

# GROUP 0

## INTRODUCTION—GENERAL INFORMATION

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### INTRODUCTION

This manual is divided into major Groups, Sections, and Paragraphs as explained below. The purpose of this arrangement is to bring related subjects closely together in accordance with the usual methods of performing service operations, and consequently to present information in a logical and easily understood order.

Any desired subject in this manual may be

located by reference to the alphabetical index at back of manual.

Any desired subject also may be located by turning to the first page of the appropriate Group where contents of the Group are listed. Where the Group is divided into Sections the first page of each Section lists the contents of the Section.

1. **GROUPS.** The manual is divided into the consecutively numbered major Groups shown on the preceding title page. To locate the first page of a Group, bend the manual until the black tab on first page of group can be seen in line with the Group title on title page.

The first page lists the contents of the Group.

2. **SECTIONS.** Large Groups are divided into appropriate Sections as shown on first page of the group. Sections bear the Group number and letters A, B, C, etc., in alphabetical order.

The first page of each Section lists the contents of section.

3. **PARAGRAPHS.** Each Group is divided into appropriate Paragraphs which are numbered consecutively within the Group, whether or not the group is divided into sections.

Paragraph titles and page numbers are listed on the first page of each Section if used, or on first page of the Group if sections are not used.

4. **SUB-PARAGRAPHS.** Where necessary for clarity, or distinction between models, Paragraphs are divided into appropriately titled Sub-paragraphs. These are usually lettered in alphabetical order within the paragraph.

5. **PAGE AND ILLUSTRATION NUMBERS.** Pages and illustrations are numbered consecutively within each Group. The number consists of the Group number followed by the Page or Figure number. Page numbers are printed in the upper outer corners of all pages.

6. **CROSS REFERENCES.** All references to information in other parts of manual are made by Paragraph Number, to avoid the necessity of first referring to the alphabetical index for location. Paragraph references are usually given in parentheses, for example: (par. 7-15) refers to the 15th paragraph in Group 7, "Chassis Suspension".

7. **SPECIAL TOOLS.** In locations where special tools are not locally available, they may be obtained through Kent-Moore Organization, Inc., 28635 Mound Road, Warren, Michigan.

### 1965 BUICK SPECIAL AND SKYLARK MODELS

Series	Body Style	Designation	
		V-6	V-8
Special	2-Door Thin Pillar Coupe . . . . .	43327	43427
	4-Door 2-Seat Station Wagon . . . . .	43335	43435
	2-Door Convertible . . . . .	43367	43467
	4-Door Thin Pillar Sedan . . . . .	43369	43469
Special Deluxe	4-Door 2-Seat Station Wagon . . . . .	43535	43635
	4-Door Thin Pillar Sedan . . . . .	43569	43669
Sportwagon	4-Door 2-Seat . . . . .		44255
	4-Door 3-Seat . . . . .		44265
Skylark	2-Door Thin Pillar Coupe . . . . .	44327	44427
	2-Door Hardtop Coupe . . . . .	44337	44437
	2-Door Convertible . . . . .	44367	44467
	4-Door Thin Pillar Sedan . . . . .	44369	44469
Sportwagon Custom	4-Door 2-Seat . . . . .		44455
	4-Door 3-Seat . . . . .		44465

### VEHICLE AND MAJOR COMPONENT IDENTIFICATION NUMBERS

**Vehicle Identification Numbers** - All 1965 models have a serial number identification plate

attached to the left front body hinge pillar. An example of this plate is shown in Figure 0-1.

