Replace Dash AC Compressor with a Modern One

Or, how to lose 27 pounds without dieting.

Ken Henderson

DISCLAIMFR

Accuracy is not guaranteed. Independent verification is urged.

This presentation is provided for web site posting primarily to offer the various information links. The oral presentation which explained such issues as connections and mounting details was not recorded. Here is a brief synopsis of those remarks:

The mounting of the Sanden-type compressor is very simple – use the front mounting plate for the A-6 to bolt the new compressor through the 3 axial holes behind the pulley. The center hole should align; the other two will require only very slight elongation with a file to admit 5/16" bolts. It is recommended that a small bracket be added to the rear of the compressor to brace it to the double-ended head bolt left un-used by removal of the A-6's rear mount.

Hose connections can be made by having the compressor-end fittings replaced at an air conditioning shop. The usually-required fittings are readily available, cheaply, on eBay. Or, the rear plate on the compressor can be replaced with one which accepts the GM-style fittings; they cost about \$30. However, the GMC hose length may be too great so that modification is still required.

Why Abandon the A6?

- Weighs too much for old codgers to handle
- Makes right rocker cover removal difficult
- Remanufactured ones unreliable
- New ones expensive
- Smoother, quieter operation
- Less engine load
- NOT for improved cooling
- MOST IMPORTANTLY: 'Cause we can.

What's Involved?

Find a replacement

Sanden (Formerly Sankyo)

Seltec (Sanden clone)

Chinese Sanden Clone

Where to Get It?

- Junk Yard
 - Used on many Japanese, European, & US cars
 - Durable & usually not the reason for junking
 - Cheap (\$24-\$30)

- New
 - eBay lists many (\$75-\$150)
 - Nostalgic Air & Others (\$190-\$300)

What to get

Туре	R-134a	R-12	
7 Cylinder	SD7B10	SDB-706	
	SD7H13	SD-708	
	SD7H15/ HD, SHD	SD-709	
5 Cylinder	SD7B10 / SD5H09	SD-505	
	SD5H11	SD-507	
	SD5H14	SD-508	
		SD-510	

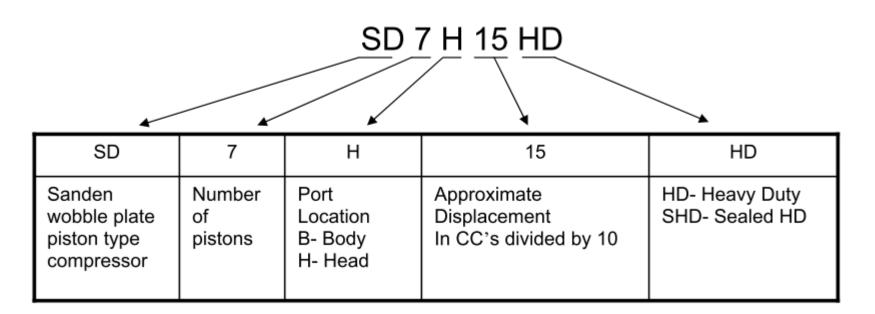
Note: 5 Cylinder compressors have 5 bolts holding rear cap; 7 cylinder units have 6 bolts.

Sanden Identification R-12

SD-709

SD	7	09
Sanden wobble plate piston type compressor	Number of pistons	Approximate Displacement In Cubic Inches

Sanden Identification R-134a



 $1 \text{ in}^3 = 16.3870 \text{ cm}^3$

So, SD7H15HD has 150 cc displacement = 150/16.387 = 9.154 ci (A6 has 6 cylinders and 12.6 ci)

Identification

- DIFFICULT
- The preceding are Model Numbers. There are similar but less descriptive numbers for Seltec (TM-15, TM-15HD, TM-16, TM-21, etc).
- Part Numbers are entirely different. They
 represent a specific model equipped with a
 specific combination of clutch characteristics,
 plumbing fittings, etc.

This Sanden Should Fit Exactly (from www.remcoair.com)

Part No. 1401025

CHEVROLET	P20 VAN			(1986	5 - 1989)
CHEVROLET	P30 VAN			(1986	5 - 1991)
GMC	P2500 VAN			(1986	6 - 1989)
GMC	P3500 VAN			(1986	6 - 1991)
×		3		Relat	ed Parts
	VAN 7.4L 454cid V8 Carb (W) OHV : oning : A/C Compressor Wiki		Price	Core	Total
FOUR SEASONS Part # w/ SD709 Compressor;	# 58552 info w/ Clutch; Sanden 7402			\$0.00 d to Cart	\$221.79
	# 57559 info Remanufactured sor; w/ Clutch; Sanden Model U9125		\$220.79 Add	\$35.00 d to Cart	
	# 57552 info Remanufactured w/ Clutch; Sanden 7402			\$53.33 d to Cart	\$258.12
FOUR SEASONS Part # w/ SD510HD Compress	# 58559 info sor; w/ Clutch; Sanden Model U9125		\$263.79 Add	\$0.00 d to Cart	\$263.79
replaces 19144901	619 info {#19144901, 19192306} EMAN) SD510HD CMPR, SANDEN		\$294.79 Add	\$0.00	
* Non-stock itemshippi	ng delayed up to 5 business days				

For More Information

Detailed Sanden specs, End cap layouts, Comparisons with other brands, Photos, etc:

http://www.heco.net/MainCat/compressors.pdf

Sanden-style compressors, etc:

http://www.nostalgicairparts.com/ac/compressors-41.php

Seltec Compressors, etc:

http://www.ackits.com/c/seltec/Universal+Compressors+-+Seltec.html

More Information

 This is the most complete reference I know for descriptions, cross references, and specifications:

 http://www.remcoair.com/catalogue2008/kys or/compressors.pdf

Alternatives

- Seltec is a very common replacement for Sanden.
 Part numbers are entirely different, but
 dimensions and characteristics and performance
 are very similar. Some dealers promote them as
 more smooth and reliable than Sanden
 (especially those who don't sell Sanden).
- There are other alternatives, but their populations are so small I didn't investigate them.
 (Tama, Zexel, Diesel Kiki, and Seltec are all Valeo)

Reality

 With all this information, how do you choose a compressor?







