

# ERRORS FOUND IN THE CORVAIR SHOP MANUALS

The following items are what I have been able to find in the Chevrolet issued **Corvaire Shop Manuals**. Many of these problems are trivial or simply typos, but in the interest of thoroughness, I have included them too. In addition I have found many omissions in these manuals and these are also listed. Sometimes the omissions are more important than the actual errors. This is, unfortunately, not a complete list since many unnoticed errors still exist. But let's consider it a start. Note in the following, S/B means should be.

## EARLY MODEL CORVAIRS

ENTRY	YEAR	PAGE NUMBER	CURRENT PROBLEM OR STATEMENT	CORRECTED INFORMATION
1	<b>1960</b>	2-9	Never change or drain PG fluid	Change every 12000-24,000 miles
		6E-3	No periodic draining PG fluid	same as above
2		3-5	Omission	Rear springs may be cause of out-of-specs rear camber.
3		4-1	Use steering gear lubricant	N/A. Use moly CV-U-joint lube
4		5-3	Hydraulic brake fluid Super #11	Use Dot 3 or 4
5		6A-1	Omission	Add "Static" ahead of 6A-51 entry
6		6A-44	Omission	Add "in the plunger" to the note in the RH column
7		6A-46	Crank hub is rotated in fig 6A-95	holes in hub should be at 12, 2, 4, 6, 8 and 10 o'clock
8		6A-51	Omission	Add "Static" ahead of "valve lash adjustment"
9		6C-22	fig 6C-54, gear teeth, confusing info	The patterns are correct but the "drive teeth" and the "coast teeth" are interchanged
10		6E-2	fig 6E-1, diff lip seals wrong	Pinion shaft front seal lips should point toward diff. PS rear seal lips should point toward converter.
11		6E-15	fig 6E-31, item #7 location	#7 should go between #8 and the transmission case
12		8-41	fig 8-73 & 74, delete "thermostat"	replace with "circuit breaker"
13	<b>1961</b>	2-7	Never change or drain PG fluid	Change every 12000-24,000 miles
14		3-5	Omission	Rear springs may be cause of out-of-specs rear camber
15		4-2	Use steering gear lubricant	N/A. Use moly CV-U-joint lube
16		6A-2	Omission	Add "static" ahead of 6A-53 entry
17		6A-22	#4, fig 6A-105	S/B 6A-104
18		6A-34	#4b, "last word indicator"	S/B "dial micrometer"
19		6A-44	#5 note, "2.0993-2.0883"	S/B "2.0883-2.0993"
20		6A-48	Crank hub is rotated in fig 6A-94	holes in hub should be at 12, 2, 4, 6, 8 and 10 o'clock
21		6A-49	#16 "torque bolts 20-26 ft-lbs"	add, "for flex plate and 40-50 ft-lbs for flywheel"
22		6A-49	#18 "away from piston top"	Change to "toward piston top"