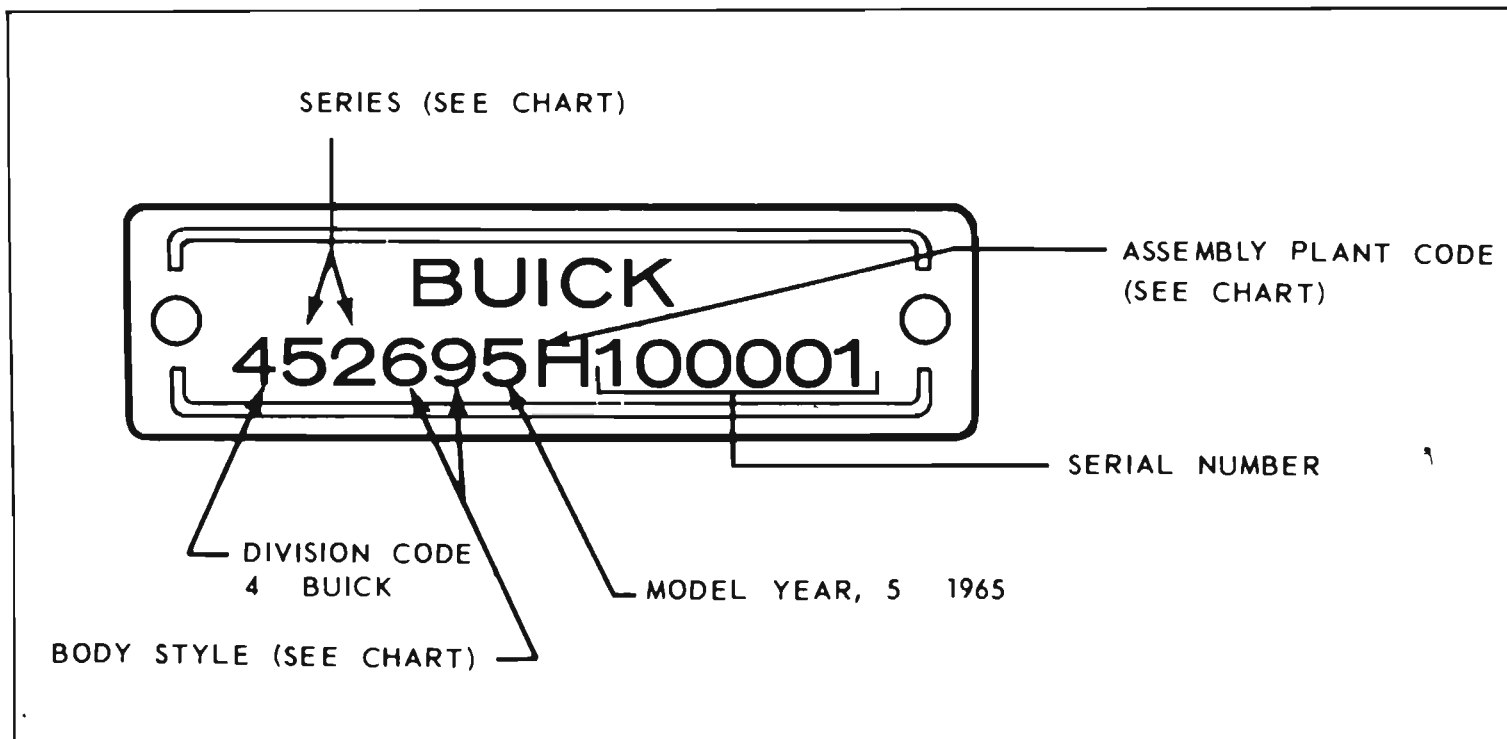


Figure 0-1—Vehicle Identification Plate

Assembly Plant Codes	
Flint . . . . .	H
South Gate . . . . .	C
Fremont . . . . .	Z
Kansas City, Kansas . . . . .	X
Wilmington . . . . .	Y
Atlanta . . . . .	D
Baltimore . . . . .	B
Kansas City, Mo. . . . .	K
Bloomfield . . . . .	V

Body Style Code No.	
2-Door Coupe . . . . .	27
4-Door 2-Seat Station Wagon . . . . .	35
2-Door Hardtop Coupe . . . . .	37
4-Door Hardtop . . . . .	39
2-Door Hardtop Coupe . . . . .	47
4-Door 2-Seat Sportwagon . . . . .	55
4-Door 3-Seat Sportwagon . . . . .	65
2-Door Convertible . . . . .	67
4-Door Sedan . . . . .	69

Series Identification	V-6	V-8
Special . . . . .	33	34
Special Deluxe . . . . .	35	36
Sportwagon . . . . .		42
Skylark . . . . .	43	44

**Fisher Body Number Plate**— Body identification is provided by the Fisher Body Number Plate. Information such as style and body numbers, trim numbers, and paint color code is found on this plate. Refer to the 1965 Body Service Manual for detailed information regarding this plate.

