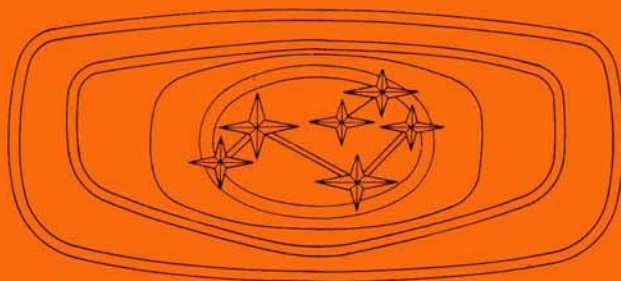


SERVICE MANUAL



SUBARU 360 YOUNG S

 ***FUJI HEAVY INDUSTRIES LTD.***

TOKYO JAPAN

FOREWORD

This service manual has been prepared as reference for effective service and maintenance of the SUBARU 360 YOUNG S vehicle.

Only the different parts from the SUBARU 360 SEDAN are described in this manual.

Please utilize this manual together with the SUBARU 360 SEDAN SERVICE MANUAL "Body Section and Engine Section" SUBARU 360 YOUNG S engine is just same as the SUBARU 360 SEDAN'S.

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1: SPECIFICATIONS

MODEL	K111DL
CATEGORY	Sedan
DIMENSIONS AND WEIGHTS		
Length	117.9 in
Width	.....	51.2 in
Height	.....	52.8 in
COMPARTMENT		
(Interior DIMENSIONS)		
Length	.....	55.5 in
Width	.....	43.3 in
Height	.....	44.1 in
Floor Height	.....	8.7 in
Ground Clearance	.....	6.3 in
Wheelbase	.....	70.9 in
Tread (Front)	.....	44.9 in
Tread (Rear)	.....	42.1 in
Vehicle Weight	.....	925 lb
LOAD DISTRIBUTION (EMPTY)		
Front Wheel	.....	352 lb
Rear Wheel	.....	573 lb
Height of Center Gravity	.....	26.0 in
Maximum Tipping Angle	.....	44°30'
No. of Passengers	.....	4
LOAD DISTRIBUTION (LOADED)		
Front Wheel	.....	573.0 lb
Rear Wheel	.....	837.0 lb
Load on Front Wheels (loaded)	.....	40.6 %
Tire Loading: Front (loaded)	.....	70.3 %
Rear	.....	102.7 %
TIRE	Front	..... 4.80-10 x 4 PR
	Rear	..... 4.80-10 x 4 PR

PERFORMANCE

Maximum Speed	.....	70 mph
Climbing Power	.....	19.7°
Minimum Turning Circle	.....	26.2 ft
Braking Distance	.....	40 ft at 31 mph

ENGINE

Manufacturer	.....	Fuji Heavy Industries Ltd.
Type	.....	Forced Air-Cooled 2-stroke Gasoline Engine
Cylinders	.....	2 in line
Bore x Stroke	.....	2.42 in x 2.36 in
Piston Displacement	.....	21.7 cu. in (356 cc)
Compression Ratio	.....	6.7 : 1
Mean Effective Pressure	.....	88.2 lb/in ² at 4,500 r.p.m.
Max. Output	.....	25 HP at 5,500 r.p.m.
Max. Torque	.....	25.3 lb-ft at 4,500 r.p.m.
Dimensions (Length x Width x Height)	.....	25.0 x 24.3 x 18.7 in
Weight	.....	172.3 lb
Location	.....	Rear
Starting	.....	Starter Motor
Ignition	.....	Ignition Coil & Battery
Ignition Timing	.....	13° before top dead center at 2,000 r.p.m.
Maximum Advancing Angle	.....	20° at 4,000 r.p.m.
Firing Order	.....	1 - 2
Spark Plug	.....	B - 7H (NGK)
Spark Plug Thread Size	.....	14 mm
Spark Plug Gap	.....	0.0276 in
Distributor	.....	NIPPON DENSO 29100 - 136
Ignition Advance Control	.....	Automatic centrifugal
Ignition Coil	.....	HITACHI 51504-1100
Carburetor	.....	HITACHI Solex Type HAB28, 1 ea.
Air Flow Direction	.....	Side draft

Air Cleaner	.....	Oil wet type paper filter
Fuel Tank Capacity	.....	6.6 US gal
Lubrication System	.....	Forced lubrication
Oil Pump	.....	Plunger Type
Oil Tank Capacity	.....	2.6 US qt.

