

# **TECHNICAL BULLETINS**

**January 1969 through December 1972**

**Technical Communications Dept. of Technical Engineering**

## CYLINDER HEAD OIL GALLERY PLUGS

Bulletin Number	TS72-998	Date	December 5, 1972
Classification Number	EN72-018	Section	Engine
Models	All		

**Service Information.** When ordering a replacement cylinder head, also order the oil gallery plugs. These plugs must be installed in each replacement cylinder head to prevent oil loss and engine damage. To install plugs, first apply Loc-Tite to the chamfered edge of each plug. With the chamfered edge in, hit the plug with a brass drift until the plug seats below the level of the cylinder head. A list of head and plug part numbers, with illustrations showing the location of the plug holes, follows.

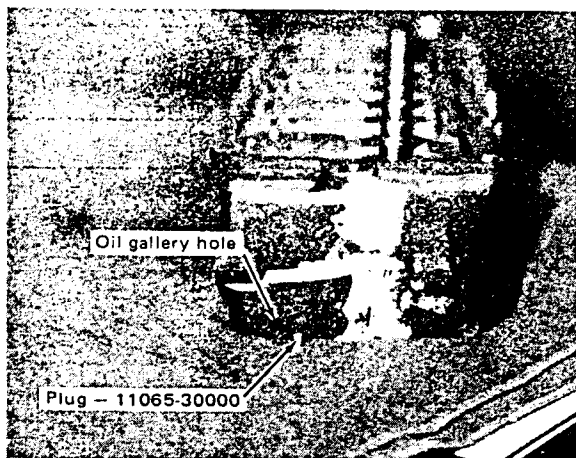


FIGURE 1. E and E1

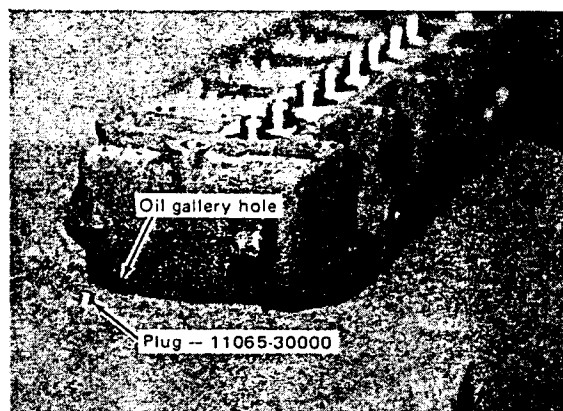


FIGURE 2. J

Figure No.	Engine	Head Part No.	Plug Part No.	Plug Quantity
1	E, E1	11041-10601	11065-30000	1
2	J	11041-B3400	11065-30000	1
3	A12	11041-H3900	00933-20650	2



FIGURE 3. A12

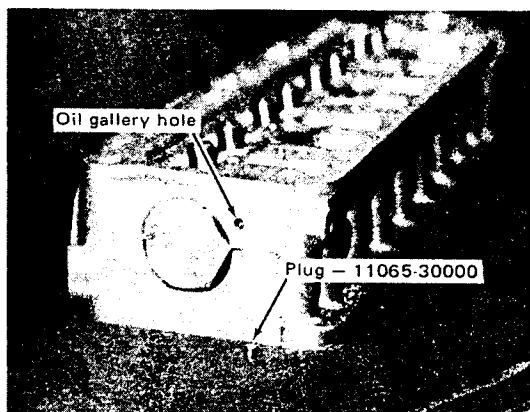


FIGURE 4. R

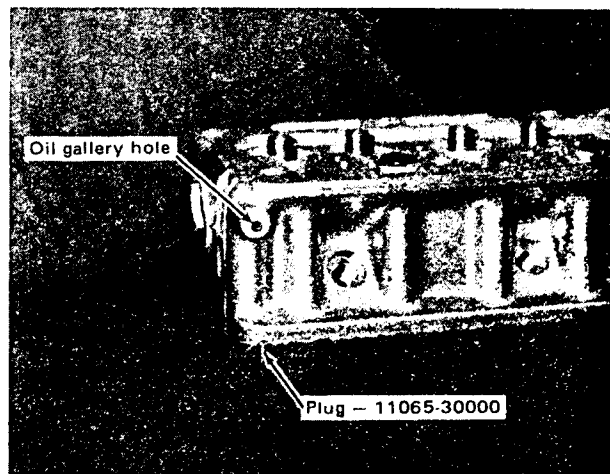


FIGURE 5. R

Figure No.	Engine	Head Part No.	Plug Part No.	Plug Quantity
4	R (to R-4000)	11041-14603	11065-30000	2
5	R (from R-4001)	11041-18812	11065-30000	2
6 & 7	G	11041-36700	11065-30000	2