**Engine Numbers**—All 1965 engines are stamped with two different identification codes. One is the production code number. See Figure 0-2. This identifies the type of engine and its production date. The other is the engine serial number. This is the legal engine number and is the same number found on the vehicle identification plate. This number is used on registrations, titles, and other legal documents while the production code number is used to identify the engine on product reports, and similar correspondence.

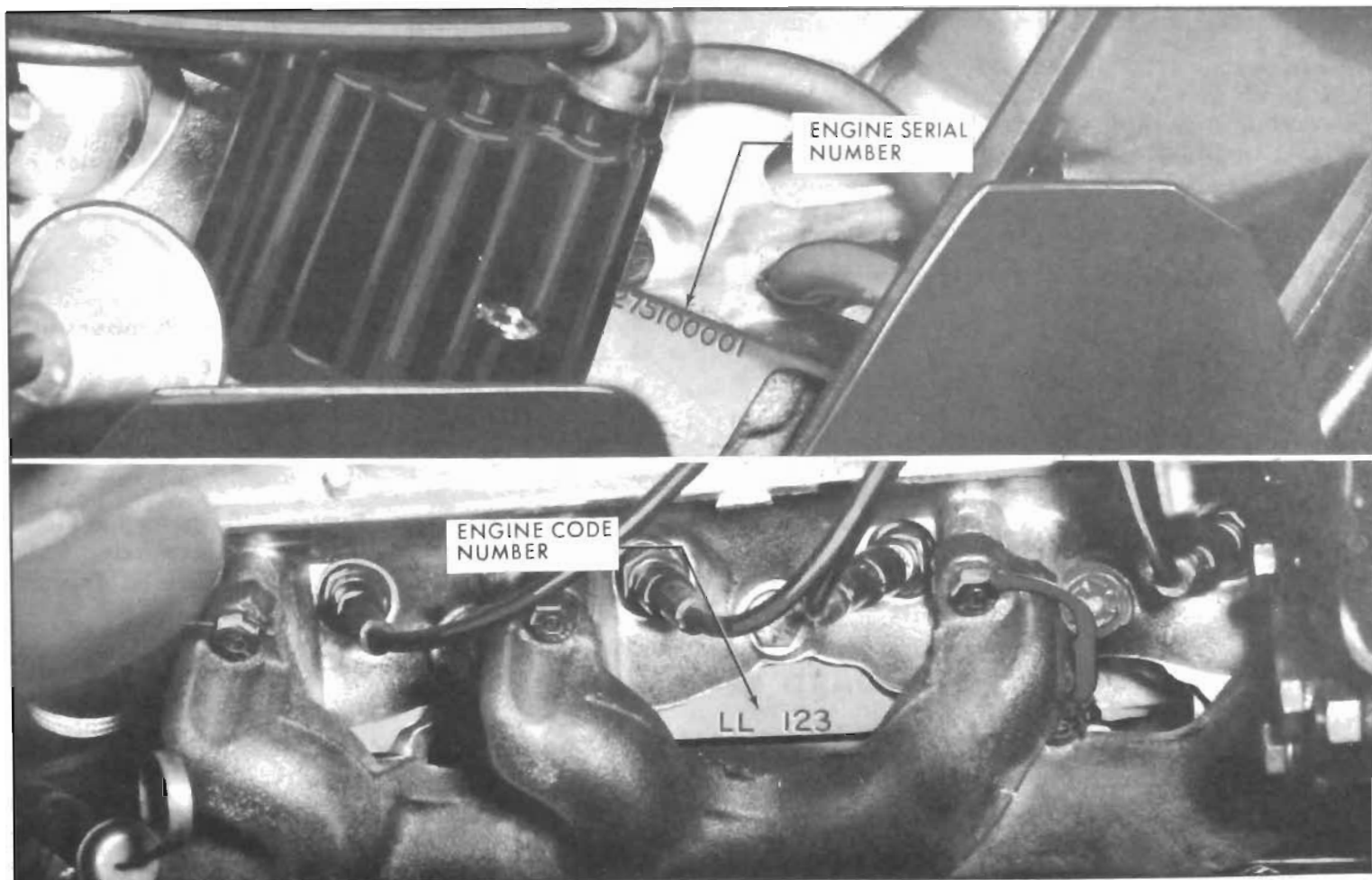


Figure 0-2—Engine Serial Number and Production Code Location

