

ERRORS FOUND IN THE CORVAIR SHOP MANUALS

The following items are what I have been able to find in the Chevrolet issued **Corvaair 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. Bob Helt

EARLY MODEL CORVAIRS

ENTRY	YEAR	<u>PAGE</u> <u>NUMBER</u>	<u>CURRENT PROBLEM OR STATEMENT</u>	<u>CORRECTED INFORMATION</u>
1	<u>1960</u>	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	<u>1961</u>	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 st s/b 4.27
35	<u>1962</u>	12-9 gear ratios	Greenbrier: 3-speed 2d s/b 1.99 rev s/b 3.97
36	<u>1962-63</u>	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	<u>1964</u>	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
41a	8-25	fig 8-32, ignition switch	"R" S/B "C" and "C" S/B "R". Also if A/C is installed, add additional terminal to ign sw for "accessory"
41b	8-26	fig 8-33	Three temp switches are shown in the upper LH corner. Mark the LH one "RH temp snap switch for turbo only" Delete the center switch.

Mark the LH switch "RH snap switch for all non turbo engines"

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>PAGE</u>			
<u>ENTRY</u>	<u>YEAR</u>	<u>NUMBER</u>	<u>CURRENT PROBLEM OR STATEMENT</u>	<u>CORRECTED INFORMATION</u>	
43	1965	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 th paragraphs	"left hand S/B right hand" "Right hand S/B left hand"	
51		4-21	6 th 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"	
57		6-27	#16, "right bolt"	change "L/H to R/H"	
58		6-30	#12, Opinion	change to "left bolt"	
59		6-31	#27, "tang and first"	change 4-5/8" to 4-1/4"	
60		6-31	fig 54, "crankcase valve"	change 3-3/4" to 3-1/2"	
61		6-32	fig 58, Crank hub is rotated	change to "tang end first"	
62		6-35	#20, Omission	change to "crankcase half"	
63		6-37	#27, Opinion	Holes in hub should be at 12, 2, 4, 6, 8 and 10 o'clock	
64		6-38	#41, no spec exists	add: "Install baffles under the cylinders before installing the pushrod tubes"	
65		6-53	under "Inspection", 7 th line	check for axial motion instead of twisting the pushrods	
66		6-55	under "Assembly" Opinion	tighten securely	
67		9-2	under "Lubrication" "use EP lube"	delete "both" add, "new"	
68		12-10	under temperature gauge	better to heat gear and freeze cam for assembly	
				Don't use grease. Use CV joint lube	
				change "manifold temperature" to	

69	12-10	under "General Description"	"head temperature" 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- inner	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	1966	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	changed from 4-1/2 to 4 lbs
91	Specs 1	add: U-joint yoke retaining bolt	change from "qts" to "pints"
92	Specs 1	Rear Strut rod nut	S/B 35 ft-lbs
93	Specs 3	180 hp cam lobe lift	S/B outer 80 ft-lbs, inner 35 ft-lbs
94	1967	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	S/B fuel gauge sender
97	Specs 1	add: U-joint yoke retaining bolt	S/B U-joint strap retaining bolts
99	1968	0-4	RH col, Under Powerglide
100		4-5	fig 13, gear teeth, confusing info

101	12-1	Under Key reminder system, fig 2	"drive teeth" and the "coast teeth" are interchanged Buzzer is separate and is NOT part of the horn relay
102	12-12	fuel MTR	S/B fuel gauge sender
103	12-13	missing electrical connection	add a connection between the left hand wire of "LH marker LP" and the LH tail light wire
104	Specs 1	Axle shaft retaining bolts	S/B U-joint strap retaining bolts
105	Specs 1	add: U-joint yoke retaining bolt	S/B 35 ft-lbs
106	<u>1969</u>	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 8	1110454 dist cent. Advance	26 deg @ 3000 S/B 4600 rpm
118`	Specs 10	Under fuse and circuit breaker	in #5, "turn" S/B listed in #6