

Basic Clutch Information

Guide to Clutch Identification and Catalog Use

In our efforts to make this catalog as complete and as useful as possible, clutches are listed in three different sections.

1. Specifications Section (listed in ascending order by diameter)
2. Illustration or Photo Section (listed in our numeric order within by manufacturer)
3. Cross Reference Section (OEM service numbers and/or numbers stamped on the clutch are listed in the cross reference section in the back of this catalog)

The clutch used on a particular truck depends on the type of compressor selected from an option list when the truck was first assembled. However, after miles of service, original parts most likely have been replaced. For whatever reason, a truck originally equipped with a reciprocating compressor may now be using a rotary type or possibly a single groove clutch has been replaced with a double groove. To assure your customer gets the right part the first time, it is important to identify the compressor the clutch is to be used on, and the characteristics or specifications of the clutch. If possible, check for label or stamped numbers on the clutch body or the coil assembly to identify the clutch.

If the clutch marking or label is illegible, the following information will be needed:

1. Compressor Make and Model
2. Voltage - 12 or 24 Volt
3. Diameter of Clutch Pulley
4. Number of Grooves; Width of Drive Belt
5. Distance or Gauge Line



AIR GAP INFORMATION

It is critical that proper gap space is maintained between the clutch pulley face & the hub armature. Incorrect air gap can cause clutch burning, slippage, and poor compressor operation.

COMPRESSOR / CLUTCH HUB TO PULLEY AIR GAP

COMPRESSOR MODEL	GAP MEASUREMENT
T/CCI (York Style) Tecumseh 2 Cyl.....	No Adjustment
Chrysler C171/A590/6C17, 10PA17020" - .035" *
Frigidaire A-6022" - .057"
Frigidaire DA6, HR6, HR6HE, V5015" - .025"
Frigidaire R4020" - .040"
FS-6, 6P148022" - .037" *
FX15/FS10018" - .033" *
Sanden SD508, SD510, SD709, SD5H14, SD7H15.....	.016" - .031" *
Sanden TR105.....	.013" - .025" *
Seltec/Valeo (TM13-21).....	.010" - .020" *
Seltec/Valeo (TM31).....	.012" - .024"

*Shim Adjustable

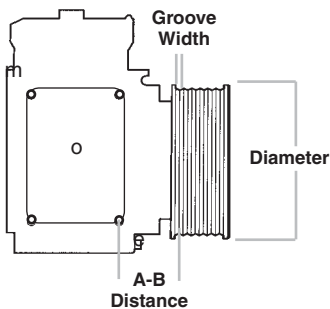
BELT TENSION SPECIFICATIONS – SANDEN / SELTEC

(recommended for maximum clutch bearing life)

Grooves	Belt Wdth	Tension (lbs.)	Grooves	Grv Wdth	Tension(lbs.)
1 or 2	1/2"	121 ± 5	6 Multi	1/8"	180 ± 5
1 variable	1/2" / 9/16"	132 ± 5	7 Multi	1/8"	210 ± 5
1	5/8"	132 ± 5	8 Multi	1/8"	240 ± 5
			10 Multi	1/8"	300 ± 5

(Tolerance ± 4.95 lb; Multi Grooves based on 30 lb per groove)

HOW TO MEASURE CLUTCHES

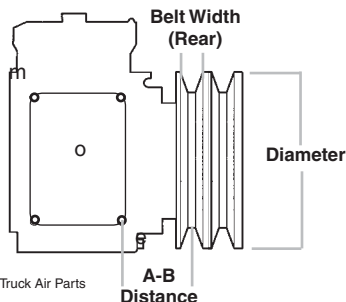


T/CCI (YORK STYLE)

HOW TO MEASURE:

IF PART NUMBER ON CLUTCH BEING REPLACED CANNOT BE READ, USE THE FOLLOWING PROCEDURE TO DETERMINE REQUIRED CLUTCH PART NUMBER.