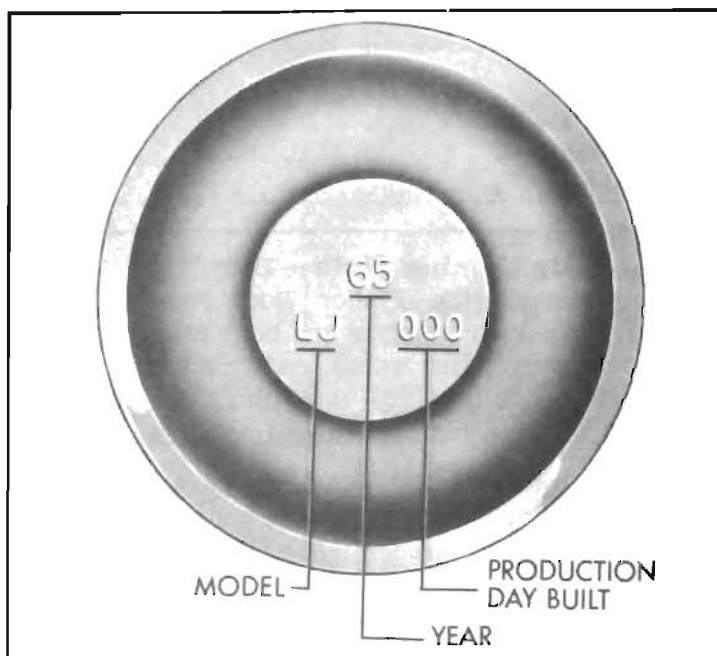


Figure 0-3—Transmission Identification  
- Super Turbine "300"

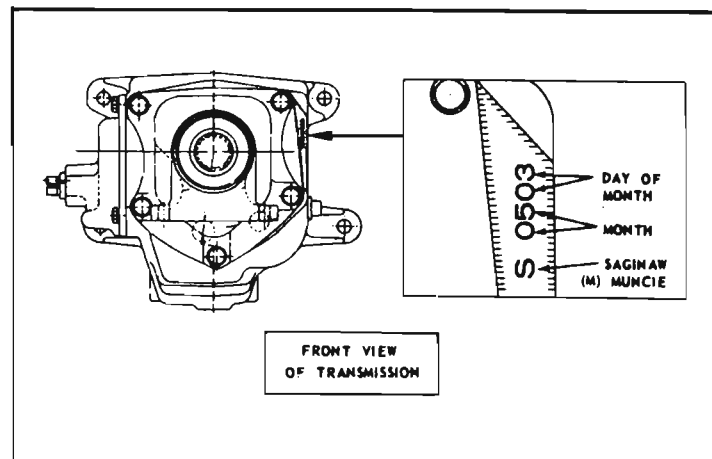


Figure 0-4—3-Speed Synchronesh Identification

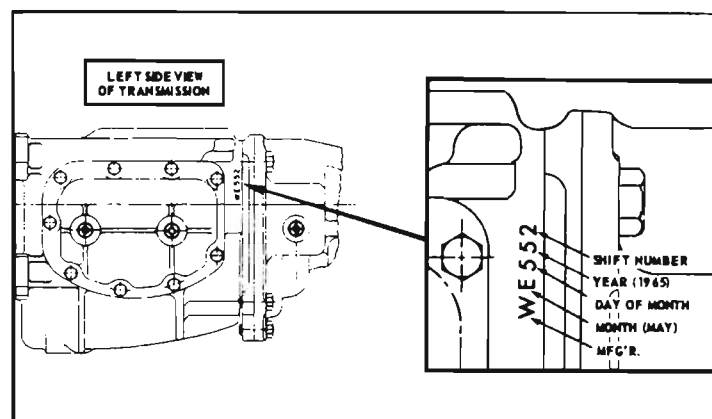


Figure 0-5—4-Speed Synchronesh Identification

1. Model Year
2. Transmission Model No.
3. Day of Transmission Production

**Synchronesh Transmission Serial Numbers—**  
3 and 4-speed synchronesh transmissions have a series of numbers stamped on the case. This number should be used when identifying transmission on product reports. See Figure 0-4 and 0-5.