23	6A-49	#22 "crankcase"	S/B "crankshaft"
24	6A-49	#24 fig 6A-98	S/B fig 6A-94
25	6A-54	#52 "foot pounds"	S/B "inch-pounds"
26	6C-4	diff lip seals wrong	Pinion shaft front seal lips should point toward diff. PS rear seal lips should point toward converter.
27	6C-22	fig 6C-54, gear teeth, confusing info	The patterns are correct but the "drive teeth" and the "coast teeth" are interchanged
28	6D-24	#18 Omission	add "install both forks"
29	6E-3	No periodic draining PG fluid	Change every 12000-24,000 miles
30	6E-15	fig 6E-29, item #7 location	#7 should go between #8 and the transmission case
31	8-41	fig 8-73 & 74, delete "thermostat"	replace with "circuit breaker"
32	12-6	camshaft journal-Omission	add "bearing clearances. .0015-.0035" new and .002-.004" used"
33	12-9	under gear data	show that 35/9 is 3.89, 36/11 is 3.27, and 32/9 is 3.55
34	12-9	gear ratios at lower-right of page	Greenbrier: 3-speed 2d s/b 1.99 rev s/b 3.97 4-spd 3d s/b 1.68 95: 4-spd 1 <sup>st</sup> s/b 4.27
35	<b><u>1962</u></b>	12-9 gear ratios	Greenbrier: 3-speed 2d s/b 1.99 rev s/b 3.97
36	<b><u>1962-63</u></b>	8-17 fig 27, "two switches on right side"	"eng temp switch is on right side, oil pressure switch is on top of engine near generator"
37	11-42	fig 11-61, relay coil grounding.	Relay coil is not grounded as shown. It gets its ground thru the Headlights (this may raise some questions)
38	12-8	gear ratios	Greenbrier: 3-speed 2d s/b 1.99 rev s/b 3.97
39	8-25,26	Omission	heater motor circuit is missing on the Corvair 95 wiring diagram
40	<b><u>1964</u></b>	6A-1 Omission	Add to general description: new 11 vane magnesium fan and 12 plate oil cooler on A/C and turbocharged cars.
41	8-28,29	Omission	heater motor circuit is missing on the Corvair 95 wiring diagram
42	11-42	fig 11-61, relay coil grounding.	Relay coil is not grounded as shown. It gets its ground thru the headlights (this may raise some questions)

## LATE MODEL CORVAIRS

<u>ENTRY</u>	<u>YEAR</u>	<u>PAGE</u> <u>NUMBER</u>	<u>CURRENT PROBLEM OR STATEMENT</u>	<u>CORRECTED INFORMATION</u>
43	<b>1965</b>	index	Omission	Add "Tune Up" to index #6
44		3-7	#5 in RH lower column	Change lbs-ft to ft-lbs
45		3-8	lower note: "joint is a loose fit"	Should take at least some torque to turn
466		4-3	diff lip seals wrong	Pinion shaft front seal lips should point toward diff. PS rear seal lips should point toward converter.
47		4-6	top, LH page "Specifications"	Specification is 35 ft-lbs
48		4-10	fig 17, item 41. missing shaft "J"	add shaft "J" to fig 41
49		4-20	fig 52, gear teeth, confusing info	The patterns are correct but the "drive teeth" and the "coast teeth" are interchanged
50		4-21	LH top, 3d and 5 <sup>th</sup> paragraphs	"left hand S/B right hand" "Right hand S/B left hand"
51		4-21	6 <sup>th</sup> paragraph	"front" S/B "rear"
52		4-28,29	LH column, Opinion	Step "b" S/B "d" & "d" S/B "d"
53		5-1	fig 1, Omission	add "Right Front" to title
54		5-9	fig 18 & 19, Omission	add "Right Front" to title
55		6-5	Step 5	change "L/H to R/H"
56		6-5	Step 7	change "R/H to L/H" change "L/H to R/H"
57		6-27	#16, "right bolt"	change to "left bolt"
58		6-30	#12, Opinion	change 4-5/8" to 4-1/4" change 3-3/4" to 3-1/2"
59		6-31	#27, "tang and first"	change to "tang end first"
60		6-31	fig 54, "crankcase valve"	change to "crankcase half"
61		6-32	fig 58, Crank hub is rotated	Holes in hub should be at 12, 2, 4, 6, 8 and 10 o'clock
62		6-35	#20, Omission	add: "Install baffles under the cylinders before installing the pushrod tubes"
63		6-37	#27, Opinion	check for axial motion instead of twisting the pushrods
64		6-38	#41, no spec exists	tighten securely
65		6-53	under "Inspection", 7 <sup>th</sup> line	delete "both" add, "new"
66		6-55	under "Assembly" Opinion	better to heat gear and freeze cam for assembly
67		9-2	under "Lubrication" "use EP lube"	Don't use grease. Use CV joint lube
68		12-10	under temperature gauge	change "manifold temperature" to "head temperature"
69		12-10	under "General Description"	Note that only the turbocharged engine received a buzzer
70		12-15	under "Disassembly-gearbox"	Add "ed" to "explod" and "view"
71		12-19	fig 40, "oil press & eng tell-tale lamp"	Very awkward. Change to "TEMP/Press warning light"
72		12-24	heater resistor wires changed	See page 15-38 for changes
73		12-25	fig 47, title is wrong	S/B "fuse and instrument panel"
74		12-27	fig 49, title is wrong	S/B "Engine and tail lamps"