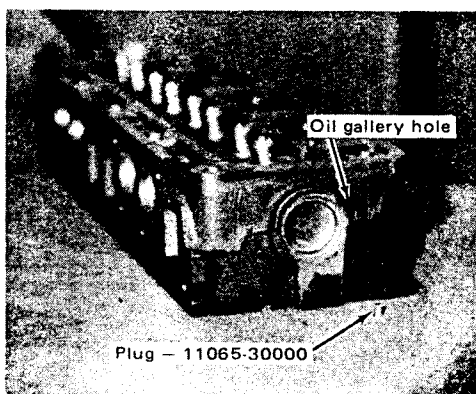


FIGURE 6. G

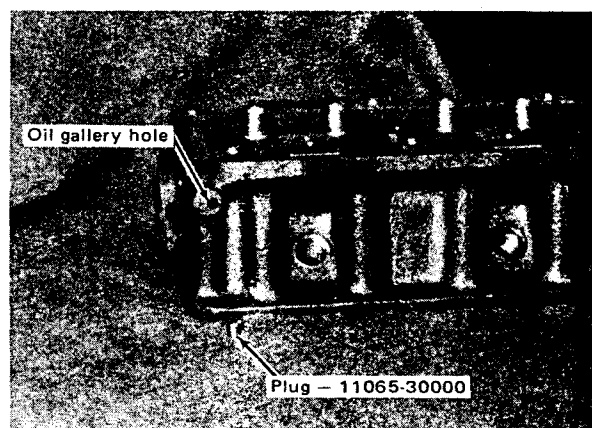


FIGURE 7. G

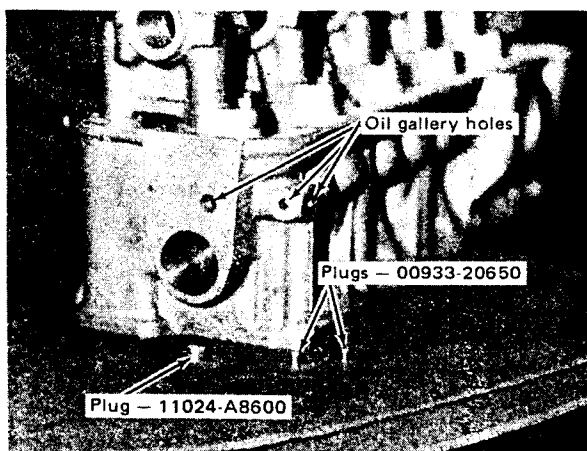


FIGURE 8. U

Figure No.	Engine	Head Part No.	Plug Part No.	Plug Quantity
8	U (with solex carbs.)	11041-25501	11024-A8600	2
			00933-20650	2
	U (with SU carbs.)	11041-25601	11024-A8600	2
			00933-20650	2

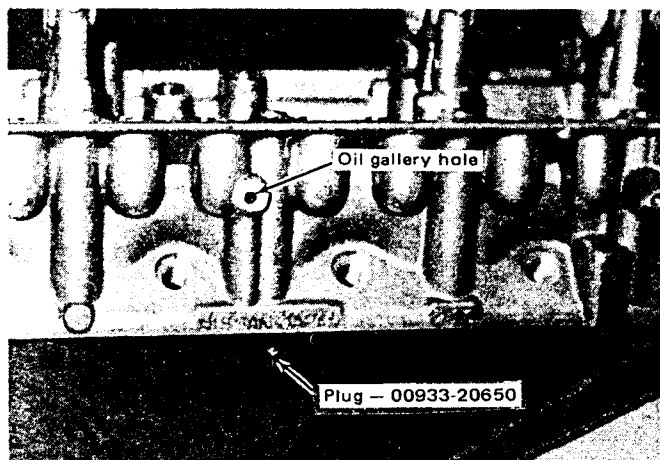


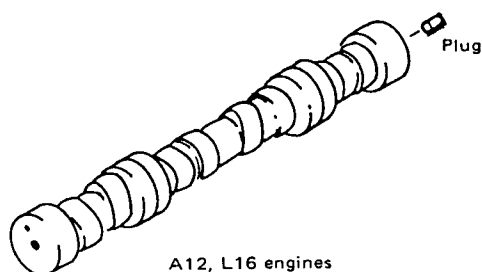
FIGURE 9. U

Figure No.	Engine	Head Part No.	Plug Part No.	Plug Quantity
9, 10, & 11	L16 (1971 & earlier)	11041-23000	11024-A8600	2
			00933-20650	1
	L16 (1972)	11041-N2201	11024-A8600	2
			00933-20650	1

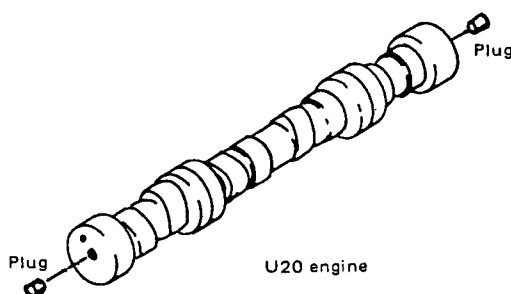
## CAMSHAFT PLUGS

Bulletin Number <b>TS72-85</b>	Date <b>August 5, 1972</b>
Classification Number <b>EN72-017</b>	Section <b>Engine</b>
Models <b>SRL311, (K)LB110, (W)PL510, PL521</b>	

**Service Procedure.** Before installing a replacement camshaft, install the oil passage plug(s). These plugs are necessary to prevent a drop in oil pressure that could result in engine damage. Each camshaft is packaged with the required plug(s). Apply Loc-Tite to the plug, and gently drive the plug into the hole, using a brass drift.



