

April 9, 1973
"A" Rev.; Pgs. (2, 3, 4, 5) Rev. 5-2-73
"B" Rev.; Pg. (5) Rev. 5-7-73
Pg. (3) Rev.; Pgs. (6, 7) Added 6-14-73
Pg. (7) Rev.; Pg. (8) Added 7-20-73
Pgs. (3, 5, 7, 8) Rev.; Pg. (9) Added 7-26-73
"C" Rev.; Pgs. (2, 4, 5, 7, 9) Rev.;
& Chassis No. Added 10-11-73
Page (6) Rev. 12-7-73
"E" Rev.; Pg. (5); No. Added Pg. (9) 2-18-74

ENGINEERING MEMO #337

TO: Memo Distribution

FROM: B. Lewis

SUBJECT: 1974 MODEL YEAR ENGINE AND MISCELLANEOUS PART
REVISIONS FOR ALL CHECKER VEHICLES EFFECTIVE
APPROXIMATELY OCTOBER 10, 1973

A. To conform to Federal and California Standards for Exhaust Emission and Evaporative Emissions applicable to new gasoline powered light duty motor vehicles for model year 1974, the following components will be affected.

1. Engines
2. Engine Accessory Kits
- (A) 3. Air Cleaners - (6-Cyl. Only)
4. Carburetors
5. Tune-Up Labels
6. P.C.V. Valves
7. E.G.R. Valves
8. Charcoal Canisters-V/8 Engine Only
9. Exhaust Emission Control Systems
 - a. CCS/EGR System will be used on Non-California 6-Cyl. Cars (Engine Spec.No. 610A)
 - b. AIR/EGR System will be used on California 6-Cyl. Cars (Engine Spec.No. 611A)
 - c. AIR/EGR System will be used on Non-California 8-Cyl. 2-Bbl. Cars (Engine Spec.No. 823A)
 - d. AIR/EGR System will be used on 8-Cyl. 4-Bbl. Engines for Non-California Aerobuses (Engine Spec.No. 824A) for California V/8 Sedans and Wagons and as an option in place of V/8 2-Bbl. on Non-California Sedans and Wagons (Engine Spec.No. 811A)

10. A.I.R. Pump and Related Equipment usage will be reduced on 6-Cyl. Engines to California Only.
11. Air Conditioning installations on 6-Cyl. Engine California Cars (W/A.I.R.) will require relocation of A.I.R. Pump with Checker built brackets to LH side of engine as in 1973.
12. 6-Cyl. Engine Crankcase Vent Hoses will be revised.
- (B) 13. E.G.R. Temperature Control and Vacuum Hose Harness will be required on all engines and 4-Bbl. V/8 Engines.

- (B) (A) 14. Sales of V/8 Engine vehicles must be restricted to Non-California only because of product improvement and/or model year related vendor requests for change.
 1. Power steering gears

This Memo effective Chassis #40001 and thereafter-all models

ENGINEERING MEMO #337 (Cont'd.)

- B. The following items will also be revised and the change coordinated to this memo because of product improvement and/or model year related vendor requests for change.
- (B) 1. Power Steering Gears(A-12W8 Only)
 - 2. Disc Brake Caliper Assemblies
 - 3. Automatic Transmission Assemblies
 - (A) 4. Fuel Pump (V/8 Eng.Only)

C. Manual Steering will not be available on 1974 models.

Following is a preliminary list of parts to be affected.

April 9, 1973

"A"Rev. 5-2-73

"B"Rev. 6-14-73

"C"Rev. 7-26-73

ENGINEERING MEMO #337 (Cont'd.)

