QUICK REFERENCE INDEX. To use, move either the hand or selection tool directly over the section you desire to reference. Simply click once with the mouse button and the manual will automatically jump to that section.

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DAVE GRAHAM
Auto Literature, Inc.
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INTRODUCTION

THIS 1969 INSTRUCTION MANUAL ILLUSTRATES THE OPERATIONS REQUIRED FOR THE FINAL ASSEMBLY OF THE VEHICLE. IT HAS BEEN DESIGNED TO EXPEDITE THE LATEST ASSEMBLY INFORMATION TO THE USER. IT IS IMPERATIVE THAT ADDITIONS AND REVISIONS BE INSERTED IN THEIR PROPER PLACES IMMEDIATELY AND THAT SUPERSEDED SHEETS BE REMOVED.


THE OPTION INDEX WILL INDICATE IF AN OPTION IS ILLUSTRATED OR NON-ILLUSTRATED. AN OPTION WILL BE ILLUSTRATED IF IT VARIES IN ASSEMBLY FROM REGULAR PRODUCTION OR NON-ILLUSTRATED IF IT ASSEMBLES THE SAME AS REGULAR PRODUCTION OR A RELATED OPTION.
QUICK REFERENCE INDEX: To use, move either the hand or selection tool directly over the section you desire to reference. Simply click once with the mouse button and the manual will automatically jump to that section.

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A1  Introduction
A2  General Index
A3  General Information
A4  General Information
A5  General Instructions
A6  General Instructions
A7  General Instructions
A8  Stapling Instructions
A9  Cowl & Dash Panel Hole
    Piercing
A10 Trim Heights
B1  Labels & Stickers
B2  Vehicle Identification Plate
B3  Vehicle Protect-O-Plate
C1  Shipping Protection
C2  Miscellaneous Shipping List
C3  Miscellaneous Shipping List
D1  Lubrication
D2  Lubrication
D3  Lubrication
D4  Cements & Sealers
D5  Cements & Sealers
D6  Cements & Sealers
D7  Cements & Sealers
D8  Fill Items, Gasoline & Miscellaneous
E1  Paint & Trim (Open)
F1  Publications (Open)
G1  Export Information (Open)

UPC 1  BODY
A. Dash Panel Area
B. Instrument Panel Area
C. Body Complete
D. Mounting
M. Heater

UPC 2  FRAME

UPC 3  FRONT SUSPENSION

UPC 4  REAR SUSPENSION
A. Drive Line
B. Suspension

UPC 5  BRAKES
A. Cylinder Mounting & Lever
B. Pipes
C. Parking

UPC 6  ENGINES
A. Belt Trains
B. Cooling Electrical & Mounting
C. Carburetion & Exhaust
D. Controls

UPC 7  TRANSMISSION
A. Column Mounting Controls
C. Clutch

UPC 8  FUEL & EXHAUST
A. Exhaust System
B. Fuel System

UPC 9  STEERING

UPC 10  WHEELS & TIRES

UPC 11-13  SHEET METAL-RADIATOR GRILLE
A. Inner Panels
B. Outer Panels

UPC 12  ELECTRICAL
A. Engine
B. Instrument Panel
C. Body
D. Diagrams

UPC 14  BUMPERS & MISCELLANEOUS
A. Front Bumpers
B. Rear Bumpers

OPTION INDEX
ASSEMBLY INSTRUCTIONS

MODELS

SHEETS DESIGNATED 12000 REPRESENT ALL MODELS RELEASED FOR PRODUCTION

SYMBOLS

1  INDICATES CROSS REFERENCING OF PART NUMBERS OR NOTES.

△  INDICATES TORQUE.

1  INDICATES A REVISION

△  INDICATES RPO PARTS THAT ARE INSTALLED THE SAME AS REGULAR PRODUCTION OR INSTALLED THE SAME EXCEPT AS ILLUSTRATED.

1a  INDICATES APPLIED MATERIALS-ITEMIZED IN UPC 0. NUMERAL REPRESENTS A CERTAIN MATERIAL; LETTER REPRESENTS USAGE.

1  INDICATES RELATED SHEETS THAT CONTAIN INFORMATION REQUIRED TO COMPLETE A CERTAIN INSTALLATION. THIS IS NOTED ABOVE THE SHEET NUMBER.

△  EXISTING ITEM(S) OR PART OF AN ASSEMBLY

---

GENERAL INFORMATION

CheatoTt Motor Division, GMC

UPC

DATE  SYM  REVISION RECORD  AUTH. DR CK

12000

A3

0

2-5491  SYMBOL ADDED

1 SHEET
ASSEMBLY INSTRUCTIONS
3940195
1969 CAMARO 12000 SERIES

QUANTITY

QUANTITY WHEN SHOWN, REPRESENTS FULL AMOUNT PER VEHICLE FOR USAGE INDICATED.
QUANTITY OF STAPLES REPRESENTS NUMBER REQUIRED PER PART.
QUANTITY OF LUBES, SEALER AND MISCELLANEOUS BULK ITEMS IS SHOWN AT POINT OF APPLICATION WHENEVER A MEASURABLE AMOUNT CAN PRACTICALLY BE DETERMINED.

MISCELLANEOUS SHIPPING LIST

PERTAINS TO LOOSE ITEMS SHIPPED WITH VEHICLE FROM ASSEMBLY PLANTS-ITEMIZED IN UPC 0.

ATTACHING PARTS

THE INSTALLATION OF ALL ATTACHING PARTS IS SHOWN IN DESIGN POSITION & SHOULD BE ADHERED TO WHEREVER POSSIBLE. BOLT, NUT ASSEMBLIES & STAPLES MAY BE INSTALLED FROM EITHER DIRECTION UNLESS OTHERWISE SPECIFIED. THE TORQUE SYMBOL IS SHOWN ADJACENT TO THE DRIVEN PART AND THE MATING THREADED FASTENER MUST NOT MOVE DURING THE APPLICATION OF THE SPECIFIED TORQUE.
IT IS RECOMMENDED THAT TORQUE PREVAILING LOCK NUTS BE DRIVEN WITH AIR STALL TOOLS AT SPEEDS SLOWER THAN 350 R.P.M. THIS WILL PREVENT POSSIBLE GALLING OR DAMAGE TO THE LOCKING FEATURES.

FLUID CARRYING PIPES

PIPES CARRYING FLUIDS SUCH AS GASOLINE, OIL, BRAKE FLUID, ETC., MUST BE FREE OF ALL INCLUSIONS PRIOR TO INSTALLATION.

CLEARANCE DIMENSIONS

DIMENSIONS SHOWN ARE NOMINAL UNLESS OTHERWISE SPECIFIED.

LUBRICANT GREASE

LUBRICATION OPERATIONS ON ALL AFFECTED PARTS (e.g. SWIVELS, RODS, BUSHINGS, BOLTS, OR SHAFTS) MUST BE ACCOMPLISHED PRIOR TO SUB-ASSEMBLY, EXCEPT FOR ITEMS INCORPORATING LUBRICATION FITTINGS.

BELT TENSION

ALL BELT TENSION SPECIFICATIONS ARE SHOWN IN UPC 6 ENGINE.

SELF DRILLING SCREWS (SD)

IT IS RECOMMENDED THAT SELF DRILLING SCREWS, DESIGNATED (SD), BE DRIVEN WITH AIR STALL TOOLS AT SPEEDS BETWEEN 2500-3000 RPM. (CAUTION) Operator pressure should not exceed 30 pounds as it will inhibit drilling efficiency.
NOTE! All cotter pins must be secured by spreading each leg away from the center-line of the pin not less than 45°.

NOTE Assemble all type "MB stamped nuts" with open end up.

CAUTION If nut is assembled with open end down, it will strip mating stud before proper installation torque is obtained.

NOTE All special retainers must be installed as shown to provide end load in direction of arrow.

NOTE Rivet attachment between plastic & metal must be upset on metal side.

NOTE When castellated nuts & cotter pins are used together, torque nut as specified & then tighten to next notch for insertion of cotter pin except when otherwise specified. Cotter pin may be installed in either position shown but must be tight to prevent rotation or looseness.

NOTE All non-hardened steel clips are to be clinched closed after wires, tubes or bowden cables are installed.

NOTE Lock washer must be positioned as shown to insure a proper ground.
On hose clamp installations where the pipe, nipple, tee, connector etc. has a bead, the hose clamp must be positioned directly beyond the bead. The hose must be assembled far enough to assure at least 1/8 hose protrusion beyond the clamp.

**Caution:** Clamp must not be located on top or radius of sealing bead.

On hose clamp installations where the pipe, tubes or nipples have no beads the following procedure should be followed.

On all exhaust pipe clamp installations locate centerline of clamp to end of slot in exhaust pipe as follows.

On hose clamp installations, where beaded hose nipples are short, the following procedure should be followed.

On hose clamp installations, where nipples up to and including 1/4 O.D. having no bead and are short as an integral part of a unit, the following procedure should be followed.
HEADLESS TUBULAR CLIP

Install headless tubular clip on emblem stud so that clip contacts emblem as shown at point A, then push into hole in panel.

TUBULAR CLIP

Install tubular clip in hole in panel so that retention barbs are engaged on back of panel, then push stud into clip until back of emblem contacts panel.

HEADER TOOL & NUT PERPENDICULAR TO PANEL FOR UPSET

UNDERSIDE OF NUT HEAD MUST BE FLUSH TO PANEL FOR COMPLETE 360° CONTACT WITH PANEL UPSET SHANK

HEADER TOOL PULL UP STUD TO EXTEND THRU NUT PRIOR TO UPSET TO AVOID DEFORMED OR STRIPPED THREADS.

RIVNUT TYPE PART INSTALLATION

NOTE: All special clips must be bottomed out on hose fittings to provide proper retention.

Hose Fitting

Sect. A-A

SPring CLIP INSTALLATION

GENERAL INSTRUCTIONS

CHEVROLET MOTOR DIVISION, GM

12000

A7

ADVANCE REVISION

UPC

O

1 SPRING CLIP ADDED 225030NA 14
IN ORDER TO INSURE QUALITY STITCHING IT IS ESSENTIAL THAT THE WIRE DRAW (AMOUNT OF WIRE FED FOR EACH STITCH) BE THE CORRECT LENGTH FOR THE WORK TO BE STITCHED. THE LENGTH OF THE WIRE DRAW IS DEPENDENT UPON THE CROWN SIZE OF THE STAPLE TO BE USED AND THE THICKNESS OF THE WORK TO BE STITCHED.

AS A GENERAL RULE, STITCHES HAVING A CROWN SIZE WITHIN THE RANGE OF .175 THROUGH .50 SHOULD HAVE SUFFICIENT WIRE DRAW SO THAT THE CLINCHED LEGS OF THE STAPLE JUST ABOUT MEET. (SEE FIG. 1). FOR STITCHES IN THIS RANGE OF CROWN SIZES THE CORRECT WIRE DRAW WOULD BE: TWICE THE CROWN SIZE PLUS TWICE THE THICKNESS OF WORK TO BE STITCHED OR, WHEN REDUCED TO A FORMULA: WIRE DRAW = 2C + 2T.

FOR EXAMPLE: IF CROWN SIZE OF STITCH IS 1/8" AND THE THICKNESS OF WORK TO BE STITCHED IS 3/16", THE CORRECT WIRE DRAW WOULD BE 1/8" PLUS 3 TIMES 3/16" (OR 3/8"), EQUALS 1-1/16" WIRE DRAW.

STITCHES HAVING CROWN SIZES GREATER THAN .50 SHOULD HAVE SUFFICIENT WIRE DRAW SO THAT EACH CLINCHED LEG OF THE STAPLE IS 3/16" IN LENGTH. (SEE FIG. 2). FOR STITCHES IN THIS RANGE OF CROWN SIZES THE CORRECT WIRE DRAW WOULD BE: CROWN SIZE PLUS 3 TIMES THE THICKNESS OF WORK TO BE STITCHED PLUS 3.5", OR WHEN REDUCED TO A FORMULA: WIRE DRAW = C + 3T + 3.5.

FOR EXAMPLE: IF CROWN SIZE OF STITCH IS 1-1/8" AND THE THICKNESS OF WORK TO BE STITCHED IS 1.1", THE CORRECT WIRE DRAW WOULD BE 1-1/8" PLUS 3 TIMES 1.1", PLUS 3.5", EQUALS 2-1/2" WIRE DRAW.

THE ABOVE FORMULAS DO NOT TAKE INTO CONSIDERATION THE TYPE OF MATERIAL TO BE STITCHED. SOME MATERIALS MIGHT REQUIRE STAPLE LEG LENGTHS DIFFERENT THAN THOSE SHOWN IN FIGS. 1 & 2. HOWEVER, AS A GENERAL RULE THE FORMULA GIVEN IN FIG. 1 CAN BE USED FOR STITCHES HAVING CROWN SIZE WITHIN THE RANGE OF .175 THROUGH .50, WHILE THE FORMULA GIVEN IN FIG. 2 CAN BE USED FOR STITCHES HAVING CROWN SIZES GREATER THAN .50.
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1. RPO C48 .141/.144 DIA - 3 holes
   - Use cover as template
   - A. 6 holes at existing dimples
   - B. .38 DIA hole at existing dimple
   - C. .38 DIA hole at location shown

2. RPO U63 .185/.189 DIA - 2 holes
   - V-8 ENG at existing dimple
   - A. 1 hole V-8 ENG at location shown
   - B. 1 hole L-6 ENG at existing dimple

3. RPO U17 .50 -.00 -.01 DIA hole at existing dimple

4. UPC 6 .185 DIA hole at existing dimple
   - A. .50 ±.02 DIA hole at existing dimple

5. UPC 1 .147/.151 DIA hole L-6 ENG at existing dimple

6. RPO C06 .125/.129 DIA - 2 holes at existing dimple

7. RPO Z22 1.00 DIA hole at existing dimple

8. RPO M20 .920/.940 DIA hole at existing dimple
   - A. 1.00 DIA hole at existing dimple
   - B. .326/.340 DIA - 2 holes at existing dimple

9. RPO C60 1.00 dia hole at existing dimple.

10. RPO V75 .375 dia hole at location shown.

COWL & DASH PANEL HOLE PIERCING

- CHEVROLET MOTOR DIVISION, GMC

<table>
<thead>
<tr>
<th>ITEM</th>
<th>COWL &amp; DASH PANEL HOLE PIERCING</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>UPC 0</td>
</tr>
<tr>
<td>A9</td>
<td>UPC A9</td>
</tr>
</tbody>
</table>
**ASSEMBLY INSTRUCTIONS**

**3940195**

**1969 CAMARO 12000 SERIES**

**CENTER OF LOWER CONTROL ARM BOLT END**

**LOWER INBOARD EDGE OF BALL SEAT**

**VEHICLE HEIGHTS**

The above dimensions shown apply to regular prod. or any combination of RPO build.

[NOTE] Pull vehicle up 3 or more times, allow to settle, then measure "D", "J", "K" & "Z".

**LOAD CONDITIONS**

Shipping weight—vehicle as built to production parts list specifications including coolant to capacity and two (2) gallons of gasoline.

Curb weight—shipping weight plus gasoline to capacity.

**Recommended Tire Pressure**

Conv. & Coupe—24 lbs front & 24 lbs ± 2 rear.
**ASSEMBLY INSTRUCTIONS**

**3940195**

1. **ADHESIVE .0077 GAL.**
2. **CHART-TIRE PRESSURE STICKER**
   - NOTE: Surface must be clean. Locate as shown using gummed back to adhere.
3. **CHART-Exhaust emission engine tune up.**
4. **LABEL-CANADIAN EXPORT ONLY**
   - Surface must be clean. Locate as shown using gummed back to adhere.

**1969 CAMARO 12000 SERIES**

5. **CHART-SUN VISOR SLEEVE L.D.**
6. **LABEL-VEHICLE CERTIFICATION**
7. **OVERLAY-VEH CERT LABEL**
8. **SLEEVE-IN TRANSIT CARD L.D.**

**NOTE:**
- Tune-up sticker must be readable from front of vehicle.
- Position so that label may be read from right side of vehicle.
- With visor in up position, install sleeve with part number in lower right hand corner visible to driver.

**PRICE LABEL LOCATION**
- Position label at extreme rear edge of left door glass with label maintaining vertical position.

**A**
- Letter in block capitals and numerals not less than 0.32 in. high at assembly plant. (W1 Pre-Type preferred)

**B**
- Identification number must be same as vehicle identification number and rating plate

**C**
- Current month and year in numerals.

**MFD BY GENERAL MOTORS CORP**

- This vehicle conforms to all applicable federal motor vehicle safety standards in effect on the date of manufacture shown above.

**124379 F 500001**

**LABELS & STICKERS**

- **O 33-69**
- **B 1**
- **ITEM 8 ADDED**
- **VIEW C ADDED**
- **3.49**
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

GUARD-DFII
-Model Ysyr
• Division Id

ENGINE & TRANSMISSION VEHICLE IDENTIFICATION NUMBER SPECS
(For location see engine & transmission UPC or RPO)

VIN Sequential Serial Number
Assembly Plant Designation
Model Year
Division identification No. i

INSTRUMENT PANEL

<table>
<thead>
<tr>
<th>IDENTIFICATION NO. PLATE, V.L.N. SPECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>12000</td>
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<tr>
<td>0</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>UPC</th>
<th>DATE</th>
<th>ITEM</th>
<th>REVISED</th>
<th>REPLACED</th>
</tr>
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<tbody>
<tr>
<td>O</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
PLATE—After plate is stamped to adhesive backed portion of owners protection plan folder.

REFERENCE GRID FOR DATA LOCATION

Stamp protect-o-plate with No. 35 size type with data at location noted below. Stamped side of plate must rear normally (not reversed or mirror image). Data or more than one type character length will start at indicated location and continue toward right for appropriate number of characters. Plate will be 33 columns long & 9 rows deep when option No. 28 size type is used.

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DATA TO BE STAMPED</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-15</td>
<td>VEHICLE SERIAL NUMBER</td>
</tr>
<tr>
<td>***A-29</td>
<td>CARBURETOR SOURCE</td>
</tr>
<tr>
<td>B-1</td>
<td>ENGINE SOURCE, DATE &amp; TYPE CODE</td>
</tr>
<tr>
<td>B-15</td>
<td>REAR AXLE TYPE, DATE &amp; SOURCE CODE</td>
</tr>
<tr>
<td>#B-29</td>
<td>MONTH PRODUCED</td>
</tr>
<tr>
<td>C-1</td>
<td>CHEVROLET MANUFACTURED USE SOURCE &amp; DATE. HYDRA-MATIC: USE CODING STAMPED ON UNIT PLATE EXCEPT THAT THE LARGE &quot;C&quot; PREFIX &amp; THE LARGE SINGLE ALPHA SUFFIX ARE TO BE DROPPED, WARNER GEAR: USE CODE &quot;W&quot; ONLY, WITH NO DATE CODE.</td>
</tr>
<tr>
<td>*C-15</td>
<td>POWER STEERING CODE</td>
</tr>
<tr>
<td>*C-16</td>
<td>POWER BRAKE CODE</td>
</tr>
<tr>
<td>*C-17</td>
<td>RADIO CODE</td>
</tr>
<tr>
<td>*C-18</td>
<td>DISC BRAKE</td>
</tr>
<tr>
<td>*C-19</td>
<td>AIR CONDITIONING CODE</td>
</tr>
<tr>
<td>*C-20</td>
<td>POWER WINDOW CODE</td>
</tr>
<tr>
<td>*C-21</td>
<td>POWER SEAT CODE</td>
</tr>
<tr>
<td>C-29</td>
<td>CHEVROLET &quot;BOW TIE&quot; SYMBOL</td>
</tr>
</tbody>
</table>

*FOR OTHER PLATE DETAILS SEE DSSM NO. 6.

CUSTOMER VEHICLE PROTECT-O-PLATE
Install front seat protector cover over headrest & seat.

Used in vehicles with carpeting only.
### Attachment Unit-License Plate
- **Part No.**: 395513
- **Name**: ATTACHMENT UNIT-LICENSE PLATE
- **Ref.**: ALL
- **Models**: ALL
- **Ship.**: 1

### Folder - New Vehicle Warranty and Protection Plan
- **Part No.**: 395560
- **Name**: FOLDER - NEW VEHICLE WARRANTY AND PROTECTION PLAN
- **Ref.**: ALL
- **Models**: ALL
- **Ship.**: 1

### Envelope - Owners Info Booklet
- **Part No.**: 3950779
- **Name**: ENVELOPE-OWNERS INFO BOOKLET
- **Ref.**: ALL
- **Models**: ALL
- **Ship.**: 1

#### Manual - Owners
- **Part No.**: 395545
- **Name**: MANUAL-OWNERS
- **Ref.**: ALL
- **Models**: ALL
- **Ship.**: 1

#### Manual - Owners
- **Part No.**: 732970
- **Name**: MANUAL-OWNERS
- **Ref.**: CANADA
- **Models**: ALL
- **Ship.**: 1

#### Card - Customer Vehicle Ident Plate
- **Part No.**: 733758
- **Name**: CARD-CUSTOMER VEHICLE IDENT PLATE
- **Ref.**: CANADA
- **Models**: ALL
- **Ship.**: 1

#### Cartridge Unit - Stereo Tape Player
- **Part No.**: 3951207
- **Name**: CARTRIDGE UNIT-STERO TAPE PLAYER
- **Ref.**: RPO U57
- **Models**: ALL
- **Ship.**: 1

#### Instruction Sheet - Wheel Trim Ring
- **Part No.**: 3913832
- **Name**: INSTRUCTION SHEET-WHEEL TRIM RING
- **Ref.**: RPOJL8-J52-P06-P28-ZJ7
- **Models**: ALL
- **Ship.**: 1

#### Instruction Sheet - Wheel Trim Ring
- **Part No.**: 3884685
- **Name**: INSTRUCTION SHEET-WHEEL TRIM RING
- **Ref.**: RPO U69
- **Models**: ALL
- **Ship.**: 1

#### Instruction Sheet - Radio Operating
- **Part No.**: 3791595
- **Name**: INSTRUCTION SHEET-RADIO OPERATING
- **Ref.**: RPO P02
- **Models**: ALL
- **Ship.**: 1

#### Extension - Tire Valve Stem
- **Part No.**: 9422212
- **Name**: EXTENSION-TIRE VALVE STEM
- **Ref.**: RPO P02
- **Models**: ALL
- **Ship.**: 1

#### Extension - Tire Valve Stem
- **Part No.**: 9417730
- **Name**: EXTENSION-TIRE VALVE STEM
- **Ref.**: RPO N95-P01
- **Models**: ALL
- **Ship.**: 1

#### Extension - Tire Valve Stem
- **Part No.**: 9417745
- **Name**: EXTENSION-TIRE VALVE STEM
- **Ref.**: RPO N96
- **Models**: ALL
- **Ship.**: 1

#### Extension - Tire Valve Stem
- **Part No.**: 9417466
- **Name**: EXTENSION-TIRE VALVE STEM
- **Ref.**: RPO PA2
- **Models**: ALL
- **Ship.**: 1

#### Instruction - Space Saver Inflation
- **Part No.**: 3934186
- **Name**: INSTRUCTION-SPACE SAVER INFLATION
- **Ref.**: CIGARETTE LIGHTER
- **Models**: ALL
- **Ship.**: 1

#### Ref. - Cigarette Lighter
- **Part No.**: 3927345
- **Name**: CIGARETTE LIGHTER
- **Ref.**: ALL
- **Models**: ALL
- **Ship.**: 1

#### Extra Keys (Place in Envelope)
- **Part No.**: 3956990
- **Name**: ENVELOPE-KEY
- **Ref.**: ALL
- **Models**: ALL
- **Ship.**: 1

#### Tag - Speed Cruise Cont Instruction
- **Part No.**: 3927345
- **Name**: TAG-SPEED CRUISE CONT INSTRUCTION
- **Ref.**: RPO K30
- **Models**: ALL
- **Ship.**: 1

---

1 - Place in instrument panel compartment.

4 - Furnished by Fisher Body within each body.

13 - Attach Customer Vehicle Identification Plate to card. REF: UPC 0 Sheet B3.
### ASSEMBLY INSTRUCTIONS

**1969 CAMARO 12000 SERIES**

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>NAME</th>
<th>REF.</th>
<th>MODELS</th>
<th>SHPG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3934224</td>
<td>ANTENNA ROD &amp; MAST ASM-FRONT</td>
<td>RPO U63 &amp; U73</td>
<td>ALL</td>
<td>2</td>
</tr>
<tr>
<td>3875700</td>
<td>ANTENNA ROD &amp; MAST ASM-FRT (AM/FM)</td>
<td>RPO U69</td>
<td>ALL</td>
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<tr>
<td>3926790</td>
<td>FLOOR MAT CHART-FRONT</td>
<td>RPO B37</td>
<td>ALL</td>
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<tr>
<td>3927629</td>
<td>FLOOR MAT CHART-REAR</td>
<td>RPO B37</td>
<td>ALL</td>
<td>2</td>
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<tr>
<td>3916432</td>
<td>CAP UNIT-HUB</td>
<td>RPO P28</td>
<td>*</td>
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</tr>
<tr>
<td>3925800</td>
<td>CAP UNIT-HUB</td>
<td>RPO N95</td>
<td>ALL</td>
<td>2-3</td>
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<tr>
<td>3963433</td>
<td>COVER UNIT-WHEEL TRIM</td>
<td>RPO N96</td>
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<td>3963435</td>
<td>COVER UNIT-WHEEL TRIM</td>
<td>RPO P62</td>
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<tr>
<td>3923559</td>
<td>COVER UNIT-WHEEL TRIM</td>
<td>RPO P02</td>
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<tr>
<td>3934891</td>
<td>RING UNIT-WHEEL TRIM</td>
<td>RPO P28</td>
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<tr>
<td>3901702</td>
<td>RING UNIT-WHEEL TRIM</td>
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<td>3901703</td>
<td>RING UNIT-WHEEL TRIM</td>
<td>RPO P28</td>
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<tr>
<td>3956775</td>
<td>RING UNIT-WHEEL TRIM</td>
<td>RPO P06 &amp; ZJ7</td>
<td>ALL</td>
<td>2-4</td>
</tr>
<tr>
<td><strong>5</strong></td>
<td>FLOOR &amp; TOE PAN MAT</td>
<td>RPO P02</td>
<td>*</td>
<td>2-3</td>
</tr>
</tbody>
</table>

2 - Place in luggage compartment.

3 - Place (2) wheel covers & ornaments (Back to back) in bag. Fold over end of bag (1) inch min. Use bag received from vendor for remaining (2) hub caps.

4 - Furnished by Fisher Body within each body.

*See parts list for additional information*
### Assembly Instructions

**Chevrolet Camaro 1969 12000 Series**

#### Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>9985164</td>
<td>LUBRICANT-GREASE</td>
</tr>
<tr>
<td>9985158</td>
<td>FLUID-AUTO TRANS</td>
</tr>
<tr>
<td>9985010</td>
<td>(OPT WITH N40 ONLY)</td>
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#### Usage

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<tr>
<td>41a</td>
<td>TRANS CONTROL LEVER-BALL &amp; FULCRUM</td>
<td>7</td>
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<tr>
<td>1b</td>
<td>BRAKE PEDAL BUSHING, SHAFT OR PINS</td>
<td>5-M35</td>
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<tr>
<td>1c</td>
<td>BRAKE PEDAL HUB</td>
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<tr>
<td>1d</td>
<td>REAR CABLE AT EQUALIZER</td>
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<tr>
<td>1e</td>
<td>BRUSH LIGHTLY ON O.D. OF PINS &amp; CONN LVR ASSEMBLIES TO PUSH ROD &amp; CYL ASM</td>
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<tr>
<td>1f</td>
<td>CLUTCH PEDAL PUSH RODS-both ENDS, PEDAL SHAFT, &amp; PULL BACK SPRING</td>
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<tr>
<td>1g</td>
<td>BETWEEN SUPPORT &amp; TRANS CONT SHIFTER LEVER RETAINER AT CENTER PIVOT</td>
<td>M11</td>
<td>A</td>
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<tr>
<td>1h</td>
<td>HEAD LAMP AIMING PADS</td>
<td>12</td>
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<tr>
<td>1i</td>
<td>HOOD BUMPERS, AT FENDER OPENING</td>
<td>11-13</td>
<td>A</td>
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<tr>
<td>1k</td>
<td>HOOD LOCK BOLT</td>
<td>11-13</td>
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<tr>
<td>1m</td>
<td>TRANS CONTROL RODS-both ENDS</td>
<td>M35-M38-M40</td>
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<td>1n</td>
<td>TRANS THROTTLE VALVE CONTROL RODS</td>
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<td>SHIFTER TANG OF CONTROL LEVER</td>
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<td>1p</td>
<td>CARB BALL STUD BEFORE INSTALLING 'SNAP ON' ACCELERATOR CABLE</td>
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<tr>
<td>2a</td>
<td>TRANS-THRU FILLER NECK ON RIGHT SIDE</td>
<td>M35-M38-M40</td>
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<td>2b</td>
<td>OIL FILLER TUBE &quot;O&quot; RING SEAL-WET SEAL PRIOR TO INSTALLING FILLER TUBE</td>
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<td>PROP SHAFT YOKE-TRANS END ON INSIDE &amp; OUTSIDE</td>
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<tr>
<td>2d</td>
<td>BODY DAMPENER &amp; BRACKET</td>
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<td>2e</td>
<td>HYDRAULIC STEERING PUMP</td>
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**Chevrolet Motor Division, GMC**

| LUBICATION | UPC | REV/P | REV/0 | REV/S | REV/M | REV/0 | REV/S | REV/M | REV/0 | REV/S | REV/M | REV/0 | REV/S | REV/M | REV/0 | REV/S | REV/M | REV/0 | REV/S | REV/M | REV/0 | REV/S | REV/M |
|------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 12000       | D1  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
# ASSEMBLY INSTRUCTIONS

## PARTS

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<td>4e FUEL PUMP PUSH ROD</td>
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<td>TRANS 3-4 SPEED THRU HOLE IN CASE</td>
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<td>SOAK WASHER FOR BATTERY POS TERMINAL</td>
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<td>9985013 FLUID-HYD BRAKE</td>
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<td>8b HYDRAULIC BRAKE SYSTEM-VAC PWR BRAKE</td>
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<td>9985011 GREASE-GRAPHITE</td>
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<td>9b CLUTCH RELEASE BEARING COLLAR-COAT O.D. GROOVE LIGHTLY &amp; FILL I.D. GROOVE</td>
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<td>9985005 LUBRICANT-SOAP-Dilute with 4 to 8 parts water.</td>
<td>10a TO ASSEMBLE TIRE &amp; VALVE STEM TO RIM &amp; FOR MISC APPLICATIONS TO FACILITATE ASM</td>
<td>10-C60</td>
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<tr>
<td>9985006 OIL REFRIGERANT</td>
<td>14a COAT &quot;O&quot; RING SEAL AT A/C COMPRESSOR FITTING ASM</td>
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<td>9985014 OIL-RUST PROOFING-Dilute with 9 parts water.</td>
<td>15a SPRAY ENG COMPT &amp; ALL PARTS AFTER FINAL ASM, EXC UNDER SURFACE OF HOOD</td>
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<td>9985035 LUBRICANT-HYPOID</td>
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<td>9985196 RUST PREVENTIVE</td>
<td>32a SPRAY OR BRUSH ON EACH BATTERY TERM AFTER CABLE HAS BEEN ATTACHED</td>
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<td>9985169 LUBRICANT-HYPOID</td>
<td>33a REAR AXLE-THRU FILLER HOLE &amp; LEVEL PLUG IN HOUSING</td>
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<td>3840733</td>
<td>CEMENT-PLASTIC SEAM</td>
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<td>50a</td>
<td>USED TO SEAL DIMMER SWITCH ASM SCREW</td>
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<td>WSW SPRAY NOZZLE ATTACHMENT</td>
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<td>9981098</td>
<td>ADHESIVE-NEOPRENE SOLVENT</td>
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<td>51a</td>
<td>SEAL TO PLENUM PLATE</td>
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<td>51b</td>
<td>FRONT SEAL TO PLENUM VALVE PLATE</td>
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<td>REAR SEAL TO PLENUM VALVE PLATE</td>
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<td>HTR ASM SEAL TO DA PNL CORE PIPE HOLES</td>
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<td>51e</td>
<td>GASKET TO SELECTOR</td>
<td>C60</td>
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<tr>
<td>51f</td>
<td>SEAL TO CORE PIPE HOLES</td>
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<td>51g</td>
<td>GASKET TO DUCT ASM</td>
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<td>51h</td>
<td>COWL TOP VENT GRILLE SEAL</td>
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<tr>
<td>51a</td>
<td>SEAL TO EVAPORATOR &amp; BLOWER</td>
<td>C60</td>
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<tr>
<td>51k</td>
<td>CLUTCH HOLE PEDAL COVER TO SEAL</td>
<td>M35</td>
<td>A</td>
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<tr>
<td>51p</td>
<td>PARKING BRAKE COVER TO PEDAL PAD</td>
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<tr>
<td>51l</td>
<td>CAR HTR &amp; A/C BLO MTR RES GSKT</td>
<td>C60</td>
<td>E</td>
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<tr>
<td>51o</td>
<td>SEAL TO A/C CTR OUTLET DUCT REAR</td>
<td>C60</td>
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<td>PART</td>
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<td>UPC</td>
<td>SUB. -GRP.</td>
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| 9980664 SEALER | CLUTCH HOLD SEAL (M35) \[53a\]  
SPEEDO CABLE GROMMET IN DASH (12) \[53b\]  
FUSE PANEL ASM TO DASH (12) \[53c\]  
ACCEL PEDAL BRACKET TO DASH & BOLTS (6) \[53d\]  
DASH MAT RETAINERS (1) \[53e\]  
STRG COLUMN LOWER MTG TO DASH (9) \[53f\]  
HEATER BLOWER & INLET ASM TO DASH (1) \[53g\]  
EVAP BLOWER ASM TO DASH (C60) \[53h\]  
A. C. HARNESS GROMMET TO DASH (C60) \[53j\]  
A. C. VACUUM HOSE GROMMET TO DASH (C60) \[53k\]  
PARK. BRAKE HOLES IN DASH (5) \[53i\]  
VACUUM TANK-SCREWS TO DASH (C60) \[53n\]  
VACUUM HOSE TO DASH (V75) \[53p\]  
RADIO GROUND STRAPS \[53q\]  
BRAKE MASTER CYLINDER \[53r\]  
L-4 & L-6 CYL ACCEL CABLE GROMMET \[53s\]  
OIL LINE GROMMET TO DASH \[53t\]  
HEATER PIPES \[53u\]  
HEATER PIPES SEAL CUTOUT \[53v\]  
PARK. BRAKE CABLE GROMMET AT DASH \[53w\]  
SPEEDO CABLE HOLE PLUG \[53x\]  
BETWEEN BLOWER INLET ASM & DASH PNL \[55a\]  
BETWEEN BLOWER & EVAPORATOR ASM & DASH PANEL \[55c\]                                                                                     |     | A          |
<p>| 9985059 SEALER- BLACK PUMPABLE | UNDERSIDE OF REAR HALF OF SKIRT [58a]                                                                                                                                            | 11-13 | B          |
| 9981300 UNDERBODY- PROTECTIVE COATING | PRICE LABEL STICKER TO QUARTER GLASS [59a]                                                                                                                   | 0    | B          |
| 3764800 ADHESIVE- WATER REMOVEABLE |                                                                                                                                   | 0    | B          |</p>
<table>
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<tr>
<td>3766159 CEMENT PLASTIC SEAM</td>
<td>SEAL SHOCK ABSORBER OPENING IN U/BODY</td>
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<tr>
<td>3851970 CEMENT-PLASTIC SEAM</td>
<td>BUMPER GUARD BRACKET TO BODY</td>
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<td>USED TO SEAL SPEEDO FLEX SHAFT CLIP HOLES</td>
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<td>REAR BRAKE HOSE BRKT SCREWS</td>
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<td>A</td>
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<tr>
<td>3857030 CEMENT-PLASTIC SEAM</td>
<td>BODY BRKT &amp; DAMPENER RR MTG HOLES</td>
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<tr>
<td>3859672 ADHESIVE</td>
<td>USED TO ATTACH GAS TANK ANTI-SQUEAK</td>
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<tr>
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<td>USED TO ATTACH GAS TANK INSULATOR</td>
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<tr>
<td>3899878 CEMENT-PLASTIC SEAM</td>
<td>USED TO CEMENT CAR HTR LWR HOLE CVR</td>
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<tr>
<td>9981041 SEALER-COMPOUND</td>
<td>USED TO SEAL CAR HTR UPR HOLE COVER</td>
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<tr>
<td>9981074 SEALING COMPOUND</td>
<td>SEAT SEPARATOR COMP-GROUND WIRE SCREW HOLE</td>
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<tr>
<td>9985051 SEALER</td>
<td>USED AS ADHESIVE BETWEEN INNER &amp; OUTER HEADLAMP COVERS</td>
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# Chevrolet Motor Division, GMC

## Cements & Sealers

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<th>UPC</th>
<th>Sub.-Grp.</th>
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<tr>
<td>9985000</td>
<td>Sealing Compound: To seal body dampener &amp; bracket plug threads</td>
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<tr>
<td>9985020</td>
<td>Sealer-Grease: Used to seal exhaust pipe clamp joints</td>
<td>8-N10</td>
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<tr>
<td>9985105</td>
<td>Adhesive-Rubber &amp; Water Base: Used to adhere caution sticker to rear compt lid on sedans or to rear quarter panel on wagons</td>
<td>G80</td>
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## Assembly Instructions

1. **Sealing Compound (9985000)**: Used to seal body dampener & bracket plug threads.
2. **Sealer-Grease (9985020)**: Used to seal exhaust pipe clamp joints.
3. **Adhesive-Rubber & Water Base (9985105)**: Used to adhere caution sticker to rear compt lid on sedans or to rear quarter panel on wagons.
<table>
<thead>
<tr>
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<tr>
<td>9985012 ANTI FREEZE</td>
<td>COOLING SYSTEM</td>
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<td>(ETHYLENE GLYCOL)</td>
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<tr>
<td>9985037 GASOLINE OPT</td>
<td>THRU GAS TANK FILLER NECK ASM</td>
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<td>9985015 OPT</td>
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<tr>
<td>9985129 SOLVENT</td>
<td>TO BE PLACED IN WINDSHIELD WASHER JAR</td>
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<tr>
<td>9985137 FLUX</td>
<td>GAS TANK FILLER NECK</td>
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<tr>
<td>9985166 WAX-LIQUID OPT</td>
<td>COAT ALL EXTERIOR HORIZONTAL PAINTED SURFACE</td>
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<td>9985167 OPT</td>
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<tr>
<td>1163105 INSULATOR OPT</td>
<td>PLACE IN RADIATOR FILLER NECK</td>
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<td>9985040 OPT</td>
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<td>9985016 REFRI-GERANT</td>
<td>AIR CONDITIONING SYSTEM</td>
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**CHEVROLET MOTOR DIVISION, GMC**

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Dwg 3-20
Date 6-1-429
ASSEMBLY INSTRUCTIONS

3940195

A1 CONTENTS
A2 W'S WIPER MOTOR ASM & LINKAGE
A3 W'S WIPER BLADES & VENT GRILLE
A4 W/S WASHER JAR
A5 W/S WASHER NOZZLE & HOSE ROUTING
A6 DASH-MAT
A7 FRONT OF DASH SEALING
B1 INSTRUMENT PANEL COMPARTMENT
B2 INSTRUMENT PANEL PAD ASM & W/S WIPER SWITCH ASM
B3 ASH TRAY, RADIO CONTROL HOLE COVER & REAR VIEW MIRROR
B4 INST PANEL MOLDING & COMPT DOOR
B5 UPPER LEVEL VENTILATION

1969 CAMARO 12000 SERIES

C1 BODY SILL MOLDINGS
C2 OUTSIDE REAR VIEW MIRROR
C3 FRONT CARPETS
C4 FLOOR PANEL REINF
D1 BODY MOUNTING
M1 HEATER DEFROSTER OUTLETS
M2 HEATER & DEFROSTER ASM
M3 HEATER HOSES
M4 HEATER CONTROL CABLES
M5 HEATER CONTROL ASM

Part furnished by Fisher Body & installed by Chevrolet.
NOTE Marks on crank arm must coincide with marks on cover within 5° for park position.
1. 3891610 GRILLE-COWL TOP VENT
2. 9421479 SCREW
3. 3891661 SEAL
4. 51h CEMENT
   10 oz per job

5. 3888296 BLADE ASM
6. 3916687 ROD ASM-CONVERTIBLE
7. 3916688 OPT
8. 3916689 COUPE
9. 3916690 OPT
10. 4874119 PLUG

11. 71.4874119 PLUG

12. 10-15 LBS. IN.

