACEITE DE ACUERDO COMO EN LAS INSTRUCCIONES
ATRAVES DEL PUERTO MARCADO POR ESTA CALCOMANIA.

AVERTISSEMENT! **AJOUTER DE L'HUILE** **AVERTISSEMENT!**
L'HUILE DOIT ÊTRE VERSÉE DANS LE PORT INDIQUÉ PAR CETTE
ÉTIQUETTE, CONFORMÉMENT AUX INSTRUCTIONS.

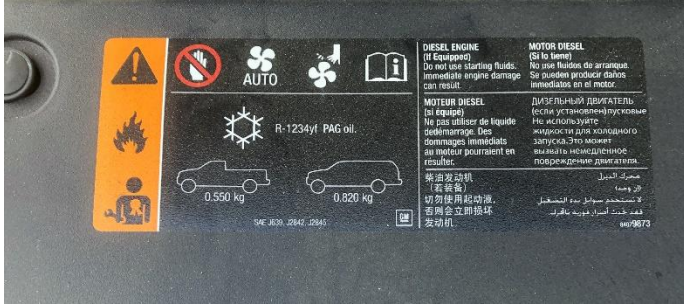
6953075

Green Label



- Compressor is pre-charged with 3 oz. of R-1234yf oil

NOTICE
 This compressor is pre-charged with 3 ounces of HFO-1234yf oil. HFO-1234yf oil is compatible for both R-134a and HFO-1234yf systems. If PAG 46 is recommended for the application, oil must be drained from compressor. If you choose to use HFO-1234yf oil for an R-134a application, the whole system must be flushed and the recommended amount of HFO-1234yf oil added.



R-1234yf Underhood Label

REFRIGERANT: FRIGORIGÈNE : REFRIGERANTE :	R-134A مبرد	F Series (Less GCC)	Blackwood & GCC F-Series
COMPLIES WITH: CONFORME A LA NORME : CUMPLE CON:	SAE J639 متوافق مع	CHARGE LEVEL: CHARGE : CARGA DE LLENADO:	33 oz (0.94 kg)
REFRIGERANT OIL - FORD SPEC: LUBRIFIANT - CONFORME A LA NORME FORD : USE ACEITE PARA REFRIGERANTES CONFORME A NORMA FORD:			WSH-M1C231-B 9 fl oz (266 cc)
CAUTION: SYSTEM TO BE SERVICED BY QUALIFIED PERSONNEL. MISE EN GARDE : NE CONFIER L'ENTRETIEN QU'À UN PERSONNEL QUALIFIÉ. PRECAUCIÓN: EL SISTEMA DEBE SER ATENDIDO SOLO POR PERSONAL CALIFICADO. تحذير: يجب خدمة النظام بواسطة عاملين مؤهلين			Visteon PLYMOUTH, MI

R-134 Underhood Label

Honda/Acura Oil Advisory Label



Refrigerant Oil Type

R134a = PAG 46 Oil

R1234yf = POE_{yf} Oil

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If Oil Charge Amount Unknown...

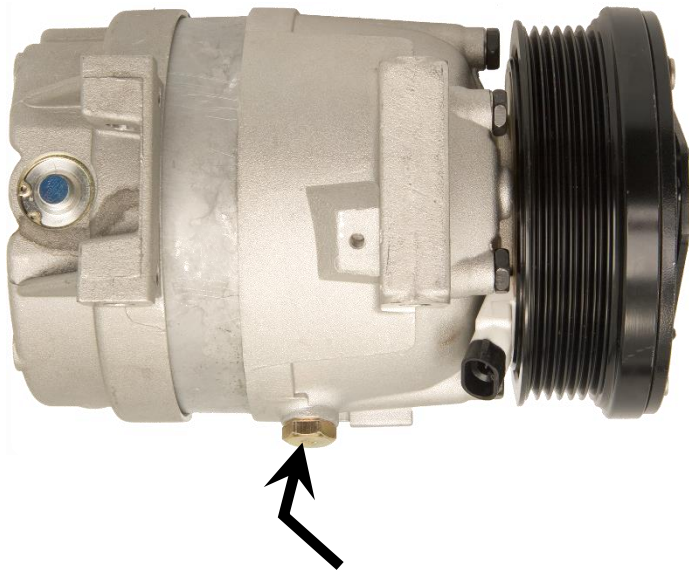


Description	Amount
Refrigerant Charge Amount	25 .00 oz.
Rule of Thumb for Oil Charge = 20%-25% of Refrigerant Charge	5 .00 oz.