ITEM	NAME	B or M	OLD PART NUMBER	NEW PART NUMBER	INT NEW FOR OLD	AVAIL AFTER CHG.	REMARKS
1.	Engine Asm.-L/6	B	705213	705345 705346	NO	YES	Use W/O Obsoles.
2.	Engine Asm.-V/8 2-Bbl.	B	705214	705347	NO	YES	Use W/O Obsoles.
3.	Engine Asm.-V/8 4-Bbl.	B	705215	705348	NO	YES	Use W/O Obsoles.
4.	Kit-Engine Access.L/6	B	705216	705370 705371	NO	NO	Serv.or Scrap
5.	Kit-P/S Mtg.Brkt.L/6	B	705139	705374	NO	NO	Use W/O Obsoles.
6.	Kit-Engine Access.V/8 2-Bbl.	B	705217	705372	NO	NO	Serv.or Scrap
7.	Kit-Engine Access.V/8 4-Bbl.	B	705218	705373	NO	NO	Serv.or Scrap
8.	Carburetor Asm.-L/6	B	705126	705349 705350	NO	YES	Serv.or Scfap
9.	Carburetor Asm.-V/8 2-Bbl.	B	705127	705351	NO	YES	Serv.or Scrap
10.	Carburetor Asm.-V/8 4-Bbl.	B	705128	705352	NO	YES	Serv.or Scrap
11.	Cleaner Asm.-Carb.Air L/6	B	705135	705353	NO	YES	Serv.or Scrap
(A) 12.	Pump Asm.-Fuel.V/8 Eng.	B	703634	705378	YES	YES	Use W/O Obsap
(A) 13.	Valve A.-C/case Vent V/8 4-Bbl.	B	705124	705356	NO	YES	Serv.or Scrap
14.	Valve A.-C/case Vent L/6	B	705124	705356	NO	YES	Serv.or Scrap
15.	Valve A.-C/case Vent V/8 2-Bbl.	B	705125	705357	NO	YES	Serv.or Scrap
16.	Valve A.-C/case Vent V/8 4-Bbl.	B	705162	705357	NO	YES	Serv.or Scrap
(B) 17.	Hose-C/case Vent L/6	B	704267	9432894 706453	NO	YES	Serv.or Rework to 9432894 or 706453
18.	Valve-E.G.R.	B	705140	705359 705360	NO	YES	Serv.or Scrap
(B/A) 19.	Label-Veh.Emis.Cont.Info.L/6	B	-----	706498	-	-	New Part
(B/A) 20.	Plate-Veh.Emis.Cont.Info.L/6	B	706265	706493	NO	NO	Serv.or Scrap
(B/A) 21.	Plate-Veh.Emis.Cont.Info.V/8	B	706266	706494	NO	NO	Serv.or Scrap
(B/A) 22.	Plate-Veh.Emis.Cont.Info.Aero.	B	706267	706495	NO	NO	Serv.or Scrap
23.	Canister Asm.-Vapor	B	703984	-----	-	YES	Reduce Usage

ENGINEERING MEMO #337 (Cont'd.)