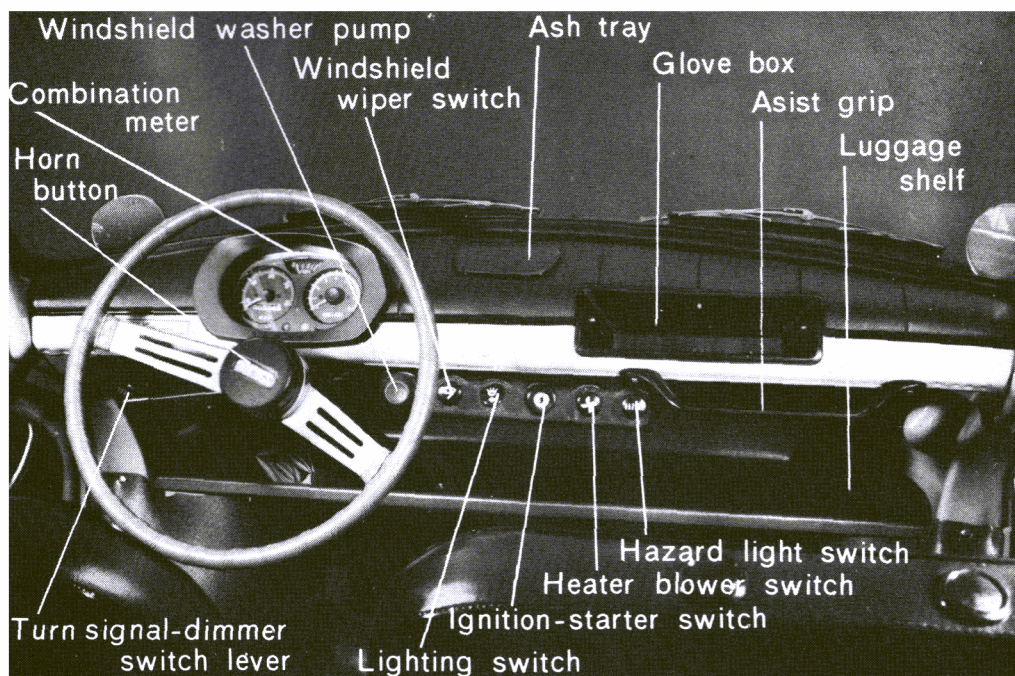
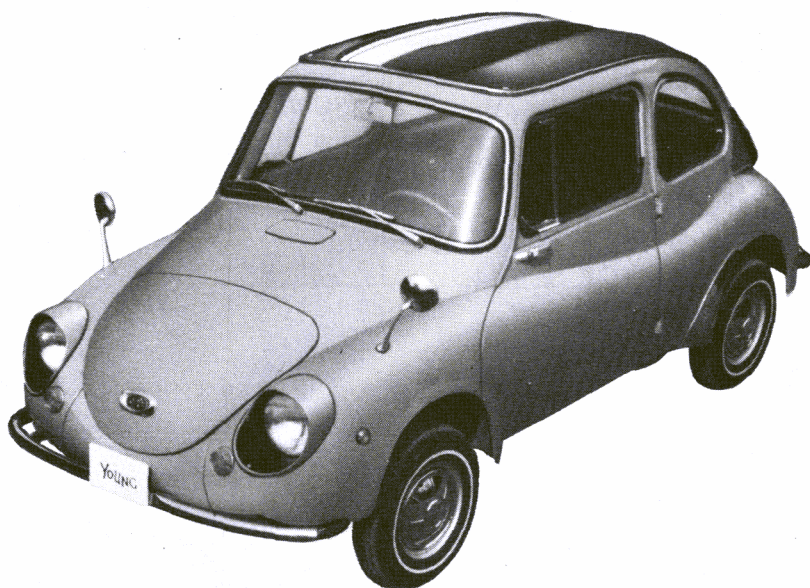
STEERING SYSTEM

Steering Gear Type	.....	Rack and Pinion
Steering Gear Ratio	.....	20.6 : 1
Steering Angle (Inner)	.....	36°
Steering Angle (Outer)	.....	27°
Steering Wheel Diameter	.....	15.1 in