13. [Diagram of windshield wiper blades and vent grille]
SOLVENT - As req'd - To protect to minus 20° F. per instructions furnished by facilities & planning dept.

30 - 40 LBS IN

1. CAP
2. JAR
3. SCREW
4. SOLENT

RADIATOR SUPPORT

WINDSHIELD WASHER JAR

UPC
DATE
SYN
REVISION RECORD
ALTH. DR. CK
1 7/568 1 J.D. 1 DOCUMENTATION ADDED 1969 10 1
A4 12000 2 TORQUE WAS 15-20 LBS 10/1 22 10/4
1 SHEET 1
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3812821 HOSE - L.H.
2. 447143 SCREW
3. 3886973 NOZZLE ASM

NOTE: Bend end of nozzle to adjust stream to 4 inch target area.

- WINDSHIELD WASHER NOZZLE & HOSE ROUTING
- VENT GRILLE
- WATER STREAM
- TARGET AREA
- 15.50 INCHES (APPROX)
**ASSEMBLY INSTRUCTIONS**

**1969 CAMARO 12000 SERIES**

1. **3939609** COMPONENT ASM
2. **3939600** COMPARTMENT ASM
3. **9423663** OPT STAPLE 10 PLACES
4. **9985028** STAPLE WIRE-10 INCHES (10 PLACES)
5. **3765243** BUMPER
6. **9421851** SCREW ASM
7. **9421851** STRIKER

---

**VIEW A**

---

**INSTRUMENT PANEL**

**COMPARTMENT**

1. **10-15 LBS. IN.**

---

**B1**

---
Grounding strap must be installed over windshield wiper switch and under the attaching screw as shown.

CAUTION
NOTE: Short end to top of car with Ball Stud Arm positioned as shown.

10 - 15 LBS IN.
10 - 20 LBS IN.
40 - 50 LBS IN.
**ASSEMBLY INSTRUCTIONS**

**3940195**

1. 4566397 BUMPER
2. 3939659 DOOR ASM
3. 3916696 CASE ASM
4. 4416740 SPL WASHER
5. 3922831 ESCUTCHEON

**1969 CAMARO 12000 SERIES**

6. 9420372 SCREW ASM
7. 3950003 EMBLEM
8. 9419751 NUT

---

**KNOB & KEY SET ASM (FISHER ECOY)**

**O6 ± .04 CONSTANT AROUND PERIMETER**

**MUST BE FLUSH ±.04**

---

**CHEVROLET MOTOR DIVISION, GMC**

**INSTRUMENT PANEL MOLDING & COMPARTMENT DOOR**

**1,2000**

**UPC**

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ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. SEAL
   2. SCREW ASM
   3. HOUSING
   4. SPACER
   5. DEFLECTOR
   6. SEAL
   7. NUT
   8. SCREW
   9. SPACER
  10. OUTLET R.H.
  11. HOSE

NOTE: Install seal around male portion of upper level vent duct.

LEFT SIDE

15 - 25 LBS IN.
20 - 30 LBS IN.

UPPER LEVEL VENTILATION

12000

B 5

1

DATE REL 4-29 DF

L- 87739 L-

76
1 \( \text{SCREW} \) 3 \( \text{SCREW} \) 3 \( \text{SCREW} \) 4 \( \text{SCREW} \) 3 \( \text{SCREW} \) 4 \( \text{SCREW} \) 3 \( \text{SCREW} \) 4 \( \text{SCREW} \)
ASSEMBLY INSTRUCTIONS

3914753 MIRROR ASM.
3821961 SCREW
9421495 SCREW ASM.

3953067 BRACKET
3927398 GASKET

10 - 15 LBS IN.
23 - 33 LBS IN.

Position reinforcement of mirror behind front tab of bracket.

Front Tab

NOTE: Position reinforcement of mirror behind front tab of bracket.

OUTSIDE REAR VIEW MIRROR

12000

Dwg 4-25 Ref C2 L-80051 L-
Date Rel 5-1

UPC
DATE SYM
REVISION RECORD
AUTH DR CF

1
1
1

95318 RH
22930 AC

1 2 3 4
1 2 3 4

WAS 3874252 BRACKET
DOCUMENTATION REMOVED
TORQUE WAS 10-18 LBS. IN
SCREW ASM. DWG. REVISED
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1. 9416208 SCREW
2. PART FURNISHED BY FISHER BODY & INSTALLED BY CHEVROLET.
3. 7644780 PLATE

NOTE: Do not loosen kick panel, tuck mat under kick pad & sill plate.

PARKING BRAKE CABLE
DIMMER SWITCH
ALL FLOOR SHIFTS (EXCEPT CONSOLE)
PROTECTIVE COVER (SEE UPC O)

15-20 LBS IN.

FRONT CARPETS

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<th>MODEL</th>
<th>4-29</th>
<th>REF: C3</th>
<th>L-</th>
<th>L-</th>
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DATE REV 5-1

SHEET 1

39
Residual torque after roll test to be 60 lbs. ft. minimum.

NOTE Typical section cushion asm. to cushion.
13 - 18 LBS IN.
15 - 20 LBS IN.

HEATER DEFROSTER OUTLETS

1

12000

MT

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ASSEMBLY INSTRUCTIONS

9419303 SCREW
3929052 RESISTOR ASM.
3016907 HEATER & DEFROSTER ASM.
3929024 GASKET
55a SEALING-.03 GAL.
3014734 BLOWER & INLET ASM.
3868762 SPL. WASHER

9419845 NUT-Tighten nut to the specified installation torque. The residual torque on nut must register a minimum torque of 10 lbs. in. after 24 hours.

9780719 SCREW ASM.
53u SEALING .30 OZ

NOTE At time of application, sealer bead must be .38 dia. minimum - measured perpendicular to flange.

HEATER & DEFROSTER ASM

ENGINE WIRING HARN. - UPC 12
LOCATING HOLE
7 - 12 LBS IN.
25 - 35 LBS IN.

UPC

DATE
SYN
REVISION RECORD
AUTL. DR. CR

- 9419303 SCREW
- 9419845 NUT
- 9780719 SCREW ASM.
- 53u SEALING
- 55a SEALING
- 55a SEALING

M2

DATE REL. 5/13 DF
L- 88415 L-

CHEVROLET MOTOR DIVISION, GMC
Position clamp so that it does not interfere with fuel pipe.

12 - 18 LBS IN.
15 - 25 LBS FT
HEATER CONTROL CABLES

1969 CAMARO 12000 SERIES

3965102 CABLE ASM-TEMP
381700 SPRING NUT
9427398 SCREW
5965104 CABLE ASM-DEFR
3965103 CABLE ASM-AIR
3895957 CLIP

CABLE
SPRING
SCREW
CABLE
CABLE
CUP

23 - 33 LBS IN.
13 - 18 LBS IN.
20 - 30 LBS IN.

HEATER ASM.
INSTR PANEL

# CHEVROLET MOTOR DIVISION, GMC

HEATER CONTROL CABLES

UPC - 1
DATE - 8-69
SHEETS - 1

M4

12000

M3 L-88415

DATE=CL 4-29 DF L L L

AUTH. DR. CHK

5-8-69
WAS 3966195 CABLE ASM 22930 KG

WAS 3966195 CABLE ASM 22930 KG
NOTE: At body drop use .610 - .002 dia. pins at locations shown on L. & R.H. side.
ASSEMBLY INSTRUCTIONS
3940195
1969 CAMARO 12000 SERIES

1. SCREW ASM
2. DAMPENER ASM-REAR L & R.H.
3. DAMPENER ASM-FRT L & R.H.
4. SPL WASHER
5. REINFORCEMENT
6. NUT
7. FLUID-AUTO TRANS 1.28 GALS
8. COMPOUND .006 LBS
9. CEMENT .15 PIECES

20 - 30 LBS FT
100 - 125 LBS IN.

BODY DAMPENERS

UPC 12367-467 (CONV.)

<table>
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<th>UPC</th>
<th>DATE</th>
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<th>AUTR</th>
<th>DE CR</th>
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<td>5950109-19</td>
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<td>99857 CE</td>
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ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

SHEET       TITLE
A1         CONTENTS
A2         UPPER & LOWER CONTROL ARMS
A3         STEERING KNUCKLE, STUD ASSEMBLIES &
            FRONT WHEEL HUB ASM.
A4         SHOCK ABSORBER & SPRING
A5         STABILIZER SHAFT
A6         FRONT SUSPENSION GEOMETRY

FRONT SUSPENSION CHARTS
& TRIM HEIGHTS—SEE UPC 0
NOTE: With hub and drum attached and springs in position, tighten lower control arm attaching nuts to specified torque with vehicle weight on the lower control arm assemblies.

Shim to fill gap at each end, as req’d by caster & camber adjustment. A maximum of one each of two thinner shims (.03 & .06 inches) may be used on any end. Nominal shim pack consists of (3) .120 shims. See sheet A6.

NOTE: Frame pocket may be expanded, to accept the front lower control arm, when interference exists on qualified parts.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 9417801 LUB FITTING
2. 118066 RIVET
3. 975066 STUD & SEAL ASM.
4. 3966153-4 STRG KNU & FRT WHL HUB ASM L. & R.H.
5. 358601 NUT
6. 9427880 NUT-A torque of 125 lbs. ft. max. is permissible on and when slot is in correct position for insertion of cotter pin.
7. 103335 C. PIN

NUT-A torque of 90 lbs. ft. max. is permissible on and when slot is in correct position for insertion of cotter pin.

LUBRICANT-LITHIUM SOAP

NOTE! Eyelet must be tight in nut slot & shaft bent as shown. To prevent rotation or loosening which will interfere with camber-caster gauges.

UPPER CONTROL ARM ASM.

LOWER CONTROL ARM ASM.

WHEEL-UPC 10.

40-60 LBS. FT.
55-75 LBS. FT.
70-95 LBS. FT.
40-60 LBS. FT.

- CHEVROLET MOTOR DIVISION; GMC

STEERING KNUCKLE, STUD ASSEMBLIES & FRONT WHEEL HUB ASM.

12000

UPC DATE SYN REVISION RECORD AUTHL DR CK
3 7/10/48 COTTER PIN DWG. REVISED 5/7/68 W.A. 36
3 7/2/48 DOCUMENTATION REVISED W.A. 36
3 10-4/66 DWG. 325-2 HUB 9/11/68 W.A. 36
3 11/26/66 WAS 3966153-4 STR. KNU 9/26/68 W.A. 36
4 10/2/66 A3 1/2/66 W.A. 36
5 A3 9/26/66 W.A. 36
6 1/2/66 W.A. 36
NOTE: Hold stud at this point when necessary to stop rotation & obtain torque.

NOTE: End of coil must be 3/8 + 1/8 from stop.

60 - 120 LBS IN
15 - 25 LBS FT
**ASSEMBLY INSTRUCTIONS**

1. 3790332 BOLT
2. 5544049 RETAINER
3. 3790333 SPACER
4. 3654642 NUT
5. 381957 GROMMET
6. 388293 BUSHING
7. 9431970 SCREW
8. 394130 BRACKET
9. 3955778 SHAFT
10. 9786588 CLAMP
11. 9786584 SLEEVE
12. 9419032 BOLT
13. 9417954 NUT
14. 103320 LOCK WASHER

**Diagram**

- FRAME SIDE-MEMBER
- LOWER CONTROL ARM

**NOTES**

- Mandatory that bolt be assembled from direction shown.

**STABILIZER SHAFT**

- 15 - 20 LBS FT.
- 20 - 28 LBS FT.
- 12 - 18 LBS FT.
### Assembly Instructions

**1969 Camaro 12000 Series Models**

**Checking Heights**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>CHECKING HEIGHTS</th>
<th>CASTER</th>
<th>CAMBER</th>
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</thead>
<tbody>
<tr>
<td>ALL</td>
<td>AS SHIPPED</td>
<td>+0° 14' ± 1°</td>
<td>+0° 17' ± 0° 30'</td>
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<tr>
<td></td>
<td>CURB</td>
<td>+0° 30' ± 1°</td>
<td>-0° 15' ± 0° 30'</td>
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</table>

**Caster Angle**

- S/OE: WGV
- D/R£CTJ: WUE£

**Wheel Toe-In**

- FRONT MODELS: 1/8 - 1/4

**Camber Angle**

- FRONT /RE:// MODELS: ±0° 30°

**Documentation Required**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>TOTAL TOE-IN</th>
<th>HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL</td>
<td>1/8 - 1/4</td>
<td>CURB &amp; AS SHIPPED</td>
</tr>
</tbody>
</table>

---

**Front Suspension Geometry**

- Type: 12000
- UPC: 3
- Date: 51
- REV: 5/8

---

**Diagram Notes**

- Front view of wheel and car showing caster and camber angles.
- Positive direction indicated for angles.

---

**Table**

<table>
<thead>
<tr>
<th>MODELS</th>
<th>TOTAL TOE-IN</th>
<th>HEIGHT</th>
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<tbody>
<tr>
<td>ALL</td>
<td>1/8 - 1/4</td>
<td>CURB &amp; AS SHIPPED</td>
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</table>
1969 CAMARO 12000 SERIES ASSEMBLY INSTRUCTIONS

SHEET 3940195

CONTENTS

A1 AXL, PROP SHAFT & WHEEL NUT
A2 SPRING FRONT EYE & BRACKET
B1 SPRING-TO AXLE & SPRING-REAR SHACKLE
B2 SHOCK ABSORBER & BUMPER

NOTE: For springs & vehicle heights see UPC 0.
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1 3954322  AXLE ASM-CHART
2 102634   NUT
3 103320   L. WASHER
4 1358938  "U" BOLT
5 3945540  PROP SHAFT ASM
6 2c 3954322
7 6b 3945540
8 355501  NUT

AXLE ASM-CHART

- NUT
- PART OF AXLE ASM.

- PLUG-PART
OF DIFF. ASM.

- NOTE: This area of
shaft must be entirely
free of paint.

- 12 - 16 LBS FT
- 15 - 20 LBS FT
- 55 - 75 LBS FT

AXLE, PROP. SHAFT & WHEEL NUT

- 12000
- UPC 4
- MODE A2

- LUB SYM 31 NAS-3C 326-7-FM-7
- NAS-FLUID-SYN 326-9-ER
- QUANTITY ADDED.
- DOCUMENTATION REMOVED

- ALIGNMENT NOTE ADDED.
- WAS 335-6372 AXLE 22401-DP-78
MANDATORY SEQUENCE
A. Locate tab in slot to body
B. Drive screw to side rail for first attachment

SPRING-Use selectively by vehicle weight.

NOTE: Install spring eye bolt with spring at approx. 4°.
3791381 CUSHION - UPPER
3792585 CUSHION - LOWER
3923570 PLATE L. & R.H.
3901399 NUT
3908370 BUSHING
3830840 SHACKLE
272876 NUT
3830844 PIN - Must be assembled as shown.

NOTE: Tighten with vehicle weight on springs.

NOTE: Shackles & pins to be assembled in direction shown.

---

R.H. INSTALLATION

L.H. INSTALLATION

SPRING TO AXLE & SPRING-REAR SHACKLE

12000

B2
# Chevrolet Motor Division, GMC

## Brakes - Contents

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<th>Sym</th>
<th>Revision Record</th>
<th>Authl</th>
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### Notes

- brake system to be inspected for leaks at 1800 PSI to 2000 PSI for 10 seconds, & maximum for 25 seconds.
**Assemble in Instructions**

**3940195**

- **Bracket ASM.**
- **NUT**
- **L. WASHER**
- **Pipe ASM. RR.**
- **Pipe ASM. FRT.**

**1969 Camaro 12000 Series**

- **Switch ASM.**
- **Brkt Switch**
- **Screw ASM.**
- **Cylinder ASM.**
- **Brake Fluid .125 Gal.**
- **Bumper**
- **Gasket**
- **Boot**

**Note:** Fill master cylinder reservoirs to .25 in + .125 in. from top.

**Chevrolet Motor Division, GMC**

**Brake Cylinder, Bracket & Pressure Indicator Switch**

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<td>REV.</td>
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**UPC & SPECIFICATION**

- **BLJ3B**
- **1/17/69**
- **200-28 LBS FT**
- **115-150 LBS. IN.**
- **90-140 LBS IN.**
- **120-180 LBS IN.**
- **80-115 LBS IN.**

**Revision Record**

- **1/31/69**
- **Torque Added**
- **8/20/69**
- **Documentation Remv.**

**Instrument Panel Reinforced**
ASSEMBLY INSTRUCTIONS

3940195

3850084 SPRING
3841645 EXTENSION
3798256 BUSHING
1379621 PIN
3921648 COVER
3953287 PEDAL ASM
3953288 CLEVIS
9419815 NUT

NOTE: Torque nut against clevis after free play adjustment.

NOTE: Adjust clevis to obtain .06-.25 inches free pedal play.

BRACKET ASM.

NOTE: Brake pedal must support a 50 lb. load at "B" after traveling a maximum of 3.00" after brakes are applied three times in quick succession and free play is .06 to .25 inches.

CAUTION: If 3.00 is exceeded, brakes should be re-checked for proper bleed.

CAUTION: Retainer, [10] must scribe a legible line on end of clevis pin during assembly. Avoid any expanding tool which nullifies this intent.

11 - 16 LBS. FT.

NOTE: Brake pedal must support a 50 lb. load at "B" after traveling a maximum of 3.00" after brakes are applied three times in quick succession and free play is .06 to .25 inches.

CAUTION: If 3.00 is exceeded, brakes should be re-checked for proper bleed.

DOCUMENTATION REQUIRED

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<th>REVISION RECORD</th>
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DwG Prc3-I AM REF: Prcl.A2 l-88752 l-89399 Date REL: 4-29 MB L- L- L-
**ASSEMBLY INSTRUCTIONS**

---

**3940195**

- 3958422 PIPE ASM R.H.
- 3953272 CLIP - 3/16
- 3958062 SCREW
- 3958421 PIPE ASM L.H.
- 9745221 HOSE
- 3923566 OPT

**1969 CAMARO 12000 SERIES**

- 231343 P. WASHER
- 3952178 CLIP - 5/16
- 476737 SPRING - YOKE
- 3953283-4 BRACKET L. & R.H.
- 3952757 CLIP
- 3958444 GROMMET
- 3958443 BRACKET
- 9419402 SCREW ASM

---

**NOTE** Retorque to 40-90 lbs. in. after bleeding hydraulic brake system.

With wheels straight ahead in full rebound position, insert hose into frame bracket without kinking or twisting & install retainer spring as shown. Paint stripe on hose is a visual aid for preventing or detecting any kinks or twists.

---

**VIEW A**

- 80 - 115 LBS IN.
- 85 - 115 LBS IN.
- 10 - 15 LBS FT
- 20 - 25 LBS FT

---

**VIEW B**

---

**FRONT BRAKE LINES**

---

**UPC**

---

**DATE**

---

**REVISION RECORD**

---

**AUTO. OR CK**

---
3940195 1969 CAMARO 12000 SERIES

- PIPE ASM-L.H.
- SPRING-YOKE
- HOSE ASM.
- CLIP
- BRACKET
- SCREW

NOTE: Retorque to 40-90 lbs. in. after bleeding hydraulic brake system.

12000 SERIES
- PIPE ASM-R.H.
- CLIP
- BOLT
- CEMENT-Plastic seam-3.00 inches

This area to maintain a tight fit to axle.

\[ 80 - 115 \text{ LBS IN.} \]
\[ 120 - 180 \text{ LBS IN.} \]
\[ 15 - 25 \text{ LBS FT} \]
\[ 100 - 140 \text{ LBS IN.} \]
ASSEMBLY PROCEDURE

With the parking brake mechanism in the released position, cable tension measured on the front cable in front of the equalizer is 30 ± 5 lbs. With the correct cable tension, pedal should start to move with a 15 ± 5 lb. load applied to the pedal. With the brake pedal depressed two (2) inches from the released position, the pedal load will be 35 ± 5 lbs. To obtain cable tension, tighten Nut A, then hold Nut A and tighten Nut B to specified torque.

7.38 ± .25 INSTALLED DIMENSION
with brake unapplied

8.96 ± .25 INSTALLED DIMENSION
with brake unapplied

NOTE: Tighten nut at dash to specified torque before tightening bolt at instrument panel to specified torque.
Form clip securely around cable.

35 - 45 LBS FT

NOTE: Bracket (part of rail asm.)

Center cable

Bracket (part of rear axle asm.)

Existing nut

View B

View A
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

CONTENTS

A1 CONTENTS
A2 CONTENTS V-8 ENGINE
A3 GENERATOR MOUNTING
A4 PUMP MOUNTING
A7 FAN, PULLEYS & BELTS
A9 BELT ROUTING - MANUAL TRANSMISSION
A10 BELT ROUTING - AUTO. TRANSMISSION
A13 PULLEY ALIGNMENT
B1 OIL FILLER, GAGE & FILTER
B2 RADIATOR HOSES
B3 ENGINE FRONT MOUNTING
B5 ENGINE MOUNTING REAR
B6 VOLTAGE REG & STARTING MOTOR MOUNTING
B7 IGNITION SWITCH MOUNTING
B8 SPARK PLUG WIRING & COIL
C1 CARB, CHOKE & ENGINE VENTILATION
C2 GAS, SPARK CONTROL PIPE & FUEL PUMP

NOTE: Front cowl & dash

sealing—See UPC 1.

1 3939025 ENGINE ASM (as shipped)

2 NOTE

ENGINE-CONTENTS & V.L.N. LOCATION
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. P. WASHER
2. L. WASHER
3. BOLT
4. BRACE
5. GENERATOR
6. BRACKET
7. BOLT
8. WASHER
9. SPACER
10. NUT
11. L. WASHER
12. BOLT
13. BOLT
14. BOLT

100 - 140 LBS IN.
40 - 50 LBS FT
20 - 27 LBS FT
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

- 3955204 SPACER
- 9418994 BOLT
- 7803948 A.I.R. PUMP
- 9419187 BOLT
- 3955674 BRACKET ASM
- 103321 L. WASHER
- 9418822 BOLT

20 - 30 LBS FT
15 - 20 LBS FT

NUT-PART OF PUMP BRKT

FRIG GEN BRKT-SEE SHT A3
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1 3927116 PULLEY-PUMP
2 3850994 BELT-PUMP-1ST TRACK
3 3845644 BELT-FAN & GEN-2ND TRACK
4 3927794 SPACER
5 3927791 BLADE ASM-FAN
6 9425299 BOLT
7 187119 L. WASHER
8 3927796 PULLEY ASM-WATER PUMP
9 9419000 BOLT.
10 103319 L. WASHER

NOTE: Raw edge of pulley must be installed rearward.

20 - 27 LBS FT
75 - 95 LBS IN.
CAUTION Initial tension on all 3/8 belts to be 125 ± 5 lbs, and on all 15/32 belts to be 140 ± 5 lbs. Any re-tensioning of previously installed belts required due to part replacement or repair, should be 75 ± 5 lbs. for all 3/8 belts and 95 ± 5 lbs. for all 15/32 belts. These specifications are such that the residual or stabilized tension at the time the vehicle is shipped from the plant will result in the latter figures.

NOTE Initial A.I.R. pump belt strand tension to be 75 ± 5 lbs. This specification is such that the residual or stabilized tension at the time the vehicle is shipped from the plant will be approximately 60 lbs.

Belts are to be checked for correct tension with a Burroughs Gage BT-33-95.
1ST TRACK
2ND TRACK
3RD TRACK

NOTE: For belt tension specifications, see L-6 manual transmission belt routing sheet.
1ST TRACK
2ND TRACK
3RD TRACK

NOTE: For belt tensioning specifications, see L-6 Engine (Manual Trans) belt routing sheet.

BASE ENG

RPO N40

RPO C60

RPO C60 WITH RPO N40

BELT ROUTING

12000 V-8 ENGINE (MANUAL TRANS.)

UPC 6

DATE 1

REVISION RECORD

AUTRL DE Cx

CHEVROLET MOTOR DIVISION, GMCo.
NOTE: For belt tensioning specifications, see L-6 Engine (Manual Trans) belt routing sheet.
ASSEMBLY INSTRUCTIONS

POWER STEERING PULLEY
A.I.R. PUMP PULLEY
C COMPRESSOR PULLEY
WATER PUMP PULLEY
CRANKSHAFT PULLEY
L-6 ENGINE
FRONT FACE OF ENGINE

A/C COMPRESSOR PULLEY
WATER PUMP PULLEY
GENERATOR PULLEY
A.I.R. PUMP PULLEY
CRANKSHAFT PULLEY
V-8 ENGINE

TYPICAL BELT TRACK TO FRONT OF CASE

Allowable Variation-Belt Track Centerline to Front of Case

<table>
<thead>
<tr>
<th></th>
<th>L-6</th>
<th>V-8</th>
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<tbody>
<tr>
<td>Crankshaft Pulley</td>
<td>.05</td>
<td>.05</td>
</tr>
<tr>
<td>Water Pump Pulley</td>
<td>.06</td>
<td>.06</td>
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<tr>
<td>Generator Pulley</td>
<td>.10</td>
<td>.06</td>
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<tr>
<td>A.I.R. Pump Pulley</td>
<td>.13</td>
<td>.07</td>
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<td>Power Steering Pump Pulley</td>
<td>.14</td>
<td>.13</td>
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<tr>
<td>A/C Compressor Pulley</td>
<td>.10</td>
<td>.04</td>
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</tbody>
</table>

Allowable variation, pulley to pulley, is determined by adding above tolerances together. For example: allowable variation of water pump to generator pulley on V-8 engine is .03 + .06 or ± .09. Tolerances are intended as a general indication of component part quality.
**ASSEMBLY INSTRUCTIONS**

**3940195**

**1969 CAMARO 12000 SERIES**

- **3886082** GAGE ASM-OIL LEVER L-6 ENG
  - Color code (White)
- **3951576** V-8 ENG-Color code (Green)
- **3886031** TUBE-OIL LEVEL GAGE L-6 ENG
- **3876870** V-8 ENG
- **3952301** VALVE ASM-OIL FILLER
- **3951844** BOLT
- **6437055** FILTER ASM-OIL
- **3853870** CONNECTOR

**CAUTION** Slow take-up for compression of gasket is necessary to prevent damage to gasket. Over torquing will rupture filter can.

- **7a** OIL-ENG 1,125 GALS
- **7b** .001 GALS

**NOTE** Tube should be inserted until tube bead is against engine block.

**COLOR CODE IDENTIFICATION**

**V-8 ENGINE**

- Tube should be inserted until tube bead is against engine block.

**L-6 ENGINE**

**OIL CAP - PART OF ENG. ASM.**

**OIL CAP-PART OF ENG. ASM.**

**COLOR CODE IDENTIFICATION**

**GAGE TUBE**

**VIEW A**

**UPC**

**DATE**

**SYMP**

**REVISION**

**AUTH. DE. CR.**

**CHEVROLET MOTOR DIVISION, GMC**

**OIL GAGE & OIL FILTER**

**12000**

**B1**
1. CLAMP
2. HOSE-INLET L-6 ENG
3. HOSE-INLET V-8 ENG
4. CLAMP - Position clamp so it will not interfere with fan, belts, or pulleys.
5. HOSE-OUTLET L-6 ENG
6. HOSE-OUTLET V-8 ENG

Install hoses with part no. & code letters of hose at radiator end.

14 - 20 LBS IN.

L-6 ENGINE

A.L.R. PUMP BRACKET

V-8 ENGINE

**ENGINE MOUNTING-FRONT**

- **L.H. THRU BOLT**: 3445
- **R.H. THRU BOLT**: 3445

**FORCES**:
- **25 - 35 LBS FT**
- **40 - 55 LBS FT**
- **35 - 45 LBS FT**

**ENGINE MOUNTING-FRONT**

- **L.H. MOUNTING ASM**: 3964895
- **R.H. MOUNTING ASM**: 3955183
- **BOLT-THRU**: 3980716
- **P. WASHER**: 3980717
- **NUT**: 942299
- **Screw ASM**: 3748038
- **BOLT-SPL**: 3768390
- **NUT**: 1361640
- **P. WASHER**: 382588

**DATE**: 12/12/64

**REMARKS**:m

**REV**: 1

**AUTH**: D

**ENG**: 12000 V-8 ENGINE L.D.

**UPC**: 606060

**SYN**: 1

**RECORD**: 26

**TORQUE ALLOED**: 26

**PERM**: 3445

**PAGE**: 3940195

**1969 CAMARO 12000 SERIES**
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1. 3928392 MOUNTING ASM
2. 103328 L. WASHER
3. 9419073 BOLT
4. 3700338 SPL. WASHER

35 - 45 LBS FT

REAR FRAME CROSSMEMBER (SUPPORT ASM - SEE UPC 2)

UPC 6

DATE SYM
2/4/68 1
2

REVISION RECORD
"DOCUMENTATION REQ'D" ADDED
"DOCUMENTATIONREQ'D" RAINED

AUTH OR CK
IGNITION SWITCH LOCK CYLINDER INSTALLATION INSTRUCTIONS

1. With ignition key in lock cylinder assembly, hold lock cylinder sleeve and rotate knob clockwise against stop when viewed from key end.

2. Insert cylinder into housing bore with key on lock cylinder sleeve aligned to keyway in housing. Push cylinder inward until end of lock cylinder touches end of lock sector.

3. Slowly rotate lock knob counterclockwise maintaining a light push inward on lock cylinder until drive section of lock cylinder mates with sector.

4. With lock cylinder and sector lined up, push lock cylinder inward until spring loaded tab pops into groove in housing bore. Check retention of lock cylinder in housing bore by pulling outward on lock cylinder. If lock cylinder pulls out, go back to Step #1 and start procedure over.

5. Check freedom of rotation of lock cylinder in housing. There must be a free spring return from "start" to "run" positions.
177999 SCREW
1119515 REGULATOR ASM
9419370 SCREW ASM
3819213 BRACE L-6 ENGINE
3816511 V-8 ENGINE

The attaching parts for these brackets must be tightened after the starting motor attaching bolts have been torqued.

1108365 STARTING MOTOR ASM L-6 ENG
1108367 V-8 ENGINE

19 - 27 LBS IN.
15 - 20 LBS FT
25 - 30 LBS FT
60 - 70 LBS IN.
ASSEMBLY INSTRUCTIONS

1 2985802 WIRE ASM (CYL NO 1)
2 2985802 WIRE ASM (CYL NO 2)
3 2985805 WIRE ASM (CYL NO 3)
4 2985808 WIRE ASM (CYL NO 4)
5 2985812 WIRE ASM (CYL NO 5)
6 2985814 WIRE ASM (CYL NO 6)
7 2985951 WIRE ASM - HIGH TENSION

8 Wire from dist to neg terminal.
Loosen nut & position terminal
between nut & clip.

9 115208 COIL ASM
10 180116 BOLT
11 3702799 RETAINER

NOTE MANDATORY that STAKE MARKS
be aligned between distributor and cylinder & case. For proper stake mount location
see engine asm. instructions.

100 - 140 LBS IN.
25 - 35 LBS IN.

12000 L-6 ENGINE

SPARK PLUG WIRING & COIL
Loosen nut on neg. post of coil & position dist wire term between nut & clip.

**NOTE!** MANDATORY that STAKE MARKS be aligned between distributor and inlet manifold. For proper stake mount location see engine asm instructions.

<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
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<tbody>
<tr>
<td>1</td>
<td>WIRE ASM (Cyl No. 1)</td>
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<tr>
<td>2</td>
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<td>WIRE ASM (Cyl No. 7)</td>
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<td>WIRE ASM (Cyl No. 8)</td>
</tr>
<tr>
<td>9</td>
<td>WIRE ASM-HIGH TENSION</td>
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<td>COIL ASM</td>
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<tr>
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<td>SHIELD ASM</td>
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<td>17</td>
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<td>18</td>
<td>RETAINER</td>
</tr>
<tr>
<td>19</td>
<td>RETAINER</td>
</tr>
</tbody>
</table>

**120 - 168 LBS IN.**

**35 - 50 LBS IN.**

**15 - 20 LBS IN.**

**25 - 35 LBS IN.**

— CHEVROLET MOTOR DIVISION, INDIANAPOLIS —

**UPC**

**DATE**

**REVISION**

**AUTH. OR CC**

**SPARK PLUG WIRING, COIL, & SHIELDS**

**120C0 V-8 ENGINE**

**B9**

SHEET X

92
**ASSEMBLY INSTRUCTIONS**

3918984  ROD

3829058  CLAMP

6255773  CLIP

6424191  VALVE

581112   GROMMET

14 - 18 LBS FT
35 - 50 LBS IN.

NOTE: Insert and rotate rod 180° to upright position.
NOTE: Slide hoses far enough on spark control pipe to remove slack.

1. 3931079 PIPE - SPARK
2. 3920986 HOSE
3. 3918986 PIPE ASM. - GAS
4. 3821534 HOSE
5. 3705042 GASKET
6. 3888192 SCREW
7. 6440616 FUEL PUMP ASM.

115 - 135 LBS IN.
14 - 22 LBS FT.
ASSEMBLY INSTRUCTIONS

390195

1969 CAMARO 12000 SERIES

WING NUT
AIR CLEANER
GASKET
STUD
CLAMP
HOSE

Install hoses with trade mark as shown.

7029291 DIVERTER VALVE ASM
3920990 HOSE
3921983 CONNECTOR
3933189 GROMMET
3939005 HOSE

15 - 20 LBS IN.
12 - 18 LBS IN.
75 - 95 LBS IN.

NOTE: Parallel to C of engine.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1 3918952 PIPE ASM-COMBUSTION
2 5361992 VALVE ASM
3 3880812 EXTENSION-PIPE
4 3932489-90 PIPE ASM-COMBUSTION L. & R.H.

A 150 - 175 LBS IN.
A H-20 LBS FT

L-6 ENGINE

V-8 ENGINE

EXHAUST GAS COMBUSTION AIR PIPES & CHECK VALVE

12000 L-6 & V-8 ENGINE

U.P.C. DATE 3-4 REVISION RECORD AUTH. OR CR

6 C4
NOTE: Push choke assembly towards rear before tightening screw.

NOTE: Long end of choke rod must assemble to the thermostat coil.

NOTE: Inboard vertical surface at the lower horizontal surface of the cover must be tight against the manifold.

NOTE: This tang must be engaged in casting hole.

14 - 18 LBS FT
100 - 125 LBS IN.
20 - 30 LBS IN.

---

**CHEVROLET MOTOR DIVISION, GMCO**

CARBURETOR, CHOKE & VACUUM PLUG

12000 V-8 ENGINE

6  C5
NOTE on powerglide models
install valve asm. prior to bolting transmission in engine.

NOTE: Powerglide models install valve asm. prior to bolting transmission in engine.

100 - 125 LBS IN.  25 - 30 LBS FT
40 - 60 LBS IN.
20 - 25 LBS FT
32 - 40 LBS IN.
Position air cleaner into slot before tightening.

NOTE: Molded end must be assembled to rocker cover.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3924409 SUPPORT
2. 3909980 ROD
   3928326 L-6
3. 3921677 PIN
4. 3920296 PEDAL
5. 3909982 SPRING
6. 9419388 SCREW
7. 9419008 BOLT
8. 9419892 P. WASHER
9. 103319 L. WASHER
10. 9419912 NUT
11. 3923503 LEVER
12. 9413182 RETAINER
13. 53d SEALER, .10 OZ.