1. DETERMINE IF 12 OR 24 VOLT (Black Wire = 12V, Green Wire = 24V).
2. DETERMINE IF CLUTCH IS SINGLE, DOUBLE OR SERPENTINE.
3. MEASURE OUTSIDE DIAMETER OF PULLEY.
4. MEASURE WIDTH OF PULLEY GROOVE:
 - a. Single and Double Groove = measure the width of pulley groove.
 - b. Poly Groove = count the number of grooves.
5. MEASURE ACCURATELY THE A-B DISTANCE:
 - a. Single and Double Groove = measure the distance from the compressor mounting hole on the side of the compressor to the middle of the rear belt groove on the pulley. (the rear belt groove is closest to the compressor)
 - b. Poly Groove = measure the distance from the compressor mounting hole on the side of the compressor to the middle of the first groove on the pulley.
6. DETERMINE THE NUMBER OF WIRES.



© Truck Air Parts

T/CCI (YORK STYLE) 12 Volt unless noted

Clutches are listed in ascending order by grooves, by diameter (O.D), by part number.

No. of Grv's	CLUTCH O.D.	PART NO.	BELT GROOVE WIDTH		MOUNTING DISTANCE		NOTE
			1st grv.	2nd grv.	FIRST	SECOND	
1	6"	02-3023	1/2"	—	2-5/8"	—	
1	6"	02-3426	1/2"	—	2-3/4"	—	w/O.E. style diode & weathepak conn.
1	6"	02-3427	1/2"	—	2-3/4"	—	2 wire coil
1	6"	02-0802	1/2"	—	2-3/4"	—	
1	6-5/16"	02-0806	5/8"	—	2 3/4"	—	
1	6-5/16"	02-0401	1/2"	—	2-15/16"	—	
1	6-3/4"	02-3004	1/2"	—	3-3/16"	—	
1	6-3/4"	02-3005	1/2"	—	2-3/4"	—	
1	6-3/4"	02-3006	3/4"	—	2-7/8"	—	
1	6-3/4"	02-3007	5/8"	—	1-13/16"	—	
1	6-3/4"	02-3008	5/8"	—	1-15/16"	—	
1	6-3/4"	02-3014	5/8"	—	2-3/4"	—	
1	7-5/16"	02-3015	3/4"	—	2"	—	
2	6"	02-3024	1/2"	1/2"	2-1/8"	2-3/4"	
2	6"	02-3052	1/2"	1/2"	1-11/16"	2-5/16"	24 Volt
2	6"	02-3402	1/2"	1/2"	1-11/16"	2-5/16"	w/O.E. style diode & weathepak conn.
2	6"	02-3412	1/2"	1/2"	1-11/16"	2-5/16"	2 wire plug, Metripak w/diode
2	6"	02-3428	1/2"	1/2"	1-11/16"	2-5/16"	2 wire Ford connector
2	6"	02-3001	1/2"	1/2"	1-11/16"	2-5/16"	Std duty w/single row bearing.
2	7"	02-3003	1/2"	1/2"	1-11/16"	2-5/16"	Heavy duty bearing.
2	7"	02-3050	1/2"	1/2"	1-11/16"	2-5/16"	24 Volt
2	7"	02-3000	1/2"	1/2"	1-11/16"	2-5/16"	Std duty w/single row bearing.
6	5.8"	02-0804	6 Grooves	—	2-1/8" Center Point	—	1 wire
6	6"	02-3416	6 Grooves	—	2-1/8" Center Point	—	2 wire plug Metripak
6	6" FF Style	02-3419	6 Grooves	—	2-3/8" Center Point	—	1 wire, Front Forward - see illustration
6	6" FF Style	02-3420	6 Grooves	—	2-3/8" Center Point	—	2 wire w/diode, Front Forward
8	5.3"	02-0805	8 Grooves	—	—	—	1 wire
8	6-5/16"	02-3418	8 Grooves	—	—	—	2 wire plug Metripak w/diode

NOTE: All clutches for T/CCI/York Style compressors are supplied with coil. Pitts and Ogura (silver colored) and Warner (black) clutches are all interchangeable when supplied with coil. T/CCI, Tecumseh style clutches are H.D. construction with double row bearings (unless noted). Clutches are supplied in several manufacturing designs. Although some feature up to 20% weight reduction over others, all perform equally well, all meet or exceed O.E. standards and offer reduced vibration and longer belt life.



T/CCI - 2 WIRE METRIPAK CONNECTORS w/DIODE
 Green wire = positive White wire = ground
DO NOT REVERSE

T/CCI, YORK STYLE - SERVICING CLUTCH

Clutch mounting bolts (4): use torque wrench 13-19 ft. lbs.
 Center bolt: use torque wrench 20-25 ft. lbs.