UNDERCARRIAGE AND SUSPENSION

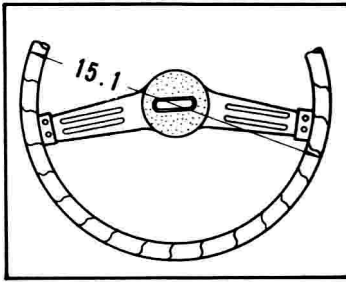
Front Wheel Axle	.....	Trailing Arm Type
Toe-in	.....	0.47 - 0.63 in
Camber	.....	1°30' - 2°
Caster	.....	13°17'
Trail	.....	3.98 in
King-Pin Angle	.....	7°
Rear Wheel Axle	.....	Swing Axle Type
Brake Type	.....	Hydraulic on all four wheels
Brake Shoe (WxTxL) Front	.....	1.2 x 0.2 x 6.1 in
Rear	.....	1.2 x 0.2 x 7.1 in
Brake Shoe Area Front	.....	29.0 in ²
Rear	.....	33.5 in ²
Brake Drum Diameter Front	.....	6.7 in
Rear	.....	6.7 in
Master Cylinder Inner Diameter	.....	0.75 in
Wheel Cylinder Inner Diameter Front	.....	0.79 in
Rear	.....	0.68 in
Max. Hydraulic Pressure (Foot Brake)	.....	1,422 lb/in ²
Hand Brake	.....	Mechanical on Rear Wheels
Front Suspension	.....	Independent

Front Torsion Bar (dia. x length)	.....	0.7 in x 17.1 in
Coil Spring (wire dia. x center dia.) x	.....	0.57 in x 2.26 in x 4.5 in - 4.2
Rear Suspension	.....	Independent
Rear Torsion Bar (dia. x length)	.....	0.69 in x 16.8 in
Shock Absorber Front	.....	Hydraulic, double action cylinder
Rear	.....	Hydraulic, single action cylinder
BODY	.....	Monocoque
LIGHTING EQUIPMENTS		
Headlights	.....	12V - 50W/40W x 2 ea. Sealed beam unit
Side Marker Light	.....	12V - 3W x 2 ea.
License Plate Light	.....	12V - 8W x 1 ea.
Reflector (in tail lamps)	.....	1.26 in dia. x 2 ea.
Front combination lights (turn signal/parking)	.....	12V - 23W/7W x 2 ea.
Rear combination lights (turn signal/parking/stop/tail)	.....	12V - 23W/7W x 2 ea.
Room Light	.....	12V - 8W x 1 ea.
OTHER EQUIPMENTS		
Horn	.....	LM - 110 (MARUKO), 1ea.
Rear View Mirror	.....	Round shape type
Windshield Wiper	.....	2-speed
Speedometer	.....	Magnet type (NIHON SEIKI)
Engine tachometer	.....	Ignition coil Impulse type (NIHON SEIKI)
Fuel Gage	.....	Bi-metal type (NIHON SEIKI)



2: STEERING SYSTEM

SUBARU 360 YOUNG S is provided with the leather covered steering wheel with two metal spokes.



The steering wheel diameter is 15.1 in. Disassembly and Reassembly are performed in the same manner as SUBARU 360 SEDAN. Refer to the section "4-3" (page 4-16) in the service manual (body section) for SUBARU 360 SEDAN.

3: CONTROL SYSTEM

The knob color of the gear shift lever for Young S is beige and its shape is the same as the SEDAN.

4: ELECTRICAL EQUIPMENT

4-1. COMBINATION METER ASSEMBLY



The combination meter for YOUNG S consists of the speedometer, tachometer, fuel gage, oil warning light, charge pilot light, left and right turn signal pilot lights and high beam pilot light.

Removal of the combination meter and bulb replacement are performed in the same manner as SEDAN.

Refer to Section 9-10-F (Page 9-20) in the service manual (body section) for SEDAN.

(NOTE)

The tachometer is adjusted by manufacturer under the condition installed to the housing. If it is defective, replace it with a new combination meter assembly.

4-2. HORN

YOUNG S is provided with a flat type horn.

The horn is attached to the right side bracket in the spare wheel compartment.

SPECIFICATIONS	
Model	MARUKO LM-110
Volume	108 db
Current	max. 5A at 13V

5: BODY COMPONENT PARTS

5-1. FRONT SEAT



The separate type seats are equipped on the YOUNG S.

Both seats can be respectively adjusted forward and backward.

There are four horizontal adjusting positions. Each interval is 0.8 in and total adjusting interval is 2.4 in.

The adjusting method is the same as SEDAN.

When the knob is pulled, the back rest can be folded forward.

(NOTE)

The back rest for YOUNG S can not be reclined backward.

Front seat is fixed to the side sill with two 6 x 20 mm bolts and to the floor tunnel with one 6 x 20 mm bolt and two 6 x 16 mm bolts.