**Rear Axle Marking** Figure 0-6 shows the identification marking found on the rear axle. This information should also be included on product reports involving this area.

**225 cu. in. V-6**

**Production Code Number** This number can be found on the crankcase between the front and middle branches of the right exhaust manifold.

**Serial Number** This number is stamped on the left front face of the crankcase, just below the rocker arm cover. On power steering equipped cars it will be necessary to remove the power steering pump bracket to view the entire number.

**300 cu. in. V-8**

**Production Code Number** Stamped on the right side of the crankcase and can be viewed between the middle branches of the right exhaust manifold.

**Serial Number** Stamped on the left front face of the crankcase, just below the rocker arm cover. On cars equipped with power steering it will be necessary to remove the power steering pump bracket to view the complete number.

**Transmission Identification—** Automatic transmissions have the following information stamped on the low servo cover:

**STANDARD REAR AXLE RATIOS\***

**V-6 Special and Skylark Sedans, Coupes, and Convertibles**

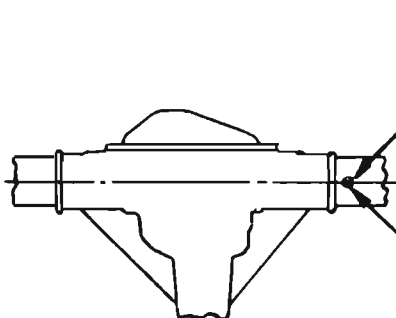
Transmission	Ratio
Automatic . . . . .	3.08
All Synchronesh . . . . .	3.23

**V-8 Special and Skylark Sedans, Coupes, and Convertibles**

Transmission	Ratio
Automatic . . . . .	2.78
3-Sp. Synchronesh . . . . .	3.08
4-Sp. Synchronesh . . . . .	3.23

AXLE TYPE	MFG. AXLE CODE	RATIO	SERIES
STANDARD DIFFERENTIAL	LA	2.78	43427-67-69, 43627-69, 44437-67-69 AUTO.
	LB	3.08	43435, 43635 AUTO. & 3-SP. SYNC.
			43427-67-69, 43627-69, 44437-67-69 3-SP. SYNC. 43327-67-69, 43527-69, 44337-67-69 AUTO.
	MB	3.08	44255-65, 44455-65 AUTO.
	LC	3.23	43327-67-69, 43527-69, 44337-67-69 3 & 4-SP. SYNC.
			434, 436, 44437-67-69 4-SP. SYNC. 43335, 43535 AUTO.
MC	3.23	44255-65, 44455-65 3 & 4-SP. SYNC.	
LD	3.36	43335, 43535 3 & 4-SP. SYNC.	
POSITIVE TRACTION DIFFERENTIAL	LN	2.78	43427-67-69, 43627-69, 44437-67-69 AUTO.
	LO	3.08	43327-67-69, 43527-69, 44337-67-69 AUTO.
			43435, 43635 AUTO. & 3-SP. SYNC. 43427-67-69, 43627-69, 44437-67-69 3-SP. SYNC.
	MO	3.08	442, 44455-65 AUTO.
	LP	3.23	43335, 43535 AUTO.
			43327-67-69, 43527-69, 44337-67-69 3 & 4 SP. SYNC. 434, 436, 44437-67-69 4-SP. SYNC.
MP	3.23	442, 44455-65 3 & 4 SP. SYNC.	
LR	3.36	43335, 43535 3 & 4-SP. SYNC.	

(FIELD IDENTIFICATION)



FOR FIELD IDENTIFICATION, ALL AXLE ASSEMBLIES TO BE STAMPED ON BOTTOM OF AXLE TUBE AS INDICATED FROM CHART. SAMPLE MARKING FOR 3.08 RATIO. DATE JULY 22 WOULD BE . . . STANDARD AXLES A-203, POSITIVE TRACTION AXLES Ⓢ A-203.

SAMPLE MARKING FOR S.C.O. RATIO. DATE JULY 22 WOULD BE . . . STANDARD AXLES 2.56-203, POSITIVE TRACTION AXLES Ⓢ 2.56-203.