A12, L16 engines



U20 engine

### Parts Information:

Part Name (Qty)	Engine Model	Part Number
Camshaft	U20 (Solex carb.)	13001-25500
Camshaft Plug (2)	U20 (Solex carb.)	00933-20850
Camshaft	U20 (SU carb.)	13001-25600
Camshaft Plug (2)	U20 (SU carb.)	00933-20850
Camshaft	A12	13001-H1000
Camshaft Plug	A12	11023-78200
Camshaft	L16 (before 1972)	13001-23000
Camshaft Plug	L16 (before 1972)	11021-13200
Camshaft	L16 (1972)	13001-H2700
Camshaft Plug	L16 (1972)	11021-13200

# IMPROVED HEAD BOLTS ON SRL311

Bulletin Number <b>TS70-3</b>	Date <b>January 27, 1970</b>
Classification Number	Section <b>Engine</b>
Models <b>SRL</b>	

Production Change. New head bolts, made of Cro-Mo-V steel (13T), have been applied to SRL311 models. Special washers have been designed to allow for the slightly larger heads of the new bolts. Tightening torque is unchanged, 61 – 65 ft-lbs cold. Follow procedure outlined on page 40, U20 Service Manual. Tightening sequence is on page 14 of the manual.

Beginning Engine Serial Number: U20-09420

Parts Information: (See National Parts Bulletin NPD69-010.)

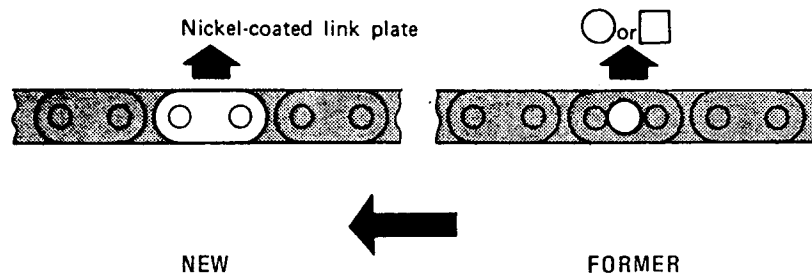
Part Name	Part Numbers		
	Long	Short	Washers
Head Bolts	11056-25502	11057-25502	11059-25501

Interchangeability: Do not combine old and new type bolts. Install new bolts as a complete set. Be sure to use the special washers.

## TIMING CHAIN MODIFICATION

Bulletin Number <b>TS71-48</b>	Date <b>October 14, 1971</b>
Classification Number	Section <b>Engine</b>
Models <b>All</b>	

Production Change. Starting with August, 1971 production, match marks on timing chains can be identified by nickel coated link plates.



Parts Information: Parts number is unchanged.

Interchangeability: Yes.

## ALUMINUM CYLINDER HEAD TORQUE

Bulletin Number TS70-29	Date August 20, 1970
Classification Number	Section Engine
Models R1600	

**Production Change.** The R1600 engine cylinder head was changed from cast iron to aluminum. Correct cylinder head bolt tightening torque for the aluminum head is 50 – 60 ft-lbs. Tightening torque for the earlier cast iron head on R1600 engines is 45 ft-lbs.

**Beginning Production Date:** 1966

## MODIFIED ROCKER ARMS AND VALVE SPRINGS

Bulletin Number TS69-5A	Date October 28, 1969
Classification Number	Section Engine
Models U20	

**Production Change.** The rocker arms are now made from hard cast iron (H.C.I.) brazed to carbon steel arms rather than chrome plated. A lower tension valve spring is used with the new rocker arms.

**Beginning Engine Serial Number:** U20-11849

### Parts Information:

Part Name	New Part Number
Rocker Arm	13259-25501
Inner Valve Spring	13204-25502
Outer Valve Spring	13203-25502

**Interchangeability:** These parts may be used on earlier engines only in complete sets.

engines and the proper spark plugs to use for each engine. Refer to Technical Service Bulletin TS70-36 for additional information.

NEW  
SPARKPLUGS →

Engine Model	NGK Spark Plug	
	New	Former
A10 (Canada)	B-5ES	B-6E
A12	BP5ES	BP-6E
L16	BP5ES	BP-6E
L24	BP6ES	BP-6E
R	B-6ES	B-6E
R with emission control	BP5ES	BP-6E
J13	B-5ES	B-6E
U20	B-6ES	B-6E

## DISTRIBUTORS

Bulletin Number <b>TS71-38</b>	Date <b>July 13, 1971</b>
Classification Number	Section <b>Engine Electrical</b>
Models <b>All</b>	

Various ignition distributors of similar construction have been used on Datsun vehicles, so it is sometimes difficult to identify the correct distributors for each engine model. To aid in identification, the chart following lists the distributor types, the engines they apply to, and their part numbers. The performance curves of each distributor are also included with this bulletin.

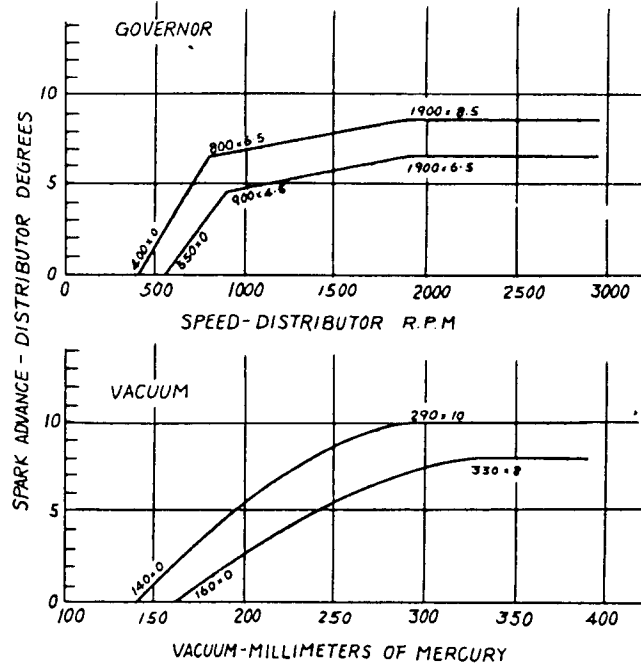
Distributor Type	Part Number	Applied Engine
D407-51	22100-14600	R16
51K	22100-14606	R16
52	22100-25500	U20
52K	22100-25506	U20
D411-53	22100-16501	J13
53K	22100-16506	J13
D412-59	22100-A5501	L16
63	22100-H1901	A12
64	22100-A5502	L16
D415-59K	22100-20605	J13
D417-56	22100-25600	U20
56K	22100-25606	U20