Support Rod Pin Pedal Spring Screw

1969 Camaro 12000 Series

Bolt P. Washer L. Washer Nut Lever Retainer Sealer, .10 oz.

Assembly Instructions

Chevrolet Motor Division, GMG

Accelerator Controls—Levers, Rod & Pedal

30 - 40 LBS IN.
60 - 80 LBS IN.

Legend

- 53d

- VIEW A

- L-6 ONLY

- VIEW B

- 60 - 40 LBS IN.
- 60 - 80 LBS IN.

- TABLE

- UPC

- DATE

- REV.

- D1

- DWG 4-26: 2C

- 2G

- 85235 84952

- 84971

- 102
**ASSEMBLY INSTRUCTIONS**

**3940195**

- **1** 3945536 CABLE ASM.
- **2** 3949069 BRACKET
- **3** 3928327 LEVER ASM.
- **4** 3923500 ROD
- **5** 3920266 SPRING—See 3865193 chart.
- **6** 3962782 CLIP

---

**1969 CAMARO 12000 SERIES**

- **1** 9413324 RETAINER
- **2** 3909973 SLEEVE
- **3** 9419727 SCREW
- **4** 9419058 BOLT
- **5** 103321 L. WASHER
- **6** 9418931 NUT

---

**LIP MUST TOUCH INLET MANIFOLD WHEN BRACKET IS INSTALLED**

---

**CAUTION** Care must be taken during installation of Retainer 7 onto Cable 1 and the proper tooling must be utilized to press the Retainer 7 into hole on Accelerator Pedal Rod to assure the cable is not "KINKED" or "DAMAGED" in any way.

---

- **VIEW D**

---

**CHEVROLET MOTOR DIVISION, GM**

<table>
<thead>
<tr>
<th>UPC</th>
<th>Date</th>
<th>SY#</th>
<th>Revision Record</th>
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<td>D2</td>
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**WARNING**

- 19 - 27 LBS IN.
- 15 - 25 LBS IN.
- 75 - 110 LBS IN.

---

**ACCELERATOR CONTROLS-ROD, SPRING, CABLE & BRACKET**

---

**L-6 ENGINE**

- **G** 5-24 
- **K** REF. D
- **L-8495L-65863**
- **A** 5-9 OF 1 L

---

**UPC** 0-0066 LBS.
1. 3923502  ROD
2. 3952776  SPRING -See 3865193 chart.
3. 3899075  SWIVEL
4. 9416713  RETAINER
5. 3794377  BUSHING.
6. 3707713  SLEEVE
7. 103373  PIN

NOTE! Accelerator rod must turn freely in bushing after assembly, and must be orientated as shown with swivel at carburetor end.

NOTE! Must be assembled in direction shown.

VIEW A

VIEW B

VIEW C

NOTE  March 12000 V-8 ENGINE

UPC  6

REV  1. WAS 3923504 SPRING  2. DOCUMENTATION REMOVED  3. LEVER DRAWING REVISED(2)INS  4. CHART REF ADDED  5. WAS 3947518 SPRING

DATE  6-2-66  7-21-66  8-25-65  9-29-69
SYM  1  2  3  4
REV  9305  RC  RS  RC
AUTH  12000  12000  12000  12000
DR  RC  RC  RC  RC
CE  RC  RC  RC  RC
**ADJUSTMENT REQUIREMENTS**

1. Gage space between dash lever (A) & pedal support (B) to dimension shown.
2. Hold carburetor lever (C) at wide open position.
3. Adjust swivel (D) on accelerator control rod (E) so that it enters freely into carburetor lever (C).

**NOTE** To check throttle adjustment of completed vehicle, depress accelerator pedal to wide open throttle position. The carburetor lever should be against the wide open stop and the dash lever (A) should have a clearance of .09-.12 to pedal support (B).
ASSEMBLY INSTRUCTIONS

3940195

1. 402196 PIN
2. la GREASE .0066 LBS
3. 3958445 LEVER TRANS CONTROL - L. D.
4. 3923383 CHART-KNOB

NOTE: Must be installed against tip of lever & parallel of column asm.

ANTI-RATTLE SPRING—(Part of steering column asm)

STRG COLUMN—SEE UPC9

© OF STRG COLUMN ASM.
TRANSMISSION CONTROL LINKAGE ADJUSTMENT

1. Set Levers (A) & (C) in "REVERSE" position & turn ignition switch to "LOCK" position.
2. Attach Rod (D) to Levers (C) & (F). Do not secure Rod (D) to Lever (C) at this time.
3. Remove column "LASH" by rotating Lever (F) in a downward direction and completing attachment of Rod (D) to Lever (C).
4. Unlock ignition switch & position Levers (A), (B) & (C) in "NEUTRAL".
5. Align gage holes in Levers (F), (G) & (H) and insert gage pin (J).
6. Attach Rod (E) to Levers (B) & (G).

**NOTE** With shift lever in "REVERSE", the ignition key must move freely to "LOCK" position. It must not be possible to obtain ignition "LOCK" position in "NEUTRAL" or any gear other than "REVERSE".
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1 909422 BEARING ASM

2 3841738 BOOT

3 9b GREASE GRAPHITE .0055 LBS.

FORK ASM CLUTCH

RETAINING SPRING CLUTCH FORK

VIEW A

CHEVROLET MOTOR DIVISION, GMC

CLUTCH RELEASE BEARING

UPC

DATE

SYM

REVISION RECORD

AUTH. DR. CK

<table>
<thead>
<tr>
<th>CLUTCH RELEASE BEARING</th>
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<tr>
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<tr>
<td>4-30 LS REF C1</td>
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<tr>
<td>L-80201 L</td>
</tr>
<tr>
<td>7 C1 SHEET 7</td>
</tr>
<tr>
<td>2-0-69 W 92765 BEARING ASM 26614 L 20</td>
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</tbody>
</table>
CAUTION Retainer 1 must scribe a legible line on end of clevis pin during assembly. Avoid any expanding tool which nullifies this intent.
CLUTCH ADJUSTMENT

Apply a 10 lb. load in direction of Arrow (E) to hold Clutch Pedal against Clutch Pedal Bumper.

Apply a 10 lb. load to Clutch Fork in direction of Arrow (D) to eliminate clearance between throwout bearing and clutch fingers.

Insert a .198 Spacer (F) between clutch fork and Adjusting Rod (A).

Rotate Adjusting Rod against Spacer until it has a 5 in. lb. torque.

Hold Adjusting Rod and tighten Nut (C) against Swivel (B) or Rod (B).

Remove Spacer. Install return spring and extension to clutch fork.

Pedal will have approximately 1.20 ± .3 free travel.
**NOTE** Do not drive into position at over 250 R.P.M. (free) to prevent excessive heat build-up and consequent galling of nut or stud. Tighten nuts uniformly to specified torque. (8 lbs. ft. minimum inspection torque after roll test.)
7) [Tj 3962792
3696990
3748781
3829086
3940195

EXHAUST PIPE ASM.
PACKING
EXTENSION
NUT

EXHAUST PIPE ASM.
PACKING
EXTENSION
NUT

NOTE: Do not drive into position at over 250 r.p.m. (free) to prevent excessive heat buildup and consequent galling of nut or stud. Tighten nuts uniformly to specified torque. (8 lbs. ft., minimum inspection torque after roll test.)

13 - 17 LBS FT

1969 CAMARO 12000 SERIES
"U" Bolt to-be over end of slots on muffler & rear exhaust pipe joints.

120 -180 LBS IN.

NOTE: Apply to full I.D. of muffler inlets prior to asm with rear exhaust pipe.
ALL DIMENSIONS INDICATED ARE REFERENCE REFLECTING NOMINAL DESIGN CLEARANCE. VARIATION OF MORE THAN .25 FROM THIS DIMENSION INDICATES A QUALITY DEFICIENCY IN A COMPONENT PART.

MUFFLER BEAD

MUFFLER E

13.17 REF

1.57 L&R.H.

21.76

2.39

19.89

E OF MUFFLER
INSTRUCTIONS

*SETTING DIMENSIONS ± .06
*REFERENCE DIMENSIONS ± .25 All dimensions indicated are reference reflecting nominal design clearance. Variation of more than .25 from this dimension indicates a quality deficiency in a component part.

EXHAUST SYSTEM CHECKING DIMENSIONS—PRODUCTION

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<tr>
<th>UPC</th>
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<th>REVISION RECORD</th>
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<th>DR.</th>
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<tr>
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<td>A7</td>
<td></td>
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</table>
*REFERENCE DIMENSIONS ± .25  All dimensions indicated are reference reflecting nominal design clearance. Variation of more than .25 from this dimension indicates a quality deficiency in a component part.
**SETTING DIMENSIONS ± .08**

**REFERENCE DIMENSIONS ± .25**  All dimensions indicated are reference reflecting nominal design clearance. Variation of more than .25 from this dimension indicates a quality deficiency in a component part.

---

NOTE: From this point forward, dimensions are the same as Sheet 2.
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

3940195

3958062 SCREW
3952718 CLIP 5/16 L-6 ENG
3952717 3/8 V-8 ENG
3958476 PIPE ASM-CHART
3958477 PIPE ASM-L-6 ENG
3958478 -V-8 ENG

85-115 LBS IN.

* CHEVROLET MOTOR DIVISION, G.M.C.

FUEL LINE - FRONT HALF

UPC DATE SYM DIVISION RECORD AUTH. DR. CHK
52968 1 94412 NC
72368 2 96900 NC
72368 3 96900 NC
72368 4 96900 NC
72368 5 96900 NC
538479 6 96900 NC
538479 7 96900 NC
538479 8 96900 NC

DATE REL 4-29 1/8 L-89200 L- L

124
ASSEMBLY INSTRUCTIONS

3962721  CLIP-L-6 ENG
3962722  -V-8 ENG.

FUEL LINE-Part numbers are on preceding sheet.

3886522  CLIP

3952717  V-8 ENG
3952718  CLIP-L-6 ENG
3958062  SCREW
9419303  SCREW
3912538  CLIP

30-40 LBS IN
85-115 LBS IN

NOTE! Position large end of clip forward.

FUEL LINE - REAR HALF
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3863930
   INSULATOR
2. 65a
   CEMENT .54 OZ.
   .08 OZ.
3. 65b
   TANK ASM - After mounting, tank may be pressurized up to .75 PSI max. to check for final line leakage or force fuel thru system. Pressures greater than this amount are detrimental to fuel tank durability due to mounting strap stretch and/or tank distortion.
4. 3908341
   STRAP
5. 3893119
   ANTI - SQUEAK
6. 9420065
   SCREW
7. 1361640
   NUT
8. 3961762
   BOLT
9. 396713
   SPACER

FUEL TANK & STRAPS

- 80 - 110 LBS IN.
- 55 - 75 LBS IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3774937 CAM
2. 6297607 WIRE ASM
3. 3839835 TAPE - Approx. 6 Inches
4. 385206 GASKET
5. 3724851 TAPE
6. 3908307 SLEEVE
7. 3837350 SCREW
8. 138476 L. WASHER
9. 6427871 METER ASM (L-6)

10. 6427872 (V-6)

---

15 - 20 LBS IN.

---

FUEL TANK

GROUND WIRE (PART OF METER ASM)

---

FUEL METER

---
NOTE: No flux or residue should be allowed to remain in tank or filler neck after soldering.
### ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

#### SHEET TITLE

- **A1** CONTENTS
- **A2** RELAY & TIE ROD ASM
- **A3** STEERING GEAR

#### SHEET TITLE

- **A4** STEERING COLUMN
- **A5** STEERING WHEEL
- **A6** INSTALLATION SEQUENCE

---

**NOTE** Front cowl & dash sealing—See UPC 1.

---

**PAINT OPERATION—SEE UPC 6**

---

**STEERING- CONTENTS**

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- **Chevrolet Motor Division, GMC**
CAUTION: Assemble tie rod sleeve adjusting clamp between dimples at ends of sleeve.

NOTE: "Ends of adjustable tie rods must be held in correct angular relationship to each other after adjustment within ± 2°."

Inboard clamps—L. & R.H. side; Open end of clamp must be positioned within 15° either side of tie rod sleeve slot (Position relative to ground unimportant.)

Outboard clamps—L. & R.H. side; Bolts must be positioned as shown (Position relative to slot unimportant).

NOTE: A torque of 50 lbs. ft. maximum is permissible on nut when slot is in correct position for insertion of cotter pin.

40 - 60 LBS IN. 25 - 35 LBS FT. 108 - 156 LBS IN. 30 - 40 LBS FT 120 - 160 LBS FT
Align flange so that holes match correct size bolt.

NOTE: Remove spacers after the column is completely installed in the vehicle refer item 9 sheet 9-A6

CAUTION: With the .20" - .30" spacing dimension (measured at lower pin) held when column is tightened to I. P. permissible rag joint distortion is that which results from the steering column to steering gear included shaft angle maintained at 3° (ref.). NOTE: The minimum upper pin to flange engagement is pin flush to rear flange surface.

60 - 75 LBS FT
15 - 25 LBS FT
Steering wheel must be assembled to shaft with center spoke as shown, & wheels positioned straight ahead.

CAUTION: Position horn contact tower so that it will engage hole in steering wheel before installing wheel.

NOTE: Notch in steering wheel hub must be in line with mark on shaft.

NOTE: Steering wheel must be assembled to shaft with center spoke as shown, & wheels positioned straight ahead.

CAUTION: Position horn contact tower so that it will engage hole in steering wheel before installing wheel.
I. Mandatory Instruction
1. Install upper (A) & lower (B) steering column to dash covers on column & tighten two screws (C) so that dash covers must be able to slide on column.
2. Glue seal (E) to upper (A) & lower cover (B).
3. Position rolled portion of dash panel seal (part of column asm.) at the column lower reaction tab approx. 2 inches from bottom of jacket. **CAUTION** Rolled portion of seal must be directed down column toward front of car & must remain in this position during & after column installation. See View B.
4. Attach mast jacket bracket (F) to column and tighten four bolts (G) to specified torque.
5. Position column in car & loosely install nuts (H).
6. Set body on frame with specified gage pins at #2 locations. Tighten body bolts adjacent to these gage pins prior to removal of gage pins.

II. Mandatory Installation Sequence
1. Attach steering shaft flange to rag joint & tighten nuts (J) to specified torque. **CAUTION** Do not tighten.
2. Tighten mast jacket bracket retaining nuts (H) to specified torque while holding rag joint to flange clearance dim (*) shown on Sht A3. **NOTE** For the remaining steps, upr cvr (A) & lwr cvr (B) must move to the established position of the column which has been determined by the rag joint & I.P. attachment.
3. Push upper (A) & lower (B) cover assembly to dash & line up all cover to dash attaching holes.
4. Holding both upper & lower covers against the dash & column, install & tighten two screws (K) to the specified torque.
5. Tighten two screws (C) to specified torque.
6. Loosen two screws (K).
7. Tighten two screws to (L) to specified torque.
8. Tighten two screws (K) to specified torque.

III. Mandatory System Requirement
Maximum misalignment of steering shaft to steering gear shall not exceed .180 in. Also, rivets in flex coupling shall not be grounded out on the steering shaft flange when shaft is rotated 360°. The following equivalent check may be used- alignment between steering shaft & steering gear must be such that a .04 gap (4-ply coupling) or a .07 gap (7-ply coupling) is maintained between the coupling rivets and the steering shaft flange with the steering shaft unlocked and in the straight ahead position and with no torque on the wheel. Less than .04 gap (4-ply rag) or .07 gap (7-ply rag) indicates that the column must be realigned.
ASSEMBLY INSTRUCTIONS

SHEET 3940195
1969 CAMARO 12000 SERIES

CONTENTS

A2 SPARE TIRE & JACK STOWAGE

3962712 TIRE UNIT CHART E78-14

3909916 WHEEL ASM.
3909917 OPT.

9421500 WHEEL BALANCE WEIGHT
CHART (Approx. 1 wt. per
wheel as req'd.)

All wheel & tire assemblies are to be
checked for static unbalance. Add
weights to inside of wheel at rim
edge to obtain a maximum unbalance condition
of 5 oz. inches. If total weight required to
balance the wheel & tire asm. exceeds 5 oz.
either the tire or wheel is excessively out of
balance & asm. should be rejected. For un-
balance conditions in excess of 3 oz. inches,
splitting of weights may be done if desired.

Serial number on tire to face inside of
wheel when tire is mounted on wheel asm.

LUBRICANT-RUBBER 1.6 OZ.

Install valve assembly
tubeless tire (part of tire unit
as received) in wheel assembly.

NOTE Tire pressure sticker.
See UPC 0, Sheet B1 for part
number & location.

All tires of same size
& ply rating furnished with
any vehicle shall be of same make

NOTE Maximum temperature of tires to be
180° F during reshaping process at assembly
plants regardless of the length of time in oven.

55 - 75 LBS FT
Position wheel so that tire valve stem is down.

Housing to be positioned at bottom of column against stop.

Column & base asm optional in sets.

CAUTION! CS O. only. Maintain clearance of the tire to the defroster motor during spare tire installation.

62 - 91 LBS IN.
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

3935911-2 FENDER ASM L. & R.H.
3919126 BUMPER
3839741 SCREW ASM
3711834 SHIM (AS REQ'D)
3919131 REINFORCEMENT ASM L.H.
3938654 - R.H.

A. Spotweld (6) places to reinforcement.
B. Spotweld (20) places to reinforcement.
C. Spotweld (4) places to reinforcement.

1969 CAMARO 12000 SERIES

61 II CREASE

7 3963329 SCREW ASM

OA30 -40 LBS FT
5 1/2 -32 LBS FT

MOTOR DIVISION, GM

CHEVROLET

FENDER & CENTER REINFORCEMENT

12000

UPC 11/13 A2

DATE SYN REV REVISION RECORD AUTH. DR. CE
11/13 1 TORQUE (1) WAS 20-25 LBS FT 5562.10.1A
10/68 2 H.S. 325766.43.67.7.0 3833.1B
1-L 3 ITEM 7 WAS ITEM 3 522
3-L 4 TORQUE (1) WAS 20-30 LBS FT 222.2001
5-L 5 TORQUE (3) HOOFED
5-L 6 TORQUE (3) HOOFED
5-L 7 ITEM 3 WAS ITEM 3 22410.1A.21

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**ASSEMBLY INSTRUCTIONS**

**1969 CAMARO 12000 SERIES**

**HEADER, VALANCE, EXTENSION & NAME PLATE**

**UPC**

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**Diagram**

- **SKIRT**
- **15 - 22 LBS FT**
- **1 HEADER, VALANCE, EXTENSION & NAME PLATE**
- **12000**
- **Prepared by:**
- **A4**
**ASSEMBLY INSTRUCTIONS**

**3940195**

**1969 CAMARO 12000 SERIES**

1. 3929990 GRILLE ASM-RADIATOR
2. 3945757 PLATE
3. 9419755 NUT
4. 9422654 "U" NUT
5. 3907444 NUT-SPL
6. 9420432 SCREW ASM
7. 9421923 SCREW ASM
8. 3943219 EMBLEM ASM
9. 3949707 REINF-RADIATOR GRILLE

---

**NOTE**

1. Paint body color in areas outboard from grille mldgs.
2. 20 - 30 LBS IN.
3. 30 - 40 LBS IN.
4. 10 - 20 LBS IN.

---

**UPC**

**11/13**

**A5**

---

**CHEVROLET MOTOR DIVISION, GMC**

**GRILLE ASM & EMBLEM**

**DATE** **SYM**

**PRE-09** **S-Y**

**AUTH.** **DR.** **CE**

---

**NOTE**

Paint body color in areas outboard from grille mldgs.
1969 CAMARO 12000 SERIES

R.H. FENDER NAME PLATE & EMBLEM

10 - 15 LBS IN.

VIEW A

VIEW B

VIEW C

---

ASSEMBLY INSTRUCTIONS

3940195

9420272 NUT
9419751 NUT
3916660 NAME PLATE

3949678 EMBLEM-12400

---

TIRE

MODEL

DATE SYM

PHISSION RECORD

AUTH. DE CH.

12000

11-13

A7

---

*CHEVROLET MOTOR DIVISION, GMC*
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

SEAL-UPPER 3940195
SEAL-LOWER 3909123

STAPLE
- (5 Places each side)
- (6 Places L.H. side)
- (8 Places each side)

PROTECTIVE COATING (14 GAL)

SEAL 3949506
CLIP 3921872

Staple

Seal to be assembled against depression on fender skirt all around opening.

Maintain 3/4 to 1 inch overlap of seal to skirt flange.

NOTE: Seal to be assembled against depression on fender skirt all around opening.

11/13

B 1

DATE
0041
0026
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0034
0037
0038

REVISION
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D
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D
D

AUTH.

REV

DEL

12000

C.

CHEVROLET MOTOR DIVISION, GMC

144
NOTE: Hood bumpers must be adjusted until hood & fender line up to dimension shown. Adjust hood lock bolt until hood & header peak surface line up to dimension shown. See sheet metal checking.

1. Hood bumpers must be adjusted until hood & fender line up to dimension shown. Adjust hood lock bolt until hood & header peak surface line up to dimension shown. See sheet metal checking.

NOTE: Mask bracket when painting valance panel.

- 15 - 22 LBS FT.
- 75 - 95 LBS IN.
- 20 - 30 LBS FT.
**ASSEMBLY INSTRUCTIONS**

**1969 CAMARO 12000 SERIES**

**NOTE:** All gap tolerances between hood & adjacent panels to be held constant as far as possible.

- **0.06 to 0.18 gap between hood & grille (flush + 0.06)**
- **0.06 to 0.20 gap between hood & fender (flush + 0.06)**
- **Grille to fender measured at room temperature.**
- **Flush to 0.090 inch gap.**

**CHECKING**

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**Note:** Adjust to align rear bumper parallel to tail lamp housing.

---

**UPC**

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ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

SHEET TITLE

A1 CONTENTS
A2 PARKING & SIDE MARKER LAMPS
A3 HEADLAMP MOUNTING
A4 GEN. & FWD. LAMP HARNESS WIRING & L-6 GEN. WIRING
A5 HORN ASSEMBLY & HEADLAMP WIRING
A6 ENGINE WIRING-L-6 ENGINE
A7 ENGINE WIRING-V-8 ENGINE
A8 BATTERY TRAY
A9 BATTERY CABLES
A10 BATTERY & CABLES-L-6 ENGINE
A11 BATTERY & CABLES-V-8 ENGINE
A12 HEADLAMP AIMING

B1 INSTRUMENT CLUSTER INSTALLATION
B2 LIGHT SWITCH & CIGARETTE LIGHTER
B3 FUSE PANEL ASSEMBLY
B4 INSTRUMENT PANEL WIRING HARNESS
B5 INSTRUMENT PANEL WIRING HARNESS

B6 DIMMER SWITCH & STOP-LAMP SWITCH
B7 PARKING BRAKE ALARM
B8 COURTESY LAMP WIRING

1 C1 DIR. SIG. LEVER & HAZARD SWITCH KNOB
C2 BACKING LAMP SWITCH
C3 SPEEDOMETER SHAFT
C4 REAR LICENSE LAMP

2 C5 STRG WHEEL HORN BUTTON & SHROUD EMS

D1 WIRING DIAGRAM-ENG.COMPARTMENT
D2 WIRING DIAGRAM-FUSE PANEL
D3 WIRING DIAGRAM-INSRUMENT PANEL
D4 WIRING DIAGRAM-BODY & REAR END LIGHTING

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ELECTRICAL-CONTENTS

12000

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UPC 12 A1
ASSEMBLY INSTRUCTIONS

1. 9419755 NUT
2. 9427942 BULB
3. 916813 LAMP ASM-SIDE MARKER
4. 3943269 BEZEL
5. 916911 PARKING LAMP
6. 271172 NUT
7. 386081 CLIP

DOCUMENTATION REQUIRED

1. PARKING & SIDE MARKING LAMPS
2. 12000
3. 12
4. A 2

UPC: 12000

FOR CHEVROLET MOTOR DIVISION, GMG

20 - 30 LBS IN.
35 - 50 LBS IN.
**ASSEMBLY INSTRUCTIONS**

**1969 CAMARO 12000 SERIES**

---

**PARTS LIST**

1. 6297540 HARNESS ASM L-6 ENG
2. 6297541 V-8 ENG
3. 2977025 RETAINER
4. 9420415 SCREW
5. **Clip - part of harness asm**
6. 1115890 RELAY & BUZZER ASM
7. 9420431 SCREW
8. 3904222 P. WASHER
9. 121753 L. WASHER
10. 121743 NUT
11. **Part of relay asm**
12. 9420415 SCREW

---

**NOTE**

Alternator output lead must be routed upward to B-plus alternator stud & boot installed with small end downward. Press boot over terminal.

---

**DIAGRAM**

- Engine harness
- To fuse panel
- Fender reinforcement
- To brake fluid warning sw.
- Skirt
- Temp sw. lead (L-6 ENG. only)
- L-6 ENG inlet manifold
- Volt reg
- See UPC 6
- Radiator support
- A/C gen.
- See UPC 6

---

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1969 CAMARO 12000 SERIES

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<td>L. WASHER</td>
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- **SUPPORT ASM - RAD**
- **HARNESS ASM-GEN & FWD LAMP WRG**
- **GROUND TERMINAL (R.H. LAMPS)**
- **PROD. SCREW (CATCH ASM TO HOOD LOCK SUPPORT ASM)**
- **‘OFFSET’ CLIP (Part of Harn)**
- **CHARGING CIRCUIT LEAD CABLE ASM-BAT (POS)**
- **REINF. ASM-FDR FLANGE**
- **SUPPORT ASM-HOOD LOCK CATCH**
- **CATCH ASM - HOOD LOCK**
- **CLIIP (Part of Harn) - 4 PLACES**

**NOTE:** Use middle hole when installing harness for light V-8 Engines.

**NOTE:** Assembly to generator same as L-6 engine.

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**Harvest ASM - GEN & FW2LAMPWR6**

**PRCD. SCREW (CATCH ASM TO HOOD LOCK SUPPORT ASM)**

**HEADLAMP CONNECTOR**

**BRACE-GEN. FRONT**

**HORN BRACKET**

**VIEW A**

**VIEW B**

**12400**

**14 - 22 LBS FT**

**20 - 30 LBS IN.**

**15 - 20 LBS IN.**
ASSEMBLY INSTRUCTIONS

6295051 HARNESS ASM.-ENGINE

3815936 SW. ASM.-OIL PRESSURE

120622 NUT

138479 L. WASHER

3864327 RETAINER

9427325 SCREW ASM.

1993427 SW ASM. WATER TEMP.

3799990 CLIP

3509000 SW ASM. WATER TEMP.

Install clips on outside of heater case

Keep free of chassis paint

L. WASHER

NUT

NUT

NOTE Press boot over switch asm.

100 - 125 LBS IN.

4 - 16 LBS IN.

25 - 35 LBS IN.

13 - 18 LBS FT

YELLOW (TO "R" TERM)

pos. battery cable - see sheet A7 B

PPL TO SW. TERM.
**ASSEMBLY INSTRUCTIONS**

**1969 CAMARO 12000 SERIES**

1. 6297524 HARNESS ASM.
2. 6489356 SWITCH ASM. WATER TEMP OPT.
3. 3815936 SWITCH ASM. OIL PRESS. OPT.
4. 5653197 NUT - Positive (+) post loosen to allow term to be positioned between nut clip.
5. 3906181 CLIP
6. 9422033 STRAP-BINDING

**SWITCH ASM. WATER TEMP OPT.**

**SWITCH ASM. OIL PRESS.**

**NUT - Positive (+) post loosen to allow term to be positioned between nut clip.**

**SWITCH ASM. WATER TEMP OPT.**

**SWITCH ASM. OIL PRESS.**

**NOTE** Press boot over switch asm.

**ENGINE WIRING**

**SPARK PLUG WIRE SUPPORT**

**CONNECTOR (PART OF ENG. HARNESS ASM.)**

**BOLT CLUTCH HOUSING**

**GENERATOR & FWD LMP WIRING HARNESS**

**YELLOW BLACK W/S WIPER MOTOR**

**BALANCE OF ENG HARNESS SAME AS L-6 ENG EXCEPT AS SHOWN (SEE SHEET AG)**

**POSITION AS CLOSE AS POSSIBLE TO ENG WIRING HARN. RETAINER**

**14 - 20 LBS FT**

**100-125 LBS IN**

**20 - 30 LBS FT**

**25 - 35 LBS IN**

**ENGINE WIRING**

**UPC**

**DATE**

**SYN**

**REV**

**REF:**

**L-85090 L-85636**

**DATE:**

**226 5-15**

**DWG:**

**4-26**

**E7**

**SHEET:**

**A7**

**12**
Radiator Support

Fender Skirt

BATTERY

NOTE: Lip of clamp must fit in slot of battery.
CAUTION When assembling battery cable terminals to battery, do not open beyond position shown or permanent set and loose connections will result.

With terminals fully open push onto battery post as far as possible at least flush with or below top of post.

Do not drive terminal onto post with hammer or any other tool

10 - 16 LBS FT
15 - 22 LBS FT

BATTERY CABLES

UPC   DATE  SYM  REVISION RECORD  AUTH  DR  CR

12000  12      W/S-66 B. DOC. REQ'D REMOVED — 26-26
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. BATTERY ASM.

2. CABLE ASM. (Positive)

3. CABLE ASM. (Negative)

4. RETAINER

5. NUT

6. RUST PREVENTIVE .125 OZ.

7. HOE L. WASHER

8. SCREW

9. FELT WASHER

10. LUB HYPOID .009 LBS.

CAUTION: To prevent diode damage, all connections including generator, regulator and relay must be tightened before positive battery terminal is connected.

See Sheet A9

72 - 108 LBS IN.
20 - 30 LBS IN.

# CHEVROLET MOTOR DIVISION, GMC

UPC

BATTERY & CABLES

12 - 12000 L6 ENGINE

A10

DATE

SYN

4 - 30

REV

RV

REFERENCE

A3

DATE

77753

CIRCUIT LEAD

JUNCTION BLOCK

RADIATOR SUPPORT

STARTING MOTOR SOLENOID

HOLE

6a

32a

CAUTION

HOLE

32a

SEE SHEET A9

SEE SHEET A9

SEE SHEET A9

SEE SHEET A9
After assembly cover entire top
Both Terminals

CAUTION: To prevent diode damage, all connections including generator, regulator and relay must be tightened before positive battery terminal is connected.

NOTE: Clips part of engine. Bend to position shown.

72 - 108 LBS IN.
20 - 30 LBS IN.
60 - 90 LBS IN.
HEADLAMPS ARE TO BE AIMED AS FOLLOWS:

1. Headlamp aim to be set with mechanical almer that conforms to SAE J602 with the exception that almer calibration shall be set to read 0" U/D and 0" R/L when aiming planes are in true vertical and horizontal alignment.

2. Vehicle to be curb minus 1/2 tank of gasoline or equivalent.

**PRODUCTION SETTING - ALL HEADLAMPS**

<table>
<thead>
<tr>
<th>Vertical Aim</th>
<th>Horizontal Aim</th>
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<tr>
<td>1.0&quot; Up*</td>
<td>0&quot; R/L</td>
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</table>

*Vertical aim specification to be modified as required to compensate to one-half fuel tank load and other build conditions.

**CHECKING LIMITS - ALL HEADLAMPS**

<table>
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<tr>
<th>Vertical Aim</th>
<th>Horizontal Aim</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; Up ± 3.5&quot;</td>
<td>0&quot; R/L ± 4&quot;</td>
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</table>
INSTRUMENT CLUSTER INSTALLATION

1. CLUSTER ASM
2. SCREW ASM
3. "U" NUT
4. NUT
5. CLIP ASM
6. SCREW

INSTRUMENT PANEL ASSEMBLY

INSTRUMENT PANEL LOWER REINFORCEMENT

15 - 20 LBS IN.
20 - 30 LBS IN.
1969 CAMARO 12000 SERIES

**ASSEMBLY INSTRUCTIONS**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>UPC</th>
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<tbody>
<tr>
<td>3940195</td>
<td>SWITCH ASM-LIGHT</td>
<td>#7002184</td>
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<tr>
<td>3937657</td>
<td>STRAP</td>
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<tr>
<td>3919021</td>
<td>NUT</td>
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<tr>
<td>3937643</td>
<td>ROD ASM</td>
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<td>*3794299</td>
<td>RETAINER</td>
<td>#7027625</td>
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<tr>
<td>*3794298</td>
<td>HOUSING ASM</td>
<td>#7033520</td>
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*INDICATES A COMBINATION TO BE USED OPTIONAL WITH A COMBINATION INDICATED BY #.

**Notes:**
- CONNECTOR—Part of instrument panel wiring harness.
- ASH TRAY
- LIGHT SWITCH
- CIGARETTE LIGHTER
- SCREW & WASHER—SEE UPC 12
- SCREW—SEE UPC 1
- INSTR. PNL WIRING HARN GROUND
- **NOTE:** See Misc. Shipping List UPC 0.
- 20 - 30 LBS IN.
- 10 - 20 LBS IN
ASSEMBLY INSTRUCTIONS
3940195
1969 CAMARO 12000 SERIES

1. 9428475 SCREW
2. A. 3928799 FLASHER ASM.-Traffic Haz.
   B. 3904868 OPT.
   3934200 OPT.

HOLE IN DASH PANEL

FUSE PANEL ASM.
(PART OF INST PANEL WIRING HARN)

12 - 17 LBS IN.

CHEVROLET MOTOR DIVISION, GM/C

<table>
<thead>
<tr>
<th>PART</th>
<th>DESCRIPTION</th>
<th>UPFC</th>
<th>DATE</th>
<th>SYM</th>
<th>REVISION</th>
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<td>SHEET X</td>
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166.
ASSEMBLY INSTRUCTIONS

3940195

1. TAPE
   A. (4 in.) Instrument pnl compt lamp wire to harness.
   B. (4 in.) Insulator to instrument pnl compartment lamp terminal.

2. 9417863 BULB-HEATER CONTROL

3. 2962664 INSULATOR

4. 121752 L. WASHER

5. 9415464 SCREW

6. 3866440 CLIP

7. A. 3909545 FLASHER ASM
   B. 383638 OPT

8. 9419303 SCREW

9. 9419663 SCREW

10. 3903405 CLIP

11. 445109 NUT

15 - 20 LBS IN.
20 - 30 LBS IN.

1969 CAMARO 12000 SERIES

| INSTRUMENT PANEL WIRING HARNESS |

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>TAPE</td>
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<tr>
<td>2</td>
<td>BULB-HEATER CONTROL</td>
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<td>3</td>
<td>INSULATOR</td>
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| REPAIR PARTS |

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<td>CLIP</td>
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<td>FLASHER ASM</td>
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<td>OPT</td>
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<td>9419663</td>
<td>SCREW</td>
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<td>3903405</td>
<td>CLIP</td>
</tr>
<tr>
<td>445109</td>
<td>NUT</td>
</tr>
</tbody>
</table>

| OPERATING INSTRUCTIONS |

1. Connect TAPE to harness.
2. Connect BULB-HEATER CONTROL to instrument pnl compartment lamp terminal.
3. Connect INSULATOR to instrument pnl compartment lamp terminal.

| ATTACHMENTS |

- TO INSTRUMENT PANEL WIRING HARNESS
- TO HEATER RESISTOR
- TO HEATER CONTROLS
- TO CIGAR LIGHTER

| VIEW A |

- BRACE
- GROUND WIRE
NOTE: Pull wire taut between clip & socket.

15-20 LBS IN.
After adjustment of brake pedal, adjust switch asm. so that electrical contact is made when brake pedal is depressed to dimension shown.

20 - 30 LBS IN.
10 - 15 LBS IN.
1. 134551 NUT
2. 121753 L. WASHER
3. 3934201 SWITCH ASM.
4. 3954295 OPT
5. 3951279 STRAP

**NOTE**
Route wire over top of body harness conn as shown.

35 - 50 LBS IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1 3935929 SUPPORT
2 193125 BULB
3 9419322 SCREW

COURTESY LAMP WIRING

25.25 (REF)
22.62 (REF)

15 - 25 LBS IN.

UPC 12

COURTESY LAMP WIRING

12000 (CONV)

DATE SYM

REV. 24-B37 SCREW 3-42-60

AUTH. DR. CK

SHEET 1/2
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1 398165  KNOB ASM-HAZARD SW
2 3961517  LEVER-DIR SIG CONTROL
3 3921449  KNOB ASM-DIR SIG CONTROL
4 9420721  SCREW

- HARNES S ASM-INST PANEL WIRING
- COLUMN ASM-STRG(UPC 9)
- CONTACT ASM (SHEET C5)
- SPRING (SHEET C5)
- COVER-SHAFT LOCK (UPC 9)
- SWITCH ASM-TURN SIG (Part of Column Asm-Strg)
- OPENING IN STRG SHAFT LOCK (Part of Column Asm-Strg)

3 - 5 LBS IN.
15-25 LBS IN.
INSTALLATION OF BACKING LAMP SWITCH

1. Position the column shift tube in reverse detent using the 1st-Reverse lower shift lever.
2. Position switch on column with drive tang in slot in shift tube and right side of tang contacting right surface of shift tube slot.
3. Holding switch in position, install the two attaching screws and torque to specifications. (Moving gear selector lever out of reverse position will break shear pin).
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

CAUTION! Shaft asm. to cluster & cluster asm. to instrument panel to be made prior to shaft grommet installation & clip positioning to avoid kinking.

DASH TO MOTOR MOUNT RAIL BRACE L.H. SIDE

INSTRUMENT CLUSTER

PUSH-ON FERRULE TO SPEEDOMETER

INSTRUMENT PANEL HARNESS

CLUTCH PEDAL

SPEEDOMETER SHAFT

5-10 LBS. IN.
20-80 LBS. IN.
10-15 LBS. IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 910967 LAMP ASM-LICENSE PLATE
2. 9414724 SCREW

NOTE: Grommet (fixed in position along wire) is part of lamp asm.

15 - 25 LBS IN.

