

TCM/CMI/CMG STARTER ADAPTER

Pictorial Identification Guide



Caution: This material is for reference only. Use at own risk.
Consult the Manufacturer's latest manual for approved guidance.

“Which starter adapter unit do I have?”

“Is my unit a “Old Style” or “New Style”?”

Continental Motors utilizes a number of different starter adapters. A single P/N adapter can be limited to a certain series, but this is not always the case. Typically mechanics reference the engine's IPC for the appropriate starter adapter P/N, however, many have been superseded over the years and may no longer match the IPC.

Many Aircraft Specialties Services customers prefer to exchange their starter adapter unit rather than wait. To ensure that you receive the correct unit, use this guide to properly identify your starter adapter.

This presentation will help a novice identify the most common types of starter adapter units.



Identifying a CMI starter adapter –

Traditional method, aka. IPC

Note: The part numbers listed in this presentation may not be the latest available part numbers.

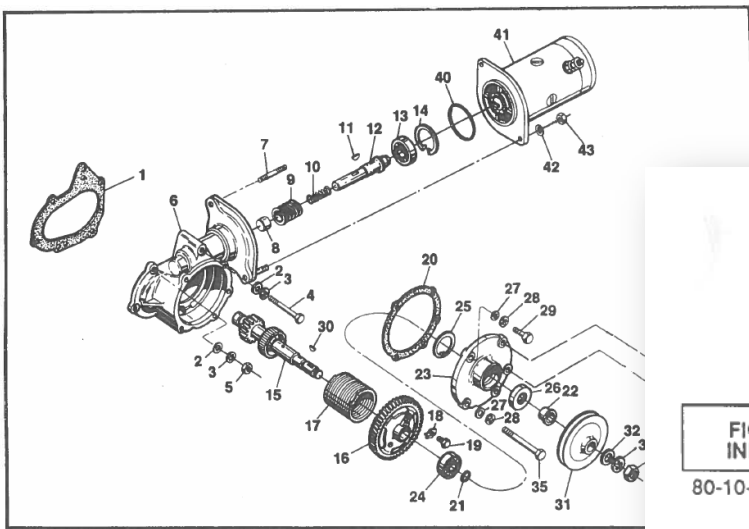


FIGURE 80-10-01. STARTER AND STARTER ADAPTER ASSEMBLY (IO-550-D,E,F,L)

Hint: Some starter adapters have the P/N ink stamped on the case exterior.

FIGURE 80-10-01. STARTER AND STARTER ADAPTER ASSEMBLY (IO-550-D,E,F,L)

FIG. & INDEX	PART NUMBER	1 2 3 4 5	DESCRIPTION	QUANTITY			
				D	E	F	L
80-10-01 - 1	537745		Gasket, Adapter-to-Crankcase	1	1	1	1
	635050A4	①	Adapter Assy., Starter Complete (Less Sheave)	1	1	1	1
			ATTACHING PARTS				
- 2	2473		Washer, Plain	3	3	3	3
- 3	MS35337-45		Washer, Lock	3	3	3	3
- 4	537742		Screw, 5/16-18 x 2-13/16 Inch Long	1	1	1	1
- 5	2439		Nut, Plain	2	2	2	2
							
- 6	635050		Adapter Assembly, Starter	1	1	1	1
- 7	402127		Stud, 3/8-16 x 1-17/32 Inch Long	2	2	2	2
- 8	641368		Bearing, Needle	1	1	1	1

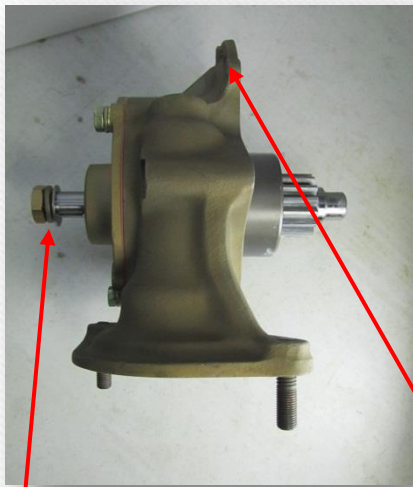
80-10-00

Hands on method:

P/N 635050A4

"Old Style"

Found on all 470 series engines, and Sandcast
(rear alternator) 520 and 550 series engines"



*Casting number
630468 here*



Presence of steel sleeve



Note: single snap ring

*You may have a pulley here. It
may be difficult to get off. We can
remove and return to you.*

Note: "Old or Classic Style" denotes the
presence of a steel sleeve.
"New style" will not have a steel sleeve
around the spring.