Distributor Type	Part Number	Applied Engine
D417-57	22100-14700	R16
57K	22100-14705	R16
61	22100-A7701	R16
D420-51	22100-23105	L16
51K	22100-23102	L16
D608-02	22100-43801	P
03	22100-46500	P
D612-52	22100-E4601	L24
D613-01	22100-44201	P
01K	22100-44205	P
D614-51	22100-E4700	L24
52	22100-E8000	L24



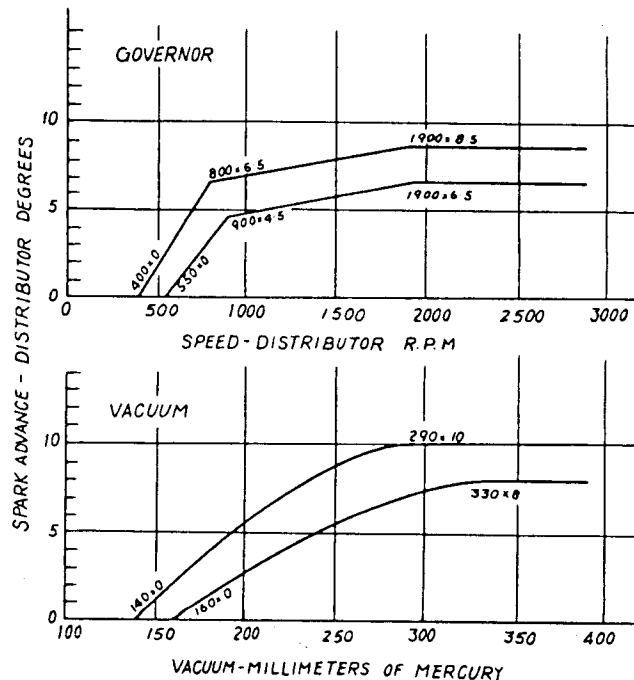
APPLIED FOR: R16 Engine

TYPE :	D407-51	D407-51K
PARTS NO. :	22100 14600	22100 14606



APPLIED FOR: U20 Engine

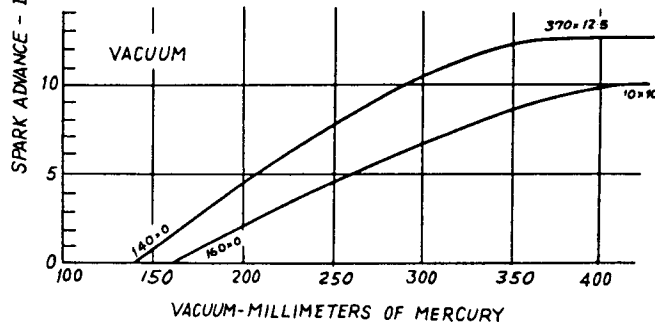
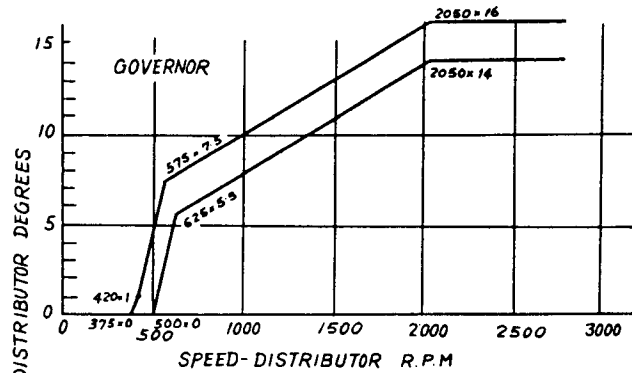
TYPE :	D407-52	D407-52K
PARTS NO. :	22100 25500	22100 25506



APPLIED FOR: J13 Engine

TYPE : D415-59K

PARTS NO. : 22100 20605



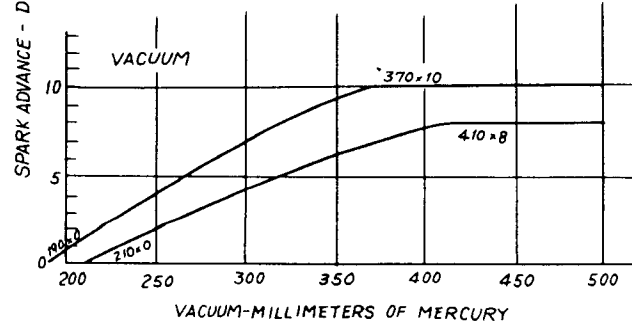
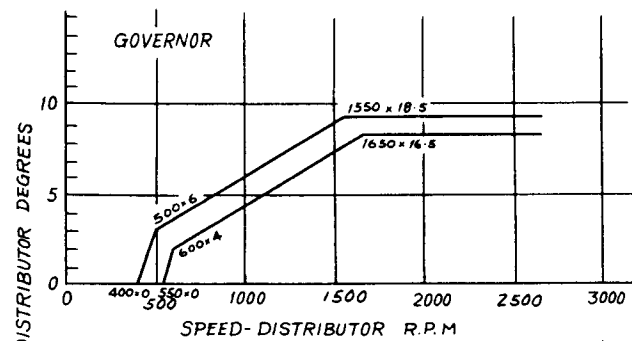
APPLIED FOR: U20 Engine

