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Tim's Stuff v02

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## A Study Of Early Model Generators

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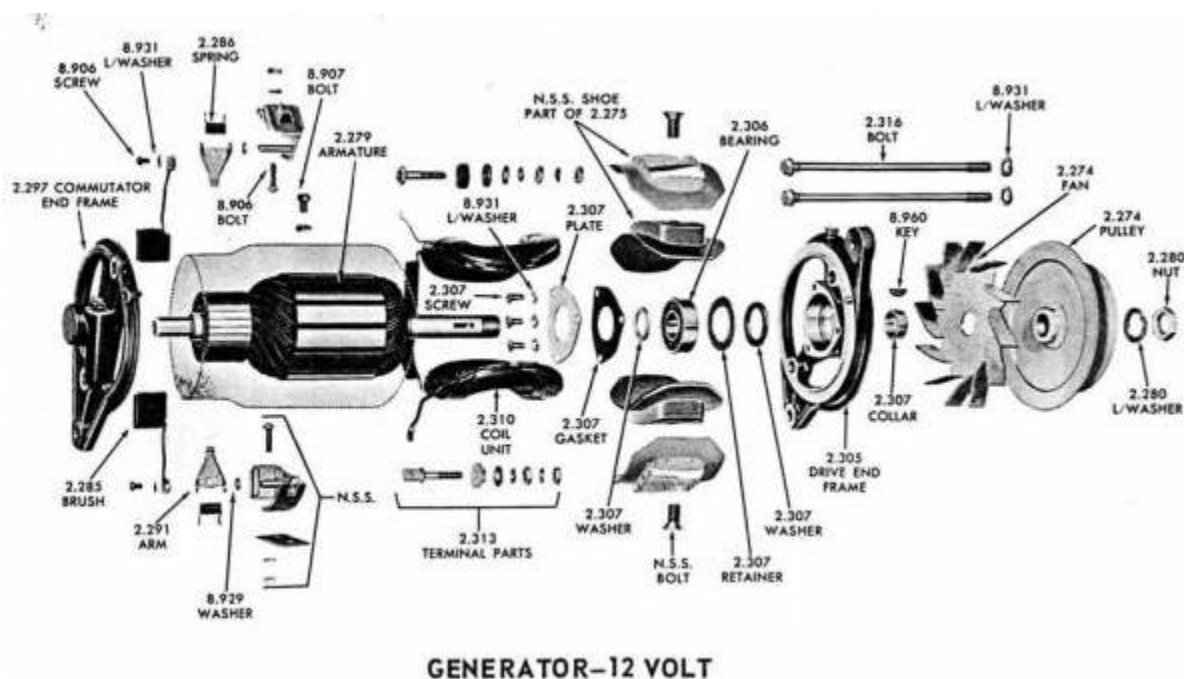
Having recently come across some NOS rebuilt generators and needing one for my brother's Greenbriar project. I set out to understand what GM was doing with the generators. The following table was generated from parts books, assembly manuals and my barn of parts out back. This is not the last word on generator numbers as you see, there are gaps in table. Also GM did not always update the assembly manuals or parts books as well as they should have.

To aid in identification the armature's part number is stamped on it. Also all true Corvair armatures use a left hand nut to hold on the fan. This is not true for the alternators.

- 1960- Shorter then the later generator so the armature and fields are different.
- 1961-63- Basically we have two generators, one with terminals pointing up and one pointing back so the engine cover in the FC's and wagons have more clearance.
- 1964- GM figured out they could use the generator terminals pointing back for all the vehicles and added 5 more amps capacity by the use of a different armature.
- 1105135- Optional low speed cut-in generator was available 61-64 and apparently did not share anything with any of the other generators. This generator is considered quite rare and I think I can remember seeing one once at a national.
- 1102247 (16-U)- is a GM universal rebuilt replacement. From the one's we have still in the box they appear to be like the 1102227 except they have stickers instead of metal tags. Also GM painted the end frames black, which looks awful.

The 1951434 end frame is drilled for both generators but has only one mounting pin. Part numbers or casting numbers do not seem to be on the end frames. I have not finished my research on pulleys but one thing has come out. Early HI performance and Turbos used a different pulley then the standard Corvair. I'm not sure why.

The exploded picture of a generator is one you won't see in the regular GM Corvair parts book. It comes from the illustration book. You might want to copy it and put in your parts book.



## Generator ID Tag Numbers

Generator Tag	Correct for:	Amps	Description	Regulator <sup>^</sup>
1100357	60 all.	30	Terminals point up. Not as long as others.	1119261
1102226	61-63 all except trucks and wagons.	30	Terminals point up.	1119001
1102227	61-63 trucks and wagons only.	30	Terminals point to rear of car.	1119001
1102247 (16-U)	60-64 all. Replacement part.	35	Terminals point to rear of car.	
1102336	64 all.	35	Terminals point to rear of car.	1119305
1105135	60-64 optional for all.	35	Multiple part fan and pulley. Optional low speed cut-in.	60-61 1119635, 62-64 1119604

<sup>^</sup> Regulator 1119261 was used as a general replacement part for 60-63, except with generator 1102336, 1105135.

<sup>^</sup> Regulator 1119635 was used as a general replacement part for generator 1105135.

## Generator Parts Interchange

GENERATOR TAG #	ARMATURE	FIELDS	PULLEY END FRAME	COMMUTATOR END FRAME
1100357	1948086	1946117	1945332	1933933
1102226	1952301	1945260	1945332	1933933
1102227	1952301	1945260	1951438	1951434
1102247 (16-U)				
1102336	1958598	1945260	1951438	1951434
1105135	1950521	1950516 RH, 1950517 LH	1950519	1950510

## Generator Pulleys Applications

YEAR	Standard Engine	High Performance or Turbo	Optional Low Cut in Generator (1105135)
60 to early 61	6255811		1922950-fan, 1931102-pulley w/guard
61	3789839	3798280	1922950-fan, 1877887-spacer, 1949357-pulley
62	3789839	3798280	1922950-fan, 1877887-spacer, 1949357-pulley
63	3789839	3798280	1922950-fan, 1877887-spacer, 1949357-pulley
64	3848042	3848042	1922950-fan, 1877887-spacer, 1949357-pulley
65-69	3856602	3856602	Not available

## Generator Pulley Notes

PULLEY	Diameter	Width	Notes:
6255811	2-9/32"	3/8"	Used on 60. Except with generator 1105135.
3789839	2-9/32"	3/8"	Used on 61-63 without high performance or turbo. Except with generator 1105135.
3798280	2-7/8"	3/8"	Has guard. Used on 61-63 with high performance or turbo. Except with generator 1105135.
3848042	2-7/8"	3/8"	Has large guard. Generator can not be mounted with the pulley on. Used on all 64. Except with generator 1105135.

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