Where and How to Add Oil Depends On...



- If the compressor has a crankcase?
- Whether its an Orifice Tube or TXV System



**Crankcase Oil Plug -
Compressor with Crankcase**



**Compressor without
Crankcase – No Oil Plug**



**Orifice
Tube**



**Thermal Expansion
Valve (TXV)**

Draining/Adding Oil - No Crankcase



- Review compressor oil label for specific instructions
- Adding oil to fixed displacement compressor through suction port
- Add 1/2 total oil charge to suction port



Common Compressors With No Crankcase



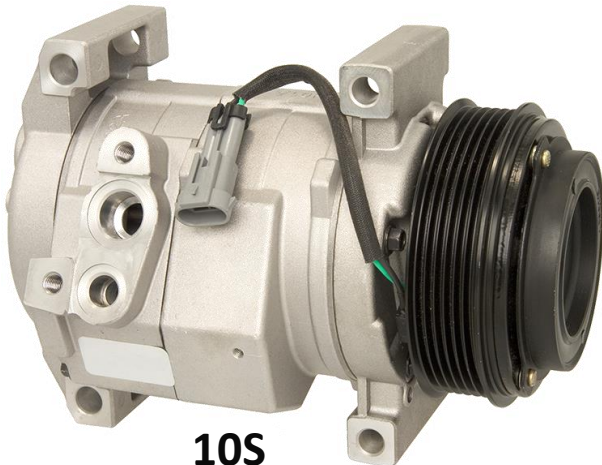
R4 (Radial)