.50 DIA. APPROX. TO BE ON BOTTOM OF AXLE TUBE WITH FIELD IDENTIFICATION CODE.

NOTE: "S.C.O." INDICATES SPECIAL ORDER AXLE

Figure 0-6—Rear Axle Identification

**V-6 Special and Special Deluxe Station Wagons**

Transmission	Ratio
Automatic . . . . .	3.23
All Synchronesh . . . . .	3.36

**V-8 Special and Special Deluxe Station Wagons**

Transmission	Ratio
Automatic . . . . .	3.08
3-Sp. Synchronesh . . . . .	3.08
4-Sp. Synchronesh . . . . .	3.23

**Sportwagons**

Transmission	Ratio
Automatic . . . . .	3.08
All Synchronesh . . . . .	3.23

\*The same ratios are used for either Positive Traction or standard.

## PAINT COLOR CODES

### 1965 BUICK EXTERIOR COLORS

CODE*	COLOR NAME & DESCRIPTION
A	REGAL BLACK
C	ARCTIC WHITE
D	ASTRO BLUE
E	MIDNIGHT BLUE
H	SEA FOAM GREEN
J	VERDE GREEN
K	TURQUOISE MIST
L	MIDNIGHT AQUA
N	BURGUNDY MIST
Y	BAMBOO CREAM
R	FLAME RED
S	SAHARA MIST
T	CHAMPAGNE MIST
V	SHELL BEIGE
Z	SILVER CLOUD

\* NOTE: CODE LETTER CAN BE FOUND ON THE FISHER BODY NUMBER PLATE.

Figure 0-7—Paint Color Codes

## GENERAL SPECIFICATIONS

### Special, Special Deluxe, and Skylark Coupes, Sedans and Convertibles

Wheelbase	Front Tread	Rear Tread	Length	Width	Height
115"	58.0"	58.0"	203.4"	73.6"	54.4"

### Sportwagons

Wheelbase	Front Tread	Rear Tread	Length	Width	Height
120.0"	58.0"	58.0"	208.2"	73.6"	58.3"

### TIRE SIZES

Series	Models	Standard Tire	Optional Tire
Special V-6 Special Deluxe V-6 Skylark V-6	Sedans, Coupes, & Convertibles <u>Less</u> A.C.	6.95 x 14	7.35 x 14
Special V-6 Special Deluxe V-6 Skylark V-6	Sedans, Coupes, & Convertibles <u>With</u> A.C.	7.35 x 14	7.75 x 14

## TIRE SIZES

Series	Models	Standard Tire	Optional Tire
Special V-6 Special Deluxe V-6	Station Wagons	7.35 x 14	7.75 x 14
Special V-8 Special Deluxe V-8 Skylark V-8	Sedans, Coupes, & Convertibles	7.35 x 14	7.75 x 14
Special V-8 Special Deluxe V-8	Station Wagons	7.35 x 14	7.75 x 14
Sportwagon	All	7.75 x 14	7.75 x 14 (4-ply, 8-ply rating)

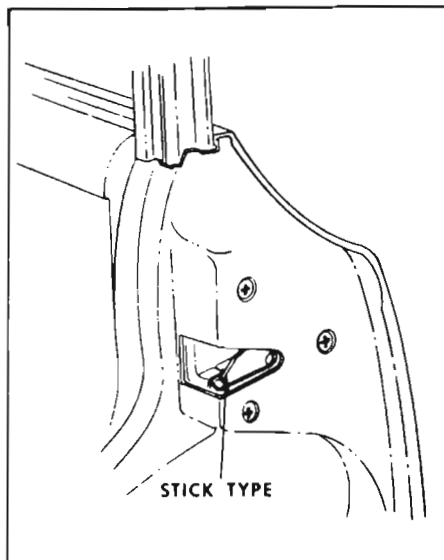


Figure 1-16—Door Lock Fork Bolt Lubrication

2. Instrument Panel Compartment Door Hinge - Wipe off dirt and apply a sparing amount of dripless oil to the hinge frictional points. Operate door and wipe off excess lubricant.