---

<table>
<thead>
<tr>
<th>TITLE</th>
<th>UPC</th>
<th>DATE</th>
<th>SYM</th>
<th>DIVISION RECORD</th>
<th>AUTH.</th>
<th>DR.</th>
<th>CK</th>
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ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 9411466  NUT
2. 3939755  EMBLEM
3. 3939753-4  BUTTON-HORN L. & R.H.
4. 9428575  SCREW ASM
5. 382116  SPRING
6. 3939746  CONTACT ASM
7. 3724851  TAPE 1 IN., 1/2 in. each side used to tape horn contact wire to horn shroud attaching boss.

SHROUD ASM (UPC 9)

STEERING WHEEL ASM (UPC 9)

SCREW ASM (UPC 9)

COLUMN ASM-STRG (UPC 9)

ST: 10 - 15 LBS IN.
4: 15 - 20 LBS IN.

STEERING WHEEL HORN BUTTON & SHROUD EMBLEM

<table>
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<td>12</td>
<td>C5</td>
<td>10/68</td>
<td>12/68</td>
</tr>
</tbody>
</table>
The following parts are located in UPC 0.

MISCELLANEOUS LABELS & STICKERS
IDENTIFICATION NO. PLATE
CUSTOMER VEHICLE PROTECT O'PLATE
MISCELLANEOUS SHIPPING LIST
SHIPPING PROTECTION (Seat Covers, Wax)
LUBRICATION, COOLING SYSTEM, GASOLINE & REFRIGERANTS
PLASTIC CEMENT & SEALERS

UPC 10
AUTO JACK
STOWAGE
1969 CAMARO 12000 SERIES

ASSEMBLY INSTRUCTIONS

1. 3784845 NUT
2. 9418828 NUT
3. 3945767-8 BRACKET ASM-L. & R.H.
4. 3945767-8 BRACKET ASM-L. & R.H.
5. 1362249 SPL WASHER
6. 9419099 BOLT
7. 9418822 BOLT
8. 3949621-2 EXTENSION ASM-L. & R.H.
9. 9780422 SCREW ASM
10. 3907444 SPL NUT
11. 3945756 BRACKET
12. 3374534 BUMPER
13. 9420415 SCREW
14. 9418931 NUT
15. 103321 L. WASHER

SUPPORT ASM.
WELD NUT

15 - 22 LBS FT
20 - 30 LBS FT
60 - 80 LBS FT
20 - 30 LBS IN.

FRONT BUMPER BRACKETS

12000

UPC 14 A2
ASSEMBLY INSTRUCTIONS

3940195

6255899 BOLT
120394 P. WASHER
103321 L. WASHER
9418931 NUT
9425691 NUT
128144 P. WASHER
3945760 CUSHION ASM
3943275 CUSHION

3945769-70 BRACKET-L & R.H.
3918503 SCREW ASM
3927422 BAR
3945758 BOLT
3872455 SCREW ASM

NOTE: Assemble item 9 to item 11 before assembling to body.

14 - 20 LBS FT
15 - 22 LBS FT

---

CHART OUT MOTION GDC

FRONT BUMPER

UPC
14

DATE

A3

REVISED 9/7/69

AUTH. DR CK

---

1-7-69 7229795-4 FILLER R/HRD 22260-63
**ASSEMBLY INSTRUCTIONS**

**BODY-UPC 1 (A01-E99)**

*A39 BELT-Seat-Frt. & Rr.-Deluxe-F/B
*A48 BELT-Seat-(Less)-(Export)
*A01 GLASS-Body Tinted-F/B
*A02 GLASS-Windshield Tinted
*A85 HARNESS-Shoulder-Deluxe-F/B
*A81 HARNESS-Shoulder-Std.-F/B
*A84 HARNESS-Shoulder-Rr. Seat-Deluxe-F/B
*A85 HARNESS-Shoulder-Rr. Seat-Std.-F/B
*A67 SEAT-Rear-Folding-F/B
A31 WINDOW-Electric

B37 FLOOR MATS-Equipment
B93 GUARD-Door Edge

C60 AIR CONDITIONING
C50 DEFROSTER-Rear Window
C48 HEATER-(Less)
*C05 TOP-Folding-F/B
C06 TOP-Folding-Power Lift
*C08 TRIM-Roof Exterior Soft-F/B

D80 AUXILIARY PANEL & VALANCE
D55 CONSOLE-Front Compartment
*D33 MIRROR-Remote-F/B
DX1 STRIPES-Front End & Body Side
D91 STRIPE-Front End Paint
D96 STRIPE-Body Side

**FRAME-UPC 2 (F01-F39)**

**FRONT SUSPENSION-UPC 3 (F40-F99)**

*F40 SUSPENSION-Frt. & Rr.-H.D.- (Export)
*F41 SUSPENSION-Frt. & Rr.-Spec. Perf.

SEE MISC. SHIPPING LIST-UPC 0
* DENOTES OPT. INDEXED ONLY (SEE INTROD. SHT)
F/B DENOTES FISHER BODY INSTALLED

**REAR SUSPENSION-UPC 4 (G31-H99)**

*G76 AXLE-Rear-3.36 Ratio
G80 AXLE-Rear Positraction
*GT1 AXLE-Rear-2.56 Ratio
*G97 AXLE-Rear-2.73 Ratio
*G92 AXLE-Rear-3.08 Ratio
*G94 AXLE-Rear-3.31 Ratio
*G95 AXLE-Rear-3.55 Ratio
*G31 SPRING-Rr.-Spec. (See UPC 0 & RPO V32)

*H01 AXLE-Rear-3.07 Ratio

**BRAKE-UPC 5 (J50-J99)**

J52 BRAKE-Disc-Front
J50 BRAKE-Vacuum Power

**ENGINE-UPC 6 (K01-L99)**

KD5 CLOSED ENG. POS. VENT.-H.D.
K02 DRIVE-Fan
K85 GENERATOR-AC 63 AMP
*K79 GENERATOR-AC 42 AMP
K05 HEATER-Engine

*LF7 ENGINE-V-8-"327" Cu. In.- (2 BBL) Reg Fuel
*L22 ENGINE-L-6-"250" Cu. In.
*L90 ENGINE-L-6-Low Comp.- (Export)
L65 ENGINE-V-8-"350" Cu. In.- (2 BBL)
L48 ENGINE-V-8-"350" Cu. In.
L35 ENGINE-V-8-"396" Cu. In.
*L89 ENGINE-V-8-"396" Cu. In.- Aluminum Head
L34 ENGINE-V-8-"396" Cu. In.-Hi.-Perf.
*L92 ENGINE-V-8-Low Com.- (Export)
ASSEMBLY INSTRUCTIONS

TRANSMISSION-UPC 7 (M01-M99)

M38 TRANSMISSION-3 Speed Automatic
M11 TRANSMISSION-Floor Shift Control
M20 TRANSMISSION-4 Speed
M21 TRANSMISSION-4 Speed-C.R. (See M20)
M22 TRANSMISSION-4 Speed-H.D. (See M20)
M35 TRANSMISSION-P/Glide
M40 TRANSMISSION-3 Speed Automatic
MB1 TRANSMISSION-P/Glide-2 Speed Manual

*MA6 CLUTCH-H.D.

FUEL & EXHAUST-UPC 8 (N01-N29)

N10 EXHAUST-Dual
NC8 CHAMBERED EXHAUST

STEERING-UPC 9 (N30-N49)

N40 STEERING-Hydraulic
*N44 STEERING-Special
N33 STEERING WHEEL-Tilt
N34 STEERING WHEEL-Wood Grained

WHEEL & TIRE-UPC 10 (N50-T49)

N96 COVER-Wheel Trim-Simulated Mag. 1
*N95 COVER-Wheel Trim-Simulated Wire 1
N65 SPARE TIRE-Space Saver Wheel

*P06 WHEEL TRIM RING 1
P01 COVER-Wheel Trim 1 (See UPC 10)
PA2 COVER-Wheel Trim-Simulated Mag. 1
*P38 TIRES-(Less)
P7W TIRES-O.E. White Stripe
PW8 TIRES-O.E. Red Stripe (See PW7)
PY4 TIRES-F/B (See PW7)
PY5 TIRES-F/B (See PW7)
*P71 TIRES
P28 WHEEL-Tire Spec. 15 in. 1
PL5 TIRES-O.E. (See PW7)

SHEET METAL-UPC 11 (T50-T59)

1 SEE MISC. SHIPPING LIST UPC 0
* DENOTES OPT. INDEXED ONLY (SEE INTROD. SHT.)
F/B DENOTES FISHER BODY INSTALLED

ELECTRICAL & INSTRUMENT-UPC 12 (T60-U99)

T60 BATTERY-H.D.
*T70 HEADLAMP-(Export)
U73 ANTENNA-Rear Manual
U35 CLOCK-Electric
U17 Console-Front Compt. Instrument Cluster
U15 INDICATOR-Speed Warning
U28 LAMP-Ash Tray
U27 LAMP-Glove Compartment
U25 LAMP-Luggage Compartment
U46 LAMP-Monitor
U26 LAMP-Underhood
U29 LIGHTS-Instrument Panel Courtesy
U63 RADIO-Push Button
U66 RADIO-Push Button-AM/FM (See U63)
U79 RADIO-AM/FM
U80 SPEAKER-Auxiliary
*U18 SPEEDOMETER-(Export)
U57 TAPE PLAYER
U56 TACHOMETER

RADIATOR & GRILLE-UPC 13 (V01-V29)

V01 RADIATOR-H.D.

BUMPERS & MISCELLANEOUS-UPC 14 (V30-V99)

*V48 ENGINE COOLANT-Maximum Protection
V31 GUARD-Front Bumper
V32 GUARD-Rear Bumper (See V31)
*V60 PUMP-Tire-Foot Operated-(Export)
VE3 BUMPER FACE BARS (Less Chrome)
*V78 PLATE-Compliance-(Less)-(Export)
V75 COMPOUND-Traction Dispenser

SPECIAL ITEMS (Z01-Z99)

*ZJ9 AUXILIARY LIGHTING GROUP
*Z14 AIR CONDITIONING-Body Conversion
Z87 INTERIOR-Deluxe
Z21 MOLDING-Exterior
Z23 PACKAGE-Interior Decor
Z22 PACKAGE-Rally Sport
*Z12 SPEEDOMETER-Driven Gear
Z28 SPECIAL ENGINE EQUIPMENT
*Z7 WHEEL-Hub Cap & Trim Ring-Special
*ZK3 DELUXE SEAT BELT & SHOULDER HARN.
ZK8 TIRE PRESSURE STICKER (See UPC 0)
ZL2 SPECIAL DUCTED AIR HOOD

TRIM & PAINT COMB. (700-999)

1969 CAMARO 12000 SERIES

[Table of options and indices]

[Chevrolet Motor Division, GMC]
NOTE: The following components are not illustrated in this R.P.O. (Except as shown below) See Parts List or Bill of Materials for part numbers.

UPC 12 ELECTRICAL

12L CIRCUIT BREAKER & WIRE ASM. - Assembles same as RPO C06

NOTE: Plug into fuse panel receptacle marked "Acc. Fused".

Assemble same as production—See Parts List or Bill of Materials for part numbers.

DOCUMENTATION REQUIRED

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WINDOW ELECTRICAL CONTROL

12000

P. U. REF. A1

REV 5/3 DF

AUTH. DE CK
1 3949501-2 GUARD DOOR EDGE L. & R.H.
1969 CAMARO 12000 SERIES

ASSEMBLY INSTRUCTIONS

A1 CONTENTS

1. 3909136 COVER
2. 3724851 TAPE
   A. 1 inch-Def duct hole
   B. 
   C. 1 inch-Heater hose clip hole
   D. 1 inch-Heater blower & air inlet
      asm screw hole
3. 9419303 SCREW

A2 INSTRUMENT PANEL HOLE COVER & HARNESS TAPING

4. 3823111 COVER
5. 67a CEMENT 3,92 oz.
6. 74a COMPOUND .76 oz.
7. Apply around outer edge.
8. 3949647 MAT ASM
9. 3868790 FASTENER
10. For hole piercing information see UPC 0.

NOTE 1: Balance of installation same as reg. prod.

NOTE 2: Cut heater blower wire as close to harness as possible.

ENG WIRING HARNESS

15 - 25 LBS IN.

CHEVROLET MOTOR DIVISION, GMC

UPC

DATE  SYM  REV  модели REV  модели REV  модели

C48
A1

191
ASSEMBLY INSTRUCTIONS

A. (6 in.) Tape resistor conn & leads back to instrument panel harness.
B. (4 in.) Tape heater cont lamp socket & lead back to inst panel harness.
C. (6 in.) Tape heater cont switch conn back to inst panel harness.

3840195

3724851 TAPE

1. 3724851 TAPE
2. 3894533 CLIP
3. 9428468 SCREW
4. 3948515 COVER

11/16

VIEW A

1969 CAMARO 12000 SERIES

3839835 TAPE-ADHESIVE (18 INCHES)
2 Pieces 9 inches long.

3903478 COVER
3923905 SCREW
1191141 CAP
9414923 CLAMP
438159 PLUG
444588 OPT
9422033 STRAP.

2 - Pieces 9 inches long

3839835 TAPE-ADHESIVE (18 INCHES)

15 - 20 LBS IN.
30 - 40 LBS IN.
12 - 18 LBS IN.
100 - 125 LBS IN.

L-6 ENGINE

ALL V-8 ENGINE

C48
A2

UPC 3724851

DATE SYM

REVISED RECORD

AUTL. DR. CK

LENSHEATER EQUIPMENT-INST.
PANEL HOLE COVER & HARNESS TAPING

3724851

12000

192

192
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

SHEET 1

TITLE

CONTENTS

1

2

3

4

5

3959229

SWITCH ASM

3937659

HOUSING

3940271

BEZEL

3909539

NUT

4154886

CLIP

NOTE: Plug into receptacle marked "ACC" or "IGN".

NOTE: Body wiring & connectors to be installed by Fisher Body.

15 - 22 LBS IN.

12000

REAR WINDOW DEFOG - CONTENTS

C50

A1

CHEVROLET MOTOR DIVISION, GMC

UPC

DATE

REVISED RECORD

AUTH OR Ck

193

5-69

SHEET A2, REV. E

D1

L-47321

L-66742

4-29

L

L

L

5-69

SHEET A2, REV. E

L-47321

L-66742

4-29

L

L

L

5-69

SHEET A2, REV. E

L-47321

L-66742

4-29

L

L

L
The following components are not illustrated in this RPO
See Parts List or Bill of Material for part numbers.

UPC 3  FRONT SUSPENSION
   3C  FRONT SPRINGS-○

UPC 4  AXLE ASM-(REAR)-○

UPC 6  ENGINE
   6  ENGINE----same as RPO M35-○
   6K2  HOSE-RADIATOR INLET-○
   6M1  CARBURETOR-○
   6Y4  SPARK PLUG-WIRE RPO L34 OR L35-○

UPC 7  TRANSMISSION
   7A  TRANSMISSION-or applicable RPO-○

UPC 10  WHEELS & TIRES
   10B  TIRES-○

UPC 12  ELECTRICAL
   12A  CABLE ASM-BATTERY-○

UPC 13  RADIATORS
   13A  RADIATOR ASM-Assembles same as RPO V01.
   13E  FAN SHROUD-○

○ Assembles same as production. See parts list or bill of material for part number.
1. Provided by Fisher Body
2. 3858749 "J" NUT
3. 3895931 SPRING
4. 1998929 VACUUM ELEMENT
5. 9419623 SCREW
6. 3895927 BRACKET
7. 138479 L, WASHER
8. 120814 NUT
9. 4720885 SCREW

---

\#1 SCREW (4)
\#1 VALVE ASM.
\#1 KICK PANEL

---

- 204/208 Dia (2) holes inside shroud panel, use existing holes in kick panel as template.

---

\[\text{CHEVROLET MOTOR DIVISION, GMC}\]
\[\text{UPC}\]
\[\text{DATE}\]
\[\text{SYN}\]
\[\text{DIVISION RECORD}\]
\[\text{MATERIAL DE C.}\]

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<td>3</td>
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<td>4</td>
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<td>801706, RV</td>
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\[\text{SHEET}\]
\[\text{SHEET}\]
\[\text{SHEET}\]
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. SCREW
2. PLATE
3. SEAL
4. CEMENT (.016 OZ.) Seal to plate.
5. (.002 OZ.) Seal to housing.
6. (.0025 OZ.) Seal to housing.
7. CONTROL ASM-VACUUM SEAL
8. LUB .006 OZ
9. HOUSING
10. NUT
11. SEAL
12. VALVE ASM.
13. CLIP
14. LINK ASM
15. SCREW
16. W. WASHER
17. CABL. NUT

Before torq.:
- Bottom vac control arm in housing, hold valve closed with 2 lbs min load.

13 - 18 LBS IN.
20 - 30 LBS IN.
15 - 20 LBS IN.

AIR CONDITIONING-PLENUM VALVE

C60

A4

DATE SN1 REVISION RECORD AUTH. CR CE
L-79558 A5 12-3-61 .916 OZ .916 OZ 12-3-61 1 L-79558 L- L- L- 197
AIR CONDITIONING-PLENUM VALVE

TANG ON HOUSING
TANG ON CLIP

VALVE
NUT
WASHER
LINK

SECTION W-W

HOUSING
PLATE

VALVE

VIEW C
(SEE SHT. A4)

VIEW D

13 - 18 LBS IN.

1969 CAMARO 12000 SERIES

1 9419303 SCREW
2 3891706 SPRING
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3939653 PAD ASM
2. 9420372 SCREW
3. 3942652 OUTLET ASM
4. 3942675 SPACER ASM
5. 381700 NUT
6. 3942682 VALVE
7. 3946982 CABLE ASM
8. 9421936 SCREW
9. 7003137 CLIP
10. 3937151 SHAFT
11. 9427498 "U" NUT
12. 9421089 P. WASHER

20 - 30 LBS IN.
15 - 25 LBS IN.

AIR CONDITIONING-R.H. OUTLET

- Chevrolet Motor Division, GMC

UPC: C60
A7

DATE 7-18-69
REVISION 1
AUTH. RC

REVISED
2. WAS 2419322 SCREW 97255
3. ITEM "Z" ADDED

RC
9-20-68
4. WAS 3419322 SCREW 20171 LCOP
ASSEMBLY INSTRUCTIONS

1. 9427761  "U" NUT
2. 3963774  CHART - OUTLET ASM
3. 3937139  SCREW

15 - 20 LBS IN.
20 - 30 LBS IN.
NOTE 1 For mounting of radiator see RPO V01.

HOSE AND TUBE ASM
SEE SHEET D-5

5 - 15 LBS IN.
132 - 156 LBS IN.
25 - 35 LBS IN.
40 - 60 LBS IN.

RADIATOR SUPPORT

ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1 3903539 NUT
2 9421394 SPL WASHER
3 3903536 SCREW
4 8526398 GASKET
5 9427411 SCREW
6 9419303 SCREW
7 3792826 CLIP
8 9422336 NUT
9 3907170 CONDENSER ASM
10 9420153 NUT

* CHEVROLET MOTOR DIVISION, G.M.C. *

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<th>TYPE</th>
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204
ASSEMBLY INSTRUCTIONS

1. 9420065 SCREW
2. 3925734 BRACKET-UPR
3. 3012944 RECEIVER & DEHYDRATOR ASM
4. 3925733 BRACKET-LWR

19-27 LBS IN.

- CHEVROLET MOTOR DIVISION, G M C

C60

AIR CONDITIONING-RECEIVER & DEHYDR.

MOD

12000

2015-03-24

DATE 2015-03-24

1-226-2

REMAINING SHEETS 1-226-2

1-226-2

1-226-2

1-226-2
Attach baffle to damper first, then install damper to radiator support.

15 - 22 LBS FT
35 - 50 LBS IN
3940195

1. 3937127-8 SEAL L. & R.H.
2. 3955918 SEAL
3. 3937131 396 & 427 ENG.
4. 3949856 SHIELD-396 & 427 ENG.
5. 9420825 SCREW
6. 9419275 P. WASHER

Remove backing for installation.

65 - 80 LBS IN.

0.25

.277/.281 DIA. HOLE - 3 PLACES - "396" ONLY

RADIATOR SUPPORT

1969 CAMARO 12000 SERIES

AIR CONDITIONING-SEALS & SHIELD

C60

B4

UPC 12000

DATE SYM. REVISE RECORD AUTH. DR. CHK

CHEVROLET MOTOR DIVISION, GMC
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1 1100845 GENERATOR ASM (MAN. TRANS) (AUTO. TRANS)
2 120368 NUT
3 3937789 BLADE ASM OPT
4 3937780 CLUTCH ASM OPT
5 186634 BOLT
6 187119 L. WASHER
7 9423952 BOLT
8 3876872 PULLEY-CRANKSHAFT
9 3887695 BELT-COMP-2ND TRACK
10 5910692 COMRESSOR
11 3927789 PULLEY-WATER PUMP
12 850801 BELT-GEN (AUTO. TRANS) 1ST TRACK
13 3850803 (MAN. TRANS)-3RD TRACK
14 BELT STRAND TENSION-SEE UPC6

CAUTION: Do not remove shipping straddle plate & plugs from rear of compressor until immediately before assembly of hoses to compressor, to prevent entry of air into system.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

Part number & installation same as RPO KG2.

3972180 PULLEY-CR, SHF "307", "350" ENG
3937787 "396" ENGINE

1100843 GENERATOR

3921934 BELT-GEN-3RD TRACK-"327", "350" ENG WITH MANUAL TRANS

CAUTION: Do not remove shipping straddle plate & plugs from rear of compressor until immediately before assembly of hoses to compressor, to prevent entry of air into system.

PROD AIR PUMP PULLEY (MANUAL TRANSMISSION ONLY)
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

3891523 FITTING ASM.
3891524 TEE ASM.

* PLUS TORQUE REQUIRED TO ALIGN FITTING

FORWARD

100 - LBS IN.

L-6 ENGINE

RPO C60 VACUUM HOSE

V-8 ENGINE

TRANSMISSION VACUUM HOSE

VIEW A (AUTO. TRANSMISSION)

RPO C60 VACUUM HOSE

VERTICAL 15°

FORWARD
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. SUPPORT
2. BOLT
3. L. WASHER
4. NUT
5. BOLT
6. P. WASHER
7. BRACKET-FRONT
8. SHIM—Use as required

9. BRACKET-REAR
10. BOLT
11. PLATE
12. BOLT
13. L. WASHER
14. HIGH TENSION WIRE
15. SPARK PLUG WIRE—CYL NO 4
16. SPARK PLUG WIRE—CYL NO 5
17. SPARK PLUG WIRE—CYL NO 3
18. SPARK PLUG WIRE—CYL NO 6
19. RETAINER
20. PRODUCTION PLUG WIRE

NOTE: Route over rear bracket between compressor support & compressor.

NOTE: Insert anti-rotation tang of coil into bottom hole of mounting plate.

SEE SHT. D6 FOR ATTACHING PARTS

SEE SHT. E2 FOR ATTACHING PARTS

15 - 24 LBS FT
20 - 30 LBS FT

AIR CONDITIONING-COMPRESSOR MOUNTING

C60
C4

UPC: C60

DATE SYM: 2244
REVISION RECORD: 1233222
AUTH: D R C: 22445
See sheet E3 for compressor ground wire & attaching parts.

1. Pivot
2. Pivot
3. Bracket-front support
4. Bracket-rear support
5. Bolt
6. Bolt
7. Bolt
8. Bolt
9. Washer
10. Bolt
11. Washer
12. Bolt
13. Spacer
14. Bolt
15. Bolt
16. Bolt

20 - 30 LBS FT
18 - 22 LBS FT
Part number & installation same as RPO L35.

150 - 175 LBS IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

GASKET
3940195

SPL WASHER
606404

STUD ASM
3895910

CLAMP
3859062

EVAPORATOR ASM
3942654

SCREW ASM
3863393

CLAMP
3135649

HOSE
3148473

SCREW
3873950

NUT
9419912

SEALING COMPOUND (.04 OZ)
3826645

REFRIGERANT (3.75 LBS)
3140852

SEAL
5910667

ADHESIVE (.06 OZ)
9419727

OIL REFRIGERANT (.0063 QTS.)
3873914

NOTE: At time of application, sealer bead must be .38 dia. minimum-measured perpendicular to flange.

NOTE: .25 inch minimum clearance between equalizer line & all adjacent brackets, hoses & clamps.

Hose & Tube (rec. deh. to expansion valve)

Hose & Pipe (Part of fitting & muffler asm.)

- 35 - 40 LBS FT
- 30 - 40 LBS IN.
- 60 - 84 LBS IN.
- 20 - 30 LBS IN.
- 35 - 50 LBS IN.
- 2 - 5 LBS IN.
- 25 - 35 LBS IN.

UPC:
C60
D1

DIVISION RECORD

AUTH. OR CODE

GM DIV.

CHEVROLET MOTOR DIVISION, GM

AIR CONDITIONING-EVAPORATOR
P.O.A.S.T. VALVE

12000
ASSEMBLY INSTRUCTIONS

1. SCREW 2. BRACKET 3. EVAPORATOR ASM.

NOTE: Evaporator assembly same as sheet D1 except as shown.

Hose & Pipe (part of fitting & muffler asm.)

Valve asm. (See Sht. D1)

Pressure ratings:
- 35 - 50 LBS IN.
- 20 - 30 LBS IN.
- 35 - 40 LBS IN.

CHEVROLET MOTOR DIVISION, GMC
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<tr>
<td>3706737</td>
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<td>181643</td>
<td>BOLT</td>
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<tr>
<td>3949900</td>
<td>FITTING &amp; MUFFLER ASM-L-6 ENG</td>
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<tr>
<td>3949901</td>
<td>V-8 ENG</td>
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<td>3949902</td>
<td>M-4 ENG</td>
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**ASSEMBLY INSTRUCTIONS**

1969 CAMARO 12000 SERIES

**COMPRESSOR ASM**

**O`RING (PART OF COMP ASM)**

**TO CONDENSER ASM**

**V-8 ENGINE**

**L-6 ENGINE**

**Fitting & Muffler ASM**

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20 - 25 LBS FT

17 - 26 LBS FT

20 - 30 LBS FT
ASSEMBLY INSTRUCTIONS

1. Part of compressor fitting & muffler asm
2. 3140823 GASKET - "O" RING
3. 8526998 GASKET - "O" RING
4. 120530 CLIP
5. 3949903 HOSE & TUBE ASM - See sheet B1 for attachment at condenser
6. 14a OIL REFRIGERANT (.0062 QTS)

NOTE: Route between battery & W/S washer jar.

1/64 Places (2 places) at existing dimples in radiator support.

35 - 40 LBS FT
15 - 20 LBS FT
132 - 158 LBS CI
5 - 15 LBS IN.

20 - 30 LBS IN.

TYPICAL "O" RING INSTALLATION

C60
D4
NOTE: Hook end of clip to compressor bracket flange.

12 - 18 LBS IN.
15 - 25 LBS FT
NOTE: Flow of valve must be in direction indicated by arrow.

R.H. FENDER SKIRT

TYPICAL VIEW

.147 DIA. (2) HOLES AT EXISTING DIMPLES

HOSES - SEE SHEET D6 & D7

FORWARD

OPT "A"

OPT "B"

FLOW OF VALVE

IN DIRECTION

C60

D6.5

SHEET X

222
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<td>2</td>
<td>SEAL</td>
<td>10</td>
<td>HARNESS ASM-A/C</td>
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<td>3</td>
<td>RESISTOR ASM</td>
<td>11</td>
<td>TAPE (6 IN.) L-6 ENG</td>
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<td>GASKET</td>
<td>12</td>
<td>RELAY ASM</td>
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<td>5</td>
<td>ADHESIVE (.02 OZ)</td>
<td>13</td>
<td>SWITCH ASM</td>
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<td>6</td>
<td>FUSE</td>
<td>14</td>
<td>GASKET</td>
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<td>7</td>
<td>SEALER (.1 OZ)</td>
<td>15</td>
<td>CABLE ASM (Negative) L-6 ENG</td>
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<td>8</td>
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<tr>
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<td>STRAP V-8 ENG</td>
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</table>

**NOTE** Six cylinder engine:
Route compressor wire thru clip on fender.

**CAUTION** Do not install conn. until after system has been leak tested.

**NOTE** Balance of asm is same as pr.

**CAUTION** Do not install conn. until after system has been leak tested.

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<th>Value</th>
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<tr>
<td>21 - 30</td>
<td>LBS IN.</td>
</tr>
<tr>
<td>20 - 30</td>
<td>LBS FT</td>
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**VIEW A**

**VIEW B**
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

TAPE
A. (12 in.) Used to tape ext wire to eng wire harness (2) places. (L-6 Engine)
B. (12 in.) Used to tape ext wire & comp lead wire to eng wire harness. (2) places (V-8 Engine)

WIRE ASM-EXTENSION

WIRE ASM-COMP GRD

L. WASHER

BOLT

COMP LEAD WIRE (PART OF A/C HARNESS)

CAUTION | Do not install conn until after system has been leak tested.

V-8 ENGINE ROUTING FOR COMPRESSOR LEAD WIRE (Part of A/C Harness)

GEN & FWD LAMP HARN

HORN RELAY

"BAT" TERM

CLIP & SCREW PART OF RELAY (SEE UPC 12)

20 - 30 LBS FT

AIR CONDITIONING-FRONT WIRING

C60

E3

228
1 6297598 HARNESS ASM (EXC RPO D55)
   6297599 RPO D55 (EXC RPO M35, 38 & 40)
   6297600 RPO D55, M35, 38 & 40

2 3724851 TAPE-Inst panel harness to air conditioning harness.

3 **NOTE** Balance of inst panel harness assembles same as regular production.
NOTE: Cable Instructions for installation of slotted clip cables:
1. Attach Cable to Control Asm.
2. Place Control Temperature Lever in "OFF" position.
3. Place opposite loop of cable on Selector Duct Temperature Lever Pin.
4. Push sheath toward Heater Lever until valve seats & lash is out of cable and control (approx. 5 lbs).
5. Tighten screw to secure cable.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3895903  GROMMET
2. 3895905  HOSE-VACUUM
3. 3949938  CLAMP
4. 3839654  HOSE-VACUUM
5. 3895904  TEE

6. 9428469  SCREW
7. 9427398  SCREW
8. 3891759  CLAMP

CONTROL ASM-AIR INLET PLENUM
SHROUD VENT PANEL
VAC HOSE ASM

NOTE: Thread hose thru grommet.

VIEW A
VIEW B
VIEW C

13 - 18 LBS IN.
30 - 40 LBS IN.

AIR CONDITIONING-VAC CONTROL HOSES

C60

E7

Chevrolet Motor Division, GMC
EVACUATING AND CHARGING EQUIPMENT
(EXAMPLE ONLY – SEE SHEET II)

IN ORDER TO ASSURE PROPER OPERATION OF THE UNIT, THE FOLLOWING STEPS SHOULD BE TAKEN:

A. AFTER THE SYSTEM HAS BEEN INSTALLED, A LEAK TEST SHOULD BE MADE.
   ASSEMBLE AIR COND. HARNESS CONNECTOR TO COMPRESSOR CLUTCH TERMINALS AFTER LEAK TESTING.

B. A FUNCTIONAL TEST OF COMPLETED ASSEMBLY MUST NOW BE MADE. SEE SHEET E11.

C. THE HEATING SYSTEM CAN BE CHECKED BY MOVING THE "TEMP" CONTROL KNOB TO EXTREME DOWN (HOT) POSITION.
   WITH THE "OUTLETS" KNOB IN EXTREME RIGHT (LOWER OUTLETS) POSITION, WARM AIR WILL COME OUT OF THE HEATER OUTLETS.
   WITH THE "OUTLETS" KNOB IN EXTREME LEFT (UPPER OUTLETS) POSITION, WARM AIR WILL COME OUT OF THE AIR CONDITIONING OUTLETS.
Evacuating and Charging the System

1. Remove cap from Expansion Valve inlet and P.O.A.S.T. Valve.
2. Attach Process Coupler Yoke Assembly to process valves uncapped in Step 1.
3. Attach quick-connect fitting from vacuum system to Process Coupler and open valves slowly to evacuate Air Conditioning System.
4. Air conditioning system must be evacuated to a minimum of 25 mm Hg. absolute system pressure (1). After a 15-second hold time (2), the system pressure must not exceed 28 mm Hg. absolute pressure.

(1) System Pressure - the level of evacuation of the vehicle's A/C system once the vacuum source has been removed.
(2) Hold Time - elapsed time which occurs between vacuum disconnect and charge connect.

For those plants which have a longer-than 15-second hold time, the system pressure may be allowed to rise to the values shown below in Table #1.

<table>
<thead>
<tr>
<th>Elapsed Time Between Evacuation and Charge</th>
<th>Acceptable Evacuation Level (mm Hg) per Evacuation and Charge Spec.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-30 seconds</td>
<td>28 mm Hg</td>
</tr>
<tr>
<td>31-60 seconds</td>
<td>30 mm Hg</td>
</tr>
<tr>
<td>61-90 seconds</td>
<td>35 mm Hg</td>
</tr>
<tr>
<td>91 seconds and over</td>
<td>40 mm Hg</td>
</tr>
</tbody>
</table>

5. Disconnect quick-connect fitting from vacuum system to Process Coupler and attach quick-connect fitting from Refrigerant Charging Board to Process Coupler.
6. Charge Air Conditioning System with specified amount of Refrigerant.
8. Leak Test System.

System Leak Test Limits

1. Except as noted in (2) below, all lines, connectors, and system components shall be free of leakage with a detector sensitivity calibration of 1 lb. in 40 years.
2. The compressor seal, sight glass, and Expansion Valve shall show no leakage with a detector sensitivity calibration of 1 lb. in 5 years.

Functional Test

A standard test of the function of the system is to be conducted in the following manner:
1. Doors or windows open.
2. "Outlets" knob at full left position, "Temp" knob at "COLD" (Full outside air) position, "DEFR" knob at "OFF" position.
3. Temperature indicators at condenser inlet and center outlet.
4. Start engine and run at 2000 R.P.M.
5. After one minute the minimum drop in temperature of the air from the center outlet should be as follows:

<table>
<thead>
<tr>
<th>Condenser Inlet Temp.</th>
<th>Center Outlet Temp. Drop (Min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70° F</td>
<td>90° - 110</td>
</tr>
<tr>
<td>80° F</td>
<td>90° - 110</td>
</tr>
<tr>
<td>90° F</td>
<td>90° - 110</td>
</tr>
<tr>
<td>20° F</td>
<td>25° F</td>
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<tr>
<td>30° F</td>
<td>30° F</td>
</tr>
</tbody>
</table>
ASSEMBLY INSTRUCTIONS

3940195
3776292 HOSE
9422033 STRAP
5045605 MOTOR ASM
3957025 HOSE
3957028 HOSE
3957029 NOZZLE
2394722 SPL WASHER

1969 CAMARO 12000 SERIES
8 3827371 CLIP
9 3760758 TEE
10 4919503 VALVE
11 115854 NUT
12 3825545 HOSE

HOUSING

VIEW C

10 - 15 LBS IN.

HOSE, NOZZLE, MOTOR ASM TEE

UPC

DATE

REV

WASHINGTON DIVISION, GMC

CE1

A2

12000

REVISED RECORD

AUTH. OR CE

DWG 6-19-68
**ASSEMBLY INSTRUCTIONS**

**3940195**

**1969 CAMARO 12000 SERIES**

1. 3945962 MIRROR ASM
2. 9785408 NUT

EXISTING HOLES IN MASONITE BOARD

**CAUTION**
Be careful not to tear or damage sunshade fabric.

- 1.00 DIA. HOLE
- **3 1/2 COUPE**
- **3 1/3 CONV.**
- **4 7/8**
- **2 3/4 COUPE**
- **2 1/4 CONV.**

**SUNSHADE VISOR**

**VISOR VANITY MIRROR**

**UPC**

<table>
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<th>DATE</th>
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<th>AUTH. DR CR</th>
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<tr>
<td>SHEET</td>
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</table>
The following parts are not illustrated in this RPO. See Parts List or Bill of Materials for part numbers.

UPC 1 BODY
- 1A-2B INSTRUMENT PANEL PARTS - See RPO Z87
- 1A-2E ASH TRAY ASM
- 1A-2C VENT, HEATING & A/C - See RPO C60

UPC 7 TRANSMISSION
- 7A EXTERNAL CONTROLS - (Components below tunnel) - See applicable RPO Transmission

UPC 9 STEERING
- 9A STRG GEAR & PITMAN ARM

UPC 12 ELECTRICAL
- 12E REAR LAMPS - (Components below tunnel) - See applicable RPO Transmission

The diagram shows a section of a vehicle's interior, focusing on the underbody and seat compartment, with labels for various components such as A1, A2, A3, A4, A5, A6, and A7.
ASSEMBLY INSTRUCTIONS

3940195

1 3938640 SEPARATOR COMPT.-UPPER
2 9421137 SCREW
3 390617 BRACKET ASM
4 3919071 HINGE ASM.
5 3919199 REFLECTOR
6 3858700 SCREW
7 3792287 SPECIAL NUT
8 3938644 SEPARATOR COMPT.-LOWER

1969 CAMARO 12000 SERIES

Paint entire rear portion of the upper and lower seat separator compartment interior cavity with black paint W 30 A848 for a distance of 6.50" forward of rear compartment wall.

9 3919073 SPRING
10 3919198 RETAINER
11 1359887 NUT
12 9420686 SCREW

1/4" DIA.(4) HOLES IN UNDERBODY 424 AT EXISTING HOMES

1 15 - 22 LBS IN
2 15 - 25 LBS IN
3 110 - 150 LBS IN

COST: 12000

FRONT COMPARTMENT FLOOR CONSOLE-
UNDERBODY & SEAT COMPARTMENT

D55 2533-1 9912778 SCREEN REMOVED B0465
2 WAS ITEM 11
3 TORQUE(3) ADDED 2224-VAC
4 TORQUE SPECIFICATION WAS .51"(2)

A2 241
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. 3919121 PLATE-3 SPEED
    3919122 4 SPEED

2. 3949127 PLATE ASM

3. 9421934 SCREW

4. 3949539 EXTENSION-4 SPEED
    3949540 3 SPEED

5. 9428373 SCREW-3 SPEED
    9422957 4 SPEED

NOTE: This part of seat separator lower compartment must be removed for 4 speed transmission.