ITEM	NAME	B O F M	OLD PART NUMBER	NEW PART NUMBER	INT. NEW FOR OLD	AVAIL. AFTER CHG.	REMARKS
24.	Canister Asm.-Vapor	B	-----	705358	-	YES	New Part
25.	Gear A.-Pwr.Strg.Large	B	705292	705323	YES	NO	Use W/O Obsoles.
ⓑ 26.	Gear A.-Pwr.Strg.Small	B	705292	705322	YES	NO	Use W/O Obsoles.
27.	Caliper Asm.-Disc Brake	B	703755 703756	705341 705342	YES	NO	Use W/O Obsoles.
28.	Transmission Asm.-L/6	B	705231	705343	YES	YES	Use W/O Obsoles.
29.	Transmission Asm.-V/8	B	705232	705344	YES	YES	Use W/O Obsoles.
30.	Gear Asm.-Manual Strg.	B	703947	-----	-	YES	Serv.or Scrap
31.	Pitman Arm-Machined	M	702036	-----	-	YES	Serv.or Scrap
32.	Pitman Arm-Forging	B	702035	-----	-	YES	Revise Usage
33.	Pitman Arm-Machined	M	702037	-----	-	YES	Increase Usage
34.	Supt.-Hyd.Strg.Pump Frt.L/6	F	706248	706466	YES	NO	Use W/O Obsoles.
35.	Pump Asm.-A.I.R. L/6	B	703956	-----	-	YES	Reduce Usage
36.	Valve Asm.-A.I.R. Diverter	B	703958	-----	-	YES	Reduce Usage
37.	Belt-15/32 x 38 ^o x 37.30 Long	B	706255	-----	-	YES	Reduce Usage
38.	Pulley-A.I.R. Pump	B	704152	-----	-	YES	Reduce Usage
Ⓐ 39.	Bolt-1/4-20 x 1/2 Hex Hd	B	120706	-----	-	YES	Reduce Usage
40.	L/Washer-1/4 Med.Spring	B	120380	-----	-	YES	Reduce Usage
41.	Brace-A.I.R. Pump	F	706249	-----	-	YES	Reduce Usage
42.	Bolt-3/8-16 x 5 Hex Hd Spec	B	704153	-----	-	YES	Reduce Usage
43.	Nut-3/8-16 Hex	B	120377	-----	-	YES	Reduce Usage
44.	L/Washer-3/8 Med.Spring	B	120382	-----	-	YES	Reduce Usage
45.	Bolt-3/8-16 x 3/4 Hex	B	180120	-----	-	YES	Reduce Usage
46.	Bolt-3/8-16 x 1-3/8 Fl Hex	B	9429622	-----	-	YES	Reduce Usage
47.	Washer-Brace & Stud	F	702177	-----	-	YES	Reduce Usage

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"A"Rev. 5-2-73

"E"REV. 2-18-74

"B"Rev. 5-7-73

"C"Rev. 7-26-73

"D"Rev. 10-11-73

ENGINEERING MEMO #337 (Cont'd.)

ITEM	NAME	B OF M	OLD PART NUMBER	NEW PART NUMBER	INT NEW FOR OLD	AVAIL AFTER CHG.	REMARKS
48.	Adapter-A.I.R. Diverter Vlv	F	706108	-----	-	YES	Reduce Usage
49.	Gasket-A.I.R. Diverter Vlv	F	704431	-----	-	YES	Reduce Usage
50.	Bolt-1/4-20 x 3/4 Hex Hd	B	121887	-----	-	YES	Reduce Usage
51.	Washer-9/32 ID x 5/8 OD Pl	B	120392	-----	-	YES	Reduce Usage
ⓐ 52.	Hose-Div.Vlv.to Chk.Vlv.	B	706293	-----	NO	YES	Serv.or Scrap
53.	Clamp-15/16 Hose	B	178304	-----	-	YES	Reduce Usage
54.	Hose-Div.Vlv.to Tee	B	706183	-----	-	YES	Reduce Usage
55.	Tee-A.I.R. Div.Vlv.Signal	F	706274	-----	-	YES	Reduce Usage
ⓑ 56.	Hose-A.I.R. Div.Vlv.Signal	B	706182	-----	-	YES	Reduce Usage Cancelled
57.	Hose-Carb.to Dist.Vacuum	B	702942	-----	-	YES	Reduce Usage
58.	Pipe-A.I.R. Div.Vlv.Sig.	F	706273	705399	NO	YES	Serv.or Scrap
Ⓒ 59.	Clip-A.I.R. Pipe	F	706111	-----	-	YES	Serv.or Scrap
60.	Pulley A.-Hyd.Strg.Pump	B	705143	-----	-	YES	Reduce Usage
61.	V-Belt-3/8 x 38 ^o x 30.12	B	706302	-----	-	YES	Reduce Usage
62.	Brkt.& Supt.A.-AIR Pump Mtg	M	705144	-----	-	YES	Reduce Usage
63.	Supt.-Hyd.Strg.Pump Lwr.	F	706247	-----	-	YES	Revise Usage
64.	Brkt.-AIR Pump Mtg L/6	M	706272	-----	-	YES	Reduce Usage
65.	Bolt-3/8-16 x 1 Hex Hd	B	180122	-----	-	YES	Reduce Usage
66.	Brace-A.I.R. Pump Adj.	M	706281	-----	-	YES	Reduce Usage
67.	Bolt-3/8-24 x 4-1/2 Hex Hd	B	189334	-----	-	YES	Reduce Usage
68.	Washer-13/32 ID x 13/16 OD	B	120394	-----	-	YES	Reduce Usage
69.	Nut-3/8-24 Hex	B	120369	-----	-	YES	Reduce Usage
70.	Brkt.-Vapor Canister Mtg	M	706287	-----	-	YES	Reduce Usage
ⓓ 71.	Bolt-7/16-14 x 1-1/4 Hex.Hd. GM 280M	B	180147	-----	NO	Y-	Revise Usage