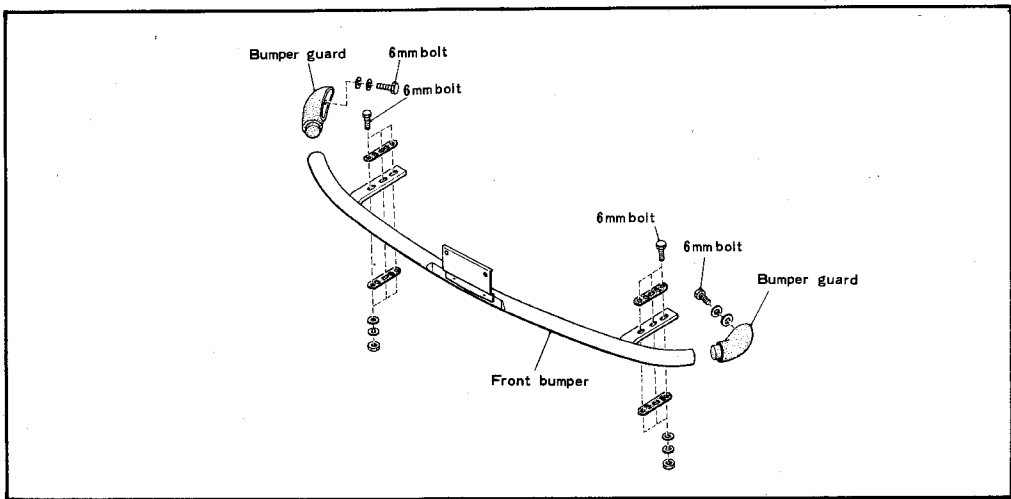
5-2. REAR SEAT

Design of the rear seat is changed but fixing method is the same as SEDAN.

5-3. FRONT AND REAR BUMPERS

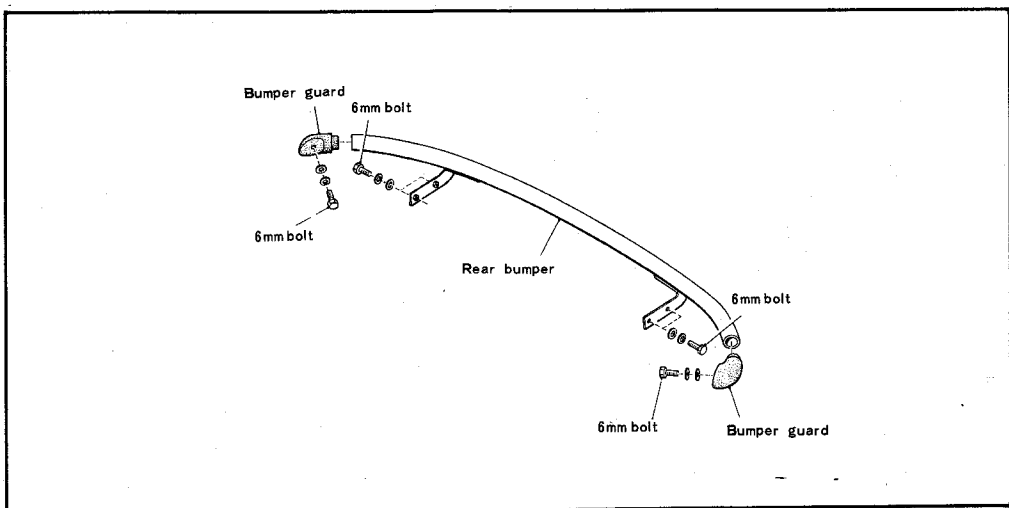
The pipe bumpers are equipped on YOUNG S.

A. Removing and reinstalling the front bumper.



- (1) Remove the two 6 mm bolts to detach the right and left bumper guards from the right and left front fenders.
- (2) Remove six 6 mm bolts. The front bumper can be detached from the body.
- (3) Reinstallation is performed in the reverse sequence of removal.

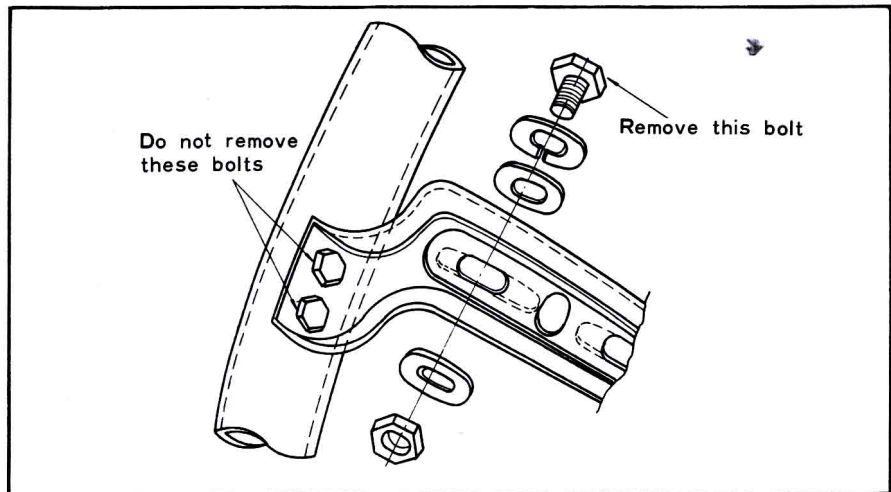
B. Removing and Reinstalling the rear bumper.