---

3940195

PLATE-3 SPEED

PLATE ASM

SCREW

EXTENSION-4 SPEED

SCREW-3 SPEED

NOTE: This part of seat separator lower compartment must be removed for 4 speed transmission.

---

10-15 LBS. IN
15-20 LBS. IN
20-30 LBS. IN
110-120 LBS. IN.

---

FRONT COMPARTMENT FLOOR CONSOLE-3 & 4 SPEED TRANSMISSION CONTROL

UPC DATE SYN REVISION RECORD AUTH. OR CE

74-42 3955766 4 SPEED ADDED 22428 ENY4

---

CHEVROLET MOTOR DIVISION, GMC

D55

A4

X-3 SHEET 1
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3949591 PLATE-UPPER
2. 9421934 SCREW
3. 3921827 SEAL
4. 9419755 NUT
5. 3921804 PLATE-LOWER
6. 3919160 DIAL POWERGLIDE
7. 3919161 3 SPD. AUTO.
8. 3921803 PLATE

10-15 LBS. IN.
20-30 LBS. IN.

FRONT COMPARTMENT FLOOR CONSOLE-
AUTOMATIC TRANSMISSION CONTROL

DOCUMENTATION REQUIRED

- CHEVROLET MOTOR DIVISION, G/A/C -
HARNESS ASM (EXC M35, M38, M40 & MB1)
RPO M35, M38, M40 & MB1
HARNESS ASM (EXC M35, M38, M40 & MB1)
SCREW
TAPE (Approx (2) pcs 3 in. long) (Used to tape item 2)
SCREW
LENS
L. WASHER

---

FRONT COMPARTMENT FLOOR CONSOLE - WIRING

1. 6297556 HARNESS ASM (EXC M35, M38, M40 & MB1)
2. 6297557 RPO M35, M38, M40 & MB1
3. 6297560 HARNESS ASM (EXC M35, M38, M40 & MB1)
4. 9422404 SCREW
5. 9420686 SCREW
6. 3919077 LENS
7. 121753 L. WASHER
8. 3799990 CLIP
9. 9414049 BULB
10. 9423117 OPT
11. 75a SEALER .03 OZ.

---

121753 L. WASHER

---

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ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. 3799990 CLIP
2. 274004 BULB-RPO M35, M38 & M40
3. 6297578 WIRE ASM-RPO M35, M38 & M40
4. 3769610 WASHER
5. 9421159 SCREW

EXISTING SCREW & P. WASHER
INSTRUMENT PANEL HARNESS

SEAT SEPARATOR

VIEW

RPO C 48

SEAT SEPARATOR

15 - 20 LBS IN.

15 - 20 LBS IN.

- CHEVROLET MOTOR DIVISION, GMC -

UPC

D55

A7

REVISED

1969 CAMARO 12000 SERIES
<table>
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<td>EXTENSION</td>
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<td>BRACE-CENTER</td>
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<td>3938691</td>
<td>BRACE-OUTER</td>
<td>3847758</td>
<td>SCREW ASM</td>
</tr>
</tbody>
</table>

**FOR REAR BODY EXTENSION**

PAINT STRIPE, SEE RPO Z28.

- 218/234 DIA (4) HOLES
  - Align with back edge of valance panel.

- 359/375 DIA HOLE

**FRONT BUMPER VALANCE PANEL EXTENSION**

- 10 - 15 LBS FT

- Production Screw

---

**UPC**

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<tr>
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**DATE**

- REF. A1
- L-878301
- L-42046
- L-240
- L-12-81

---

**ASSEMBLY INSTRUCTIONS**

**1969 CAMARO 12000 SERIES**
1. 3940144 FENDER & BODY STRIPE-CHART
2. 3957067 STRIPE-FRONT DOOR
3. ON SURFACE DIMENSION

STRIPES TO BE CONTINUOUS WHEN USED WITH "L" 6 ENGINE

MARKER OPENING

.25 CONSTANT

FENDER RECESS

FORWARD EDGE OF STRIPE TANGENT TO REAR EDGE OF FENDER RECESS

SECTION A-A
(AT DOOR EDGE)
1 STENCIL—See paint instructions

1969 CAMARO 12000 SERIES

CANCELED

HEADER

FENDER PEAK

EXTENSION ASM

PAINT STRIPE-HEADER.

D91

A1
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1

STENCIL—See paint instructions.

3940195

FENDER EXTENSION BREAK LINE

.08

.06 PAINT

.12 SPACE

.12 PAINT

.25 SPACE, CONSTANT

PEAK LINE

VIEW A
(TYPICAL)

REAR QUARTER PEAK LINE

PAINT STRIPE FLUSH WITH BOTTOM OF LOUVERS

1.35

.25 CONSTANT

.25 CONSTANT

27.50

.12 PEAK END

.12 PEAK END

1.35

.25 CONSTANT

.25 CONSTANT

27.50

.12 PEAK END

.12 PEAK END

CHEVROLET MOTOR DIVISION, GMC

BODY SIDE PAINT STRIPE

12000

D96

A1

CHEVROLET MOTOR DIVISION, GMC

BODY SIDE PAINT STRIPE

12000

D96

A1

DATE: 2-20-66

STENCIL: 12000

DRAWING: 2-28-66

REV: 1

SUMMARY: 1/24/66

SAMPLE: 1/25/66

NOTE: A1

DRAWN: 2-27-66

CHECKED: 3-2-66

APPROVED: 3-3-66

REFERENCES:

C-1080

C-1079
1. STENCIL—See paint instructions.

2. STRIPE—HOOD ACCENT

3957064

1969 CAMARO 12000 SERIES

[Diagram of car hood with annotations and measurements]

- .70 space
- 1.08 of hood panel
- .25 space
- .32 stripe
- 4.50
- .25 space
- 2.56
- Tape over edge
- Fender recess
- Forward edge of stripe tangent to rear edge of fender recess.
- Marker opening
- Engine emblem
- Fender extension joint line

- STRIPE TO BE CONTINUOUS WHEN USED WITH L-6 ENGINE

<table>
<thead>
<tr>
<th>HOOD NOSE &amp; FRONT FENDER PAINT STRIPE</th>
</tr>
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<tbody>
<tr>
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ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

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<tr>
<td>A1</td>
<td>CONTENTS</td>
</tr>
<tr>
<td>A2</td>
<td>4 SPEED TRANS-SPEEDOMETER CABLE ROUTING</td>
</tr>
</tbody>
</table>

### CONTENTS

1. **3745926** CAUTION STICKER
2. **85a** CEMENT .156 OZ.

**NOTE** The following components are not illustrated in this R.P.O. See Parts List or Bill of Materials for part numbers.

- Assemble same as production—See Parts List or Bill of Materials for part numbers
- **UPC 4A** REAR AXLE ASM.
- **33a** LUBRICATION

---

**INNER DECK LID RIGHT SIDE**

**REGULAR PRODUCTION JACK INSTRUCTION**

---

<table>
<thead>
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<tr>
<td><strong>G80</strong></td>
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**CHEVROLET MOTOR DIVISION, GMC**

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**DWG REF. A1** L- L-

**DATE REL.** 5-6 L- L-
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

- CYLINDER ASM
- L. WASHER
- NUT
- PIPE ASM
- PIPE - FRONT
- PIPE ASM FRT L.H.
- PIPE ASM FRT R.H.
- FLUID-HYD .014 GAL
- TUBE master cylinder reservoirs to .25 ± .125 inches from top measured at rear edge.
- TUBE 3958423
- TUBE 3958424
- TUBE 8b
- TUBE 3958434
- TUBE 3958435
- RPO L34, L35, L48, L78 & Z28
- (M20 WITH L65 - 12400)
- 3958441 PIPE ASM
- NOTE: Locate seal to dash with identification mark.
- Installed toward top.
- NOTE: Bracket must be on a vertical plane relative to cyl asm.
- NOTE: Attachment to frame & underbody same as regular prod.

- 20 - 28 LBS FT
- 115-150 LBS. IN.
- 100 - 140 LBS IN.
- 135-175 LBS. IN.
- 80 - 115 LBS IN.
- 16 - 28 LBS FT

- VACUUM POWER BRAKE-
- BRAKE CYLINDER & PIPES
- J5O
- A2
- 12000
- DWG F 4.3
- REF: Prot. A2 L-89900 L-
- DATE 4-29 M-

- CHEVROLET MOTOR DIVISION, GMC

- UPC

- DATE

- DYN

- REVISION RECORD

- SHEET
ASSEMBLY INSTRUCTIONS

NOTE: Adjust jam nut to obtain pedal height of 5.92 as shown & torque clevis to jam nut.

NOTE: Brake pedal must support a 50 lb. load at "B" after travelling a maximum of 1.75" after brakes are applied three times in quick succession.

CAUTION: If 1.75 is exceeded brakes should be rechecked for proper bleed. Check must be made with no vacuum reserve assist.

11 - 16 LBS FT
45 - 65 LBS IN.
**ASSEMBLY INSTRUCTIONS**

**1969 CAMARO 12000 SERIES**

- **1 3715073** HOSE
- **2 3923286** PIPE ASM. RPO L65
- **3 3947764** PIPE & SUPPORT ASM. RPO L34 & L35
- **4 3921927** PIPE & SUPPORT ASM. RPO L78
- **5 3912929** 120393
- **6 3711021** HOSE
- **7 3879444** SUPPORT

**NOTE** Attach to vacuum cylinder asm.

**NOTE** Attach to vacuum cylinder asm.

**SPARK PLUG WIRE SUPPORT**

**EXISTING SCREW**

**EXISTING NUT**

**EXISTING STUD**

**VIEW A**

**RPO L34 L35 & L78**

**VIEW B**

Clearance - Throttle rod to hose -

- 3/8 in. at closed throttle position
- 1/2 in. at mid throttle position
- 3/4 in. at WOT position

140 - 190 LBS IN.
14 - 22 LBS IN.
1969 CAMARO 12000 SERIES

3.888188 FITTING
3891525 FITTING

VACUUM POWER BRAKE PIPE ASM.
10°
LINE AT RIGHT ANGLE TO C OF ENGINE

VACUUM FITTINGS

LOCATIONS:
- 3.888188 FITTING
- 3891525 FITTING

* PLUS TORQUE REQUIRED TO ALIGN FITTINGS

* CHEVROLET MOTOR DIVISION, GMCC

J50
A5

VACUUM POWER BRAKE PIPE & SUPPORT ASM.
LINE AT RIGHT ANGLE TO C OF ENGINE

RPO L34-L35-L78

100 - LBS. IN.

DATE: 6/6
DRAWING CONCEPT: L-1900
DRAWING ISSUE: L-1900
DRAWING RELIABILITY: 13-20
The following parts are assembled the same as regular prod.

- 3954867-8 STRG KNUCKLE & FRONT WHEEL HUB ASM-L. & R.H.
- 3554889-70 WITH RPO Z28
- 3932797 WHEEL ASM
- 3945517-8 ARM ASM-LWR CONT L. & R.H.
- 3955737-8 ARM ASM-UPR CONT L. & R.H.
- 3935721 COVER ASM-BRAKE PEDAL

**NOTE**

The following items are listed in UPC 0.

MISCELLANEOUS SHIPPING LIST

WHEEL TIRE INSTRUCTION SHEET

RING UNIT

CAP UNIT

---

**DISC BRAKES FRONT-CONTENTS**

- **UPC:** J52
- **DATE:**
- **PRINTED ON:**
- **AUTH. OR C.E.:**

---

**DISC BRAKES FRONT-CONTENTS**

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<tr>
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**NOTE:** Hose from frame bracket to upper control arm clip must not be twisted.

**VIEW A**

**VIEW B**

**85 - 115 LBS IN.**

**18 - 25 LBS FT**

---

**CALIFORNIA MOTOR DIVISION, GMC**

**REF: PR#: L-99902 L**

**REL 4-29 H & B L- L- L- L**

**252**
For clevis adjustment & Brake Pedal Travel, see RPO J50.

Clips & Screw, see reg. prod.

14 - 22 LBS FT
80 - 115 LBS IN.
85 - 115 LBS IN.
115 - 150 LBS IN
PARKING BRAKE BURNISH PROCEDURE

1. Adjust parking brake per UPC 5.
2. Apply a 150 lb load to the pedal & release 5 times.
3. Readjust the cable as in Item 1.
4. With vehicle running at 40 MPH apply 100 lb force to the parking brake pedal & operate vehicle for 10 seconds.

Brake pedal height and travel specifications same as J50.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3955705 PIPE ASM L.H.
2. 3962780 PIPE ASM R.H.
3. 3953248 "U" BOLT
4. 3945519 BRACKET
5. 3953251 RETAINER
6. 3953249-50 BRACKET L. & R.H.
7. 476737 SPRING-YOKE
8. 3947037-8 PIPE ASM L. & R.H.
9. 3953247 HOSE ASM
10. 3954382 BRACKET
11. 3956700 CLIP
12. 3953249 BRACKET
13. 476737 SPRING-YOKE
14. 3947037-8 PIPE ASM L. & R.H.
15. 3953247 HOSE ASM
16. 3954382 BRACKET
17. 3956700 CLIP

**NOTE** Form clip to securely retain pipe.

**ATTACH LARGE TUBE NUT TO CALIPER**

**CAUTION** Use backup wrench on hose fitting to prevent bracket distortion when pipe nut is torqued.

**80 - 115 LBS IN.**
3947772 BLADE ASM-FAN
3956684 OPT ("327", "350" ENG ONLY)
186634 BOLT "327" ENG
181596 "350", "396" ENG
187119 L. WASHER
3937780 CLUTCH ASM "327" ENG
3937782 OPT
4939899 OPT
3946049 "350", "396" ENG
120368 NUT

20 - 27 LBS FT
15 - 20 LBS FT
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

A1 CONTENTS
A2 INSTALLATION INSTRUCTIONS
A3 OPTIONAL INSTALLATION INSTRUCTIONS

1. #730810 HEATER ASM L-6 & V-8 ENG (Exc 396 ENG)
2. *3401223 OPT
3. #3403230 396 ENGINE
4. +4 4750881 CLIP
5. +5 3853788 CLIP
2. 380782 CLIP
3. #3403245 CORD
4. *730542 OPT

NOTE Items indicated by # or * must be used with items marked # or *.

ATTACH WITH EXISTING SCREW ON OIL PAN

L-6 ENGINE

VIEW A
1. Drain coolant and remove specified frost plug.

2. Fully insert heater into the frost plug opening with the element pointing in the direction indicated above. **CAUTION** Do not lubricate "O" Ring.

3. Tighten bolt to the torque value specified below. **CAUTION** Do not overtighten.


5. Connect power cord and run to front grille. Fastening where necessary with clips and clamps provided. **CAUTION** Insure that cord does not pull or contact with moving parts or exhaust system. (See Sheet A1).

**NOTE** See Sheet A3 for optional installation.

△ 15 LBS FT

---

**ENGINE HEATER-INSTALLATION INSTRUCTIONS**

<table>
<thead>
<tr>
<th>CHEVROLET MOTOR DIVISION, GMC</th>
<th>UPC</th>
<th>DATE</th>
<th>SHEET</th>
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<td>KO5</td>
<td>A2</td>
<td>KO5</td>
<td>SHEET</td>
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| 12000 | A2 | KO5 | SHEET |

△ △ △
1. Remove water jacket support plug carefully.
   **NOTE**: Do not score machined surface of hole.

2. Thoroughly clean plug hole removing any burrs, compound, paint or rough spots.

3. Apply a coating of grease or vaseline to the "O" ring and machined surface of hole (this prevents damage to the "O" ring and makes installation easier).

4. The #10-32 screw is backed off by turning counter clockwise to the limit of the thread. This allows the center axis of the screw carrying the yoke to take up angular positions relating to the center line axis of the heater.

5. To install into engine block, merely insert the hairpin end of the heating coil into the opening and one end of the yoke into the inside face of the block. In this displaced position it allows the other end of the yoke to be pushed beyond the inside face of the engine block. (Refer to Fig. 1). To insert support into block merely center the axis of the heater and the axis of the core hole and push support in as far as it will go.

6. **CAUTION**: Excessive tightening is not necessary. (Refer to Fig 2.)

7. Route cord to front of radiator support (See Sheet A1). **CAUTION**: Insure that cord does not touch engine, hot pipes, manifold or any moving parts.

---

- **Chevrolet Motor Division, G.M.C.**
- **UPC**: KOS
- **A3**
- **ENGINE HEATER-INSTALLATION INSTRUCTIONS (OPTIONAL)**

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---

**14 - 20 Lbs IN.**
The following belts assemble the same as production (or pertinent RPO's):

- 3923415 BELT-FAN & GEN L-6 ENG
- 3915962 L-6 ENG WITH RPO C60
- 3953787 307, 327, 350 ENG WITH MANUAL TRANS
- 3953778 307, 327, 350 ENG WITH AUTO. TRANS
- 3953786 307, 327, 350 ENG WITH AUTO. TRANS & RPO C60
- 3923417 396 ENG
- 3953788 307, 327, 350 ENG WITH MANUAL TRANS & RPO C60
- 3845648 BELT-HYDRAULIC STRG PUMP L-6 ENG WITH RPO N40

---

**CHEVROLET MOTOR DIVISION, GMC**

**A-C GENERATOR EQUIPMENT (63 AMP) & PULLEY INSTALLATION - CONTENTS**

**UPC**

**K85**

**A1**

**12000**

**Doug 6-12**

**Ref. ECR 87747**

**Release 6-19**

**Sheet**

40 - 50 LBS FT

---

L-6 ENG 4

L-6 ENG 3

L-6 ENG 2

GENERATOR FAN-Part of Gen. Asm.
150 - 175 LBS IN.
NOTE: The following parts are not illustrated in this R. P. O. See Parts List or Bill of Materials for part numbers.

**UPC 6 ENGINE**

6C-2 CRANKSHAFT BALANCER - V-8 ("396") assembles same as RPO'S L34-L35 & L78

6K-1 FAN & DRIVE - L-6 assembles same as RPO M35 - V-8 ("396") assembles same as RPO'S L34-L35 & L78

6K-2 WATER PUMP & DRIVE - L-6 & V-8 -

V-8 ("396") assembles same as RPO'S L34-L35 & L78

6M-1 CARBURETOR (HEAT STOVE) - Assembles same as RPO M35

6M-3 AIR CLEANER & SILENCER - Assembles same as RPO M35

6Y-1 GENERATOR & REGULATOR - L-6 Assembles same as RPO M35

**UPC 9 STEERING**

9E HYDRAULIC STEERING PUMP (BRACKET) - L-6 Assembles same as RPO N40 (with RPO M35)

Assembles same as production. See Parts List or Bill of Materials for part number.
DIRECTIONS FOR CONVERTING A.L.R. EQUIPPED ENGINE DISTRIBUTOR TO SAME DISTRIBUTOR AS NON A.L.R. ENGINES

1. Remove distributor cap.

2. Rotate engine crankshaft until timing mark on torsional damper aligns with "0" on timing pointer and distributor rotor arm points approximately 15° toward the left from front of engine. (Engine in #1 cylinder firing position).

3. Remove distributor clamp.

4. Remove distributor. Do not disturb engine crankshaft position while distributor is out of engine.

5. Position rotor arm of distributor to point to the front of the engine and carefully slide distributor into engine. (After installation, rotor arm will point approximately 15° toward the left from front of engine).

6. Rotate distributor body until the cap attaching clips form an angle of approximately 15° counter-clockwise from rear face of engine as shown in View A.

7. Secure distributor clamp snugly.

8. With vacuum line disconnected and engine running, set timing as follows:
   L-6 Eng. 4° + 1° B.T.D.C. @ 500 RPM

9. Tighten distributor clamp to specified torque.

14 - 18 LBS FT
DIRECTIONS FOR CONVERTING A.L.R. EQUIPPED ENGINE DISTRIBUTOR TO SAME DISTRIBUTOR AS NON A.L.R. ENGINES

1. Remove distributor cap.
2. Rotate engine crankshaft until timing mark on torsional damper aligns with "O" on timing pointer and distributor rotor arm points approximately 45° toward the right from front of engine. (Engine #1 cylinder firing position).
3. Remove distributor clamp.
4. Remove distributor. Do not disturb engine crankshaft position while distributor is out of engine.
5. Position rotor arm of distributor to point to the front of the engine and carefully slide distributor into engine. (After installation, rotor arm will point approximately 45° toward the right from front of engine).
6. Rotate distributor body until the cap attaching clips form an angle of approximately 15° clockwise from rear face of engine as shown in view A.
7. Secure distributor clamp snugly.
8. With vacuum line disconnected and engine running, set timing as follows:
   - REG. PROD 2° B. T. D. C. @ 550 R. P. M.
   - L30 4° B. T. D. C. @ 550 R. P. M.
   - L48 4° B. T. D. C. @ 550 R. P. M.
9. Tighten distributor clamp to specified torque.

14 - 18 LBS FT
NOTE! Remove existing breather tube from air cleaner, insert plug as shown.
ASSEMBLY INSTRUCTIONS

3940195

1. Assembly & Part Numbers same as Prod.

2. 3927768 CONNECTOR ASM

3. 3927735 PLUG

4. 3933125 HOSE

5. 3923260 CONNECTOR

6. 3924544 ARRESTER

7. 114500 NUT

8. 103375 C. PIN

9. 3927732 GASKET

NOTE: Remove existing breather tube from air cleaner, insert plug as shown.

VIEW A

HEAVY DUTY CLOSED POSITIVE CRANKCASE VENTILATION

12400 V-8 ENGINE (EXC 396 ENG)
Assembly and part numbers same as RPO L34 & L35.

1. Assembly and part numbers same as RPO L34 & L35.
2. 103375 C. PIN
3. 3955192 HOSE
4. 3923260 CONNECTOR
5. 3924544 FLAME ARRESTOR
6. 3927735 PLUG
7. 3927768 CONNECTOR ASM
8. 114500 NUT

9. 3927732 GASKET

NOTE: Remove existing breather tube from air cleaner, insert plug as shown.

15/16 DIA. HOLE IN BOTTOM OF AIR CLEANER

HEAD DUTY CLOSED POSITIVE CRANKCASE VENTILATION

120-180 LBS IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

SHEET 3940195

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<td>CHAMBERED EXHAUST-MUFFLER ASM TAIL PIPE &amp; HANGERS</td>
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NOTE 1: For dash sealing see UPC 1

NOTE 2: V.I.N. location see UPC 6.

---

*CHEVROLET MOTOR DIVISION, GMC*

V-8 ENGINE 396-CONTENTS

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---

NOTE 3: FOR DASH SEALING SEE UPC 1

NOTE 4: V.I.N. LOCATION SEE UPC 6.
The following components are not illustrated in the R.P.O. See Parts List or Bill of Materials for part numbers.

**UPC 3** FRONT SUSPENSION
- **3A** FRONT SUSPENSION- 0
- **3B** FRONT HUBS & BEARINGS- 0
- **3C** FRONT SPRINGS- 0
- **3F** FRONT SHOCK ABSORBERS- 0

**UPC 4** REAR SUSPENSION
- **4** REAR AXLE- 0
- **4A-1** LUBRICANT- 0
- **5** PROP SHAFTS & UNIVERSAL JOINTS (Strap & bolt)- Assembles same as RPO L48.

**UPC 5** BRAKES
- **5D** PARKING BRAKE MECHANISM (Bracket-Rear Cbl.)- 0 L.H. Side
- **5F** BRAKE LINES- Assemble same as RPO L48.

**UPC 6** ENGINE
- **6** ENGINE (As shipped)- 0
- **6C-2** PULLEY CRANKSHAFT- Assemble same as RPO L78
- **6K-2** WATER PUMP & DRIVE- 0
- **6L** INTAKE & EXHAUST MANIFOLDS & HEAT CONTROL- 0
- **6Q** POWER PLANT TO FRAME MOUNTINGS- R. H. Side 0
- **6T** AIR COMPRESSOR- 0
- **6Y-1** REGULATOR- 0
- **6Y-3** DISTRIBUTOR- 0

0 Assembles same as production. See Parts List or Bill of Material for part number.
NOTE: The following components are not illustrated in the R.P.O. See Parts List or Bill of Materials for part numbers.

### UPC 8 FUEL & EXHAUST

- **8A** FUEL TANK, MOUNTINGS & TANK GAGE UNIT
- **8C** EXHAUST PIPE, MUFFLER & MUFFLER TAIL PIPE
- **7** RPO L34—Assemble same as RPO NC8
- **7** RPO L35—Assemble same as RPO N10

### UPC 10 WHEELS & TIRES

- **10B** WHEELS & TIRES
- **10E** SPARE WHEEL MOUNTINGS—Assemble same as RPO PW7

### UPC 11 FRONT END SHEET METAL

- **11D** HOOD—Assemble same as RPO L48
- **11G** CHASSIS SHEET METAL ORNAMENTATION—RPO L48

### UPC 12 ELECTRICAL

- **12C** FRONT LAMPS
- **12G** HORN, SWITCH, WIRING & MOUNTINGS
  (Cap-Horn But.)—

### UPC 13 RADIATOR & GRILLE

- **13A** RADIATOR
- **13C** GRILLE ASM RAD
- **13E** RADIATOR SHROUD

### UPC 14 BUMPERS & MISC.

- **14B** MISC. LUBRICANTS, SEALERS & GASOLINE

---

1 Assembles same as production. See Parts List or Bill of Materials for part number.
ASSEMBLY INSTRUCTIONS

2. 187147 BOLT-FRT
2. 7029215 CARBURETOR
3. 3884576 BAFLE
4. 3884574 GASKET - CARB

5. PRODUCTION PART
6. 3946097 AUTO. - CHOKE ASM
7. 3785770 HOSE-SPARK
8. 3870334 PIPE-SPARK

3940195
1969 CAMARO 12000 SERIES

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VIEW A

- CLIP
- SCREW

VIEW B

- NUT
- PLUG

120 - 150 LBS IN
Position air cleaner into slot before tightening.

Production Part

1. 219281 NUT
2. 3902410 STICKER IDENT
3. 3902408 STICKER H.P. RPO L35
   3908964 RPO L34
4. 6423907 AIR CLEANER
5. 3921975 STUD
6. 3919812 GASKET
7. 6423907 AIR CLEANER
8. 3901839 HOSE
9. 3933189 GROMMET
10. 9423575 CLAMP
11. 3940937 HOSE L.H.
12. 3940940 HOSE R.H.
13. 3926181 HOSE - SIGNAL
14. 3933188 GROMMET

\[\text{\textbf{12 - 18 LBS IN.}}\]
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

PRODUCTION PART

1. 3950210  SPRING—See 3865193 Chart.
2. 3912601  ROD ASM.
3. 3923549  ROD

PRODUCTION PART

1. 3950210  SPRING—See 3865193 Chart.
2. 3912601  ROD ASM.
3. 3923549  ROD

V-8 ENGINE - 396 - ACCELERATOR CONTROLS

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L35  | L34  | A8   |

DATE  | 12-5-55 | CF  | L.

SHEET  | 1 | 2 | 2
Plus additional torque to align the fittings as shown, so as to maximize clearance to TV or clutch linkage.

* 100 - 125 LBS IN.
* 100 LBS IN. MIN.
* 50 - 65 LBS IN.
* 18 - 22 LBS FT

90 - 130 LBS IN.*

[Diagram of engine parts and assembly instructions]
MANDATORY ASSEMBLY SEQUENCE

1. Install cable to solenoid with specified torque.
2. Install starting motor to engine with positive cable routed between forward brace and engine.
3. Install oil level gage tube with positive cable between tube and engine as shown.
4. Install cable into clip and bend as shown.

NOTE: Clip is bent to its position at asm. Cable inserted & clip closed.

Route battery cable behind oil level gage tube.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

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<td>2989405 WIRE ASM (CYL NO. 7)</td>
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Assemble spark plug wires to plugs so that wire is directed upwards to maximize clearance to manifolds. Position slack towards distributor cap.

VIEW A

RETAINER INSTALLATION TYPICAL

V-8 ENGINE 336-SPARK PLUG WIRES

UPC: L35 L34

A11
ASSEMBLY INSTRUCTIONS

1. 3912570  SUPPORT ASM.
2. 3977983  STOP - L. H.
3. 3899696  WASHER
4. 3818180  WASHER
5. 3977982  SPACER
6. 3977980  BOLT
7. 3768390  SCREW ASM. - L. H.
8. PRODUCTION PARTS

- 25 - 35 LBS. FT.
- 40 - 55 LBS. FT.

L.H. ONLY

V-8 ENGINE - 396- TRANS.
SUPPORT ASM. & ENGINE MOUNT ASM.

Chevrolet Motor Division, GMC

UPC  L35  L34
DATE SYM  72-69  VIEW A ADDED
REVISION RECORD  2 TITLE REVISED
AUTH. DE CX

DRAWING  12000

DATE  4-29
REF: A/4  L-83666  L-80087

DRAWING  125-13
DATE  4-29
REF: A/4  L-83666  L-80087
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. SHAFT ASM.
2. SPRING
3. ROD
4. SWIVEL
5. EXTENSION
6. STUD

NOTE: Rotate shaft against the exhaust pipe before torquing nut.

FRAME
PROD NUT
EXHAUST PIPE
3940195
1969 CAMARO 12000 SERIES

1 3942666 BLOWER & INLET ASM
2 3949924 HEATER & DEFROSTER ASM
3 3906094 SEAL
4 3919321 ADHESIVE .02 OZ.
5 3906095 SEAL
6 Production part
7 9423574 CLAMP

1 9428796 CLAMP
2 9419321 SCREW
3 3739436 HOSE
4 3760966 HOSE
5 3906096 RETAINER

DOCUMENTATION REQUIRED

- CHEVROLET MOTOR DIVISION, GMC -

V-8 ENGINE 396-HEATER & DEFOSTER

L35
L34

12400

A14

12 - 18 LBS IN.
1 PRODUCTION PART
2 3830786 RETAINER
3 6296652 CABLE ASM (NEG)
4 6297685 CABLE ASM (POS)
5 1980111 BATTERY
6 180118 BOLT
7 13489 L. WASHER

NOTE: Clip from the underside of alternator bracket in forward hole.

VIEW A

- WASHER
- SCREW
- 17/64 DIA HOLE AT EXISTING DIMPLE IN SKIRT
- HARNESS GEN & FWD LAMP
- HARNESS GEN & FWD LAMP

△ 15 - 22 LBS FT

- JUNCTION BLOCK
- RADIATOR SUPPORT
- CLIP
1 PRODUCTION PART
2 3952771 CLIP
3 3958479 PIPE ASM
4 9770783 CLAMP—Install so that tangs do not touch adjacent hoses or parts.

5 3959470 HOSE-FRONT

VIEW A

VIEW B

FRAME

NOTE: Install clamp so that tangs point away from radiator hose.

FUEL RETURN PIPE UPPER

85-115 LBS IN. 

DOCUMENTATION REQUIRED
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

PRODUCTION PARTS
Part number is on preceding sheet.

9428469  SCREW
3955791  SLEEVE
3839835  TAPE-As req'd Approx 3.25 in.

9770783  CLAMP-Install so that tangs do not touch adjacent hoses or parts.
3923698  HOSE
6428274  METER ASM

9428469  SCREW
531433  CLIP-SPL
3955791  SLEEVE
3839835  TAPE-As req'd Approx 3.25 in.

If Tape sleeve to pipes.

Position large end of clip forward.

NOTE

DOCUMENTATION REQUIRED

V-8 396 ENGINE-FUEL RETURN LINES

L35  L34  B2

30 - 40  LBS IN.
85 - 115  LBS IN.

* CHEVROLET MOTOR DIVISION, GMC *

V-8 396 ENGINE-FUEL RETURN LINES

L35  L34  B2

12400

129500

12400

129500
ASSEMBLY INSTRUCTIONS

1. 3927469-70 ORNAMENT L. & R.H.
2. 3898146 SEAL
3. 3927468 SCREEN
4. 3927471-2 PLATE L. & R.H.
5. 9419756 NUT
6. 3903974 TUBE - DRAIN

INFORMATION TRANSFERRED
SEE RPO L48

INNER PANEL REINF.

HOOD ASM. & INSULATOR SAME AS RPO L48

© 25 - 35 LBS IN.

V8 ENGINE 396 - HOOD ORNAMENT & DRAIN TUBE

UPC

DATE  SYM.  REVISION RECORD  AUTH. DR. CK

L35  L34

7-6-69 1 TRANSFER INFORMATION ADDED
13-35

B3

SHEET X
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. CHART-RR SPR (SEE UPC 0)
2. ABSORBER ASM.
3. L. WASHER
4. NUT
5. PLATE L. & R.H.
6. CUSHION
7. BOLT
8. "U" BOLT

R.H. SHOCK ABS. INSTALLATION

L.H. SHOCK ABSORBER INSTALLATION

55 - 65 LBS IN.

NOTE: Upper attch. of shock absorber same as reg. prod.
3958407-8 PIPE ASM L. & R.H. Z28
3958409-10 L. & R.H. L34 & L78
3958411-2 FRONT MUFFLER ASM L. & R.H.
3958403-4 HANGER ASM L. & R.H.
3958420 RETAINER
3922549 SCREW ASM
1363900 SCREW

3863512 CLAMP
3867096 "U" BOLT
3928339 CLAMP
1359887 NUT

NOTE: From this point forward L. & R.H. pipes installed the same as R.P.O. N10

1. 14 - 22 LBS FT.
2. 7 - 9 LBS FT.
3. 120 - 180 LBS IN.

CHEMIBERED EXHAUST-MUFFLER ASM & HANGERS

12400 RPO L34

UPC: L35 L34
DATE: B5

---

INFORMATION TRANSFERRED
SEE SECTION NO 52 & NO 6

UNDER BODY

PWRD.
3940195

1969 CAMARO 12000 SERIES

1. 3958415 MUFFLER & TAIL PIPE ASM L.H.
2. 179816 BOLT
3. 179820 BOLT
4. 3958469 HANGER ASM-L.H.
5. 3958417 TAIL PIPE-L.H.
6. 9411890 SCREW
7. 102634 NUT
8. 103320 L. WASHER
9. 3908362 CLAMP
10. 1359887 NUT

11. 3908363 "U" BOLT
12. 3958458 MUFFLER ASM-R.H.

See UPC 0 Sheet A8 for proper clamp location.

INFORMATION TRANSFERRED
SEE SECTION RPO NC8

10 - 14 LBS FT
35 - 50 LBS IN.
15 - 25 LBS FT
120 - 180 LBS IN.

CHEVROLET MOTOR DIVISION, GMC

12400 RPO L34

UPC L35 L34

DATE SYM REVISION RECORD AUTH. DR. CK

CHAMBERED EXHAUST-MUFFLER ASM TAIL PIPE & HANGERS

REF: ECK9197-L-87701 L-
The following components are not illustrated in this R.P.O. See Parts List or Bill of Material for part numbers.

**UPC 3** FRONT SUSPENSION
- 3B FRONT HUBS & BEARINGS
- 3C FRONT SPRINGS

**UPC 4** REAR SUSPENSION
- 4 REAR AXLE
- 4A-1 LUBRICANT
- 4B REAR SPRINGS
- 4D REAR SPRINGS INSTALLATION PARTS (Assembles same as RPO L35)
- 4E REAR SHOCK ABSORBERS (Assembles same as RPO L35)

**UPC 5** BRAKES
- 5D PARKING BRAKE MECHANISM
  - (Bracket-Rear Cable) L.H. Side
- 5F BRAKE LINES
  - (Bracket-Rear Hose Conn)

**UPC 6** ENGINE
- 6C2 CRANKSHAFT BALANCER (Assembles same as RPO L65)
- 6H ENGINE VENT. SYSTEM
  - (Hose) (Assembles same as RPO L65)
- 6L INTAKE & EXHAUST MANIFOLDS & HEAT CONTROL (Assembles same as RPO L35)
- 6M1 CARBURETOR
- 6M3 AIR CLEANER & SILENCER (Assembles same as RPO L65)
- 6M4 FUEL PUMP & VACUUM PUMP
- 6Q POWER PLANT TO FRAME MTG. -L.H. - Assemble same as RPO Z28
- 6T AIR INJECTION REACTOR EQUIPMENT
- 6Y2 STARTING MOTOR
- 6Y3 DISTRIBUTOR

**UPC 8** FUEL & EXHAUST
- 8A FUEL TANKS, MOUNTINGS & TANK GAGE UNIT (Assembles same as RPO Z22)
- 8C EXH PIPE, MUFFLER & MUFFLER TAIL PIPE (Assembles same as RPO N10)

**UPC 10** WHEEL & TIRES
- 10B WHEELS & TIRES
- 10E SPARE WHEEL MOUNTINGS (Assembles same as RPO L35)

**UPC 11** FRONT END SHEET METAL
- 11D HOOD

**UPC 12** ELECTRICAL
- 12A BATTERY & LEADS
  - (Cable-Pos.)
- 12G HORN, SWITCH, WIRING & MOUNTINGS
  - (Harness Button)

**UPC 13** RADIATOR & GRILLE
- 13A RADIATOR ASSEMBLY
- 13C GRILLE ASM. RAD

**UPC 14** BUMPERS & MISC.
- 14E TOOL COMPARTMENT & KIT
  - (Sticker)

Assembles same as production. See Parts List or Bill of Materials for part number.
ASSEMBLY INSTRUCTIONS

1. 3882979 STRAP
2. 3887348 BOLT
3. 3980952 PROP SHAFT ASM.
4. 4a CHASSIS GREASE . 020 LBS
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3927469-70 ORNAMENT L. & R.H.
2. 3896146 SEAL
3. 3927468 SCREEN
4. 3927471-2 PLATE L. & R.H.
5. 9419756 NUT
6. 3903974 TUBE - DRAIN

25 - 35 LBS IN.

V-8 ENGINE 350 HOOD ORNAMENT

L48 B2

CHEVROLET MOTOR DIVISION, GMC®

U.P.C. DATE SYS. REVISION RECORD SHEET

V-8 350 HOOD ORNAMENT

12000

8

0103 039 REF. Prod. 43 L- 84292 L- 84292 L-

- SHEET
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1 3908326 VALVE ASM
2 3958442 PIPE ASM
3 3958062 SCREW

From this point rearward pipe installs same as UPC 5.