ENGINEERING MEMO #337 (Cont'd.)

ITEM	NAME	B O F M	OLD PART NUMBER	NEW PART NUMBER	INT NEW FOR OLD	AVAIL- AFTER CHG.	REMARKS
72.	Bracket-Accel.Pull Bk.Spr.	B	706472	-----	-	YES	Serv.or Scrap
73.	Spring-Accel.Pull Bk.2nd	B	706470	-----	-	YES	Serv.or Scrap
74.	Ext.-Accel.Pull Bk.Spr.Bckt.	M	706471	-----	-	YES	Serv.or Scrap
75.	Brkt.A.-Accel.Pull Bk.Spr.	M	705401	-----	-	YES	Serv.or Scrap
76.	Control A.-EGR Thermal Del.	B	-----	705408	-	YES	New Part
77.	Spring-Accel.Pull Back	F	704361	705354 706489	NO	YES	Serv.or Scrap
78.	Tube A.-Trans.Oil Filler	F	705226	705412	NO	YES	Serv.or Scrap
79.	Cap & Gage A.-Tr.Oil Filler	F	705227	705413	NO	YES	Serv.or Scrap
(A) 80.	Tube A.-Tr.Oil Filler-Mod.	M	705267	705424	-	YES	Serv.or Scrap
81.	Brace-Alt.Adj.6-Cyl.	F	706105	-----	-	YES	Serv.or Scrap
82.	Tube Asm.-C/Case Vent	F	-----	705375	-	YES	New Part
83.	Pipe Asm.-Spark Control	F	-----	705411	-	YES	New Part
84.	Tube-Spark Control 6-Cyl.	M	706294	-----	-	YES	Serv.or Scrap
85.	Hose Asm.-E.G.R.	B	706257	705416	-	YES	New Part
86.	Spring-Accel.Pull Bk.V/8	F	704538	-----	-	YES	Serv.or Scrap
87.	Spring-Accel.Return Inr.V/8	F	-----	706485	-	YES	New Part
88.	Spring-Accel.Return Out.V/8	F	-----	706486	-	YES	New Part
89.	Spacer-AIR Pump Adj.Bolt.	F	704534	-----	-	YES	Serv.or Scrap
90.	Insulator A.-Carb.Heat 2-Bbl.	F	706117	705417	NO	YES	Serv.or Scrap
91.	Insulator A.-Carb.Heat 4-Bbl.	F	706118	705418	NO	YES	Serv.or Scrap
92.	Bracket-Gen.Front	F	704526	706496	YES	NO	Serv.or Scrap
93.	Harness A.-Evap.2-Bbl.	B	705145	-----	-	YES	Serv.or Scrap
94.	Harness A.-Evap.4-Bbl.	B	705146	-----	-	YES	Serv.or Scrap
95.	Hose-3/8 ID x 12" Long	B	-----	9432902	-	YES	New Part

June 14, 1973

Items 98-118 Added 7-20-73

"A"Rev. 7-26-73

"B"Rev. 10-11-73

ENGINEERING MEMO #337 (Cont'd.)

