

# Inter-Organization Letter

To Mr. F. J. Welsh

Location A-1045 Central Office

From Mr. E. E. Malloy

Location A-104 Engineering Center

Subject 2x4 Conversion Parts for Camaro with  
Option Z28

Date March 15, 1968

WEL: 4-9-68

To enable P&A department to immediately place purchase orders for the 2x4 option, Engineering has issued advance part numbers and are in the process of expediting part drawings.

To make the 2x4 carburetor conversion easier for field installation, Engineering has released the following units.

3940077 - carburetor conversion unit - consists of carburetor, inlet manifold, fuel lines and linkage.

3953867 - 2x4 air cleaner and plenum unit - consists of air cleaner plenum, duct, element and flame arrestor provisions.

List of the conversion parts as attached can be used for the 1968 Camaro models equipped with option Z28.

Installation and tune-up specifications are in the process of being completed. Service letter will be issued when program has been finalized.

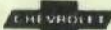
*E. E. Malloy*  
E. E. Malloy  
Engineering Department

EEM:ljl

Attachment

- cc: Messrs. C. M. Peterson
- V. W. Piggins (3)
- D. Somers
- J. Jones
- G. F. Andrus
- B. G. Kraess
- G. F. Jackson ✓
- W. J. Polkinghorne

SERVICE ENGR.	
TO	NOTED
G. F. JACKSON	<input checked="" type="checkbox"/>
G. R. WILLARD	<input checked="" type="checkbox"/>
R. C. MORRISON	<input type="checkbox"/>
R. A. THEBERT	<input type="checkbox"/>
J. PURCELL	<input type="checkbox"/>
MACKENZIE	<input type="checkbox"/>
A. J. BERTON	<input type="checkbox"/>
C. A. JACKSON	<input type="checkbox"/>
ENG.	<input type="checkbox"/>
MANUF.	<input type="checkbox"/>
R. CRIDER	<input type="checkbox"/>
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*Jim*

CHEVROLET MOTOR DIVISION  
General Motors Corporation

### Inter-Organization Letter

To REGIONAL SERVICE ENGINEERS

From G. F. Jackson

Subject SERVICE INSTALLATION ONLY -  
2 X 4 CARBURETOR CONVERSION  
UNIT FOR 1968 CAMARO RPO Z28  
MODELS - A. I. 68-7

Location

Location Central Office

Date June 21, 1968

Special heavy duty performance equipment has been released to provide a 2 X 4 carburetor arrangement for 1968 Camaro RPO Z28 models. This equipment is provided primarily in two units; one is a carburetor conversion unit and the other is an air cleaner and plenum unit.

This letter describes the basic components of each of these units, and provides part numbers for all individual components. The tune-up specifications for the Z28 engine equipped with the 2 X 4 heavy duty performance unit are attached. Part numbers listed in this A. I. will not be available for approximately 60 days.

#### CARBURETOR CONVERSION UNIT

This unit consists of the inlet manifold, carburetors, linkage, and special piping to facilitate the conversion of the 1968 Camaro 302 cubic inch engine to the 2 X 4 heavy duty version. The inlet manifold is a double header ram tube type with provisions for (2) Holley 600 CFM Carburetors and consists of a cover assembly gasket and the inlet manifold assembly. The inlet manifold (lower half) and cover (upper half) are held together with (16) 5/16-18 bolts and hardened flat washers. Fifteen ft. lbs. of torque should be applied to these bolts in a clockwise sequence to insure uniform sealing of the cover gasket. The installation instructions for each component in the unit is included in the unit.

#### 2 X 4 AIR CLEANER AND PLENUM UNIT

This unit consists of an air cleaner plenum, duct, element, and flame arrestor. Installation instructions are also included in this unit.

G. F. Jackson  
Service Department

RJK:mm

- cc: Regional Service Engineers (10 extra copies)
- Regional Service Managers
- Field Service Engineers
- Resident Field Service Engineers