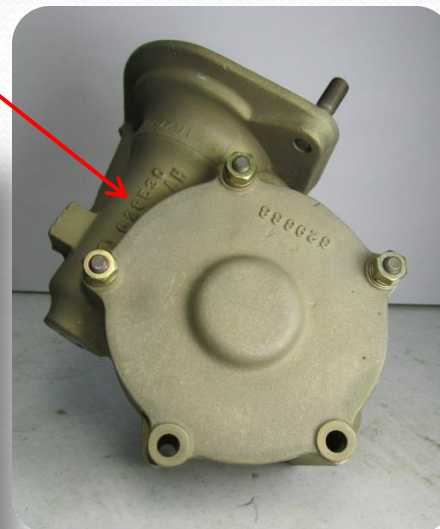


Hands on method: P/N 642083A-12

"Flat Top"



Casting No. 629530



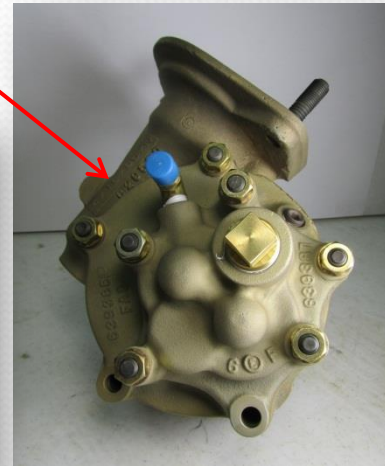
This adapter is typically found on Permold (*front alternator*) IO-520 and IO-550 series engines.

Hands on method:

P/N 642085A-17

Flat Top's big brother
(w/ integral scavenge pump)

Casting No. 629530

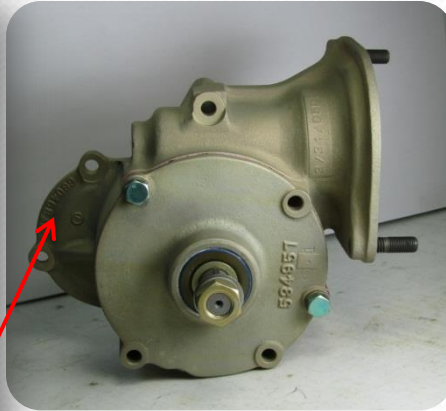
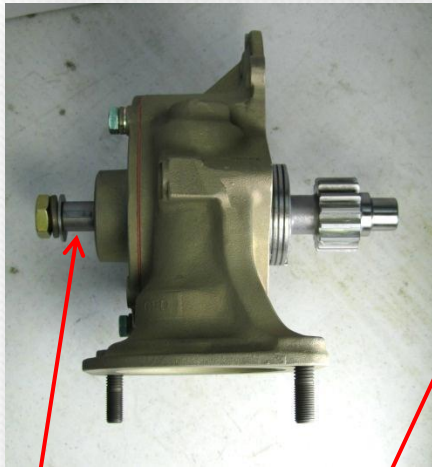


Typically found on Permold (*front alternator*) TSIO-520 Engines.

Hands on method: P/N 643259A-18

"New Style"

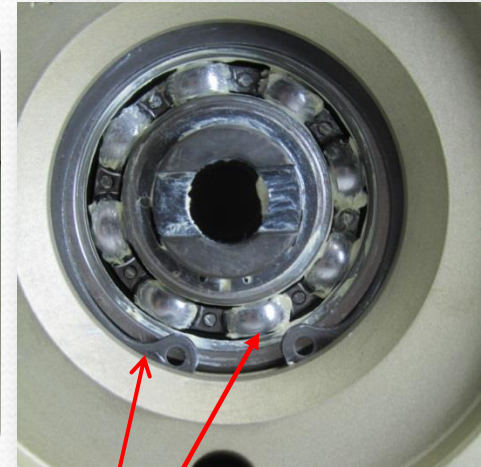
Found on all 470 and Sandcast (rear alternator) 520 and 550 series engines.