TYPE : D417-56

D417-56K

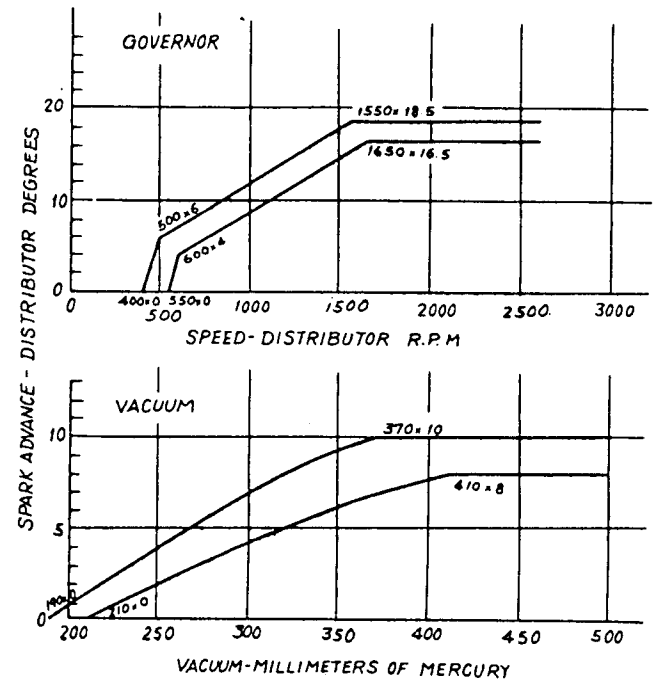
PARTS NO. : 22100 25600

22100 25606



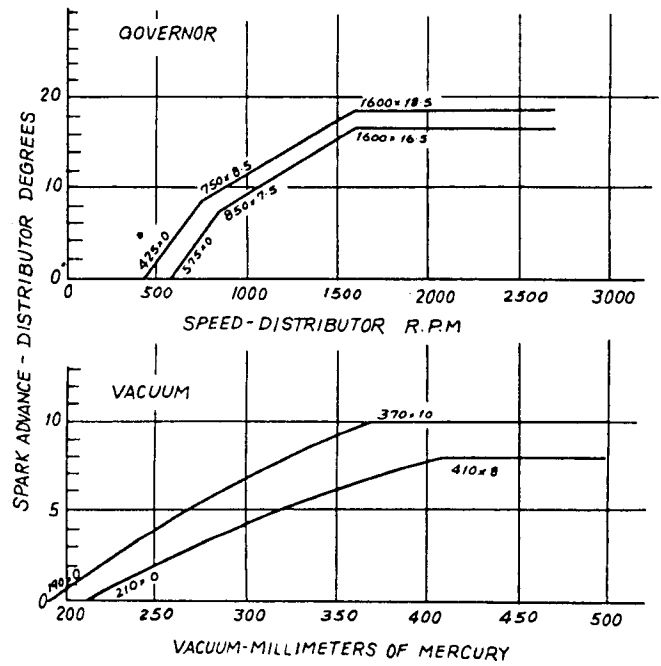
APPLIED FOR: R16 Engine

TYPE :	D417-57	D417-57K
PARTS NO. :	22100 14700	22100 14705



APPLIED FOR: R16 Engine

TYPE :	D417-61	
PARTS NO. :	22100 A7701	



## FIFTH GEAR HUB

Bulletin Number TS70-5	Date February 10, 1970
Classification Number	Section Transmission
Models SRL	

**Production Change.** Improved fifth gear hubs have been installed. New style hubs have splines between fifth gear hub (or bearing outer race) and synchronizer, while old style hubs have no splines. Checking for splines is an easy way to distinguish the new from the old. If the transmission is overhauled for any reason and it contains an old style hub, we recommend that the old style hub be replaced with a new style hub.