NOTE

VIEW A
NOTE: The following components are not illustrated in this R.P.O.
See Parts List or Bill of Materials for part numbers.

UPC 3
FRONT SUSPENSION
3C FRONT SPRINGS-

UPC 4
REAR SUSPENSION
4 REAR AXLE-
4A4 PROP SHAFTS & UNIVERSAL JOINTS (Strap & bolt)-Assembles same as RPO L48
4B REAR CHASSIS SPRINGS-

UPC 5
BRAKES
5F BRAKE LINES-(Used with RPO M20)-Assembles same as L48

UPC 6
ENGINE
6 ENGINE ASM. (AS SHIPPED)-
6Q POWER PLANT TO FRAME MOUNTING - Assemble same as RPO Z28
6Y3 DISTRIBUTOR-
6Y4 COIL & SPARK PLUG WIRES-

UPC 7
TRANSMISSION
7B1 TRANSMISSION, EXTENSION ASM.-

UPC 12
ELECTRICAL
12A BATTERY, STORAGE & LEADS 

UPC 13
RADIATORS
13A RADIATOR ASM. -

(1) Assembles same as production. See Parts List or
Bill of Materials for part number.
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

3955761 ROD
3952778 BRACKET

60 - 90 LBS FT

CHEVROLET MOTOR DIVISION, GMC

V-8 ENGINE 350 - ACCELERATOR CONTROLS

L65
A4

DATE SYM. REVISION RECORD
1/3/69 4 99024535 FUEL INJ
5 9915932 RUSTED 39012 A30 39093
6 3902913 WASHED 39012
7 3902923 WASHED 39012
8 TITLE REVISED 46
9 VIEW A ADDED 27930 A004
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

SHEET

A1 CONTENTS
A2 NON-ILLUSTRATED PARTS
A3
A4 CARB, AUTO CHOKE, GAS & SPARK PIPES
A5 AIR CLEANER & CLOSED POSIT VENT
A6 FAN, BELTS & PULLEYS

NOTE V.I.N. location
see UPC 6.

V-8 ENGINE "396" SPECIAL HIGH PERF-
CONTENTS

12400

L78  A1

307
ASSEMBLY INSTRUCTIONS

3940195
1969 CAMARO 12000 SERIES

NOTE: The following components are not illustrated in the R.P.O.
See Parts List or Bill of Materials for part numbers.

UPC 1

<table>
<thead>
<tr>
<th>BODY</th>
<th>VENTILATING, HEATING &amp; A/C EQUIP.--*</th>
</tr>
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UPC 2

<table>
<thead>
<tr>
<th>FRAME</th>
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<tbody>
<tr>
<td>2B</td>
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UPC 3

<table>
<thead>
<tr>
<th>FRONT SUSPENSION</th>
</tr>
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<tbody>
<tr>
<td>3A FRONT SUSPENSION-1</td>
</tr>
<tr>
<td>3B FRONT HUBS &amp; BEARINGS-1</td>
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<tr>
<td>3C FRONT SPRINGS-1</td>
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<tr>
<td>3F FRONT SHOCK ABSORBERS-1</td>
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UPC 4

<table>
<thead>
<tr>
<th>REAR SUSPENSION</th>
</tr>
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<tbody>
<tr>
<td>4 REAR AXLE-1</td>
</tr>
<tr>
<td>4A1 LUBRICANT-1</td>
</tr>
<tr>
<td>4A4 PROP SHAFTS &amp; UNIVERSAL JOINTS (Strap &amp; bolt)-Assembles same as RPO L48</td>
</tr>
<tr>
<td>4B REAR SPRINGS-*</td>
</tr>
<tr>
<td>4D REAR SPRING INSTALLATION PARTS-*</td>
</tr>
<tr>
<td>4E REAR SHOCK ABSORBERS-*</td>
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UPC 5

<table>
<thead>
<tr>
<th>BRAKES</th>
</tr>
</thead>
<tbody>
<tr>
<td>5D PARKING BRAKE MECHANISM (Bracket-Rr. Cbl)-1</td>
</tr>
<tr>
<td>5F BRAKE LINES-Assemble same as RPO L48</td>
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</tbody>
</table>

UPC 6

<table>
<thead>
<tr>
<th>ENGINE</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 ENGINE (As shipped)-1</td>
</tr>
<tr>
<td>6C2 CRANKSHAFT BALANCER-1</td>
</tr>
<tr>
<td>6G4 OIL LEVEL INDICATOR-1</td>
</tr>
<tr>
<td>6K1 FAN &amp; DRIVE-Assemble same as RPO K02</td>
</tr>
<tr>
<td>6K2 WATER PUMP &amp; DRIVE-1</td>
</tr>
<tr>
<td>6L INTAKE &amp; EXHAUST MANIFOLDS &amp; HEAT CONTROL-1</td>
</tr>
<tr>
<td>6N2 THROTTLE CONTROL FOR ACCELERATOR PEDAL OPERATION-*</td>
</tr>
<tr>
<td>6Q POWER PLANT TO FRAME MOUNTINGS-*</td>
</tr>
<tr>
<td>6T AIR COMPRESSOR-*</td>
</tr>
<tr>
<td>6Y1 GENERATOR &amp; REGULATOR-*</td>
</tr>
<tr>
<td>6Y2 STARTING MOTOR &amp; CONTROLS-*</td>
</tr>
<tr>
<td>6T3 DISTRIBUTOR-1</td>
</tr>
<tr>
<td>6Y4 SPARK PLUGS, IGN. COIL &amp; WIRES, IGN. SW. &amp; GROUND STRAP-*</td>
</tr>
</tbody>
</table>

- Assembles same as production.
- Assembles same as RPO L35
See Parts List or Bill of Materials for part numbers.
NOTE: The following components are not illustrated in the R.P.O. See Parts List or Bill of Materials for part numbers.

UPC 7 TRANSMISSION
7B-1B CLUTCH & CONTROLS-

UPC 8 FUEL & EXHAUST
8A FUEL TANK, MOUNTINGS & TANK GAGE UNIT-Assemble same as RPO 222.
8B FUEL LINES-
8C EXHAUST PIPE, MUFFLER & MUFFLER TAIL PIPE-Assemble same as RPO NC8

UPC 10 WHEELS & TIRES
10B WHEELS & TIRES-3
10E SPARE WHEEL MOUNTINGS-

UPC 11 FRONT END SHEET METAL
11D HOOD-Assemble same as RPO L48.
11G CHASSIS SHEET METAL ORNAMENTATION-* & RPO L48

UPC 12 ELECTRICAL
12C FRONT LAMPS-3
12G HORN, SWITCH, WIRING & MOUNTINGS-
   (Cap-Horn But.)-
12H FUSES, BULBS & MULTI-PURPOSE WIRING-
12J INSTRUMENT CARRIER PANEL & OR INSTRUMENTS-

UPC 13 RADIATOR & GRILLE
13A RADIATOR-
13C GRILLE ASM RAD -3
13E RADIATOR SHROUD-

UPC 14 BUMPERS & MISC.
14B MISC. LUBRICANTS, SEALERS & GASOLINE-3
14E TOOL COMPARTMENT & KIT-

Assembles same as production.
* Assembles same as RPO L35. See Parts List or Bill of Materials for part numbers.
Part number & installation same as RPO L35

3871298 HOSE
3926181 HOSE-SIGNAL
3846117 CLIP

1 NOTE 1 Position air cleaner slot as shown before tightening.

NOTE: Molded end must be assembled to rocker cover.

1 5 - 20 LBS IN.
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

2 3921934   BELT
3 3947824   PULLEY-WATER PUMP
            Part number & installation same as
            RPO K02.
4 3946050   CLUTCH ASM
5 3937786   PULLEY-CRANKSHAFT
6 3932458   PULLEY-A.I.R. PUMP
7 1100837   GENERATOR
8 9418822   BOLT

20 - 27 LBS FT

* CHEVROLET MOTOR DIVISION, G.M.C. *
1. Assemble lower knob 2 to trans control lever and bracket asm down as far as it will go and finger tighten.
2. Assemble upper knob 1 to trans control lever and bracket asm to within .06 of lower knob 2, but far enough to index shift pattern in the proper position (fore and aft) in vehicle.
3. Hold upper knob 1 in above position and torque, as specified, lower knob 2 against upper knob 1.
NOTE: The following components are not illustrated in this R. P. O.
See Parts List or Bill of Materials for part numbers.

UPC  1  BODY
     1A-1  BODY AS PURCHASED
          (Equipment-Body Conversion to be furnished by Fisher Body Division)

UPC  7  TRANSMISSION
       7A  TRANSMISSION EXTERNAL CONTROLS
            (Rod-Trans Control Upper Lock, Nut, Lever-Idler, Support Asm, Screws,
             Sleeve, Grommets, Bushing, Retainer, L. Washers, P. Washers, Swivel
             & Clamp)-Assembles same as RPO M35 Column Mounted Cont Linkage.

UPC  9  STEERING
       9A  STEERING GEAR AND COLUMN
            (Column Asm-Steering)-

UPC  12  ELECTRICAL
       12J  INST CARRIER PANEL &/OR INSTRUMENTS
            (Shaft Asm-Speedo Upr Flex, Shaft Asm-Speedo Lwr Flex)-Assembles
            same as RPO M20 Prod Eng.

Assemble same as production-see Parts List or.
Bill of Materials for part numbers.

---

| FLOOR SHIFT- | M11 | A2 |
| NON-ILLUSTRATED PARTS | 12000 |     |
| DWG 5-1 |          |     |
| DATE REL 5-13 | DF |     |
| SHEET |     | 1 |
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1 3955767  ROD-TRANS CONTROL LOWER LOCK
2 3929844  RETAINER
3 3748358  P. WASHER
4 3952894  WASHER-SPRING
5  LUB-GREASE .0066 LBS
6 3920215  ROD-TRANS CONTROL UPPER LOCK
7 3852338  SLEEVE
8 3852337  GROMMET
9 580379   P. WASHER
10 3749084  RETAINER

DOCUMENTATION REQUIRED

FLOOR SHIFT-
UPPER & LOWER LOCK ROD

LEVER-TRANS. CONT. SHIFT-
1ST. & REV.
TRANSMISSION CONTROL LINKAGE ADJUSTMENT

1. Set Levers (L) & (M) in "NEUTRAL" position.
2. Move Lever Asm. (A) & Levers (C) & (D) to "NEUTRAL" position & insert Locating Gage (B) into Control Lever Bracket Asm.
3. Attach Rod (E) to Lever (L).
4. With Swivel Attaching Parts loose on Rod (E), attach Swivel to Lever (D).
5. Repeat Steps 3 & 4 for Rod (F) & Levers (M) & (C).
6. Remove Locating Gage (B).
7. Install Rod (G) to Levers (H) & (M).
8. Move Lever Asm. (A) into "REVERSE" position & turn Ignition Switch to "LOCK" position.
9. Attach Rod (J) to Levers (K) & (H). Do not secure Rod (J) to Lever (H) at this time.
10. Remove Column "LASH" by rotating Lever (K) in a downward direction. Complete attachment of Rod (J) to Lever (H).

[NOTE] After adjustments have been made, the centerlines of Shift Levers must be aligned to each other to provide free crossover motion. Also, with Shift Lever in "REVERSE" the ignition key must move freely to "LOCK" position. It must not be possible to obtain ignition "LOCK" position in neutral or any gear other than reverse.

DOCUMENTATION REQUIRED
1. Part number & installation, same as RPO M11.
2. 3929844 RETAINER
3. 3748858 P. WASHER
4. 3952894 SPR. WASHER

NOTE! Boot, retainer & attaching parts are same as & installed same as RPO M11.

DOCUMENTATION REQUIRED
**ASSEMBLY INSTRUCTIONS**

**1969 CAMARO 12000 SERIES**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ROD 1ST &amp; REV</td>
<td>3930055, 3930059</td>
</tr>
<tr>
<td>2</td>
<td>RETAINER</td>
<td>3740084</td>
</tr>
<tr>
<td>3</td>
<td>KNOB-UPPER</td>
<td>3920217</td>
</tr>
<tr>
<td>4</td>
<td>LEVER &amp; BRACKET ASM.</td>
<td>3934284</td>
</tr>
<tr>
<td>5</td>
<td>SUPPORT ASM.</td>
<td>3935261</td>
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<tr>
<td>6</td>
<td>NUT</td>
<td>3841497</td>
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<tr>
<td>7</td>
<td>SWIVEL</td>
<td>3895214</td>
</tr>
<tr>
<td>8</td>
<td>ROD 2ND &amp; 3RD</td>
<td>3930057, 3930061</td>
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</tbody>
</table>

**KNOB ASSEMBLY SEQUENCE**

1. Assemble lower knob 16 to lever 4 down as far as it will go and finger tighten.
2. Assemble upper knob 3 to lever 4 to within .06 of lower knob 16, but far enough to index shift pattern in the proper position (fore and aft) in vehicle.
3. Hold upper knob 3 in above position and torque, as specified, lower knob 16 against upper knob 3.

**ATTACHING PARTS PART OF TRANS.**

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Numbers</th>
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<tbody>
<tr>
<td>9</td>
<td>LUB GREASE .01 LBS.</td>
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<tr>
<td>10</td>
<td>FLUID SYN TRANS (.435 GAL.)</td>
</tr>
</tbody>
</table>

**Part numbers and cable routing same as RPO M20 & RPO L48/L35**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Attaching part numbers &amp; lub same as RPO M20</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Part numbers and cable routing same as RPO M20 &amp; RPO L48/L35</td>
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</tr>
<tr>
<td>13</td>
<td>LEVER 2ND &amp; 3RD</td>
<td>3990047</td>
</tr>
<tr>
<td>14</td>
<td>LEVER 1ST &amp; REV.</td>
<td>3950181</td>
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<tr>
<td>15</td>
<td>SHAFT STABILIZER</td>
<td>3913710</td>
</tr>
<tr>
<td>16</td>
<td>RPO L35 &amp; L78</td>
<td>3810378, 3920213, 3941324</td>
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</tbody>
</table>

**CANCELED**

- 15 - 24 LBS FT
- 20 - 30 LBS FT
- 110 - 120 LBS IN.

**DOCUMENTATION REQUIRED**

<table>
<thead>
<tr>
<th><em>CHEVROLET MOTOR DIVISION, GMC</em></th>
<th>UPC</th>
<th>DATE</th>
<th>REV SHEET</th>
<th>SHEET CANCELED</th>
<th>A2</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 SPEED H. D. TRANS.</td>
<td>M13</td>
<td></td>
<td>11/07</td>
<td>L-3-252</td>
<td></td>
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<tr>
<td>12000 V-8 ENG. WITH RPO L48/L35</td>
<td>A2</td>
<td></td>
<td>11/07</td>
<td>L-3-252</td>
<td></td>
</tr>
</tbody>
</table>
TRANSMISSION CONTROL LINKAGE ADJUSTMENT

1. Set Levers (L) & (M) in "NEUTRAL" position.
2. Move Lever Asm. (A) & Levers (C) & (D) to "NEUTRAL" position & insert Locating Gage (B) into Control Lever Bracket Asm.
3. Attach Rod (E) to Lever (L).
4. With Swivel Attaching Parts loose on Rod (E), attach Swivel to Lever (D).
5. Repeat Steps 3 & 4 for Rod (F) & Levers (M) & (C).
6. Remove Locating Gage (B).
7. Install Rod (G) to Levers (H) & (M).
8. Move Lever Asm. (A) into "REVERSE" position & turn Ignition Switch to "LOCK" position.
9. Attach Rod (J) to Levers (K) & (H). Do not secure Rod (J) to Lever (H) at this time.
10. Remove Column "LASH" by rotating Lever (K) in a downward direction. Complete attachment of Rod (J) to Lever (H).

NOTE After adjustments have been made, the centerlines of Shift Levers must be aligned to each other to provide free crossover motion. Also, with Shift Lever in "REVERSE" the ignition key must move freely to "LOCK" position. It must not be possible to obtain ignition "LOCK" position in neutral or any gear other than reverse.
NOTE: The following components are not illustrated in this R.P.O. See Parts List or Bill of Material for part numbers.

UPC 1 BODY
   1A-1 BODY AS PURCHASED—(Equipment—Body Conversion, to be furnished by Fisher Body Division)

UPC 5 BRAKES
   5F BRAKE LINES
     (Valve—Press. Reg., Screw, Pipe—Brake Frt, Pipe—Brake Intermediate)

UPC 6 ENGINE
   6 ENGINE ASM

UPC 7 TRANSMISSION
   7B1B CLUTCH BEARING

UPC 9A STEERING
   9A STRG COLUMN

Assemble same as production—See Parts List or Bill of Materials for part numbers.
KNOB ASSEMBLY SEQUENCE

1. Assemble lower knob \[14\] to trans control lever and brkt asm down as far as it will go and finger tighten.
2. Assemble upper knob \[15\] to trans control lever and bracket asm to within \(0.06\) of lower knob \[14\], but far enough to index shift pattern in the proper position (fore and aft) in vehicle.
3. Hold upper knob \[15\] in above position and torque, as specified, lower knob \[14\] against upper knob \[15\].

DOCUMENTATION REQUIRED

- CHEVROLET MOTOR DIVISION, GMC

UPC: M20

DATE: 7-4-69

M21-M22

REMARK: DOC. REQ'D ACCED

AUTH. OR CR

324
ASSEMBLY INSTRUCTIONS

3940195 ROD-REVERSE
9419234 P. WASHER
9418931 NUT
103321 L. WASHER
9786896 SWIVEL-REVERSE
9418967 BOLT
382105 P. WASHER
9791876 ROD-1ST & 2ND
103373 C. PIN
9791885 ROD-3RD & 4TH
9788242 SWIVEL-1ST & 2ND
9709568 SPR WASHER
3955764 SWIVEL-3RD & 4TH
9788242 LEVER
17 1m LUB GREASE .01 LBS
17 6c LUB HYPOID .435 GAL

1969 CAMARO 12000 SERIES

ROD-REVERSE
NUT
SWIVEL-REVERSE
P. WASHER
C. PIN
SWIVEL-1ST & 2ND
SWIVEL-3RD & 4TH
LEVER-REVERSE
9419234 P. WASHER
103321 L. WASHER
9418967 BOLT
9791876 ROD-1ST & 2ND
9791885 ROD-3RD & 4TH
9788242 SWIVEL-1ST & 2ND
9791887 SWIVEL-3RD & 4TH
9787255 LEVER
17 1m LUB GREASE .01 LBS
17 6c LUB HYPOID .435 GAL

25 - 35 LBS FT

DOCUMENTATION REQUIRED

UPC
DATE
SYM
DIVISION RECOR
AUTH.

4 SPEED TRANS-LEVERS & CONTROL RODS

M20 M21-M22
4 SPEED TRANS-LEVERS & CONTROL RODS

12000 L-6 & PROD V-8 ENGINE

A4
Part numbers & installation, same as RPO M11.

1. 3955767 ROD
2. 3929844 RETAINER
3. 3748358 P. WASHER
4. 3952994 SPR. WASHER
5. LUB GREASE .0066 LBS

BOTH ENDS

4 SPEED TRANS INTERLOCK LINKAGE

12000 L-6 & PROD V-8 ENGINE

DOCUMENTATION REQUIRED

M20

M21-M22

A6
Part numbers & installation same as RPO M11. | SCREW ASM

3945599 ROD | SUPPORT ASM

3955780 LEVER | ROD

9419402 SCREW ASM

3945595 SUPPORT ASM

3955773 "396" ENG. ROD

3955776 "396" ENG. ROD

LUB GREASE .0066 LBS RETAINER

12000 Series Engine

4-SPEED TRANS. INTERLOCK LINKAGE

12000 302, 350 & 396 ENGINE

120 - 180 LBS IN.
TRANSMISSION CONTROL LINKAGE ADJUSTMENT

1. Set Levers (K), (L) and (M) in "NEUTRAL" position.
2. Move Lever Asm. (A) and Levers (B), (C) and (D) to "NEUTRAL" position & insert Locating Gage (E) into control Lever Bracket Assembly.
3. Attach Rod (P) to Levers (K) and (D).
4. Attach Rod (R) to Lever (L) and with swivel attaching parts loose on Rod (R), attach swivel to Lever (C).
5. Repeat Step 4 for Rod (S) and Levers (M) and (B).
6. Remove Locating Gage (E).
7. Install Rod (F) to Levers (G) and (M).
8. Move Lever Asm. (A) into "REVERSE" position & turn ignition switch to "LOCK" position.
9. Attach Rod (H) to Levers (J) and (G). Do not secure Rod (H) to Lever (G) at this time.
10. Remove column "LASH" by rotating Lever (J) in a downward direction. Complete attachment of Rod (H) to Lever (G).

[NOTE] After adjustments have been made, the center lines of shift Levers must be aligned to each other to provide free crossover motion. Also, with shift lever in "REVERSE" the ignition key must move freely to "LOCK" position. It must not be possible to obtain ignition "LOCK" position in neutral or any gear other than reverse.
3940195

1969 CAMARO 12000 SERIES

6454863 SPEEDO CBL ASM (LWR)
L6 & V8 BASE ENG., RPO L65 & LF7, COUPE & CONVERTIBLE

6477214 UPPER PRODUCTION CABLE 12437 W/RPO L34, L35, L48, L78 & LM1

6477216 12467 W/RPO L34, L35, L48, L78 & LM1

NOTE! from this point wd. same as prod.

5 - 10 LBS IN.
20 - 80 LBS IN.

NOTE: Position color ident. mark in clip.

PROD. GROMMET

NOTE: Prod speedo cable hole.

UPC 0 6477216 12467 W/RPO L34, L35, L48, L78 & LM1
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

A1 CONTENTS
A2 NON-ILLUSTRATED PARTS
A3 DIAL INDICATOR & CONTROL COLUMN
A4 TRANS TO ENGINE
A5 INSTALLATION PROCEDURE
A6 CONTROL LINKAGE
A7 ADJUSTMENT-COLUMN SHIFT
A8 LEVER & BRACKET-RPO D55
A9 CONTROL CABLE & LINKAGE - RPO D55
A9, 5 ADJUSTMENT - RPO D55
A10 INST PANEL HARNESS & CLUTCH HOLE COVER
A11 NEU. SAF. SWITCH & ADJUSTMENT
A12 -RPO D55

NOTE Front cowl & dash sealing-See UPC 1.

VIN LOCATION -(GMAD) SEE UPC 0 FOR SPECS.

VIEW B

VIN LOCATION -(CHEVROLET) SEE UPC 0 FOR SPECS.

VIEW A

- CHEVROLET MOTOR DIVISION, GMC -

AUTO. TRANSMISSION - CONTENTS

M 35

A 1

UPC

DATE SYM

REVISION RECORD

AUTBL DR CK

UPC 0

2/4-68 CARB LINKAGE, A1'S REVISED
NOTE The following components are not illustrated in this R.P.O.
See Parts List or Bill of Materials for part numbers.

UPC 4 REAR SUSPENSION
  4 REAR AXLE-1
  4B REAR SPRINGS-1
  4E REAR SHOCK ABSORBERS-1

UPC 6 ENGINE
  6 ENGINE ASM-1
  6K-1 FAN & DRIVE
    (W/ pump pulley, fan & gen belt)-1
  6M-1 CARBURETOR
    (Carb asm & therm. & cover asm)-1
  6T AIR COMPRESSOR
    (Exhaust emission sticker)-1
  6Y-1 GENERATOR & REGULATOR-1
  6Y-2 STARTING MOTOR-1
  6Y-3 DISTRIBUTOR

UPC 13 RADIATOR
  13A RADIATOR ASM.-1

1 Assembles same as production. See Parts List or Bill of Materials for part numbers.
"PRNDL" ADJUSTMENT PROCEDURE

1. Place the column in "Drive" detent as determined by the transmission.

2. Position Clip (A) (Part of Cluster) on the SHIFT bowl shroud so as to properly indicate "Drive" on the Indicator Dial.


4. NOTE Cut out dim. in Inst. Carrier—see RPO U35.

5. NOTE Install tab on Inst. Carrier flange before upper attachment.

6. PART OF INST. CLUSTER

7. FUEL GAGE LAMP

8. PART OF STRG. COLUMN

9. PART OF DIAL ASY.

NOTE: 10 - 15 LBS IN.
NOTE: 15 - 20 LBS IN.
INSTRUCTIONS FOR FILLING

Add specified amount of fluid thru transmission filler tube either with transmission stationary or immediately after starting engine. Fluid may be added immediately after starting engine for first time on final assembly line.

The oil level (measured with engine idling & trans. in neutral range) must be within 1/4 inch of the point on the gage asm. shown on the chart at the left.

CAUTION: To avoid damage to transmission, the vehicle must not be driven with fluid more than (1) inch above or below "FULL MARK".

OIL LEVEL ON GAGE VS.
TRANS. SUMP TEMPERATURE

Add MARK

200
100
50
0

200
100
50
0

TRANS SUMP TEMP - F°

ABOVE

FULL MARK

BELLOW

20 - 30 LBS FT
SUGGESTED INSTALLATION PROCEDURE

1. Remove converter safety clamp. **CAUTION** Make sure that converter has not slipped forward.

2. Enter transmission case into dowels on engine & assemble oil filler tube & modulator pipe (V-8 ENG. ONLY) on right side of case with bolt as shown.

3. Seat converter snout in crankshaft pilot hole.

4. On L-6 engines, assemble modulator pipe clip on left side of case with bolt as shown.

5. On V-8 engines, assemble bell crankshaft bracket of left side of case with two bolts as shown.

6. Drive (6) transmission case to engine bolts.

7. Drive (3) flywheel to converter bolts.

8. Assemble converter under pan & splash shield to transmission case with (4) screws. **CAUTION**: Hand start all converter bolts prior to torquing.

9. **NOTE**: Underpan must be assembled hooked under lip of oil pan.

**OIL PAN**
- **ENGINE**
- **TRANS**

**ASSEMBLY INSTRUCTIONS**

**CHEVROLET MOTOR DIVISION, GMC**

**AUTO TRANS-INSTALLATION PROCEDURE**

<table>
<thead>
<tr>
<th>M35</th>
<th>A5</th>
</tr>
</thead>
</table>

**UPC**

**DATE**

**SYM**

**RECORD**

**AUTH.**

**DR.**

**CR.**

**75 - 110 LBS IN.**

**30 - 40 LBS FT**
TRANSMISSION CONTROL LINKAGE ADJUSTMENT

1. Shift Lever must not bind in Column Asm. when making this adjustment. See UPC 9 for alignment of Steering Column Asm.

2. Attach Rod (A) to Shift Lever with retainer.

3. Set Transmission Lever (B) in "DRIVE" position. **NOTE** Obtain "DRIVE" position by moving Transmission Lever (B) counter-clockwise to low detent, then clockwise one detent position to "DRIVE".

4. Set the upper Selector Lever in "DRIVE" position as determined by the mechanical stop in the Steering Column Asm. **NOTE** Do not use the indicator pointer as a reference to position the Selector Lever.

5. Install Grommet in Idler Lever (C). Slide Swivel onto Rod (A) then loosely assemble Swivel, Clamp, Bushing, Plain Washer, Lockwasher and Nut (D) to Idler Lever (C). See View A.

6. Tighten Nut (D) using recommended torque. See View A.

**NOTE** With Shift Lever in "PARK" the ignition key must move freely to "LOCK" position. It must not be possible to obtain ignition "LOCK" position in neutral or any gear other than "PARK".

**NOTE** A properly adjusted linkage will prevent the Selector Lever from moving beyond both the "NEUTRAL" detent and the "DRIVE" detent unless the lever is lifted to pass over the mechanical stop in the steering column. The Selector Lever when lifted toward the steering wheel & positioned by the transmission detent, must drop back into position with no restrictions. Adjust indicator pointer to agree with transmission detent positions.

**CAUTION** Any inaccuracies in the above adjustment may result in premature failure of the transmission due to operation without controls in full detent. Such operation results in reduced oil pressure and in turn partial engagement of the affected clutches. Partial engagement of the clutches with sufficient pressure to cause apparent normal operation of the vehicle will result in failure of the clutches or other internal parts after only a few miles of operation.
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1 3920267  LEVER & BRACKET ASM
2 9417950  BOLT
3 103320   L. WASHER
4 3792287  NUT

AUTOMATIC TRANS. - CONTROL LEVER & BRACKET

12000 USED WITH RPO D55

DWG 4-26  BPA: REF. A8  L-88195 L-88231
DATE REL 5/13 DF  L- L- L-

M35
A8

\[1/2" DIA HOLE IN UNDERBODY AT EXISTING DIMPLE\]

110 - 150 LBS IN.
ASSAMBLEY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1 476737 SPRING
2 3956765 CABLE ASM.
3 564708 RETAINER
4 1382792 PIN
5 9418731 NUT

NOTE: Rods, idler lever, frame support & attaching parts same as RPO M35 column shift.

5.530 ± .010 REF.

12 - 17 LBS FT
120 - 180 LBS IN

VIEW A

VIEW B
INSTRUCTIONS
1969 CAMARO 12000 SERIES

TRANSMISSION CONTROL LINKAGE ADJUSTMENT

1. Set Transmission Lever (D) in "DRIVE" position. [NOTE] Obtain "DRIVE" position by moving Transmission Lever (D) counter clockwise to low detent, then clockwise one detent to "DRIVE".
2. Install and secure Pin (H) to Transmission Lever maintaining gaged dimension shown. See View A.
3. Install Cable (C) to bracket and Pin (H). See View A.
4. Assemble Rod (E) to Transmission Lever and Idler Lever (F).
5. Set Lever and Bracket (B) in "PARK" position and turn ignition switch to "LOCK".
6. Install Rod (G) to Shift Lever (A) and Idler Lever (F). [NOTE] Loosely attach clamp to Idler Lever.
7. Remove column "LASH" by rotating Shift Lever (A) in a downward direction and secure Rod (G) with attaching parts.

[NOTE] With Shift Lever in "PARK" position, the ignition key must move freely to "LOCK" position. It must not be possible to obtain ignition "LOCK" position in neutral or any other gear other than "PARK".

[NOTE] A properly adjusted linkage will prevent the selector lever from moving beyond both the "NEUTRAL" detent and the "DRIVE" detent unless the button is lifted to pass over the mechanical stop in the lever and bracket asm. The button when lifted and the selector lever positioned by the Transmission detent must drop back into position with no restriction.

[CAUTION] Any inaccuracies in the above adjustment may result in premature failure of the transmission due to operation without controls in full detent. Such operation results in reduced oil pressure and in turn partial engagement of the affected clutches. Partial engagement of the clutches with sufficient pressure to cause apparent normal operation of the vehicle will result in failure of the clutches or other internal parts after only a few miles of operation.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

3940195

1. 6297555 HARNESS ASM
2. 51k ADHESIVE .05 OZ
3. 3903466 SEAL
4. 9419699 SCREW
5. 3886689 COVER
6. 9422245 SCREW
7. 3950063 REINFORCEMENT
8. 39419699 SCREW
9. 3950063 REINFORCEMENT

INSTR. PN. CLUSTER

VIEW B

NEUTRAL SAFETY SWITCH CONNECTOR

VIEW A

13 - 18 LBS IN.

M35

A10

CHERY MOTION DIVISION, GMC

AUTO TRANS-INST PANEL HARNESS & CLUTCH HOLE COVER

12000

DWG 4-26 REF: Prog. L-87321 L-86186
DATE 6-6-73 DF L L

UPC

DATE SYM

PREVIOUS RECORD AUTH. DR CK

M35

5-4-68 1 ITEM 7 & 8 ADDED

+2-2-68 2 LUB SYMBOL 53a RAND. 22283

L L L

X SHEET

3-41
1. Position column shift lever against drive gate by rotating lower lever (part of shift tube) clockwise as viewed from drivers seat.

2. Assemble switch asm. to column by inserting "DRIVE" tang in shifter tube slot. SEE VIEW A.

3. Install attaching screws and torque to specifications.

INSTALLATION IF PIN HAS BEEN SHEARED

1. Align .093/.097 hole in switch asm. with "DRIVE" tang. Insert pin to depth of .25 to hold tang in place.

2. Assemble switch asm. to column by inserting "DRIVE" tang in shifter tube slot. SEE VIEW A.

3. Install attaching screws and torque to specifications.

4. Remove pin.

RECOMMENDED INSPECTION PROCEDURE

1. Position gear shift lever in "P" detent.
2. Turn ignition switch to "start"; starter should operate but the vehicle must NOT move.
3. Position gear shift lever to "R" detent.
4. Move selector toward "N" to remove play, but DO NOT MOVE out of detent.
5. Turn ignition switch to "start"; starter must be INOPERATIVE.
6. Move selector toward "P" to remove play, but DO NOT MOVE out of detent.
7. Turn ignition switch to "start"; starter must be INOPERATIVE.
9. Turn ignition switch to "start"; starter should operate but the vehicle must NOT move.
10. Position gear shift lever to "D" detent.
11. Move selector toward "N" to remove play, but DO NOT MOVE out of detent.
12. Turn ignition switch to "start"; starter must be INOPERATIVE.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

INSTALLATION PROCEDURE

1. Position Control Lever & Bracket Asm. in "DRIVE".

2. Assemble Switch Asm. to Control Lever by inserting drive tang into hole in Neutral Safety Switch Lever. See View A.

3. Tighten screws using recommended torque.

INSTALLATION OF SWITCH IF PIN HAS BEEN SHEARED

1. Same as above.

2. Align .093/.097 hole in Switch Asm. with drive tang. Insert pin to depth of .25 to hold tang in place.

3. Assemble Switch Asm. to Control Lever by inserting drive tang into hole in Neutral Safety Switch Lever. See View A.

4. Tighten screws using recommended torque.

5. Remove pin.

RECOMMENDED INSPECTION PROCEDURE

1. Position gear shift lever in "P" detent.

2. Turn ignition switch to "start"; starter should operate but the vehicle must NOT move.

3. Position gear shift lever to "R" detent.

4. Move selector toward "N" to remove play, but DO NOT MOVE out of detent.

5. Turn ignition switch to "start"; starter must be INOPERATIVE.

6. Move selector toward "P" to remove play, but DO NOT MOVE out of detent.

7. Turn ignition switch to "start"; starter must be INOPERATIVE.


9. Turn ignition switch to "start"; starter should operate but the vehicle must NOT move.

10. Position gear shift lever to "D" detent.

11. Move selector toward "N" to remove play, but DO NOT MOVE out of detent.

12. Turn ignition switch to "start"; starter must be INOPERATIVE.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

3711177 CLIP
3711199 SWIVEL
3949060 SPRING - See 3865193 color chart
3904254 ROD V-8 "307" ENG
3904060 - RPO L48
3711177

HOSE & PIPE ROUTING
SEE RPO J50

SPARK PLUG WIRE
SUPPORT - (Part of
Engine Asm.)

ACCELERATOR
BRACKET

100 - 125 LBS IN.

CHEVROLET MOTOR DIVISION, GMC
AUTO TRANS-THROTTLE
CONTROL LINKAGE

12000 V-8 ENGINE

M35
A14
1. Bottom hose against connector body.

2. Bottom shoulder against connector extension.

3. Plus torque required to align connector.

4. 52 - 65 LBS IN.

5. 100 - 125 LBS IN. *

6. **CHEVROLET MOTOR DIVISION, GMC**

7. AUTO TRANS-THROTTLE CONTROL

8. LINKAGE & MODULATOR PIPE

9. 12000 V-8 ENGINE

10. **UPC**

11. M35

12. A15

13. DATE SYM

14. 6.11.49

15. L. WAS_3253270_HOSE

16. 24647 Dm/EC

17. 346
LINKAGE ADJUSTMENT PROCEDURE

1. With accelerator pedal depressed, Bell Crank (A) must be in wide open throttle position.
2. Transmission Lever (B) must be against internal stop.
3. Adjust swivel on Throttle Valve Rod (C) at Bell Crank (A).
LINKAGE ADJUSTMENT PROCEDURE

1. With accelerator pedal depressed, Carburetor Lever (D) must be in wide open throttle position.
2. Dash Lever (A) must be .09-.12 clearance from Pedal Support (B) as shown and Transmission Lever (C) must be against internal stop.
3. Adjust swivel on Throttle Valve Rod (E).

* CHEVROLET MOTOR DIVISION, GMC *

AUTO. TRANS. - TRANS. TO CARB. LINKAGE ADJUSTMENT

<table>
<thead>
<tr>
<th>M35</th>
<th>A17</th>
</tr>
</thead>
<tbody>
<tr>
<td>12000 V-8 ENGINE</td>
<td></td>
</tr>
</tbody>
</table>
NOTE: Insert tab into hole of bracket prior to torquing screw.

NOTE: Minimum clearance of cooler pipes at any point to be .50 to any engine component and .75 to any chassis component.

NOTE: Locate midway between bends as shown.
**ASSEMBLY INSTRUCTIONS**

1969 CAMARO 12000 SERIES

1. 3950156 PIPE ASM-OUTLET
2. 3016782 BODY ASM-RADIATOR
3. 3950155 PIPE ASM-INLET
4. 3710497 CLIP
5. 1362768 SPACER

**NOTE** Close clamp at assembly.

**NOTE** Minimum clearance of cooler pipes at any point to be .50 to any engine component and .75 to any chassis component.

**NOTE** Locate midway between bends as shown.

**CLAMP-(PART OF ENGINE ASM)**

**WARNING** 115 - 135 LBS IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3950182 EXTENSION
2. 3923580 SHIELD
3. 9985029 WIRE-RD. STCHG.-Approx. 6.25 in.

Staple (5) places

NOTE: Staples to be installed in direction shown & must not cut through rubber extension.

NOTE: Extension to be assembled to shield so that natural curvature of rubber is toward floor as shown.

NOTE: Extension to be flush to .12 away from point as shown.

NOTE: Splash shield extension must bend outboard when assembled.