Casting number
630468



Note: No steel sleeve
(spring exposed)



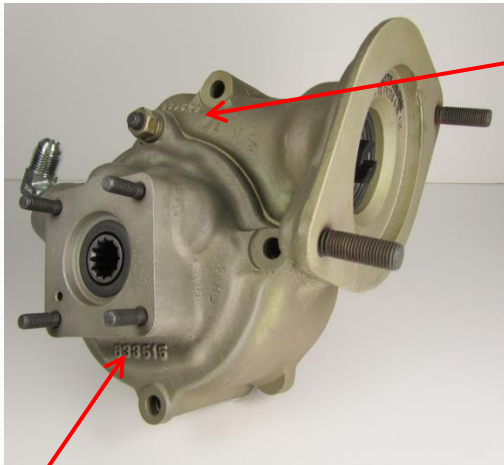
Note: two snap rings

You may have a pulley here. It
may be difficult to get off. We can
remove and return to you.

Hands on method: P/N 635048A-22

"Old Style"

Found on most TSIO360 and LTSIO360 series engines.

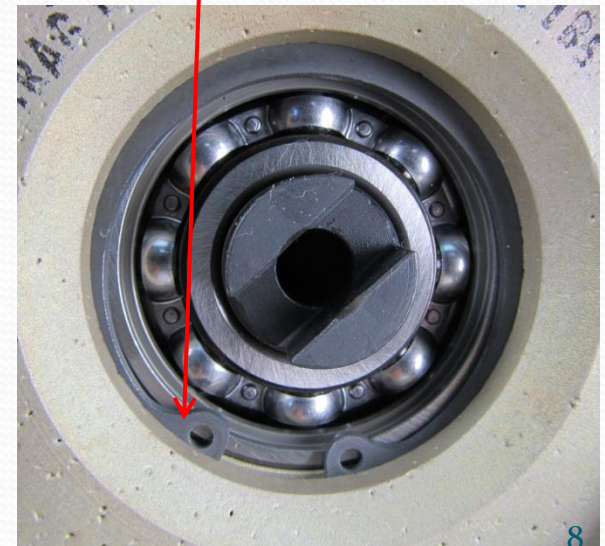


Casting number here is 630526

Note: the casting number here denotes LH or RH rotation.



Note: presence of steel sleeve



single snap ring

Hands on method: P/N 646220A37

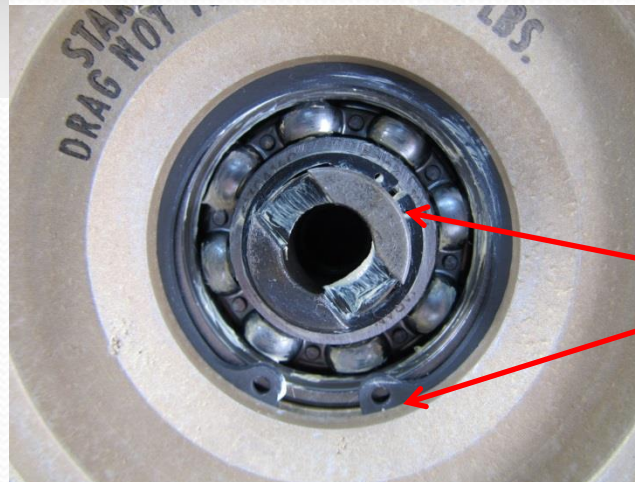
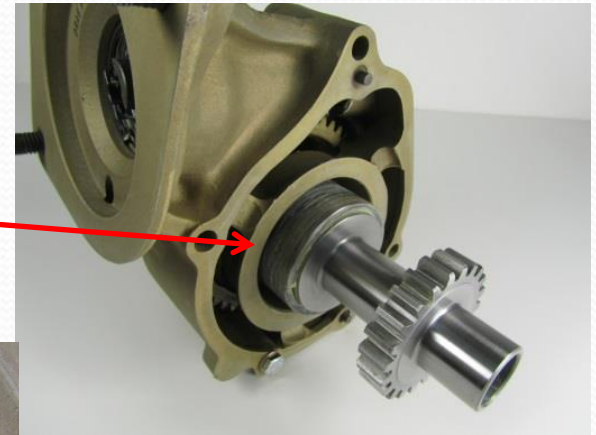
"New Style"

Found on most IO360 & O300-D series engines.