- (1) Remove the two 6 mm bolts to detach the right and left bumper guards from the right and left rear fenders.
- (2) Remove four 6 mm bolts. The rear bumper can be detached from the body.
- (3) Reinstallation is performed in the reverse sequence of removal.

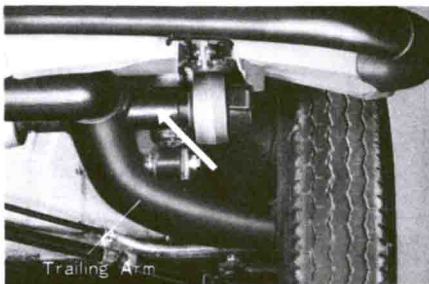
(NOTE)

- (1) Do not disconnect the stay and pipe for the front bumper. Otherwise, it may be impossible to connect them. Therefore, when removing the front bumper, remove the bolts which connect the bumper stay to the body.



- (2) When clashing the front bumper, it will be slid for safety. If the bumper is slid, loosen the 6 mm bolts and nuts and retighten them after correcting to the original position.

C. Towing the Vehicle

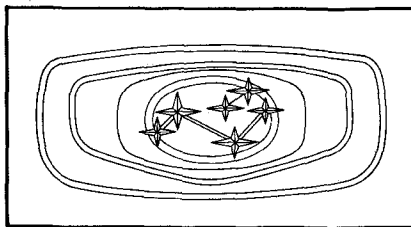


Tie the rope to the trailing arm as shown in the drawing and tow the vehicle.

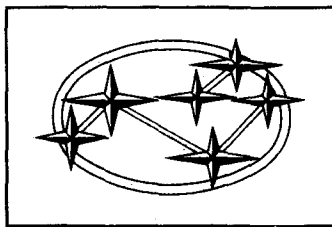
6: OTHERS

6-1. EXTERIOR

A. Top ornament



YOUNG S



SEDAN

B. Headlight cover

Only inside color is different from Sedan's.

YOUNG S : Black

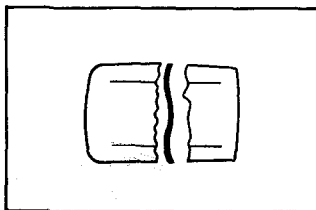
SEDAN : Ivory white

C. Fender mirror

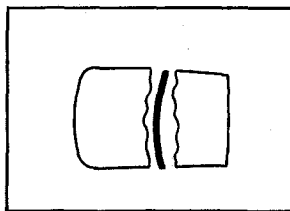
Design is different from Sedan's.

D. Roof

Shape is different from Sedan's.



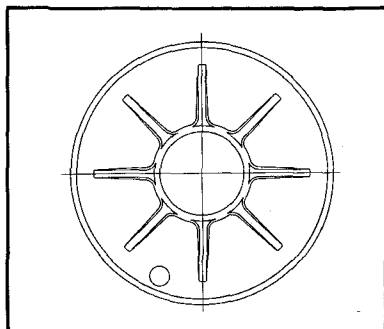
YOUNG S



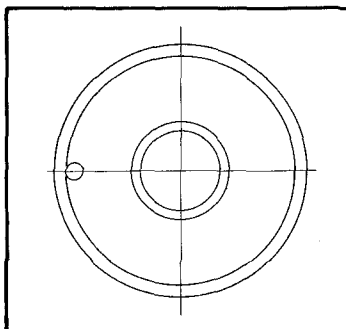
SEDAN

E. Wheel cap

Design is different from Sedan's.



YOUNG S



SEDAN

- F. Air intake ornament

Size is larger than SEDAN's and is painted in black color.

- G. Door window molding

Eliminated.

- H. Body color

SOA Yellow and Cherry Red

- I. Rear Mark



6-2. INTERIOR

- A. Interior Color

Black

- B. Floor Mat

Vinyl mat with tweedy pattern in black and red.

- C. Door Pocket

Driver side only.

- D. Sun Visor

Driver side only.