TRANS LEVER
TRANS IDLER LEVER
TRANS CONVERTER UNDERPAN ATTACHING SCREWS
UNDERPAN (See Sht. A5)
ASSEMBLY INSTRUCTIONS

6295189 HARNESS ASM
367701 CLIP
1114418 SOLENOID ASM
120369 NUT
941892 P. WASHER
180022 BOLT
3941077 BRACKET ASM

SOLENOID & CARBURETOR ADJUSTMENT

1. Install Solenoid Bracket (Item 7) to inlet manifold.
2. Set the carburetor in the closed throttle position with the choke completely off.
3. With Solenoid ENERGIZED (power on) slide into Bracket so the Solenoid plunger just slightly contacts the carburetor lever. Tighten the bracket strap to secure the Solenoid in place.
4. Back Adjusting Screw (A) out 3/4 turn (counter-clockwise) this results in a clearance between the Adjusting Screw and its stop on the lever of approximately .025.

NOTE! Bend clip after wire has been inserted.

15 - 30 LBS FT
38 - 50 LBS IN.
40 - 55 LBS IN.
15 - 25 LBS FT
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3798256 BUSHING
2. 3828427 SHAFT
3. 1b GREASE .0066 LBS.
4. 3888662 COVER
   RPO J52
5. 3953291 PEDAL ASM-BRAKE

6. 3828428 RETAINER-Must scribe a legible line on end of shaft during assembly. CAUTION Avoid any expanding tool which nullifies this intent.

BRAKE CYLINDER PUSH ROD - SEE U.P.C.S.

BRAKE PEDAL BRKT. ASM. - SEE U.P.C.S.
ANTI-DIESELING SOLENOID ADJUSTMENT INSTRUCTIONS

1. Loosely install solenoid to the mounting bracket with clamp & screw.
2. Set the carburetor in the closed throttle position with the choke completely off.
3. With solenoid Energized (power on) and plunger extended, slide solenoid into the bracket so the solenoid plunger just contacts the carb throttle lever. Tighten the bracket clamp to secure solenoid in place.
### 1969 CAMARO 12000 SERIES

#### ASSEMBLY INSTRUCTIONS

**NOTE**: The following components are not illustrated in this R.P.O. See Parts List or Bill of Materials for part numbers.

**UPC 4 REAR SUSPENSION**
- 4 REAR AXLE-
- 4A-4 PROP. SHAFT & UJT ASM- Assembles same as RPO L48
- 4E REAR SHOCK ABSORBERS-

**UPC 6 ENGINE**
- 6 ENGINE ASM-
- 6K-1 WATER PUMP & DRIVE-
  - W/pump pulley & fan & gen belt-
  - Radiator inlet hoses-
- 6M-1 CARBURETOR-
  - Auto choke & thermo asm-
  - Carb asm-
  - Solenoid, brkt., brace & atch. parts- Assembles same as RPO M35 (RPO L65).
  - Heat stove tube- Assembles same as RPO M35
- 6M-3 AIR CLEANER & SILENCER- Assembles same as RPO M35
- 6Y-1 GENERATOR ASM-
- 6Y-2 STARTING MOTOR-
- 6Y-3 DISTRIBUTOR ASM-

**UPC 7 TRANSMISSION**
- 7A TRANS EXTERNAL CONTROLS-
  - Lens asm & dial- Assembles same as RPO M35
  - Neu safety & back up switch asm- Assembles same as RPO M35
- 7B-1B CLUTCH PEDAL PUSH ROD HOLE PLUG-
- 7B-6 OIL COOLER PIPES- Assembles same as RPO M35

**UPC 9 STEERING**
- 9A STEERING GEAR & PITMAN ARM
- 9A (Strg column asm)-

**UPC 12 ELECTRICAL**
- 12H MULTI-PURPOSE WIRING-
  - Inst Panel Harness-
  - (RPO L65 Eng. wiring harness & clip)- Assembles same as RPO M35.
- 12J INST CARRIER PANEL &/OR INSTRUMENTS
  - Speedo fitting & seal asm-

**UPC 11-13 FRONT END SHEET METAL**
- 13A RADIATOR ASM-

---

1. Assemble same as production.
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. 542240 HOSE
2. 6261377 PIPE ASM-L-6 ENGINE
2. 6261378 -V-8 ENGINE
3. 3905427 CLIP
4. 3891523 FITTING ASM

NOTE: From this point rearward, pipe is installed same as V-8 Engine.

V-8 ENGINE

NOTE: Bottom shoulder against connector extension.

L-6 ENGINE

NOTE: Bottom hose against connector extension.

VIEW A TYPICAL HOSE INSTALLATION

100 - 125 LBS IN.*

*Plus torque required to align connector.
INSTRUCTION FOR FILLING

Add specified amount of fluid thru trans filler tube prior to starting engine. With transmission in neutral range & throttle set at fast idle cam, start engine & allow to run for one minute.

The oil level (measured with engine idling & trans, in neutral range) must be within 1/4 inch of the point on the gage asm. shown on the chart at left.

**CAUTION**: To avoid damage to transmission, the vehicle must not be driven with fluid more than (1) inch above or below "FULL MARK".

**NOTE**: Cut & remove transfer lug to clear underbody.

---

**DIAGRAM**

- **OIL LEVEL ON GAGE VS. TRANS. SUMP TEMPERATURE**
  - Graph showing oil level vs. temperature.
  - Chart indicates levels above and below the full mark.

- ** addition of fluid through the trans filler tube prior to starting the engine.**

- **Transmission in neutral range and throttle set at fast idle cam**

- **Start engine and allow to run for one minute**

- **Oil level measured with engine idling and trans in neutral range** is within 1/4 inch of the point on the gage asm.

**CAUTION**

- To avoid damage to the transmission, the vehicle must not be driven with fluid more than 1 inch above or below "FULL MARK".

**NOTE**

- Cut and remove transfer lug to clear underbody.
ASSEMBLY INSTRUCTIONS

1. Remove converter safety clamp. \textbf{CAUTION} Make sure that converter has not slipped forward.

2. Enter transmission case into dowels on engine. Assemble oil filler tube & modulator pipe on right side of case with bolt as shown.

3. Seat converter snout in crankshaft pilot hole.

4. Drive (6) transmission-case to engine bolts.

5. Drive (3) flywheel to converter bolts.

6. Assemble converter under pan with (4) screws. \textbf{CAUTION} Hand start all converter bolts prior to torquing.

7. Underpan must be assembled hooked over lip of oil pan.

\begin{itemize}
  \item 75 - 110 LBS IN.
  \item 30 - 40 LBS FT
\end{itemize}
TRANSMISSION CONTROL LINKAGE ADJUSTMENT

Same as RPO M35 Column shift except for obtaining "DRIVE" position.

**NOTE:** Obtain "DRIVE" position by moving transmission lever counter-clockwise to low detent, then clockwise two detent positions to "DRIVE".

**CAUTION:** Do not use impact type wrench to torque this part.
TRANSMISSION CONTROL LINKAGE ADJUSTMENT

Same as RPO M35 Floor Shift except for obtaining "DRIVE" position. [NOTE] Obtain "DRIVE" position by moving trans lever counter-clockwise to 'L1' detent, then clockwise two detent positions to "DRIVE".

NOTE: Rods, frame support, idler lever & attaching parts same as RPO M38 column shift.

15 - 20 LBS FT

---

Part number & Installation—same as RPO M35.

1 3945490 BRACKET

3 3945492 SCREW ASM

Part number & Installation—same as RPO M40.
ASSEMBLY INSTRUCTIONS

3940195

3113732 CLAMP
3949000 SCREW
6261243 "O" RING
187070 BOLT
3945556 LEVER ASM
3947507 BRACKET ASM
103321 L. WASHER
9418931 NUT
942550 BOLT
3947506 CABLE ASM
3953200 RETAINER-RING
PRODUCTION PARTS-SEE UPC 6

NOTE: Locate clamp in 2.00 area above oil filler support bracket.

STUD SLEEVE RETAINER

VIEW A

- 50 - 70 LBS IN.
- 20 - 30 LBS FT
- 70 - 100 LBS IN.
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1. 3947510 CABLE ASM
   3947511 -RPO L48
2. 3113732 CLAMP
3. 9419000 SCREW
4. 6261243 "O" RING
5. 9422550 BOLT
6. 3947512 BRACKET ASM
   3947514 -RPO L48
7. 271184 NUT ASM
8. 3953200 RING
9. 3947517 PIN

NOTE: Locate clamp in 2.00 area above oil filler support bracket.

50 - 70 LBS. IN.
70 - 100 LBS IN.
20 - 30 LBS. FT.
35 - 50 LBS. IN.

- CHEVROLET MOTOR DIVISION, GMC -

12000 V-8 ENGINE

M38

A9

UPC

DATE SYN REVISION COLUMN AUTRAL DE CK

3/3/69 1 RPO L50 EXC 2 PLCS - WM 120
3/3/69 2 TORQUE 2 3 4 ADD 5 6 7 8 9 - MC 20
3/3/69 3 OILFILLER TUBE RELOCATED - WM 20
3/25/69 4 TORQUE WAS 70-110 LBS IN 93265 1K 12
3/25/69 5 WAS 3829139 847 93671 KB 20
3/25/69 6 TORQUE WAS 100-15 LBS IN 93265 1K 30
3/24/69 7 VIEW B REVISION 14526 14526

1 SHEET IX

325
DETENT CABLE ADJUSTMENT PROCEDURE

1. Attach end of Detent Cable (C) to Transmission & route to carburetor lever.
2. Attach Detent Cable (C) to Carburetor Lever (D).
3. Insert Screw (B) through Detent Cable Clip (A) & into weld nut of Bracket Asm (E).
   NOTE: Do not tighten.
4. Position Carburetor Lever (D) in WIDE OPEN THROTTLE position. See View A & B.
5. Grasp Detent Cable (C) and pull rearward until WIDE OPEN THROTTLE stop in Transmission is felt. NOTE: Do not mistake detent, which must be traveled through in order to reach WIDE OPEN THROTTLE position.
6. Tighten Screw (B) to recommended torque.
NOTE: The following components are not illustrated in this R.P.O.* See Parts List or Bill of Materials for part numbers.

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<th>FRONT SUSPENSION</th>
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<td>PROP. SHAFT &amp; UJT ASM - Assembles same as RPO L48</td>
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<td>4E</td>
<td>REAR SHOCK ABSORBERS - Assembles same as RPO L35</td>
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<tr>
<td>6L</td>
<td>INTAKE &amp; EXH MANIFOLDS &amp; HEAT CONT - Assembles same as RPO M35</td>
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<td>(Neu. Saf. &amp; Backup Sw Asm) - Assembles same as RPO M35</td>
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<td>(Trans Control Lever) - Assembles same as RPO M35</td>
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<td>CLUTCH PEDAL PUSH ROD HOLE PLUG - Assembles same as RPO M35</td>
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<td>OIL COOLER PIPES - Assembles same as RPO M35</td>
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<td>12J</td>
<td>INST CARRIER PANEL &amp; OR INSTRUMENTS</td>
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<tr>
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<td>(Speedo, Sleeve, Seal &amp; Retainer Bolt Fitting)</td>
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<td>(Inst cluster reinforcement &amp; screws)</td>
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<th>FRONT END SHEET METAL</th>
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<td>RADIATOR ASM</td>
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- Assemble same as production.
ASSEMBLY INSTRUCTIONS
3940195
1969 CAMARO 12000 SERIES

1 3912573 SUPPORT ASM.

EXISTING PARTS

EXISTING BOLT

FRAME

25 - 35 LBS FT

— CHEVROLET MOTOR DIVISION, GMC —

3 SPD, AUTO, TRANS.-
SUPPORT ASM.

12000 RPO L35

M 40

A3

SHEET 3
INSTRUCTION FOR FILLING

Add specified amount of fluid thru trans. filler tube prior to starting engine. With transmission in neutral range & throttle set at fast idle cam, start engine & allow to run for one minute.

The oil level (measured with engine idling & trans. in neutral range) must be within 1/4 inch of the point on the gage asm. shown on the chart at left.

CAUTION To avoid damage to transmission, the vehicle must not be driven with fluid more than (1) inch above or below "FULL MARK".
SUGGESTED INSTALLATION PROCEDURE

1. Remove converter safety clamp. CAUTION Make sure that converter has not slipped forward.
2. Enter transmission case into dowels on engine & assemble modulator pipe clip & oil filler tube on right side of case with bolt as shown.
3. Assemble wiring clip on left side of case with bolt as shown.
4. Seat converter snout in crankshaft pilot hole.
5. Drive (6) transmission case to engine bolts.
6. Drive (3) flywheel to converter bolts.
7. Assemble converter underpan.

CAUTION Hand start all converter bolts prior to torquing.

△ 75 - 110 LBS IN.
△ 30 - 35 LBS FT

CHEVROLET MOTOR DIVISION, GMC

3 SPD. AUTO. TRANS. - INSTALLATION PROCEDURE

12000 V-8 ENGINE

DWG 5-2 REF: A5 L- L-
DATE 2-25-69 L- L-
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1. Part numbers & Installation—Same as RPO M35
   - 3912617: ROD
   - 3914805: ROD
   - 9418931: NUT
   - 3914807: LEVER

TRANSMISSION CONTROL LINKAGE ADJUSTMENT
Same as RPO M35 Column Shift except for obtaining 'DRIVE' position. 
[NOTE] Obtain 'DRIVE' position by moving transmission lever counter-clockwise to low detent, then clockwise two detent positions to 'DRIVE'.

---

![Diagram of transmission control linkage]

- **SWIVEL**
- **SCREW ASM**
- **BUSHING**
- **LOCK**
- **NUT**
- **RETAIENER**
- **CLAMP SLEEVE GROMMET**
- **RETAIENER**
- **CAUTION**: Do not use impact type wrench to torque this nut.

---

**20 - 30 LBS FT**
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1. Part number & installation—Same as RPO M35.
2. 9418931 NUT
3. 3950176 LEVER
4. 3945494 BRACKET

TRANSMISSION CONTROL LINKAGE ADJUSTMENT

1. Same as RPO M35 Floor Shift except for obtaining "DRIVE" position. **NOTE** Obtain "DRIVE" position by moving transmission lever counter-clockwise to L1 detent then clockwise two detent positions to "DRIVE".

2. **CAUTION** Do not use impact type wrench to torque this nut.

3. Pin
4. P.WASHER
5. NUT
6. RETAINER

NOTE: Rods, frame support, idler lever & attaching parts. Same as RPO M40 column shift.

**CAUTION**: Do not use impact type wrench to torque this nut.

**NOTE**: Rods, frame support, idler lever & attaching parts. Same as RPO M40 column shift.

⚠ 20 - 30 LBS FT.

---

**CHEVROLET MOTOR DIVISION, GMC**

**3-SPEED AUTO. TRANS. CONTROL LINKAGE & ADJUSTMENT**

**UPC**

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**Dwg Pre. 8/4 RFM Ref: Prod. A2 L-38231 L-8751C**

**Date Rev A7**

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373
**ASSEMBLY INSTRUCTIONS**

**SCREW ASM**

**BRACKET -RPO L34 & L35**

**SWITCH ASM**

**LEVER -RPO L34 & L35**

---

**1969 CAMARO 12000 SERIES**

**SCREW ASM**

**BRACKET -RPO L34 & L35**

**-RPO L78 & L89**

**SWITCH ASM**

**LEVER -RPO L34 & L35**

---

**Attach with front of bracket parallel to raised surface of carburetor.**

---

**TRANSMISSION CONTROL SWITCH ADJUSTMENT**

1. With carburetor lever in wide open throttle position & automatic choke in "OFF" position, fully depress plunger of switch.

2. On RPO L34, L35 & L89, slide switch plunger against carb. or throttle lever as "NO gap is required. On RPO L78, slide switch toward throttle lever maintaining the required gap between switch plunger & throttle lever. See View B.

3. Tighten switch attaching screws to recommended torque.

**NOTE** Allow carburetor lever to return to the closed position.
ANTI-DIESELING SOLENOID VALVE ADJUSTING INSTRUCTIONS

1. Turn carburetor idle speed adjusting screw in (clockwise) 1/2 turn.
2. Loosely install solenoid to mounting bracket.
3. Set carburetor in closed throttle position with choke completely off.
4. With solenoid energized and plunger extended, slide solenoid in bracket until the solenoid plunger just contacts the carburetor throttle lever. Tighten the bracket to secure solenoid in place.
5. Back off the carburetor idle speed adjusting screw one complete turn (counter-clockwise)

NOTE: The above adjustment should produce an engine idle speed of approximately 500 RPM when the solenoid is de-energized (power off).
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

NOTE: The following components are not illustrated in this RPO. See Parts List or Bill of Material for part numbers.

UPC 0 GENERAL INFORMATION
0 CHARTS, INSTRUCTION DRAWINGS & GENERAL INFORMATION

UPC 4 REAR SUSPENSION
4 REAR AXLE AND REAR SUSPENSION

UPC 5 BRAKES
5C SERVICE BRAKE PEDAL & CONNECTIONS TO MASTER CYLINDER-Assembles same as RPO M35

UPC 6 ENGINE
6 ENGINE ASM
1 6K1 FAN & DRIVE (W/pump pulley & reinforcement)
2 6M1 CARBURETOR (Carb asm)
3 6M3 AIR CLEANER & SILENCER-Assemblies same as RPO M35 (Solenoid, bracket & attaching parts)
5 6N2 ACCEL PULL BACK SPRING-Assemblies same as RPO M35
6 6T AIR COMPRESSOR
7 6Y1 GENERATOR & REGULATOR
8 6Y3 DISTRIBUTOR

UPC 7 TRANSMISSION
7 TRANSMISSION, CLUTCH AND CONTROLS-Assemblies same as RPO M35
1 7B1B CLUTCH & CONTROLS-Assemblies same as RPO M35
2 7B3A UNDERPAN, OIL FILLER GAGE & TUBE-Assemblies same as RPO M35
3 7B3B AUTO. TRANS. FLUID-Assemblies same as RPO M35
4 7B6 OIL COOLER PIPES-Assemblies same as RPO M35

UPC 9 STEERING
9A STEERING GEAR & PITMAN ARM (STRG. COLUMN ASM)

UPC 12 ELECTRICAL
12H FUSES, BULBS AND MULTI-PURPOSE WIRING-Assemblies same as RPO M35
12J INSTRUMENT CARRIER PANEL AND/OR INSTRUMENTS

UPC 13 RADIATOR & GRILLE
13A RADIATOR ASSEMBLY

Assembles same as production. See Parts List or Bill of Materials for part numbers.
TRANSMISSION CONTROL LINKAGE ADJUSTMENT

1. Shift Lever must not bind in Column Asm. when making this adjustment. See UPC 9 for alignment of Steering Column Asm. 
2. Attach Rod (B) to Shift Lever with Retainer. 
3. Set Transmission Lever (D) in "1st" position. NOTE Obtain "1st" position by moving Transmission Lever (D) counter clockwise to "1st" detent. 
4. Set Shift Lever (A) down against 1st position stop. 
5. Install Rod (E) to Idler Lever (C) & Transmission Lever (D). 
6. Install Grommet in Idler Lever (C). Slide swivel onto Rod (B) then loosely assemble attaching parts. See View A. 
7. Tighten Nut (F) using recommended torque. See View A. 

NOTE With Shift Lever in "PARK" the ignition key must move freely to "LOCK" position. It must not be possible to obtain ignition "LOCK" position in neutral or any gear other than "PARK"

NOTE When above procedure is adhered to, the following conditions must be met by manual operation of the steering column shift lever: From reverse to hi position travel, the transmission detent feel must be noted & related to indicated position in dial.

When in "HI", 1st & reverse position, pull lever upward (toward steering wheel) & then release. It must drop back into position with no restriction.

CAUTION Any inaccuracies in the above adjustment may result in premature failure of the transmission due to operation without controls in full detent. Such operations result in reduced oil pressure & in turn partial engagement of the affected clutches. Partial engagement of the clutches with sufficient pressure to cause apparent normal operation of the vehicle will result in failure of the clutches or other internal parts after only a few miles of operation.
ASSEMBLY INSTRUCTIONS

JLJ 1993456
r
.9)|T! 7308133

SWITCH ASM
SCREW
BACK-UP TERMINALS

NEUTRAL SAFETY.
SWITCH TERMINAL

INSTALLATION PROCEDURE

1. Position column shift lever against drive gate by rotating lower lever (part of shift tube) counter clockwise as viewed from drivers seat.

2. Assemble switch asm. to column by inserting "DRIVE" tang in shifter tube slot. SEE VIEW A.

3. Install attaching screw and torque to specifications.

INSTALLATION IF PIN HAS BEEN SHEARED

1. Align .093/.097 hole in switch asm. with "DRIVE" tang. Insert pin to depth of .25 to hold tang in place.

2. Assemble switch asm. to column by inserting "DRIVE" tang in shifter tube slot. SEE VIEW A.

3. Install attaching screws and torque to specifications.

4. Remove pin.

RECOMMENDED INSPECTION PROCEDURE

1. Position gear shift lever in "P" detent.
2. Turn ignition switch to "start"; starter should operate but the vehicle must NOT move.
3. Position gear shift lever to "R" detent.
4. Move selector toward "N" to remove play, but DO NOT MOVE out of detent.
5. Turn ignition switch to "start"; starter must be INOPERATIVE.
6. Move selector toward "P" to remove play, but DO NOT MOVE out of detent.
7. Turn ignition switch to "start"; starter must be INOPERATIVE.
9. Turn ignition switch to "start"; starter should operate but the vehicle must NOT move.
11. Move selector toward "N" to remove play, but DO NOT MOVE out of detent.
12. Turn ignition switch to "start"; starter must be INOPERATIVE.

12 - 18 LBS IN.
Frame Support, Idler Lever & attaching parts same as RPO M40 Column Shift.

NOTE
These parts assemble same as RPO M11. See Parts List or Bill of Materials for part numbers.

1. 3945463 BRACKET
2. 180147 BOLT

Steering Column

\[\text{MC1} \quad \text{A1}\]

35 - 55 LBS FT

---

Trans-Heavy Duty 3 Speed

12400 with RPO L34, L35, L48 & L78

Translation Reference: Prel. A2431-88577 ECR 933204

Date: 7/10

Revision: 1

Item 4 Added
The following parts install same as RPO M35:

- 1994072 SWITCH ASM
- 3950063 REINFORCEMENT
- 942225 SCREW

For transmission control cable & linkage-installation & adjustments see RPO M38 or M40.

Note: Bolt, L. Washer & nut are same as M38-M40 floorshift & install same as M35 floorshift.

(4) HOLES IN UNDER BODY
(3) HOLES AT EXISTING DIMPLES &
(1) AT DIMS. SHOWN.
**NOTE** For part numbers & installation-See RPO D55.

---

**NOTE** Seals must be assembled as to provide the largest possible gap so control lever can move freely between them.

---

**NOTE** Install instruction sheet with "CHEVROLET BOW TIE" facing rearward as shown.

---

20 - 30 LBS IN.
"PRNDL" ADJUSTMENT PROCEDURE

1. Place the column in "Drive" detent as determined by the transmission.

2. Position Clip (A) (Part of Cluster) on the SHIFT bowl shroud so as to properly indicate "Drive" on the Indicator Dial.

3. Install screw [T] and tighten to specified torque.

[Diagram of assembly instructions with parts labeled and torque specifications.]
ASSEMBLY INSTRUCTIONS
3940195
1969 CAMARO 12000 SERIES

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<tr>
<td>A2</td>
<td>DUAL EXHAUST-MANIFOLD ATTACHMENT</td>
<td>A5</td>
<td>DUAL EXHAUST-EXHAUST, MUFFLER &amp; TAIL PIPE CHECKING DIMENSIONS</td>
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DUAL EXHAUST-CONTENTS,

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CREDIT 52 REF. A1 L- L-
DATE REL 5-9 86 + L- L-
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

3930085-6 EXHAUST PIPE-RR L & R.H.
3867096 "U" BOLT
3922549 SCREW ASM-R.H.
3848156 "U" BOLT
1359887 NUT
3930087 HANGER ASM
3928339 CLAMP
3908362 CLAMP

See UPC 0 Sheet A6 for proper clamp location.

SEALER-GREASE Approx. .50 OZ.

NOTE: Apply to full I.D. of muffler inlets prior to asm with rear exhaust pipe.

14 - 22 LBS FT
120 - 180 LBS IN.
ASSEMBLY INSTRUCTIONS

3953290 MUFFLER & TAIL PIPE ASM
3965627 PIPE-L.H.
9431541 SCREW
3965637 HANGER ASM-TAIL PIPE-L.H.
9411890 SCREW

R.H. PROD PARTS

FWD

FRAME

REAR QUARTER

35 - 50 LBS IN.
10 - 14 LBS FT
7 - 9 LBS FT

- CHEVROLET MOTOR DIVISION, GMC -

DUAL EXHAUST-MUFFLER ASM
TAILPIPE & HANGERS

N 10
A4

12400

DATE SYM
REVISION RECORD
AUTH. DIR CHK

1/27/68 7 REDRAWN & RDESIGNED 9944 SA
99329

1/27/68 8 DIMENSIONS REMOVED 9960 SA
99610

1/27/68 9 VIEW "A" & "B" REMOVED 9960 SA

2/18/68 WAS 1967-68 MUFFLER 12821 SA SK
ALL DIMENSIONS INDICATED ARE REFERENCE REFLECTING NOMINAL DESIGN CLEARANCE. VARIATION OF MORE THAN .25 FROM THIS DIMENSION INDICATES A QUALITY DEFICIENCY IN A COMPONENT PART.

NOTE: All dimensions are measured from surface of muffler bead.

NOTE: Tail pipe measured from R.H. side of muffler.
CONTENTS-CHAMBERED EXHAUST, MUFFLER ASM & HANGERS

A1 3958407-8 PIPE ASM L. & R. H. Z28
    3958409-10 L. & R. H. L35-L34 & L78
A2 3958411-2 FRONT MUFFLER ASM L. & R. H.
    3965181-2 HANGER ASM L. & R. H.
A3 3958420 RETAINER
    3922549 SCREW ASM
    9431541 SCREW
    1362006 CLAMP
    3867096 "U" BOLT
    3928339 CLAMP

NOTE: From this point forward L. & R. H. pipes installed the same as R. P. O. N10.

- CHEVROLET MOTOR DIVISION, GMC -

NC8 12400
A1

14 - 22 LBS FT
7 - 9 LBS FT
10 - 15 LBS FT

AUTHL Or Or -3
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Part Description</th>
<th>UPC</th>
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<tbody>
<tr>
<td>7</td>
<td>MUFFLER &amp; TAIL PIPE ASM L.H.</td>
<td>3965630</td>
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<tr>
<td>8</td>
<td>SCREW</td>
<td>9431541</td>
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<td>9</td>
<td>HANGER ASM-L.H.</td>
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<td>TAIL PIPE-L.H.</td>
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<tr>
<td>12</td>
<td>NUT</td>
<td>1359887</td>
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<tr>
<td>13</td>
<td>SEALER-GREASE Approx. .50 oz.</td>
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See UPC 0 Sheet A6 for proper clamp location.

CHAMBERED EXHAUST-MUFFLER ASM TAIL PIPE & HANGERS

NC8

12400

REV: A2

REDRAWN REDESIGNED 968656B 9932

DRAWING REVISED

DIMENSIONS REMOVED 98810

VIEW "A" "B" REMOVED 440

MOTOVTL GMC

UPC 0 SHEET A6
NOTE: Tail pipe measured from R.H. side of muffler.
Position horn contact tower so that it will engage hole in steering wheel before installing wheel.

15 - 20 LBS IN.
10 - 15 LBS IN.

CAUTION
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1. LEVER-TRANS CONT RPO M35-M40
2. COLUMN ASM-STEERING RPO M35-M40
3. FLOOR SHIFT
4. KNOB CHART
5. LEVER-STEERING WHEEL RELEASE
6. COVER ASM-LOCK PLATE

PAINT OPERATION-SEE UPC 6

ΤΙΛΤ ΣΤΕΡΙΝΟΝ ΣΘΡΗΝΟ

30 - 40 LBS IN.

<table>
<thead>
<tr>
<th>CHEVROLET MOTOR DIVISION, GM</th>
<th>UPC</th>
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<tr>
<td>TILT STEERING WHEEL</td>
<td>N33</td>
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<th>ANTH.</th>
<th>DR.</th>
<th>RC.</th>
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</table>

<table>
<thead>
<tr>
<th>N33</th>
<th>A1</th>
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305
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

3937896  HUB ASM-STEERING WHEEL
3857251  EYELET
3952700  WHEEL ASM-STEERING
9428089  SCREW
3937897  CONTACT ASM
159612   SCREW
3945461  CAP ASM-HORN BUTTON
382117   INSULATOR

20 - 30 LBS IN.
5 - 10 LBS IN.
25 - 35 LBS FT
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

SHEET TITLE

A2 PUMP MOUNTING L-6
A3 PUMP MOUNTING L-6 WITH RPO M35
A4 PUMP MOUNTING V-8
A5 PUMP MOUNTING V-8 396°
A6 BELTS & PULLEYS L-6

A7 BELTS & PULLEYS V-8
A8 HOSES L-6
A9 HOSES V-8
A10 PUMP PULLEY, BLEEDING

3953229 ROD ASM - STEERING RELAY & TIE
3953235 RPO L34, L35, L48, L78, N44, Z28
7805654 GEAR ASM - STEERING L-6
7805655 V-8
3964803-4 STEERING KNUCKLE & HUB ASM L.&R.H.
3966141-2 RPO J52
3966149-50 RPO JL8

1 3953229 ROD ASM - STEERING RELAY & TIE
1 3953235 RPO L34, L35, L48, L78, N44, Z28
1 7805654 GEAR ASM - STEERING L-6
1 7805655 V-8
1 3964803-4 STEERING KNUCKLE & HUB ASM L.&R.H.
1 3966141-2 RPO J52
1 3966149-50 RPO JL8

HYDRAULIC STEERING-CONTENTS

N40

A1

12000
HYDRAULIC STEERING
PUMP INSTALLATION

12000 V-8 ENGINE (396"

25 - 30 LBS FT
20 - 30 LBS FT
15 - 24 LBS FT
1969 CAMARO 12000 SERIES

INSTRUCTIONS

1. NUT
2. PULLEY-P/S PUMP
3. BELT-P/S PUMP
4. GENERATOR ASM
5. PULLEY-CRANKSHAFT
6. PULLEY-FAN
7. BELT-A.I.R. PUMP
8. BELT-P/S PUMP
9. PULLEY-P/S PUMP
10. GENERATOR ASM
11. BELT-GENERATOR
12. PULLEY-CRANKSHAFT
13. BELT TENSION-See UPC 6
14. BOLT
15. L. WASHER

NUT
PULLEY-P/S PUMP
BELT-P/S PUMP
GENERATOR ASM
PULLEY-CRANKSHAFT
PULLEY-FAN
BELT-A.I.R. PUMP
BELT-P/S PUMP
PULLEY-P/S PUMP
GENERATOR ASM
BELT-GENERATOR
PULLEY-CRANKSHAFT
BELT TENSION-See UPC 6
BOLT
L. WASHER

CHEVROLET MOTOR DIVISION, GMC

HYDRAULIC STEERING
BELTS & PULLEYS

12000 L-6 ENGINE

DATE SYM
1/7/69 4 REDRAWN & REDESIGNED 85001 36 KG

SHEET 1

1/87463
20 - 30 LBS FT
22 - 30 LBS IN.

Hydraulic Steering Hoses

Title: 12000 L-8 Engine

Parts:
3964586 Hose ASM
3940195 3918964 Hose
3901352 Pipe ASM
9420534 Clamp ASM
9423894 Opt
3920534 Hose
3876611 Clamp
3736228 Hose
3917692 Hose

UPC
N40
A8

chevrolet motor division, gm & c

266-68 1 items in 1 package
3-69 2 was 3953280 hose
024-8 3 was 3953554 hose asm
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

- Align hose asm & pipe asm parallel to centerline of strg gear.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>3874659</td>
<td>PIPE ASM</td>
<td>3791814</td>
<td>SLEEV</td>
</tr>
<tr>
<td>9420534</td>
<td>CLAMP</td>
<td>3874661</td>
<td>CLAMP</td>
</tr>
<tr>
<td>9428494</td>
<td>OPT</td>
<td>3964565</td>
<td>HOSE ASM</td>
</tr>
<tr>
<td>3875022</td>
<td>HOSE</td>
<td>3964564</td>
<td>302&quot; &amp; 350&quot; ENGINE</td>
</tr>
<tr>
<td>3953258</td>
<td>CLIP</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- CHEVROLET MOTOR DIVISION, GM
- HYDRAULIC STEERING HOSE ROUTING
- 12000 V-8 ENGINE
- UPC: N40
- A9
- 12000 V-8 ENGINE
- 10-20 LBS FT
- 22 - 30 LBS IN.
MANDATORY ASSEMBLY PROCEDURE

1. Cradle hydraulic steering pump in a fixture with a back-up plate supporting perimeter of reservoir.
2. Support shaft from opposite side when it is necessary to straighten key to allow mounting of the pulley.
3. Line up key with keyway in the pulley & mount pulley on shaft applying a steady hand pressure on pulley. [CAUTION] Any impact on pulley or pump shaft can cause damage to pump thrust plate.
4. Use a stall wrench & while applying a brake force in pulley groove, torque nut.

HYDRAULIC STEERING BLEEDING INSTRUCTIONS

1. Attach hoses to pump & gear. [CAUTION] Do not remove plastic plugs from gear until immediately prior to installation of hoses.
2. Fill pump to within approx. 2.0 inches of top of filler neck prior to engine start or pump rotation.
3. Rotate pump & maintain 2.0 inch level until no more foam or bubbles appear. [CAUTION] Do not turn steering wheel until completion of Step 3 since this will load the system and build up oil pressure which will dissolve air in the oil. It will then take 2 to 3 hours to defoam before bleeding can be completed.
4. Check hoses & fittings for leaks by pressurizing system.
5. Add fluid to level marked on dipstick as required.
1969 CAMARO 12000 SERIES

1. 393184 RETAINER
2. 142745 NUT
3. 9793469 INFLATOR ASM
   RPO L34, L35, L46, L48, L78, PW7 & PW8

NOTE: Instruction sheet see UPC 0
Miscellaneous Shipping List.

4. 3823275 BOLT
5. Position wheel so that tire valve stem is down.

6. 3935715 TIRE & WHEEL ASM-CHART
7. 3949508 INSTRUCTION SHEET
   (EXC CONV)
8. 3949510 CONV
9. 3973954 SLEEVE

NOTE: Position firmly against pan wall.

NOTE: Inflator must rest on top of base.

NOTE: Position tire against wheelhouse and seat back.

NOTE: Position against wheelhouse.

CONVERTIBLE

COUPE

CHEVROLET MOTOR DIVISION, GMC®

SPACE SAVER SPARE TIRE & WHEEL EQUIPMENT

E N65
A1

UPC
12000

DATE
REVISED RECORD

12-22
11-21
2-69

A2
L-85
10
L-2993

L-5-59
12-1

22-91
11-49

N65
116-69
116-69

A1

SLEEVE REvised

ITEM 8 ADDED
1. EXTENSION (See Misc. Shipping List - UPC 0)
2. COVER ASM (See Misc. Shipping List - UPC 0).

INFORMATION TRANSFERRED SEE SECTION INDEX
NOTE: The following components are not illustrated in the R.P.O. See Parts List or Bill of Materials for part numbers.

UPC 10B WHEELS & TIRES - 1

62 - 91 LBS IN.
ASSEMBLY INSTRUCTIONS
3940195
1969 CAMARO 12000 SERIES

1. BATTERY
2. CABLE ASM (POS)
   - L48, L65, LM1, Z28
   - L34, L35, L73
3. CABLE ASM (NEG)
   - L34, L35, L78
   - LM1, LF7, L48, L65
4. STARTER MOTOR-RPO LF7

Diagram:
- FENDER REINF
- PROD JUNCTION BLOCK
- PROD WASHER
- RADIATOR SUPPORT

CHEVROLET MOTOR DIVISION, GMC
HEAVY DUTY BATTERY
F60
A1
### 1969 Camaro 12000 Series

**Cluster Assembly Instructions**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>6482251</td>
<td>Cluster ASM</td>
</tr>
<tr>
<td>6482266</td>
<td>RPO U17</td>
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<tr>
<td>6491362</td>
<td>RPO U17 &amp; L34, L35</td>
</tr>
<tr>
<td>6491365</td>
<td>RPO U17 &amp; L78</td>
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<tr>
<td>6491991</td>
<td>RPO U17 &amp; Z28</td>
</tr>
<tr>
<td>6297606</td>
<td>Wire ASM</td>
</tr>
<tr>
<td>3724851</td>
<td>Tape (4 in. 3 places. Wire asm to instrument panel harness)</td>
</tr>
<tr>
<td>9419322</td>
<td>Screw ASM</td>
</tr>
</tbody>
</table>

**Wiring Diagram**

1. Tape (4 in. 3 places) wire assembly to instrument panel harness.
2. Plug into fuse panel receptacle marked “IGN.”

**Screw Information**

- M-25 LBS IN.
- M-35 LBS IN.
- M-23 LBS IN.

**Chevrolet Motor Division, GMC**

<table>
<thead>
<tr>
<th>Type</th>
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<th>UPC</th>
<th>Date Sym</th>
<th>Deviation Code</th>
<th>Auth Dr Cx</th>
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<td>12000</td>
<td>SPEED WARNING DEVICE</td>
<td>U15</td>
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<tr>
<td>A1</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1 6297657 HARNESS ASM
6297658 RPO D55
6297659 RPO D55 WITH M35, M38, M40
2 6431307 GAGE ASM
3 3951215 CLIP
4 3961554 LENS ASM (COLUMN MOUNTED)
3961555 RPO M35, M38, M40
5 3849634 SCREW
6 6481602 CLIP
7 9421944 SCREW
8 6482264 CLUSTER ASM
6491363 RPO L78
6491360 RPO L34, L35
6481989 RPO Z28
9 3724851 TAPE (3 in. (4) places) Tach lead to engine wiring harness.
10 NUT-Negative (-) post. Loosen to allow term to be positioned between nut clip.
11 2977253 CONNECTOR

NOTE When RPO C60 is used, rework harnesses by removing brown wire from heater control connector & inserting terminal into RPO-C60. Cut off orange, yellow & light blue wires at breakout of harness then pull heater resistor connector from end of harness. Install harness same as regular production.