## 3940077 CARBURETOR CONVERSION UNIT

<u>Part No.</u>	<u>Description</u>	<u>Quantity</u>
3941124	Manifold Asm.-Inlet	1
3941126	Manifold-Inlet	1
3941128	Cover Asm.-Inlet Manifold	1
3941132	Gasket-Inlet Manifold Cover	1
443899	Bolt-Inlet Manifold Cover	16
3865417	Washer-Inlet Manifold Cover Bolt	16
3941134	Guard-Inlet Manifold Oil Splash	1
9427817	Stud-Inlet Manifold Oil Splash Guard	6
444746	{ Plug-Heater Hose Hole	1
	{ Plug-Temperature Switch Hole	1
435611	Bolt-Inlet Manifold	12
3947032	Inlet Manifold Gasket Unit	1
3836527	Stud-Carburetor	8
3941140	Carburetor Assembly	2
121917	Nut-Carburetor	8
3881847	Gasket-Carburetor	2
3942593	Pipe Asm.-Fuel Pump	1
3942594	Manifold-Carburetor Fuel	1
3942595	Pipe Asm.-Carburetor Fuel	2
3942596	Pipe Asm.-Carburetor Fuel (To Left Carb.)	1
3942597	Pipe Asm.-Carburetor Fuel (To Right Carb.)	1
3941160	Rod Asm.-Frt to Rear Carburetor	1
3928326	Rod Asm.-Accel. Pedal	1
3941168	Cable Asm.-Accel. Control	1
393292	Retainer-Cable to Accel. Pedal Lever	1
3942592	Bracket Asm.-Accel. Control Cable	1
3921617	Clamp-Accel. Control Cable	1
180016	Bolt-Accel. Control Cable Clamp	1
9419727	Screw-Accel. Control Cable (To Dash)	1
3942584	Screw-Special 10-32x.92 Socket Head	2
3942587	Spacer-Special	2
9416980	Nut-Carburetor Rod to Lever Screw	2
3946801	Bracket-Accel. Pull Back Spring	1
3939748	Spring-Accel. Pull Back	1
3836247	Gasket-Ign. Distributor	1
3946884	Shield-Distributor Fuel	1
3953866	Carburetor Installation Instruction	1

## 3953867 AIR CLEANER AND PLENUM UNIT

<u>Part No.</u>	<u>Description</u>	<u>Quantity</u>
3941144	Plate-Air Cleaner Base	1
3941146	Cover-Air Cleaner	1
3953696	Plenum Asm.-Air Cleaner	1
3942572	Element-Air Cleaner	1
3941150	Boot-Air Cleaner to Duct	1
3869954	Stud-Air Cleaner	2
219281	Nut-Air Cleaner	2
3886085	Gasket-Air Cleaner	2
3943271	Duct Asm.-Air Cleaner to Dash	1
9419322	Screw-Air Cleaner to Dash Duct	6
3916622	Tag-Carburetor Air Duct Instruction	1
3953864	Tube Asm.-Oil	1
3927768	Connector Assembly	1
3911029	Hose (Cut 2 pieces approximately 4 inches each)	1
3923260	Connector	1
3924544	Arrestor	1
124954	Nut	1
103376	Cotter Pin	1
3927732	Gasket	1



SUBJECT: CAMARO OPTION Z28 WITH 2 X 4  
CARBURETOR CONVERSION

TUNE-UP CHART

Engine	327 L-79	Z28 Base 302 Engine	Base 302 Engine with H.D. Service Cam	Base 302 Engine w/ H.D. Service Cam & 2X4 Carb. Unit
Horsepower	350	290	Not Available	NA
Compression	150	190	Not Available	NA
Spark Plug - Standard	AC44	AC43	AC43	AC42-1
Spark Plug - Cold	AC43	AC42-1 Comm.	AC42-1 Comm.	AC41
Spark Plug Gap	.035	.035	.035	.030
Point Dwell	28°-32°	28°-32°	Transistorized	Transistorized
Point Gap	.016 (Used) .019 (New)	.016 (Used) .019 (New)	Ignition	Ignition
Distributor Arm Spring Tension	19-23 Ounces	28-32 Ounces		
Condenser	.18-.23 Microfarad	.18-.23 Microfarad		
Timing Nominal (BTDC) Part No.	10° 1111196	4° 1111266 Early Prod. 1111467 Late Prod.	12° Initial 1111267	16° Initial 1111345
Fan Belt	75# (Used) 125# (New)	75# (Used) 125# (New)	75# (Used) 125# (New)	75# (Used) 125# (New)
Air Cleaner	Paper Element	Paper Element	Paper Element	Paper Element
Valve Inlet Lash Exhaust	Hydr. 1 Turn Hydr. 1 Turn	.030 .030	.022 (AM #3927140) .024	.022 .024
Idle Synchronized RPM Automatic	700 None	900 None	1000 None	1200 None
Fuel Pressure Lbs. Pump Volume	5-6 1/2 One Pint in 30-45 Sec.	5-6 1/2 One Pint in 30-45 Sec.	5-6 1/2 One Pint in 30-45 Sec.	5-6 1/2 One Pint in 30-45 Sec.
Compression Ratio	11.0:1	11.0:1	11.0:1	11.0:1
Crankcase Positive Ventilation	None	None	None	None
Closed Positive	12,000 Miles	12,000 Miles	12,000 Miles	NA