75	12-27	LH tail wiring is wrong.	Upper wire from RH tail should connect to lower LH wire.
76	12-28	Omission	Greenbrier wiring diag is missing
77	Specs 1	Rear strut rod nut- <u>inner</u>	75-90 ft-lbs is too tight, Use 1967 spec of 35 ft-lbs inner, and 80 ft-lbs for the outer nut
78	Specs 1	add: U-joint yoke retaining bolt	S/B 35 ft-lbs
79	Specs 2	Brake lining width	Change "2.5 to 2 and 2 to 2.5 inches"
80	Specs 3	camshaft journal-Omission	add "bearing clearances. .0015-.0035" new and .002-.004" used"
81	Specs 5	Table at bottom of page	Rochester H S/B 7025226 with one .12 pump jet
82	Specs 8	under bearings-release lube	add "high" after "packed with..."
83	Specs 9	under manual transmission	change case material from "aluminum" to "cast iron"
84	<u>1966</u>	0-3	Don't use special positraction lube
85		4-5	fig 14, gear teeth, confusing info
86		6-2	timing 140 hp w/ auto & A/C
87		12-4	heater wires changes
88		12-6	fig 6, fuel gage
89		15-3	freon charge
90	Specs 1		transmission lube capacity
91	Specs 1		add: U-joint yoke retaining bolt
92	Specs 1		Rear Strut rod nut
93	Specs 3		180 hp cam lobe lift
94	<u>1967</u>	0-4	Don't use special positraction lube
95		4-5	fig 13, gear teeth, confusing info
96		12-7	fuel MTR
97	Specs 1		Axle shaft retaining bolts
97	Specs 1		add: U-joint yoke retaining bolt
99	<u>1968</u>	0-4	RH col, Under Powerglide
100		4-5	fig 13, gear teeth, confusing info
101		12-1	Under Key reminder system, fig 2
102		12-12	fuel MTR
103		12-13	missing electrical connection
104	Specs 1		Axle shaft retaining bolts
105	Specs 1		add: U-joint yoke retaining bolt

106	<b>1969</b>	0-1	Under Vehicle Serial Number	Numbering starts at 700,001, not 100,001.
107		0-5	fig 4, -30 degrees is marked wrong	S/B one slot to the right
108		0-7	Under Rear Axle,	Says OK to use Special Positraction lubricant. 1967 and 1968 manuals said not to use with manual transmissions. Causes hard shifting
109		4-5	fig 13, gear teeth, confusing info	The patterns are correct but the "drive teeth" and the "coast teeth" are interchanged
110		6-1	Accelerator linkage	change 1968 to 1969
111		6-4	fig 5, head tightening sequence	Opinion: Sequence is incorrect. Do not use. See 1960, 61 or 65 manual
112		12-1	Under key reminder system, fig 2	Buzzer is separate and is NOT part of the horn relay
113		12-3	fuel MTR	S/B fuel gauge sender
114		12-14	missing electrical connection	add a connection between the left hand wire of "LH marker LP" and the LH tail light wire
115	Specs 1		Axle shaft retaining bolts	S/B U-joint strap retaining bolts
116	Specs 1		add: U-joint yoke retaining bolt	S/B 35 ft-lbs
117`	Specs 10		Under fuse and circuit breaker	in #5, "turn" S/B listed in #6