**Beginning Serial Number:** SRL311-14141

**Beginning Production Date:** September 30, 1969.

**Parts Information:** New Hub Number 32340-25501. (Refer to the parts catalog revised September 1, 1969.)

**Interchangeability:** Old and new hubs are interchangeable with the overdrive main shaft gear assembly.

## SUPERSEDURE OF FIRST GEAR ASSEMBLIES, SPORT CARS 1600 AND 12000 cc

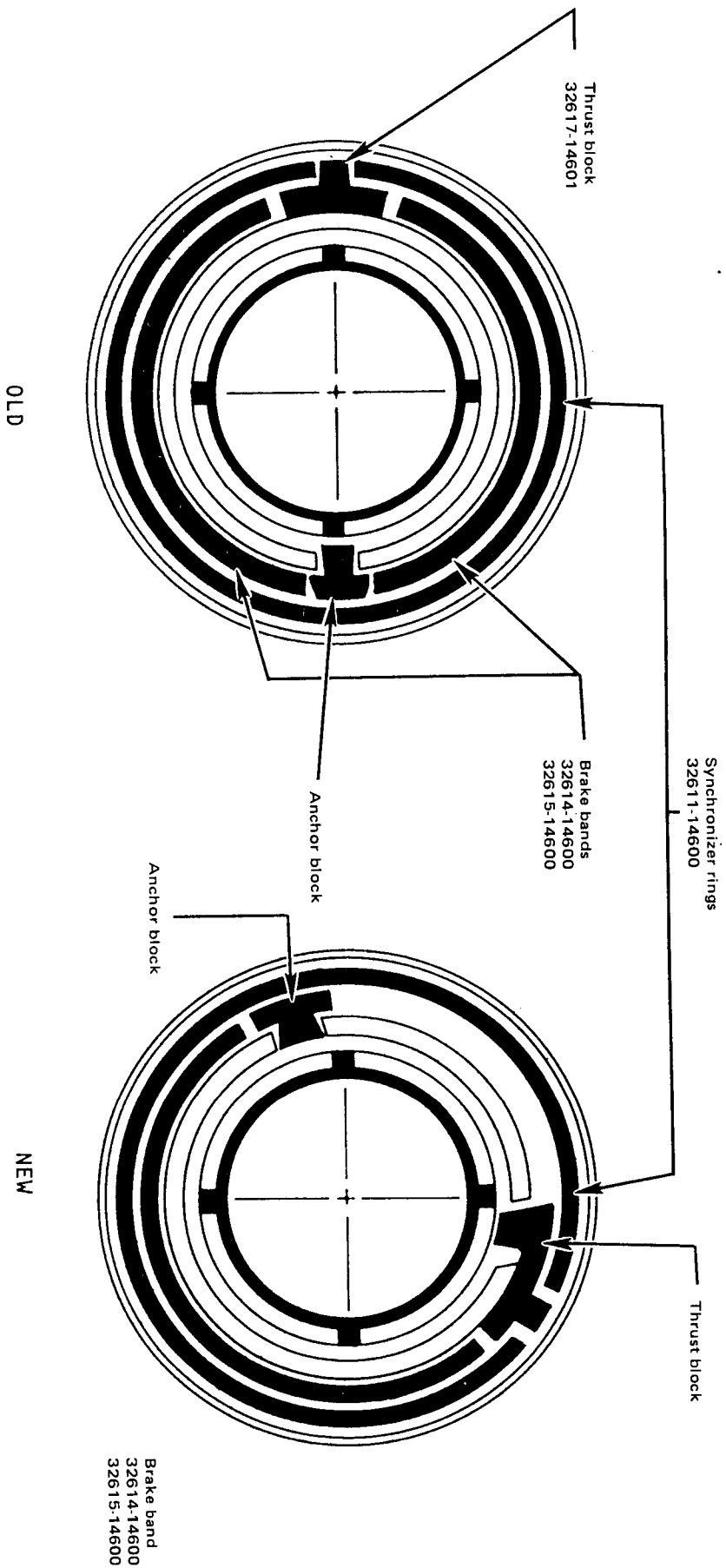
Bulletin Number TS71-24A	Date July 14, 1971
Classification Number	Section Transmission
Models 1600, 2000	

**Production Change.** Modified first gear assemblies are available for use on servo-type four- and five-speed transmissions. The new gear assemblies were installed during production on late model Datsun 1600 and 2000 roadsters. They feature redesigned thrust and anchor blocks, and one of the brake bands has been eliminated (see the attached illustrations). The synchronizer rings and circlips remain the same as those used on the previous assemblies. First gear assembly, part number 32232-14625, is designed for the servo type four speed transmission, part number 32010-14653. First gear assembly, part number 32242-25525, is designed for the servo type five speed transmission, part number 32010-25551. The modified assemblies will interchange with the previous assemblies.

### Parts Information:

Part Name	Part Number	Fits Trans. Type	Part Number
First Gear Assy.	32232-14625	Servo, Four-Speed	32010-14653
	32242-25525	Servo, Five-Speed	32010-25551

## New First Gear-Servo-Type 4 and 5 Speed Transmissions



1st Gear P/N 32242-25501 (5 speed)  
1st Gear P/N 32232-14600 (4 speed)

Superseded 1st Gears

1st Gear Assy. 32242-25525 (5 speed)  
1st Gear Assy. 32232-14625 (4 speed)

New 1st gear assembly includes new design of thrust block and anchor block Synchronizer Ring 32611-14600 is used with new assembly.  
One brake band is used.  
Circlip (P/N 32616-14600) is used to retain sub assemblies.

## NEW KEY SYSTEM AND KEY NUMBERS

Bulletin Number <b>TS70-47</b>	Date <b>October 15, 1970</b>
Classification Number	Section <b>Body and Frame</b>
Models <b>(W)PL510, SPL311, SRL311, HLS30</b>	

New Parts Information. The VOSS type steering lock/ignition key system has been installed on models PL510, WPL510, SPL311, SRL311, and HLS30.

Beginning Serial Numbers:    PL510-128489        SPL311-28777  
                                      WPL510-858612        SRL311-unknown  
    HLS30-00001

We are describing steering lock/ignition key changes in detail to avoid the confusion that might otherwise arise in ordering keys.

### Key Number Prefixes.

Originally, a WASO type ignition key carrying an FH number prefix was used on models listed above except for the HLS30. The key type was changed to a VOSS, and the first VOSS keys also carried the FH number prefix. Later, effective with the following serial numbers, the VOSS key prefix was changed to the presently used VH.

                         PL510-143513        SPL311-29820  
                         WPL510-865309        SRL311-14360

### Ordering Keys.

Because the same prefix was used on two different keys, orders for ignition keys with FH prefixes must include vehicle serial numbers. (The key used for doors, gas tank and trunk or tailgate was not changed.)