3. Lock Cylinders - If key operates roughly in any lock cylinder, blow powdered graphite into key slot. DO NOT USE OIL.

4. Gas Tank Filler Door - Apply a few drops of light engine oil to

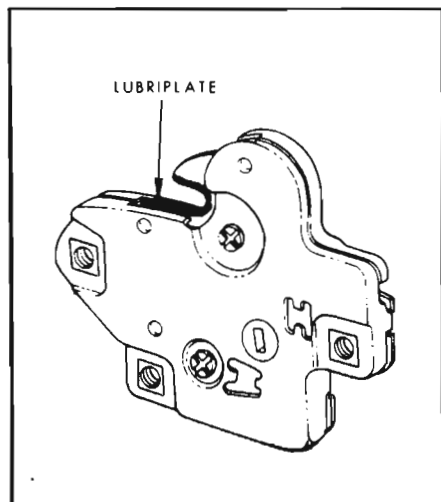


Figure 1-17—Rear Compartment Lid Lock Bolt Lubrication

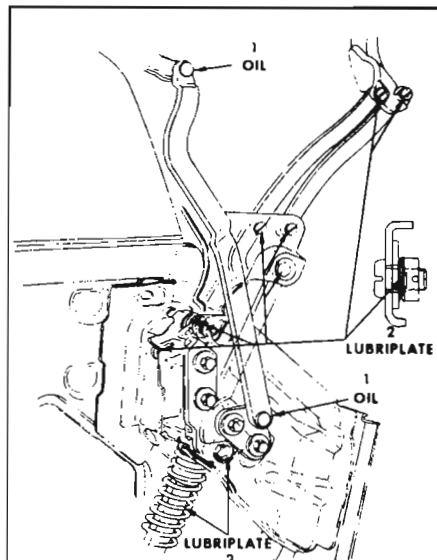


Figure 1-18—Convertible Top Linkage Lubrication

hinge. Wipe off excess oil to prevent accumulation of dirt.

5. Door Lock Fork Bolt - Wipe off dirt and apply a thin coat of stick type lubricant to contact point as shown in Figure 1-16.

6. Rear Compartment Lid Lock - Apply a thin coat of Lubriplate or equivalent to striker bolt as shown in Figure 1-17.

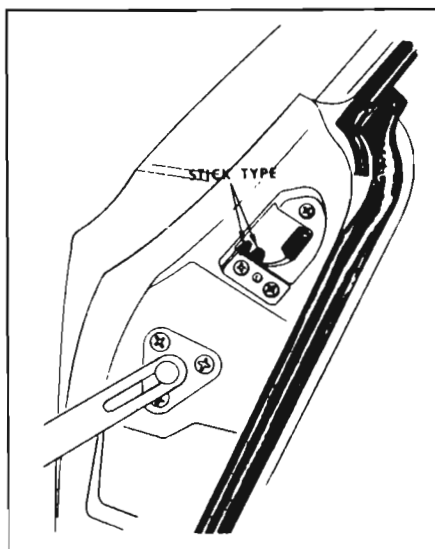


Figure 1-19—Tail Gate Lock Striker Lubrication

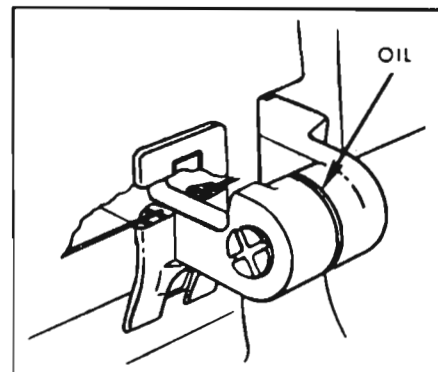


Figure 1-20—Tail Gate Hinge Lubrication

7. Door Jam Switch - Wipe off dirt and apply a thin coat of Lubriplate or equivalent to end surface of switch plunger and remove excess lubricant.

8. Front Seat Adjuster Tracks - A thin coat of Lubriplate or equivalent should be applied to seat tracks.

9. Convertible Top Mechanism - Apply a sparing amount of dripless oil to points indicated by "1" and Lubriplate or equivalent to those points indicated by "2" in Figure 1-18.

10. Station Wagon Folding Seat Linkage - Apply a sparing amount of dripless oil to all frictional points. Work seat as required and wipe off excess lubricant.