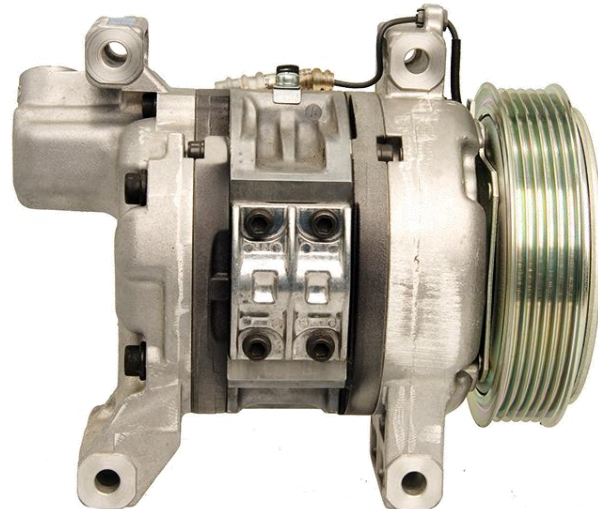
FS10



"H" Series



10S



Rotary Vane



Scroll

Adding Oil – Orifice Tube System



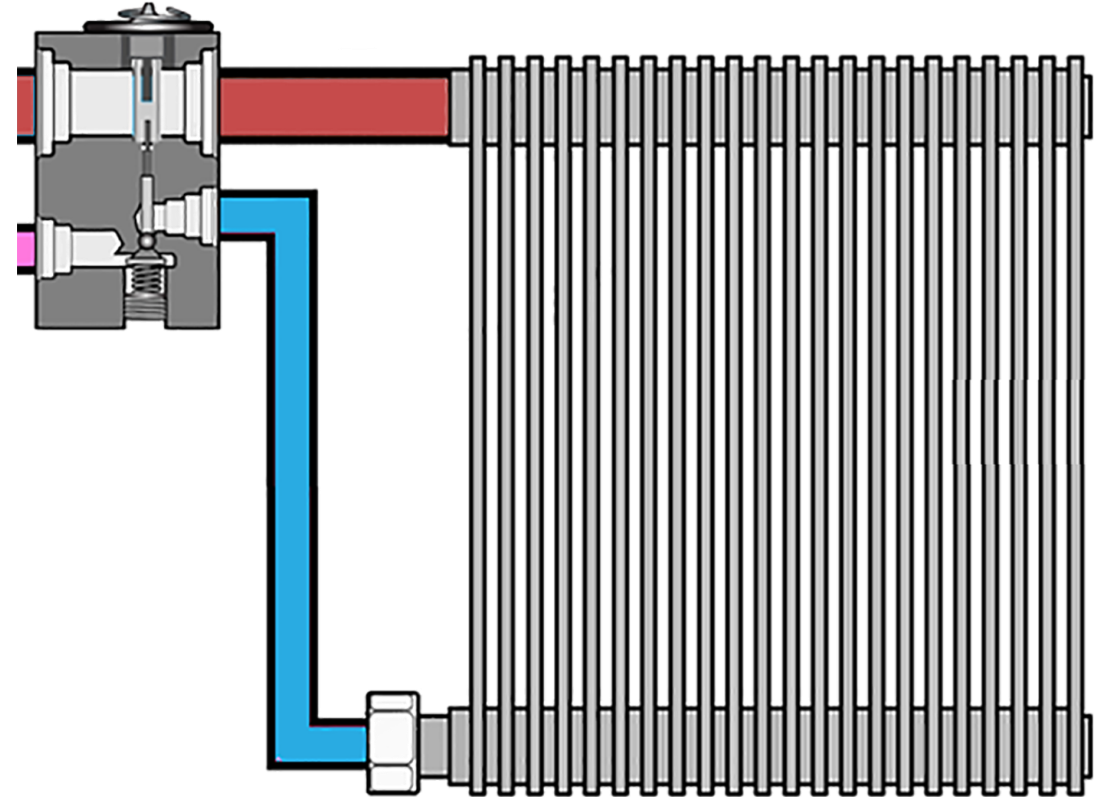
Add oil to this port

**Add ½ the oil to the
compressor
½ to the accumulator**

Adding Oil – TXV System



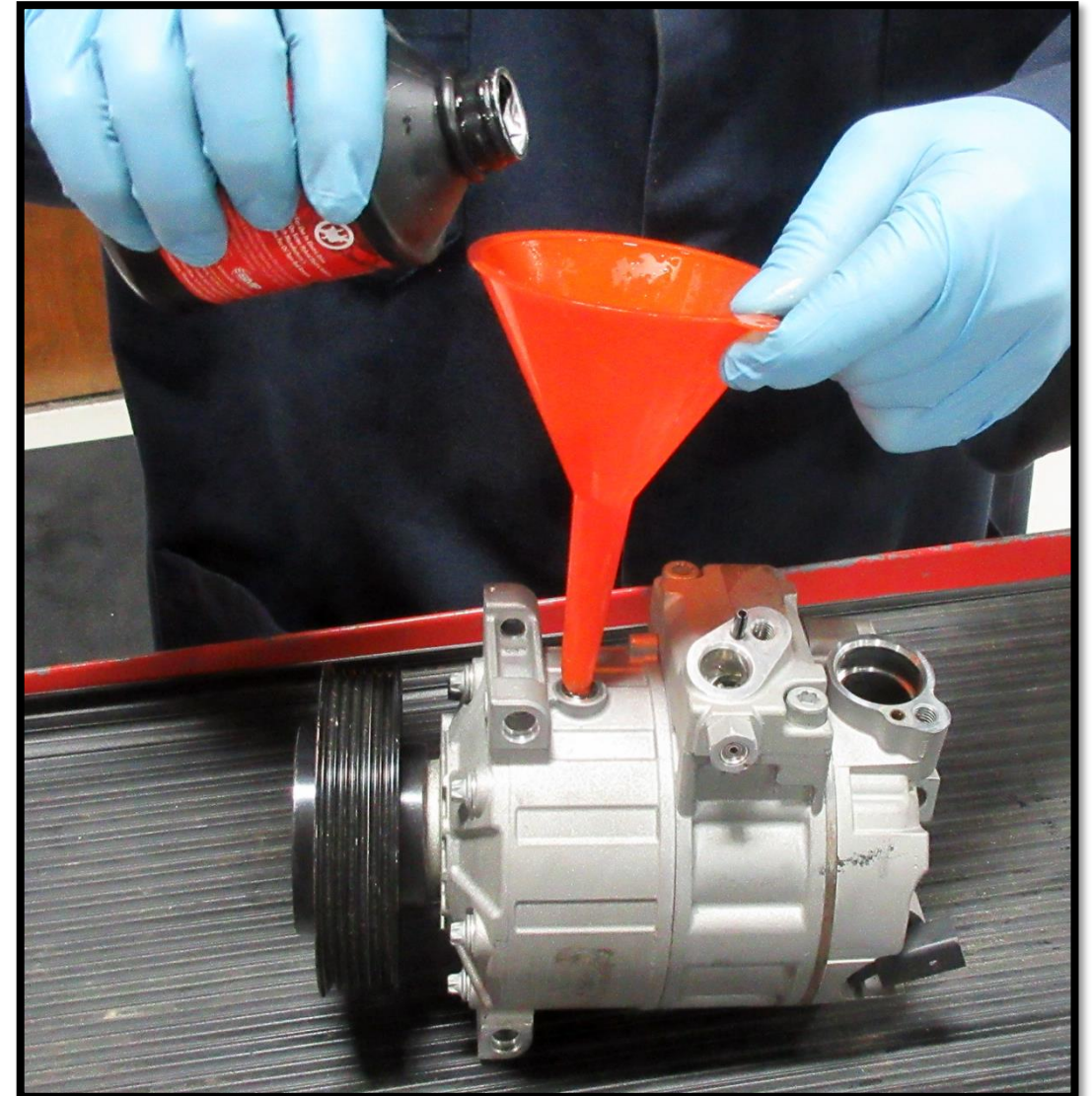
- ½ in the compressor
- ½ in the evaporator
- Do not add to drier
 - Might reduce initial performance