VOSS type keys have been used in the HLS30 since production began. Therefore, when an ignition key is ordered for an HLS30, a VOSS type key will be supplied whether the key prefix is FH (early models) or VH (later models).

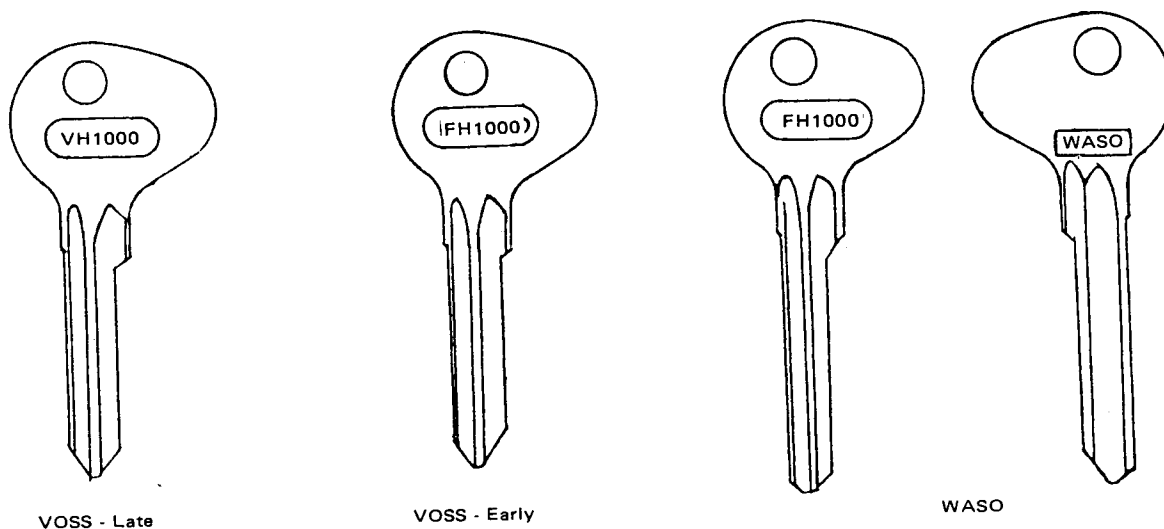
### Key Characteristics.

Both the WASO and the VOSS keys will automatically lock the steering column in position when they are removed from the ignition. If the key is not removed and the door is opened a warning buzzer will sound reminding the owner to remove the key. These are anti-theft

systems. In the table and illustrations, differences between the keys are stated and shown. Note that key profiles did not change, and that WASO keys are longer than VOSS.

Item	Voss	Waso
Manufacturer	Kanto Seiki under license of VOSS in Germany	Kanto Seiki under license of WASO in Sweden
Length	Shorter than WASO	
Key Number	VHxxxx FHxxxx (limited)	FHxxxx
Key Cutting Machine	Same as WASO type	
Blank Key	KEY00-00034	KEY00-00028

Because of its greater length, a WASO key will not fit in a VOSS cylinder. However, a VOSS key could fit into and operate a WASO cylinder, provided only that they have the same key serial number. This can pose a hazard under some circumstances. For example, if a WASO ignition is switched off with a VOSS key, the steering wheel will lock in position before the key is removed from the ignition.



#### Registration of Key Numbers.

Before delivery, dealers should register the key numbers of each car in the owner's warranty book. The numbers should also be registered on the pre-delivery form D-13 and delivering documents used by the dealer's accounting section. It is important that dealers keep a record of key numbers to assist their customers.

Key numbers are no longer entered on car invoices, but are listed on a label on the glove box lid.

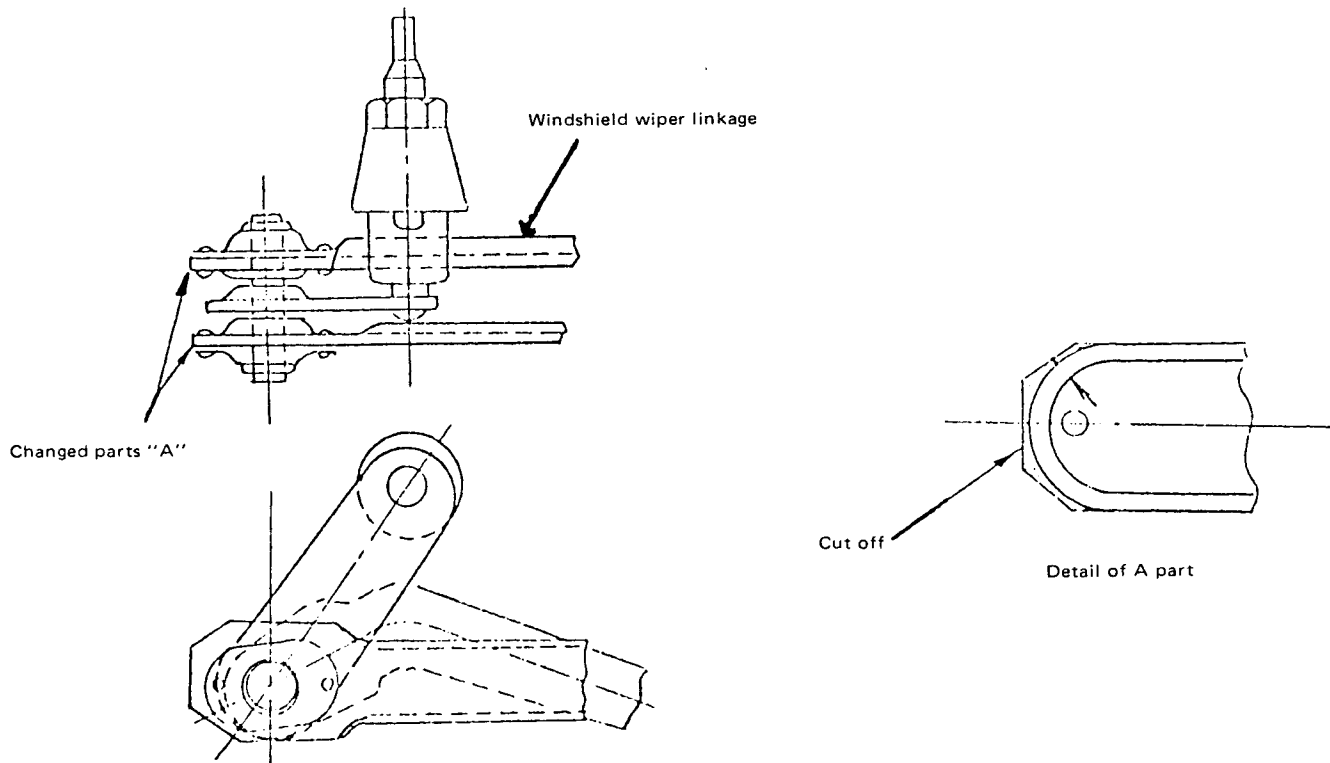
**Interchangeability:** VOSS type is not interchangeable with WASO type. VOSS type key should never be used in WASO type cylinder.