ITEM	NAME	B O F M	OLD PART NUMBER	NEW PART NUMBER	INT. NEW FOR OLD	AVAIL. AFTER CHG.	REMARKS
96.	Hose A.-Spark Cont.2+Bbl.	B	705167	705420	NO	YES	Serv.or Scrap
ⓑ 97.	Hose A.-Spark Cont.4-Bbl.	B	705168	705439	NO	YES	Serv.or Scrap
98.	Fan A.-4 Blade,18"Dia.	B	705273	705426	YES	NO	Use W/O Obs.
99.	Tube A.-Pump to Carb V/8	M	703466	705171	YES	NO	Serv.or Scrap
100.	Tube-3/8 ODx .028 Wall	M	704038	704034	NO	YES	Serv.or Scrap
101.	Tubing Chart 3/8	R E F	706062	-----	-	-	Revised
102.	Adapter A.-Dual Ht.Sensor	B	-----	705430	-	YES	New Part
103.	Screw-5/16-18x5/8 Hex Ser W/Hd	B	273890	-----	-	YES	Reduce Usage
104.	Rod & Tube A.-Cont.Lvr. to B/Cr	M	703386	705402	NO	YES	Serv.or Scrap
105.	Rod & Tube A.-Cont.Lvr. to B/Cr	M	703701	705402	NO	YES	Serv.or Scrap
106.	Tube-1/4 ODx.028 Wall x 4" Long	M	94230	-----	-	YES	Increase Usage
107.	Rod-Cont.Lvr.to B/Cr-Frt	M	702848	-----	-	YES	Serv.or Scrap
108.	Tube-1/4 ODx 5.00 Long	M	704720	-----	-	YES	Serv.or Scrap
109.	Rod-Cont.Lvr.to B/Cr-Frt	M	704769	-----	-	YES	Serv.or Scrap
110.	Rod-Cont.Lvr.to B/Cr	M	-----	706474	-	YES	New Part
111.	Rod-Cont.Lvr.to B/Cr	M	-----	706475	-	YES	New Part
112.	Bracket-Throttle Ret.Spr.	M	-----	706477	-	YES	New Part
113.	Spring-Throttle Return	B	94110	-----	-	YES	Serv.or Scrap
114.	Tube-1/4 ODx.028 x 5-1/2	M	94227	-----	-	YES	Serv.or Scrap
115.	Clevis-#10 Adjustable	B	110322	-----	-	YES	Reduce Usage
116.	Nut-#10-32 Nylon Hex Lk	B	9411893	-----	-	YES	Increase Usage
117.	Ball Joint Asm.	B	-----	626925	-	YES	New Part
Ⓐ 118.	Socket Asm. Ball Joint	B	-----	626926	-	YES	New Part

WILL NOT
BE USED

ENGINEERING MEMO #337 (Cont'd.)