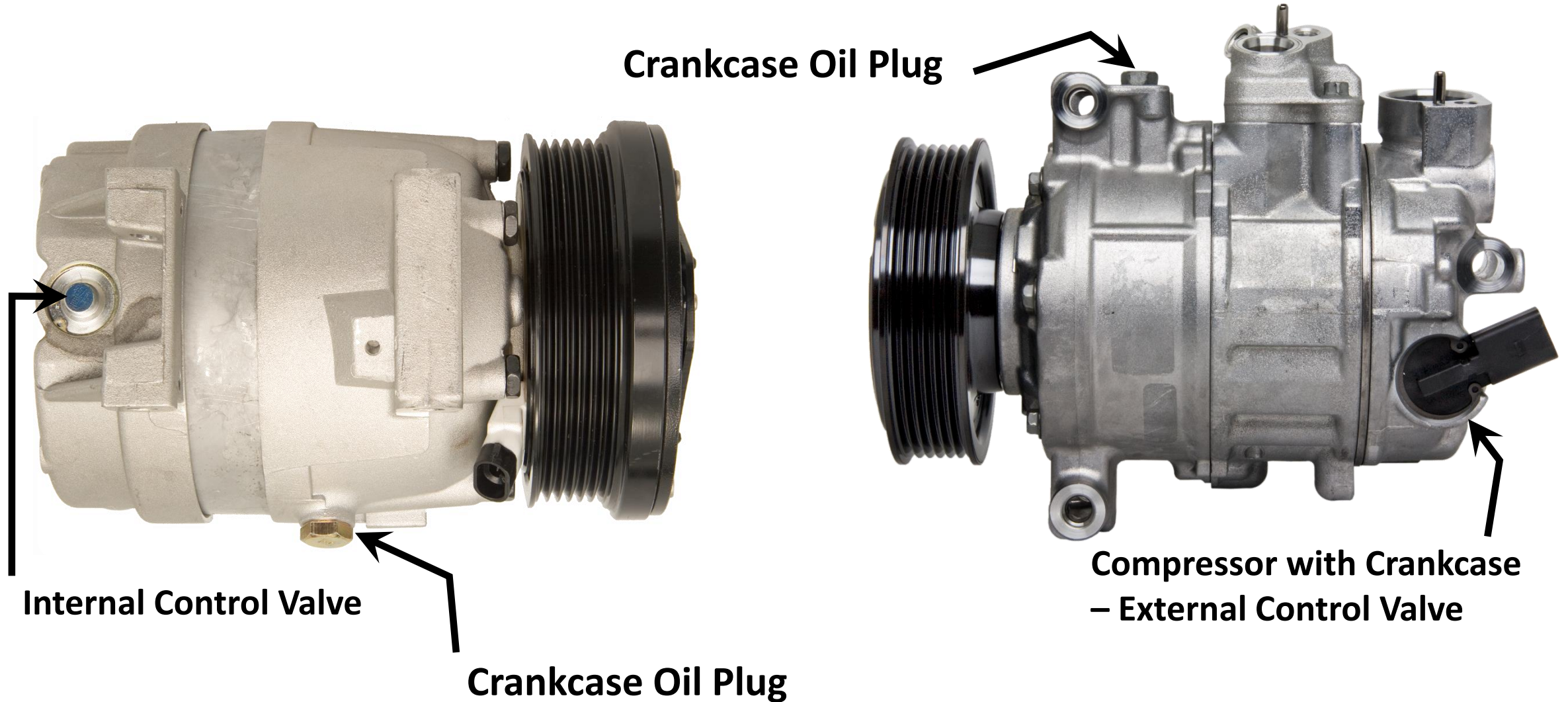
Adding/Draining Oil With Crankcase – All Systems