Vacuum pad drive

No sleeve,
Spring exposed



Note: two snap rings

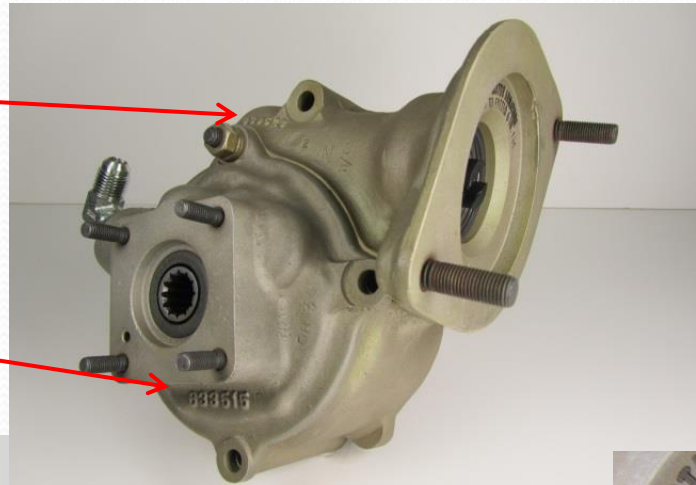
Hands on method: P/N 646220A-45

"New Style"

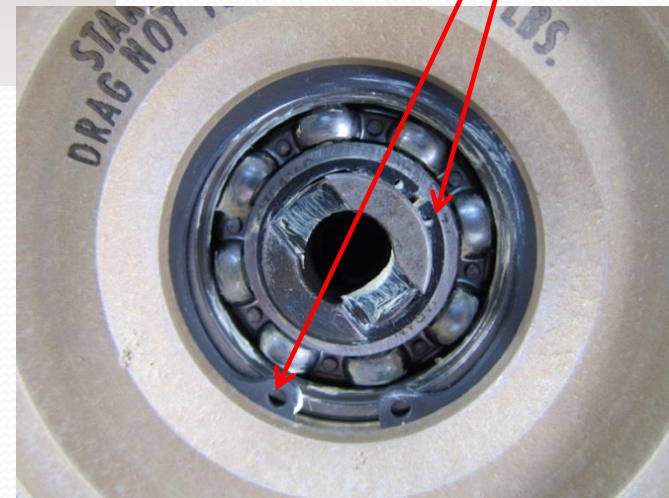
Found on most all TSIO360 and some LTSIO360 series engines.

Casting No. 630526

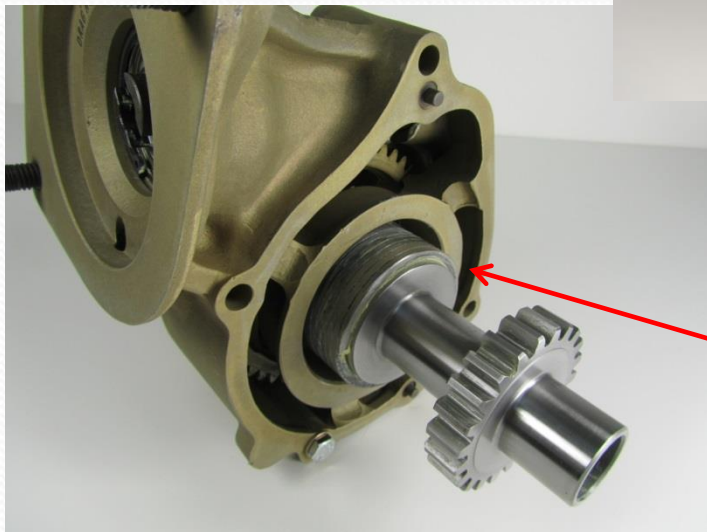
Note: the casting number here denotes LH or RH rotation.



Note two snap rings



Note exposed spring



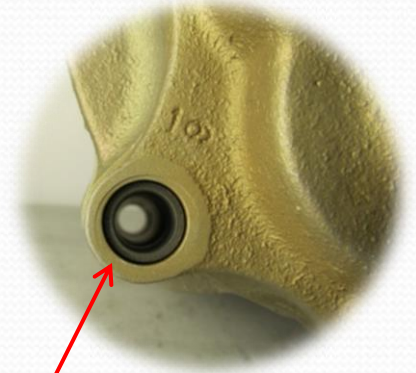
Hands on method:

P/N's 642087A69/A70

"Old Style"

Found on some IO/ TSIO520 and TSIO550 series engines.

Note: A69 part number will not contain a working scavenge pump and may not be used on turbocharged applications. The A70 part number will contain an operational scavenge pump.



Hollow dowel



You may have a pulley here. It can be difficult to get off. We can remove and return to you.



None of the above look like yours?

Not to worry, there's still a chance we have your adapter in stock. And even if we don't, we can most certainly overhaul your unit as quickly as possible.

Call Bobby @ 918-836-6872 ext. 104 (CST) with any questions, comments, or suggestions for more helpful information. Email us at sales@aircraft-specialties.com



*The material in this presentation is for reference only. Use at own risk.
Consult the Manufacturer's latest manual for approved guidance.*