ITEM	NAME	R OF M	OLD PART NUMBER	NEW PART NUMBER	INT. NEW FOR OLD	AVAIL AFTER CHG.	REMARKS
119.	Control Asm.-Throttle V/8	M	701154	Chg."F"	YES	YES	Rework
120.	Lever-T.C.Shaft Inr.V/8	M	702344	Chg."F"	YES	YES	Rework
121.	Adapter-Carb.	M	704461	-----	-	YES	Serv.or Scrap
122.	Rod-Cont.Lvr.to B/Cr-Rr	M	704707	-----	-	YES	Serv.or Scrap
123.	Rod-Cont.Lvr.to B/Cr-Rr	M	704899	-----	-	YES	Serv.or Scrap
124.	Spring-Throt Overtravel	B	704985	-----	-	YES	Increase Usage
125.	Adapter-Carb.4-Bbl V/8	M	706187	-----	-	YES	Serv.or Scrap
126.	Cotter Pin-1/16 x 1/2	B	112726	-----	-	YES	Reduce Usage
127.	Nut-1/4-20 Hex	B	120375	-----	-	YES	Reduce Usage
128.	Washer-7/32 ID x 1/2 OD	B	120391	-----	-	YES	Reduce Usage
129.	Lockwasher-1/4 Int.Ext.	B	120423	-----	-	YES	Reduce Usage
130.	Nut-#10-32 Hex	B	120614	-----	-	YES	Increase Usage
131.	Pin-3/16 Clevis	B	121547	-----	-	YES	Reduce Usage
132.	Screw-1/4-20 x 1/2 RHCR	B	147897	-----	-	YES	Reduce Usage
133.	Nut & Ext.Tooth L/W Asm.	B	271172	-----	-	YES	Reduce Usage
134.	Hose-Pwr.Brake Vac.	B	704910	-----	-	YES	Reduce Usage
135.	Hose-Pwr.Brk.Vac.9-1/2"	B	-----	706509	-	YES	New Part
136.	Hose Chart-11/32 ID	B F	706504	Chg."A"	-	YES	Ref.Drawing
137.	Pipe Asm.-Vac.Brk.V/8	B	-----	705431	-	YES	New Part
138.	Connector-3/8 Inv.Fl. x 1/4 NPTF	B	-----	442364	-	YES	New Part
139.	Fitting-3/8 Pipe x 1/4 Tb	B	704715	-----	-	YES	Reinstate for V/8
140.	Fitting-3/8 Pipe x 1/4 x 3/8 Tube	B	704716	-----	-	YES	Serv.or Scrap

July 26, 1973

Items 146-154 Added 10-11-73
Items 155-161 Added 2-18-74ENGINEERING MEMO #337 (Cont'd.)

ITEM	NAME	B OF M	OLD PART NUMBER	NEW PART NUMBER	INT NEW FOR OLD	AVAIL- AFTER CHG.	REMARKS
141.	Clamp-13/16 Closed, 11/32 Hole	B	702221	-----	-	YES	Reduce Usage
142.	Plug-Sq.Hd.Pipe 1/4-18	B	444735	-----	-	YES	Reduce Usage
143.	V-Belt-15/32x 38°x 48.50.	B	706256	-----	-	YES	Increase Usage
144.	Bolt-1/4-20 x 5/8	B	120854	-----	-	YES	Reduce Usage
145.	Hose-Div.Vlv.to Ck.Vlv.	B	704435	-----	-	YES	Reinstate for Prod.
146.	Rivet-SSR 42 BS Pop	B	626819	-----	-	YES	Reduce Usage
147.	Hose-Carb.to Dist.Vac.	B	706226	706309	NO	YES	Serv.or Rework
148.	Hose-Fuel Vapor Can.to Carb	B	704869	-----	-	YES	Increase Usage
149.	Clamp-Hose 5/8 Free ID	B	702104	-----	-	YES	Reduce Usage
150.	Nut-3/8-24 Hex.Jam	B	124925	-----	-	YES	Increase Usage
151.	Clamp-Hose(.583 Band)	B	704684	-----	-	YES	Revise Usage
152.	Clip-"J"Type 13/32 Hole	B	82144	-----	-	YES	Increase Usage
153.	Nut-5/16-18 Hex.	B	120376	-----	-	YES	Revise Usage
154.	Hose Chart-5/32 ID	R E F	706501	Chg:"A"	-	-	Reference Only
155.	Hose Chart 5/8 I.D.	R	706507	-----	-	-	Reference Only
156.	Hose-Div Vlv to Exh Ck Vlv LH V/8	B	706165	-----	-	-	Revise Usage
157.	Tube-Div Vlv Hose 6 Cyl	M	-----	706310	-	-	New Part
158.	Hose-Exh Ck Vlv to Tube 6 Cyl 7" lg	M	-----	706540	-	-	New Part
159.	Hose-Tube to Div Vlv- 6 Cyl 13" lg	M	-----	706541	-	-	New Part
160.	Band Clip	M	704825	-----	-	-	Revise Usage
161.	Elbow 1/2 Pipe x 90° Auto Street	B	-----	444045	-	-	New Part