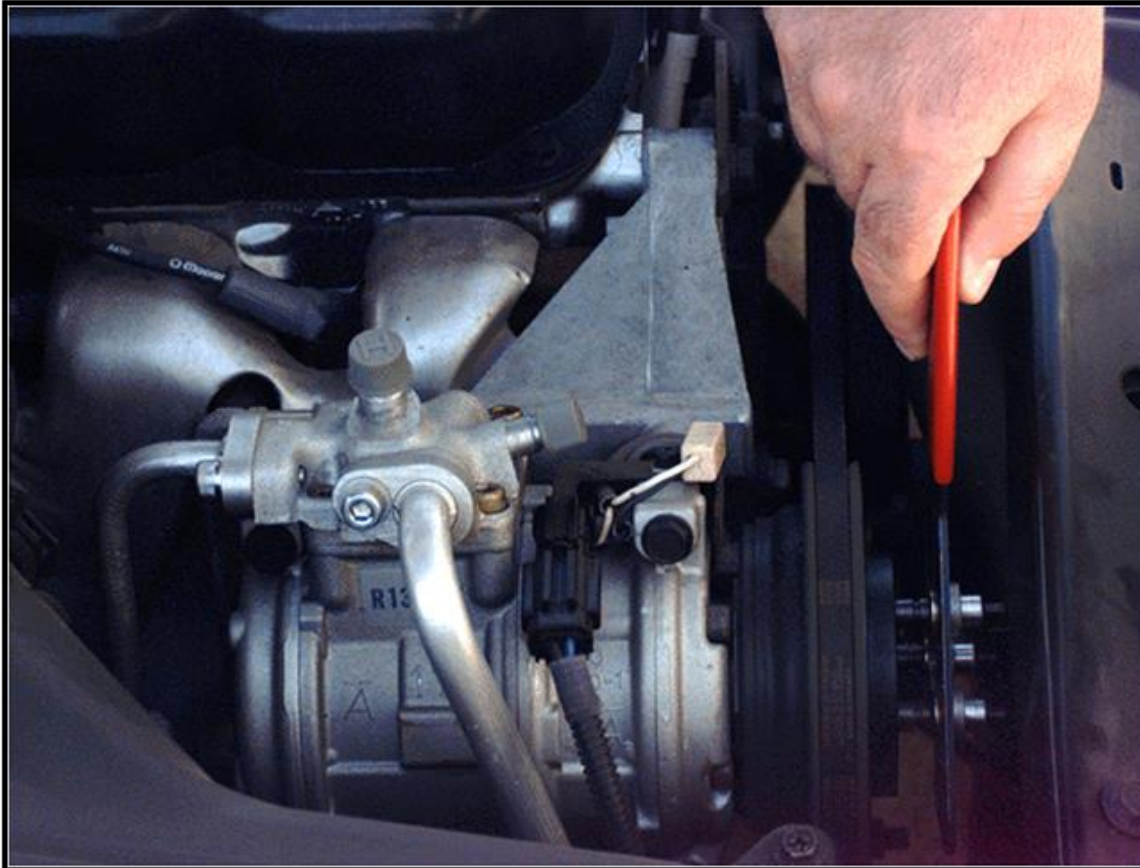
- Add through crankcase drain plug
- Total charge may be added to compressor



Variable Displacement Compressors - Internal & External Control



Turn Compressor by Hand Before Start Up



At least 10 full revolutions