11. Tail Gate Lock Striker - Apply a thin coat of stick type lubricant to surface of lock bolt striker teeth. After lubrication, close door several times and remove excess lubricant. See Figure 1-19.

12. Tail Gate Hinges - Apply a sparing amount of dripless oil to frictional points of hinge. Work tail gate several times and remove excess lubricant. See Figure 1-20.

13. Folding Top Lift Cylinder Piston Rods - With folding top in raised position, wipe exposed portion of each top lift cylinder piston rod with a cloth dampened with brake fluid to remove any oxidation or accumulated grime.



With another clean cloth, apply a light film of brake film to act as a lubricant.

**NOTE: DO NOT ALLOW BRAKE FLUID TO COME IN CONTACT WITH ANY PAINTED OR TRIMMED PARTS OF THE BODY.**

#### b. Chassis Lubrication

1. Hood Latch and Hinges. Apply Lubriplate to hood latch as shown in Figure 1-21. Apply engine oil to hood hinge pins.

2. Hood Lacing and Hood Bumpers. Lightly coat hood lacing and bumpers with silicone lube. Wipe off excess.

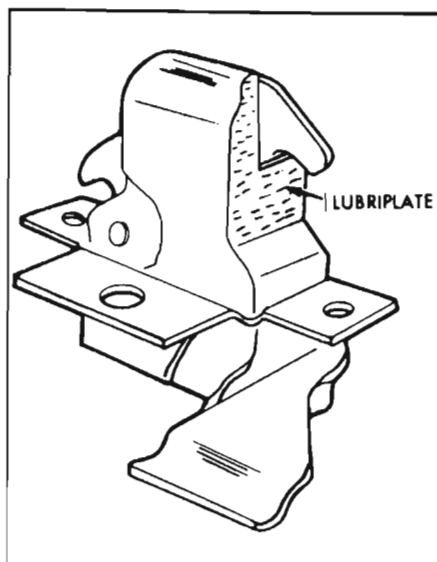


Figure 1-21—Hood Latch Lubrication

### 1-9 REAR AXLE LUBRICANT RECOMMENDATIONS

#### a. Standard Differential Axle

Buick Special and Skylark rear axles are filled at the factory with a special hypoid gear lubricant. It is not necessary to remove the original lubricant at any time except when it has become contaminated, or when it is required for inspection of parts or for repairs. Therefore there is no drain hole in the rear axle housing.

Draining and flushing are not recommended unless the lubricant has become contaminated. When complete refilling is necessary, Multi-Purpose Gear Lubricant (conforming to specification MIL-L-2105B) may be used, provided the axle has been in service

for 1000 miles or more. Axles with less than 1000 miles service must not be completely refilled with any lubricant other than Factory Hypoid Lubricant.

The lube is packaged with replacement ring and pinion gear sets and is also available through the Buick Parts Department under Group 5.535.

#### b. Positive Traction Differential Axle

Buick Positive Traction Differential Axles are filled at the Factory with a special lubricant conforming to Buick Specification No. 723. It is not necessary to remove the lubricant at any time except when it has become contaminated or when it is required for inspection of parts or for repairs. There is no drain hole in the rear axle housing.

In all cases of adding lubricant to bring to proper level or complete refilling of Positive Traction Rear Axle, only lubricant conforming to Buick Specification No. 723 may be used. Lubricant conforming to this specification may be obtained from any Buick Parts Warehouse under Group 5.535.

Positive Traction Differential Rear Axles can be identified by an embossed tag which reads, "Use Limited Slip Differential Lube Only." It is secured to the differential rear cover by one of the attaching bolts. See Figure 1-7.

### 1-10 VEHICLE OPERATION UNDER DUSTY CONDITIONS

When cars are operated in dusty climates or under adverse conditions, the following precautions should be taken to prevent dirt and other foreign materials from entering the engine.

a. Change Engine Oil - Change more often than is recommended in paragraph 1-1. The severity of the conditions should determine the frequency of oil changes.

b. Oil Filter - Change each time that the oil is changed.

c. Oil Filler Cap - When dirt is found in cap, clean as directed in paragraph 1-3.

d. Air Cleaner Element - If dirt and foreign materials found on element are excessive, clean as directed in paragraph 1-4. Check periodically.