# **WINDSHIELD WIPER LINKAGE MODIFICATION AND CHANGE IN HOLE FOR WIRING HARNESS**

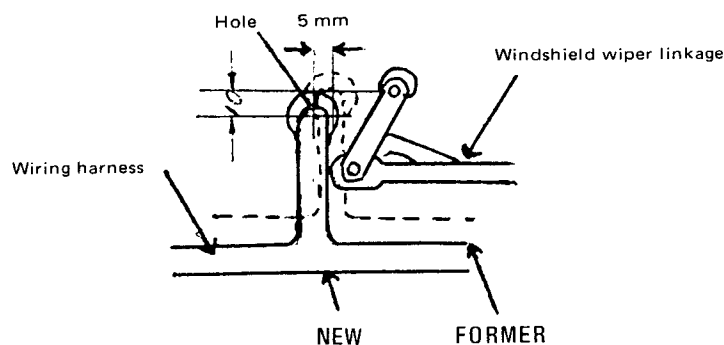
Bulletin Number <b>TS69-11</b>	Date <b>September 29, 1969</b>
Classification Number	Section <b>Body Electrical</b>
Models <b>SRL311, SPL311</b>	

**Production Change.** The windshield wiper linkage has been modified. The windshield wiper linkage rubbed the wiring harness when the wipers were on, causing shorts and other damage to the wiring harness on prior models. These improvements should correct this condition.

**Beginning Serial Numbers:**     **SRL311-12000**  
   **SPL311-26414**



**Beginning Serial Numbers:**     **SRL311-13807**  
   **SPL311-27042**



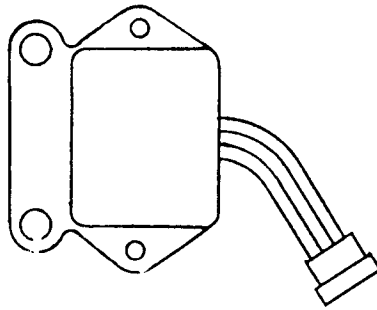


## HEADLIGHT RELAY

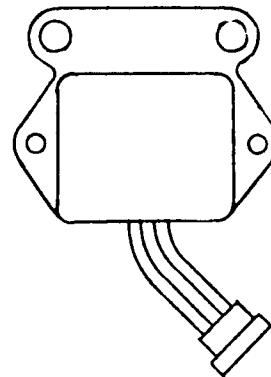
Bulletin Number <b>TS69-27</b>	Date <b>December 16, 1969</b>
Classification Number	Section <b>Body Electrical</b>
Models <b>SPL311, SRL311</b>	

**Production Change.** The headlight relay is being installed horizontally. On earlier serial number vehicles, when replacing relay, install it horizontally as shown in Figure No. 2.

**Beginning Serial Numbers:** SPL311-27573 and SRL311-13643



*FIGURE 1*



*FIGURE 2*

**Parts Information:** 25230-89905

## CYLINDER HEAD GASKET

Bulletin Number TS71-43	Date September 27, 1971
Classification Number	Section Engine
Models U20	

**Parts Information.** A redesigned cylinder head gasket is available as a replacement part for the U20 engine.

Part Name	New Part Number	Former Part Number
U20 Cylinder Head Gasket	11044-A7400	11044-25501

Interchangeability: Yes.

## TRANSMISSION DRIVE GEARS

Bulletin Number TS70-34	Date September 2, 1970
Classification Number	Section Transmission
Models SRL311	

**Service Procedure.** When one of the transmission main and counter drive gears for the FS5W71A model transmission (as used in the SRL311), needs replacing, replace both gears as a set since they are matched. Individual replacement of either gear could result in a rattling noise from the transmission at engine idling speed.

### Parts Information:

Part Name	Part Number
Main and Counter Drive Gear Set	32200-78050