TACHOMETER EQUIPMENT

NOTE Cut out dim. in instrument carrier for clock - See RPO U35.

NOTE Install tab on instrument carrier flange before upper attachment.
**Title:** Instrument Cluster Contents

1. **12400**
2. **4-10**
3. **86L 4-29**
4. **L- L- L-**

**References:**
- **U17**
- **A1**

**Revision:**
- **565917**
- **Screws added**

**Dimensions:**
- 1-2 LBS IN.
- 10-15 LBS IN.

**Notes:**
1. For dash sealing see UPC 1.
2. See RPO U35 for cutout dimension in instrument carrier.
3. Install tab on Inst. Carrier flange before upper attachment.

**Parts:**
- 3794017 Knob
- 3794018 Nut
- 3951214 Shield ASM
- 3951213 Clock ASM
- 3951215 Nut
- 3943616 Lens ASM
- 3849634 Screw
- 6481602 Clip
- 6482264 Cluster ASM
- 6491380 RPO L34, L35
- 6491360 RPO L78, L79
- 6491980 RPO Z28
- 9421944 Screw
- 9421330 Bulb

**Legend:**
- A3 FRT Wiring & Oil Pressure Hose
- 3940195 Assembly Instructions
- 1969 Camaro 12000 Series

**Diagram:**
- View A
- View B

**Drawn By:**
- M. L. H. D. C. B. o. N. 1. C. M. A. C. E. L. D.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

NOTE: When RPO C60 is used, rework prod. Instrument Panel Harness:
1. Cut heater resistor leads 1.50 inches before breakout & discard the conn.
2. Remove terminal (brown wire) from prod. heater switch connector & insert into [B] .
3. Cut the (2) heater control conn orange leads flush at breakout.
4. Pull heater control connector (& four wires) free from harness & discard.

NOTE: Route oil hose under mat.

HARNESS ASM-INST PNL
RPO M35, M38 & M40

HARNESS ASM-CONSOLE
RPO M35, M38 & M40

SCREW
WASHER
BULB
CONNECTOR
SCREW
L. WASHER

NOTE: Route oil hose under mat.

Hose ASM (See SHT A3)

NOTE: Route oil hose under mat.

Hose ASM (See SHT A3)

VIEW B
(RPO-C60)

COMPARTMENT

RPO-M60

10 - 20 LBS IN.
25 - 35 LBS IN.
120 - 150 LBS IN.
15 - 23 LBS IN.

1. Cut heater resistor leads 1.50 inches before breakout & discard the conn.
2. Remove terminal (brown wire) from prod. heater switch connector & insert into [B] .
3. Cut the (2) heater control conn orange leads flush at breakout.
4. Pull heater control connector (& four wires) free from harness & discard.

NOTE: Route oil hose under mat.

Hose ASM (See SHT A3)

VIEW B
(RPO-C60)
* Plus additional torque to align the fittings as shown, so as to maximize clearance to TV or clutch linkage.

- 30-35 LBS IN.
- 100 - LBS IN. MIN.
- 35 - 50 LBS IN.
- 14 - 20 LBS FT  100 - 125 LBS IN.
- 25 - 35 LBS IN.
For proper operation, lamp should turn off when lid is 12 in. ± 3 in. from the closed position when vehicle is on level ground.
ASSEMBLY INSTRUCTIONS

SHEET TITLE
A1 CONTENTS
A2 UNDERHOOD LAMP EQUIPMENT-RPO 287

1 3916764 LAMP ASM.
2 9415191 SCREW ASM.
3 3724851 TAPE
A- (6 in.) LAMP WIRE TO ENG.
WIRING HARNESS
B- (6 in.) LOOP & TAPE EXCESS
LAMP WIRE TO FORWARD LAMP
HARNESS

4 9422033 STRAP
5 3772788 CLIP

NOTE: Bend lamp bracket if required
for lamp to operate within the following
range: 23.0 opening between hood
bumper & bumper striker area to nor-
mal open position.
1. Remove insulation within perforated outline.

LOCATION:
L-6 ENGINE, 396 ENG, WITHOUT RPO C60.

EXISTING PERFORATIONS IN INSULATOR

NOTE: Cut out this portion of insulator.

396 ENGINE WITH RPO C60

UNDERHOOD LAMP EQUIPMENT

- CHEVROLET MOTOR DIVISION, GMC

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<th>U.P.C.</th>
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<tr>
<td>U26</td>
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<td>A2</td>
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Dwg-4-25 Fm. Ref. A2 L-51557L-82383 Date: 5-13 Sheet: 1/19
Route wire thru slit in top of instrument panel compt asm.

Terminal must be assembled to switch before bulb can be properly installed.
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. 6297516 CONDUCTOR ASM
2. 6288831 RETAINER
3. 3857633 TAPE (1 in. 1 place) Tape over hole in cluster asm.
4. 1382116 CLIP
5. 3724851 TAPE (1 in. 1 place)

VIEW A

AUTO TRANS WITH COLUMN SHIFT

INSTRUMENT CLUSTER LAMP SOCKET

ASH TRAY RETAINER

**CHEVROLET MOTOR DIVISION, GMC**

<table>
<thead>
<tr>
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<th>U28</th>
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<td>SHEET</td>
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<td>REV.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHEET</td>
<td></td>
<td></td>
</tr>
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</table>
1. 9417587  P. WASHER
2. 9419329  SCREW
3. 193125   BULB
4. 3935929  SUPPORT
5. 9421851  SCREW ASM

INSTR. PNL. ASM

SOCKET ASM-Part of Fisher Body harness.

15 - 25 LBS IN.
### ASSEMBLY INSTRUCTIONS

**1969 CAMARO 12000 SERIES**

<table>
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<th>Description</th>
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<tr>
<td>3951214</td>
<td>SHIELD ASM</td>
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<tr>
<td>3951215</td>
<td>NUT-SPL</td>
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<tr>
<td>3943616</td>
<td>LENS ASM - RPO MB1-35-38-40 (COLUMN MOUNTED)</td>
</tr>
<tr>
<td>3849634</td>
<td>SCREW</td>
</tr>
<tr>
<td>3794018</td>
<td>NUT</td>
</tr>
<tr>
<td>3764017</td>
<td>KNOB</td>
</tr>
<tr>
<td>6481602</td>
<td>CLIP</td>
</tr>
<tr>
<td>3940195</td>
<td>SHIELD ASM</td>
</tr>
<tr>
<td>3951213</td>
<td>CLOCK ASM</td>
</tr>
<tr>
<td>6297523</td>
<td>WIRE ASM</td>
</tr>
<tr>
<td>3724851</td>
<td>TAPE (4 IN. (3) PLACES)</td>
</tr>
</tbody>
</table>

**Instructions:**

1. Cut out this area in Instrument Carrier, above steering column.
2. Plug connector into fuse panel receptacle marked "BAT-FUSED."
3. Install tab on Instrument Carrier flange before upper attachment.

**NOTE:**

- 1 - 2 LBS IN.
- 10 - 15 LBS IN.
The following parts are released by Chevrolet & installed by Fisher Body.

6295140 CONDUCTOR & HOUSING ASM (COUPE)
6295141 -(CONVERTIBLE)
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. 6297575-6 CONDUCTOR & HOUSING ASM L. & R.H.
2. 9419751 NUT
3. 3724851 TAPE-6 Pieces, 3 inches long used to tape fiber optic wires to parking lamp & fwd lamp harn.
4. 911107 LAMP ASM
5. 3906125 SEAL

TAPE-6 Pieces, 3 inches long used to tape fiber optic wires to parking lamp & fwd lamp harn.

VIEW A

VIEW B

EXISTING CLIP

LAMPS MONITORING-FORWARD MONITOR MOUNTING & ROUTING

10 - 15 LBS IN.

U46

A2
TAPE - 3 Pieces 3 inches long
used to tape tail, stop & license
lamp fiber optic conductor &
housing asm to body wiring harn.

EYELET - Part
of conductor &
housing asm.

CONDUCTOR & HOUSING
ASM [NOTE] Installed in
shelf panel area & routed
into truck by Fisher Body.

EXISTING HOLE

EYELET - Part
of conductor &
housing asm.

OUTBOARD TAIL LAMP ASM.

VIEW A

VIEW B

REAR PANEL CREESE LINE

DIAM. HOLE IN REAR PANEL
[NOTE] Existing hole in com-
partment panel.

LAMP MONITORING - REAR LAMPS

12337-437
CONDUCTOR & HOUSING
ASM [NOTE] Installed on seat back panel & routed into truck by Fisher Body.

NOTE: From this point rearward, routing and installation same as coupes—See Sheet A3.
1. Fader control asm installs same as RPO U80.
2. Rear speaker asm, grille, wiring & attaching parts are released by Chevrolet & installed by Fisher Body.
3. Front speaker asm, grille, wiring & attaching parts install the same as RPO U79.
4. Stereo tape cartridge ref. UPC 0-Misc. shipping list.
3954215 COVER
9420372 SCREW
7307341 PLAYER ASM
7310021 RPO U79
9428373 SCREW

2 3954216 SUPPORT
6 3880723 "U" NUT
7 9417855 SCREW

Existing Attaching Part

WITH RPO U63-U67-U79

15-22 LBS. IN.
25-30 LBS. IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. COVER ASM
2. PLATE
3. NUT
4. KNOB
5. BRACKET
6. NUT
7. SCREW
8. SCREW
9. BUMPER
10. PLAYER ASM
11. SCREW
12. SCREW
13. SCREW
14. SCREW ASM
15. WASHER

HARNESS ASM (PART OF 10)
GROMMET PART OF WIRE ASM.

STereo TAPE-PLAYER ASM. & BRACKET

CHEVROLET MOTOR DIVISION, GMC

STereo TAPE-PLAYER ASM.
A. (12 in.) Spot tape stereo tape player lead to existing harness.

B. (3 in.) Tape convector lead to existing harness.

NOTE: For wire routing from this point forward see sheet A5.

Route tape player harness with existing harness.

Stereo Tape Wiring & Convecter Assembly.

30 - 40 LBS. IN.
35 - 50 LBS. IN.
ASSEMBLY INSTRUCTIONS

3940195
1969 CAMARO 12000 SERIES

POWER LEAD FROM BODY HARNESS (Yellow & Black Wires)

6290068 WIRE ASM-FRONT SPEAKER

3 BLACK & PURPLE WIRE (To R.H. Speaker)

4 BLACK & TAN WIRE (To L.H. Speaker)

5 TAPE PLAYER CONNECTOR (Red Wire)

6 RADIO CONNECTOR (Black Wire)

7 3747298 TAPE

8 SPEAKER CONNECTOR (From Tape Player)

9 FADE CONTROL (Green Wire)

10 REAR SPEAKER EXT ASM (Installed by Fisher Body)
3940195 1969 CAMARO 12000 SERIES

1. POWER LEAD FROM BODY HARNESS (Yellow & Black Wires)
2. TAPE PLAYER CONNECTOR (Red Wire)
3. RADIO CONNECTOR (Black Wire)
4. 3747298 TAPE
5. FADER CONTROL (Green Wire)
6. 6290068 WIRE ASM-FRONT SPEAKER
7. SPEAKER CONNECTOR (From Tape Player)
8. FADER CONTROL CONNECTOR (From Tape Player)
ASSEMBLY INSTRUCTIONS

3940195

1. POWER LEAD FROM BODY HARNESS (Yellow & Black Wires)
2. TAPE PLAYER CONNECTOR
3. 3724851 TAPE
4. FADER CONTROL
5. 6297605 HARNESS ASM-STEREO POWER
6. 6295249 HARNESS ASM-STEREO TAPE
7. 6290068 WIRE ASM-FRONT SPEAKER
8. RADIO CONNECTOR

1969 CAMARO 12000 SERIES

STEREO TAPE-SPEAKER WIRING

12000 RPO D55

REVISED DATE: 12/25/93

U57

A7
1. U69 Instruction sheet ref UPC 0-Misc
Shipping List.

4. **NOTE**: For dash sealing see UPC 1
PROCEDURE FOR PEAKING THE ANTENNA TRIMMER

1. Set antenna mast at a height of 31 ± 1.0 inches (except U69).
2. Set volume control knob at maximum volume.
3. Tune radio to a signal at or near 1400 KC on the AM scale.
4. Adjust antenna trimmer screw (± 20° screw rotation) until maximum volume is received.
5. Turn receiver off.

25 - 35 LBS IN.
TAPE
A. (8 in.) Tape excess blower motor feed wire to harness.
B. (4 in.) Tape capacitor wire to dash.
C. (4 in. each application) Double back & tape blower motor feed to ground wire.
D. (4 in.) Tape capacitor wire to evaporator.

CAPACITOR

WASHER

SCREW

SCREW

NOTE! Untape blower feed & ground wire harness to this point as shown. (Approx. 9 in.)
1. 6290315 STRAP ASM.
2. HOLE DRILLING-SEE UPC 0
3. SCREW, SPARK PLUG WIRE SUPPORT & REINFORCEMENT-Part of engine asm.
4. 9420415 SCREW
5. Install ground strap under spark plug wire support.

- 4 - 55 LBS IN.
- 10 - 15 LBS IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 6290314 STRAP ASM
2. 9420415 SCREW
3. HOLE DRILLING-SEE UPC 0

6290316 STRAP ASM
9420152 SCREW
6290663 STRAP ASM
9428476 SCREW

- Screw & Rein. part of engine asm
- Radio-ground straps (body to frame & L-6 engine to body)
- Existing holes

-10 - 15 LBS IN.
-25 - 35 LBS IN.

UPC

U63
U69
A7

SHEET 441
**CAP**—For shipping purposes only. Shipping Cap must be installed before exposure to water test or weather. Remove before installing rod & mast asm.

**GASKET**

**GROUND RING**—Installed on pins of antenna body with flat directly below notch in fender & key on bezel.

**RADIO ANTENNA BODY & LEAD-IN CABLE**

**NOTE:** Antenna should lean inboard approx. 4" (Ref.) when viewed from front of car & stand vertically when viewed from side of car.

**NOTE:** Assemble clips at both ends of glove box.

**RECEIVER ASM.**

**INSTALL PANEL REINFORC.**

**1/2 DIA. HOLE PERPENDICULAR THRU FENDER SURFACE**

**ON SURFACE 10.00 P.V.**

**ON SURFACE 31.12 P.V.**

**15 - 20 LBS FT**

**40 - 50 LBS IN.**

**VIEW A**

**RADIO-FRONT ANTENNA**
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. Parts the same as & installed the same as RPO U63.
2. 3138635  "O" RING
3. 3903424  BEZEL
4. 3903406  GROUND RING

The following parts are released by Chevrolet & installed by Fisher Body.
3951264  RADIO ANT. BODY & LEAD-IN CABLE

**NOTE**: Antenna should lean inboard approx. 4" (Ref.) when viewed from rear & stand vertically when viewed from side of car.

- 1.12 Dia. Hole Vertically Thru R.H. Rear Quarter Panel
- 75°
- 12

**MANUAL ANTENNA EQUIP-REAR**

- 40 - 50 LBS IN.
- 15 - 20 LBS FT

---

**UPC**

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<th>SYM</th>
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Rear speaker asm, grille, wiring & attaching parts are released by Chevrolet & installed by Fisher Body.

Receiver asm, attaching parts, ground straps & capacitors install the same as U63.

---

**Chevrolet Motor Division, G.M.**

**RADIO STEREO MULTIPLEX-CONTENTS**

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<tr>
<td>A3</td>
<td>FRONT SPEAKERS &amp; SYSTEM CHECKOUT</td>
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**UPC**

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**Carryover Note**

- REMOVED 3-9-69
- GROUND STRAPS ADDED 3-9-69
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1 7307361 STEREO AMP
2 3951297 BOLT & CLIP ASM
3 271163 NUT ASM
4 9425439 BOLT
5 528846 NUT ASM
6 6290068 WIRE ASM-FRT SPEAKER

BLACK & PURPLE WIRE (R.H. SPEAKER)

EXISTING REAR SPEAKER WIRES

BLACK & TAN WIRE (L.H. SPEAKER)

EXISTING REAR SPEAKER WIRES

BROWN DK BLUE

EXISTING RADIO CONNECTOR

VIEW A

15 - 20 LBS IN.
48 - 60 LBS IN.

* CHEVROLET MOTOR DIVISION, GMC *

RADIO STEREO MULTIPLEX-AMPLIFIER MOUNTING

12000

U79 A2

DATE SYM 71-69 9 339655 CLIP REMOVED 96557 AS V6
STEREO CHECKOUT

1. Turn BALANCE Knob to extreme clockwise direction.
   a. Turn FRONT-REAR Knob to FRONT. With knobs in these positions, the right front speaker should operate.
   b. Turn FRONT-REAR Knob to REAR. In these positions, the left rear speaker should operate.

2. With BALANCE rotated to extreme counter-clockwise position and front rear knob in FRONT position, left hand front speaker should operate.

   When FRONT-REAR knob is rotated to REAR, the right hand rear speaker should operate.
The following parts are released by Chevrolet & installed by Fisher Body:

- SPEAKER ASM 7300614
- GRILLE 7356871
- EXTENSION WIRE ASM 7296134
- HOUSING ASM (CONV) 33C9551
- STUD (CONV) 7299238
- SCREW (CONV) 7299235
- GROUND WIRE (CONV) 2959256
- BAFFLE ASM 3943612

Auxiliary Speaker Wire
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 7309211 CONTROL ASM
2. 3954239 KNOB
3. TAPE
4. 7310397 HARNESS ASM

NOTE: Clip large connector to cooling fin & small connector to underside of radio & tape excess wire.

NOTE: Clip connectors to back of radio & tape excess wire.

NOTE: Align locating pin to radio trim plate.

CAUTION: Do not crimp wires when installing thru trim plate.
ASSEMBLY INSTRUCTIONS

3940195

1969 CAMARO 12000 SERIES

1. 3938683-4 CLAMP L. & R.H.
2. 103321 L. WASHER
3. 180122 BOLT
4. 120377 NUT
5. 3938681-2 GUARD ASM-L. & R.H.
6. 3893800 CUSHION ASM
7. 9419842 NUT
8. 3938609 CLAMP
9. 3938607 GUARD ASM
10. 3938611 CUSHION ASM
11. 9780422 SCREW
12. 63a CEMENT (2 PIECES)

REAR BUMPER

- 15 - 24 LBS FT.
- 20 - 30 LBS IN.

FRONT BUMPER

- 13/32 DIA. HOLE IN VALANCE PANEL USING GUARD AS TEMPLATE

FRONT & REAR BUMPER GUARD

V 31

V 32

A 1
The following parts are released by Chevrolet & installed by Fisher Body:

- 1378545 SWITCH ASM
- 1550521 CONTAINER ASM-TIRE TRACTION COMPOUND
- 7235960 NUT
- 3772165 WASHER

NOTE: Front cow body dash sealing - See UPC 2.

- 1 1/2 IN HOLE THRU STRNG COIL COVER
- 10 - 15 LBS IN.
ASSEMBLY INSTRUCTIONS

3940195

1. 3772784 HOSE
2. 3929022 TEE
3. 3955040 ADAPTER
4. 3739667 HOSE-VACUUM CONTROL
5. 3891523 FITTING
6. 3891524 FITTING
7. 3905372 FITTING - V8 (Exc Z28)
8. 3891525 V8 (with Z28)
9. 3920994 L6
10. 3905374 FITTING
11. 603006 HOSE
12. 3724851 TAPE-INDUSTRIAL
   A. 3.00 Inches
   B. 6.00 Inches

1969 CAMARO 12000 SERIES

HOSE
TEE
ADAPTER
HOSE-VACUUM CONTROL
FITTING
FITTING
FITTING
FITTING
FITTING
Hose-Vacuum Control Fitting
Fitting
Hose
Tape-Industrial

1. WITH AUTO TRANS & POWER BRAKES
2. WITH POWER BRAKES
3. WITH AUTO TRANS
4. ADDITIONAL RPO VACUUM HOSE
5. POWER BRAKE PIPE
6. AUTO TRANS HOSE
7. BRAKE PIPE
8. SUPPORT BRACKET
9. WITHOUT POWER BRAKE
10. WITH POWER BRAKE
11. WITH POWER BRAKES
12. ADDITIONAL RPO VACUUM HOSE
13. POWER BRAKE PIPE
14. AUTO TRANS HOSE

CAUTION: Do not tap into Automatic Transmission Vacuum Line.

TRACTION COMPOUND DISPENSER-VAC. HOSE ROUTING & FITTING

1. CHEVROLET MOTOR DIVISION, G.M.C.
2. UPC
3. DATE
4. SYM
5. REVISION
6. REVISION RECORD
7. ALT.
8. DR.
9. C/O

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<td>A2</td>
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*Plus torque required to align fittings.

100* LBS IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

EXTERIOR MOLDING

Z 21

A 1

12000

LBS IN.

NOTE: Paint stripe - Ref. RPO D96
(Delete paint stripe RPO D96 when "SS" is specified).
NOTE: The following components are not illustrated in this R. P. O. See Parts List or Bill of Materials for part numbers.

UPC 7 TRANSMISSION
Assembles same as RPO M35

UPC 9 STEERING
9B STRG WHEEL & SHROUD ASM-

UPC 11-13 SHEET METAL
11A FENDER ASM-
11E SKIRT ASM-FRT FENDER-
11G EMBLEM RAD GRILLE-
MOLDING-FRT FDR WHL OPG
Assembled same as RPO Z21

UPC 12 ELECTRICAL
12C FRONT LAMPS-
Direction Sig Flasher)-
(Park Lamps)-
12G HORN, SWITCH, WRG & MT
(Horn but. cap & emblem)
Assemble same as RPO N30

NOTE: Paint stripe-Ref. RPO D96
(Delete paint stripe RPO D96 when "SS" is specified).
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

3940195

1. 9420272 NUT
2. 3938642 MOLDING
3. 3949627-8 BRACE-L & R.H.

FENDER SKIRT

RETRACTABLE HEADLAMP SUPPORT, NUT & SCREW

PROD SCREW

10 - 15 LBS IN.

GRILLE MOLDING & FDR BRACE

Z22

A2
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1 3943231 PLATE
2 9419756 NUT

RALLY SPORT - FENDER NAME PLATE

10 - 15 LBS IN.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1 3949631 TANK ASM
2 3846202 SCREW
3 5638498 RELAY ASM-VACUUM
4 423585 SCREW

ASSEMBLY INSTRUCTIONS

- 3/4 x .122 DIA. HOLES AT DIMPLES IN L.H. FENDER SKIRT

- 1/2 x .122 DIA. HOLES AT DIMPLES IN L.H. FENDER SKIRT

- 7/16 x .122 DIA. HOLES AT DIMPLES IN L.H. FENDER SKIRT

120 - 180 LBS IN.
15 - 20 LBS IN.

RPO N40 WITH L-6 ENGINE
WITH 3 SPEED TRANSMISSION

RALLY SPORT-RETRACTABLE HEADLAMP
VAC. RESERVE TANK & VAC. RELAY

- CHEVROLET MOTOR DIVISION, GMC

UPC 22 - B1

DATE SYM DIGIT RECORD AUTH. DR.
Z22 B1 80/62/9H/02 36/13 FY/RC 99-22/21/1N

12000

DWG/REL 3/13 FROM L-89/09 LW
DATE REL 4/29 DF LW

CHS VOT MOTOR DIVISION, GMC
ASSEMBLY PROCEDURE

1. a. Clean mating surfaces with a solvent (mineral spirits or equiv.)
   b. Wipe dry.

2. Apply sealant [18] (adhesive) in brush form .015 minimum thickness.

3. Press mating surfaces together to displace air.

4. Partial cure occurs in (2) hours.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

Sheet 31

3940195

1 4778650 STRAP
2 3776292 HOSE

EXISTING PRODUCTION CLIPS

TEE (Sheet B6)
VAC. RELAY ASM.

HOSE TO HEADLAMP SWITCH (ORANGE)
(Sheet B7)

HOSE TO CHECK VALVE (BLACK)
(Sheet B7)

HDLMP WASHER
HOSE
EXT WIRE ASM
RPO C60

TO MOTOR

RALLY SPORT - RETRACTABLE
HEADLAMP HOSE ROUTING

Z22

B5

UPC DATE/TIM MODIFIED D2/C0

GMC TRUCK MFG. DIVISION, GM
ASSEMBLY INSTRUCTIONS

1. 3949690  HOSE ASM (FRONT)
2. 3830786  RETAINER
3. 4778650  STRAP

1969 CAMARO 12000 SERIES

RALLY SPORT-RETRACTABLE HEADLAMP
FRONT VACUUM HOSE ROUTING

HEADLAMP DOOR ACTUATOR ASM.

VAC. RESERVE TANK ASM.

VAC. CONTROL RELAY ASM.

BUMPER BRKT.
(Sheet B3)

VIEW A

HOLE ASM (REAR) (YELLOW)

ORANGE BLACK

RED GREEN

GEN. & FWD LAMP WRG HARNESS ASM.

VAC. HOSE (BLACK, TEE TO CHECK VALVE) Sheet B7

VAC. HOSE (ORANGE, VAC. CONT RELAY TO HEADLAMP SWITCH) Sheet B7

HOLE ASM (REAR) (YELLOW)

HEADLAMP DOOR ACTUATOR ASM.
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 3949642 HOSE L-6 ENG
   3949643 V-8 ENG
2. 3949719 HOSE ASM (REAR)

3. 3891523 FITTING ASM
   3920994 RPO J50
   3891524 RPO C60
   3920996 RPO C60 & J50
4. 3891523 FITTING ASM
   3891524 RPO M35, M40
   3905372 RPO J50
   3905374 RPO J50 WITH M35, M40
   3891527 RPO M35, M40 WITH C60 OR K30
   3905376 RPO J50 WITH M35, M40 & C60 OR K30
   3894339 RPO M35, M40 WITH C60 & K30
   3891525 RPO Z28
5. 1995176 SWITCH ASM-LT (Exc RPO U17)
   1995177 RPO U17

NOTE
For hole piercing info see UPC 0.

VIEW A
V-8 ENGINE

VIEW B

100 - 125 LBS IN.
ASSEMBLY INSTRUCTIONS

3940195
1969 CAMARO 12000 SERIES

1. 3849124 NUT
2. 916963-4 LAMP ASM-BACKING L.&R.H.
3. 9414723 SCREW
4. 5960939 SCREW
5. 9417866 BULB

BODY REAR WIRING HARN. (FISHER)

GROMMET (Fixed in pos’n along wire, is part of Lamp Asm)

RALLY SPORT-BACKING LAMP

Z22
B9

10 - 20 LBS IN.

* CHEVROLET MOTOR DIVISION, G.M.C. *
SUGGESTED RALLY SPORT HEADLAMP ASSEMBLY PROCEDURE

A. Headlamp Housing Sub-Assembly
   1. Housing assembly (A)
   2. Actuator assembly (B)
   3. Hinge (C)
   4. Plate assembly (D)
   5. Headlamp assembly (E)

B. Headlamp Housing Assembly
   1. Drive Outboard attachments to fender
   2. Loose assemble inboard attachments and shim (F) (if required) to radiator support to maintain a parallel line of plate (D) to grille at inboard edge.
   3. Drive inboard attachments

C. Aim Headlamps (E)

D. Headlamp Door Cover Assembly
   1. Sub-Assemble cover (H) to cover (J)
   2. Loose assemble cover (H) to plate. Adjust cover so there is .04 to .170 gap between cover and grille.
   3. Drive attachments
ASSEMBLY INSTRUCTIONS

1969 CAMARO 12000 SERIES

1. 115854 NUT
2. 239472 SPL WASHER
3. 3957028 HOSE
4. 3957029 NOZZLE
5. 3760758 TEE
6. 4919503 VALVE
7. 3825545 HOSE
8. 3957025 HOSE

NOTE: Part number & installation on valve, hose & motor same as RPO C61.

EXISTING STRAP (SEE SHEET BE)

- VIEW A
- RIGHT SIDE
- LEFT SIDE

10 - 15 LBS IN.
1969 CAMARO 12000 SERIES

The following components are not illustrated in the RPO. See parts list or bill of material for part numbers.

UPC 1 BODY
   1A2B INSTRUMENT PANEL PARTS

UPC 9 STEERING
   9B STEERING SHROUD

3940195
388683 TRIM PLATE (RPO M35, M38 & M40)
3945594 TRIM PLATE
3923611 TRIM PLATE
3923615 TRIM PLATE

Bend tabs down securely 100° to 110°.

BRAKE PEDAL
PARKING BRAKE PEDAL
CLUTCH PEDAL
ACCELERATOR PEDAL

BRK PED TRIM PLT

Z23
A1
NOTE: The following items are listed in UPC "0" Miscellaneous Shipping List.

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<tr>
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<td>FRT BUMPER VALANCE EXT</td>
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SPECIAL COUPE EQUIP. (302 CU. IN.)

CONTENTS

12437

SPECIAL COUPE EQUIP. (302 CU. IN.)

CONTENTS

12437

UPC 12437

DATE SYM REVISION RECORD AUTH. DR CX

5-11-69 A5 ADDED RC

1-14-69 CARRY OVER NOTE RMVD LF

5-31-69 SHEET A3 ADDED 22502 AS

7-7-69 DRAWING REVISED 24814 HA-5

7-7-69 ENG. MTG. - G.N. ADDED 25573 AS-3C
INSTRUCTIONS

NOTE: The following components are not illustrated in this R.P.O.
See Parts List or Bill of Material for part numbers.

UPC 3 FRONT SUSPENSION
3A FRONT SUSPENSION-ASM STEERING KNU UPPER CONTROL ARM BALL
STUD & SEAL-1
3B FRONT HUBS & BEARINGS-1
3C FRONT SPRING-Assembles same as prod & RPO F41
3D FRONT SHOCK ABSORBER ASM-1

UPC 4 REAR SUSPENSION
4A4 PROP SHAFTS & UNIVERSAL JOINTS (Strap & bolt)-Assembles same as RPO L48
4B REAR SPRING-Assembles same as prod & RPO F41
4D REAR SPRING INSTALLATION PARTS-Assembles same as RPO L35
4E REAR SHOCK ABSORBER ASM-1

UPC 5 BRAKES
5 BRAKES-Assembles same as RPO J50 & L48

UPC 6 ENGINE
6C2 CRANKSHAFT BALANCER-Assemblies same as RPO L65
6K1 FAN & DRIVE-Assemble same as RPO K02.
6M4 FUEL PUMP-1
6Q POWER PLANT TO FRAME MOUNTING-1 R.H. Side
6T AIR INJECTION REACTOR EQUIPMENT-1
6Y1 GENERATOR & REGULATOR-1
6Y3 DISTRIBUTOR-1
6Y4 COIL ASM-IGNITION SPARK PLUG WIRING-1

UPC 8 FUEL & EXHAUST
8C EXH PIPE MUFFLER & TAIL PIPE-Assemble same as RPO N10

UPC 9 STEERING
9D STEERING LINKAGE-1

UPC 10 WHEEL & TIRES
10B COVER-WHEEL TRIM & TIRES-1

UPC 12 ELECTRICAL
12A BATTERY-STORAGE-1

UPC 13 RADIATOR & GRILLE
13A BODY ASM. RAD-1

UPC 14 BUMPERS & MISC.
14A2 REAR BUMPERS-Assembles same as RPO V32
14B GREASE & OIL-1

Assembles same as production. See Parts List or Bill of Materials for part number.
ASSEMBLY INSTRUCTIONS

1. WING NUT
2. AIR CLEANER
3. STICKER
4. GASKET
5. STUD
6. HOSE
7. CONNECTOR
8. HOSE
9. HOSE
10. ARRESTER ASM.
11. VALVE ASM.

15 - 25 LBS IN.

SPECIAL COUPE EQUIP. (302 CU. IN.)
AIR CLEANER & CLOSED POS. VENT.

CHEVROLET MOTOR DIVISION, GMC
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

COUPE REAR WINDOW MOLDING

Conv or coupe vin. top molding

NOTE: Painted area on extension to be between points "A" & "B".

VIEW A

POINTER

POINTER

Z28

B2

DECK LID OPENING

POINT A

POINT B

VIEW B

RPO D80

SPECIAL COUPE EQUIP. (302 CU. IN.)
PAINT STRIPE-REAR

UPC

DATE

DIMENSIONS

AUTOM. DR. CK

Z28

B2

12437-637

E.N. REF: Prod. B2 5-128851

DATE: 4-28

1.

475
ASSEMBLY INSTRUCTIONS

3940195

SHEET TITLE
A1 CONTENTS
A2 NON-ILLUSTRATED PARTS

A3 HOOD INSULATOR
A4 TRIM PLATES

1. 120361 NUT
2. 3769610 SPL WASHER
3. 9419784 NUT
4. 3948552 SPACER
5. 3922826 SCREW & BRACKET ASM
6. 9420184 NUT
7. 3945913 PLATE ADM
8. 9428628 SCREW ASM
9. 3925430 ASSIST HANDLE CHART
10. 9420184 NOT
11. 9419784 NUT
12. 3950003 EMBLEM

INSTRUMENT PANEL

NOTE 1/8 + 0
- 1/64 dia.

2 holes drill at assembly in instrument panel.

10 - 15 LBS IN.
15 - 25 LBS IN.
25 - 30 LBS IN.

87 1969 CAMARO 12000 SERIES

DE LUXE INTERIOR- CONTENTS, TRIM PLATE & ASSIST HANDLE

Z87

A1

477
NOTE The following components are not illustrated in this R.P.O. See Parts List or Bill of Material for part numbers.

<table>
<thead>
<tr>
<th>UPC 1</th>
<th>BODY</th>
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<tbody>
<tr>
<td>1A2B</td>
<td>INSTRUMENT PANEL PARTS- ①</td>
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<tr>
<td>1A2E</td>
<td>MISCELLANEOUS PARTS- ①</td>
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<tr>
<th>UPC 5</th>
<th>BRAKES</th>
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<tr>
<td>5C</td>
<td>SERVICE BRAKE PEDAL-Assembles same as RPO Z23</td>
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<tr>
<th>UPC 9</th>
<th>STEERING</th>
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<tr>
<td>9B</td>
<td>STEERING WHEEL-Assembles same as RPO N30</td>
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Assemble same as production. See Parts List or Bill of Materials for part numbers.
NOTE! Sufficient pressure must be exerted at the center of retainer to assure full engagement of the largest diameter of retainer prong thru the hood inner panel.
ASSEMBLY INSTRUCTIONS
1969 CAMARO 12000 SERIES

1 39419842 NUT
2 3945983 PLATE ASM
3 3945978-9 PLATE ASM-L. & R.H.

4 3945971 PLATE ASM
3945973 RPO C06 OR C50
3945975 RPO C06 & C50

20 - 30 LBS IN.

DELUXE INTERIOR-RADIO & LIGHT SWITCH TRIM PLATES

DATE 8-26-68
DOCUMENTATION RMVD

UPC 12-26-68

A4 SHEET 1

U63, U69, U79
Attaching parts same as prod.

**INSTALLATION INSTRUCTIONS**

Position switch in bracket & push in to maximum distance. Move accelerator lever (throttle linkage not attached) to maximum rearward position against fire wall (wide open throttle stop).
ASSEMBLY INSTRUCTIONS

1. 3955231 SEAL
2. 3955230 FLANGE
3. 3955232 EXTENSION RPO L48
   3955233 RPO Z28
4. 6485233 AIR CLEANER RPO L48
   6485234 RPO L48 WITH RPO M35 OR M38
   6485235 RPO L34, L35, L78 & Z28
5. 3747933 STUD RPO L78 & Z28
   3921975 RPO L48
6. Position air cleaner into slot before tightening.
7. 3923260 CONNECTOR RPO L48
8. 3951632 HOSE RPO Z28 & L48
9. 3849856 ARRESTOR RPO L48
10. 3959138 STICKER
11. 3951636 TUBE RPO L48 WITH RPO M35 OR M38
12. 1115270 COIL ASM RPO L48 & Z28

Position air cleaner into slot before tightening.

- SPECIAL DUCTED AIR HOOD
- AIR CLEANER & RELATED PARTS

1969 CAMARO 12000 SERIES

- CONCOURS D'ELITE
- PERFORMANCE
- CUSTOM
- MOTOR DIVISION, GM
NOTE! Wrap seal around perimeter of asm. Location of joints opt.

NOTE! With valve closed & solenoid in bracket & attached to valve, hold solenoid plunger depressed, pull back to remove all end play and then clamp to specified torque.

20 - 30 LBS IN.
**ASSEMBLY INSTRUCTIONS**

3940195

1969 CAMARO 12000 SERIES

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**ASSEMBLY INSTRUCTIONS**

3940195

1. 9422033 STRAP
2. 3747298 TAPE
3. 6297616 WIRE ASM
4. 121752 L. WASHER
5. 4540898 RELAY ASM-CARB AIR CONT VALVE
6. 9415191 SCREW
7. 3955229 GROMMET

---

**1969 CAMARO 12000 SERIES**

**NOTE** Route thru existing slit in dash mat.

**EXISTING HOLE**

**SOLNOID ASM**

**ENGINE HARNESS TO STARTER MOTOR**

**EXISTING ENGINE HARNESS**

**HOLD INNER PANEL**

**EXISTING HOLE**

**ACCL LEVER**

**NOTE** Install Lock Washer between relay and panel.

**10 - 15 LBS IN.**

---

**CHEVROLET MOTOR DIVISION, GMC**

**1** SPECIAL DUCTED AIR HOOD-
WIRE ASM

**2** 12400 WITH RPO L34, L35, L78, Z28 & L48

**Dwg 9-5  Date 9-12 RC**

**UPC**

**DATE**

**SYM**

**REV**

**REVISION RECORD**

**DRAWER**

**REVISION RECORD**

**DRAWER**

**REV**

**DRAWER**

**REV**

---

**A5**

**ZL2**
NOTE: Sufficient pressure must be exerted at the center of retainer to assure full engagement of the largest diameter of retainer prong thru the hood inner panel.