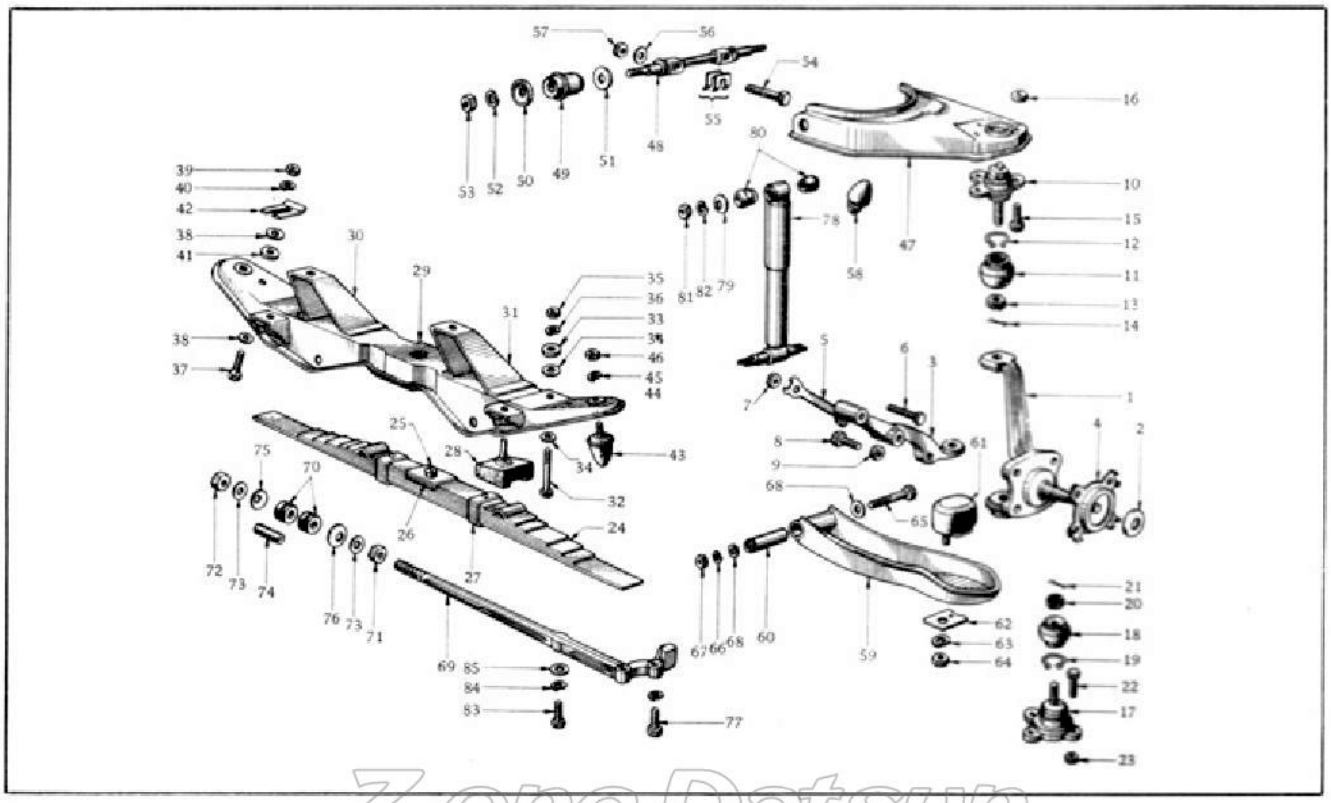
SERVICE MANUAL

CHASSIS

MODEL B10 SERIES

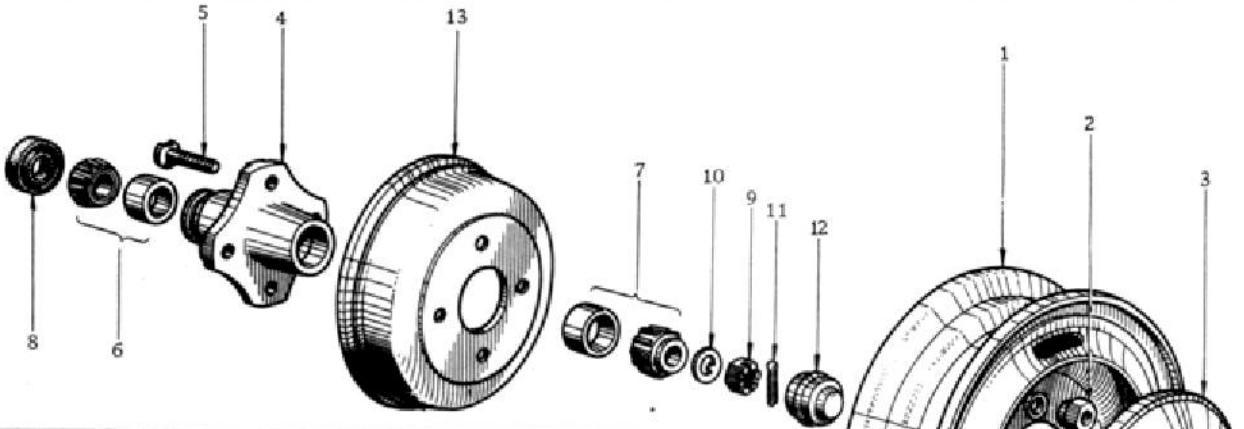
NISSAN MOTOR CO., LTD.

FRONT AXLE



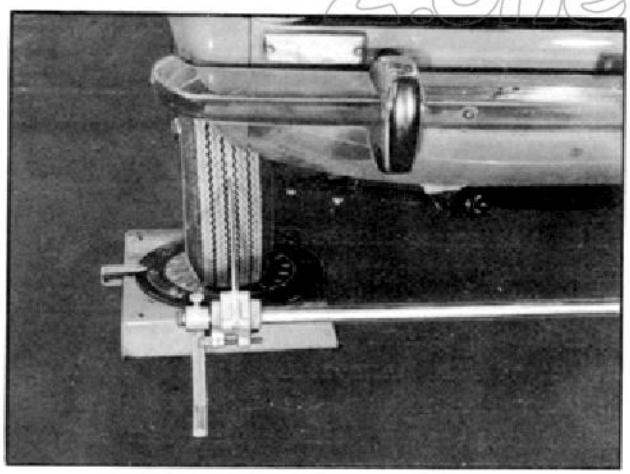
Front Axle & Suspension

1	Ass'y-spindle, knuckle	28	Seat-pivot, front, spring	57	Nut
2	Collar-front spindle	29	Ass'y-member, front suspension member	58	Bumper-rebound
3	Arm-knuckle	30	Bracket-engine mounting front (R.H)	59	Ass'y-link, lower, front suspension
4	Catcher-grease front	31	Bracket-engine mounting front (L.H)	60	Bushing-rubber, lower link
5	Plate-lock, knuckle arm	32	Bolt-mounting suspension member	61	Support-rubber, front spring
6	Bolt	33	Washer-mounting bolt	62	Spacer-support, front spring
7	Nut	34	Shim-mounting	63	Washer-lock
8	Bolt-steering stopper	35	Washer-lock	64	Nut
9	Nut	36	Nut	65	Pin-lower link
10	Ass'y-joint, ball upper, front suspension	37	Bolt	66	Washer-lock
11	Cover-dust upper	38	Washer-plain	67	Nut
12	Clamp-dust cover	39	Nut	68	Washer-plain
13	Nut	40	Washer-lock	69	Rod-tension
14	Pin-cotter	41	Washer	70	Bushing-tension rod
15	Bolt	42	Shim-mounting	71	Nut-self lock
16	Nut	43	Bumper-bound	72	Nut
17	Ass'y-joint, lower ball, front suspension	44	Washer	73	Washer-plain
18	Cover-dust, lower ball joint, inner	45	Washer-lock	74	Collar-tension rod
19	Clamp-dust cover	46	Nut	75	Washer-special, tension rod
20	Nut	47	Comp.-link, upper, front suspension	76	Washer-special, tension rod
21	Pin-cotter	48	Spindle-upper link	77	Bolt
22	Bolt	49	Bushing-rubber, upper link	78	Shock-absorber, front
23	Nut	50	Washer-upper link outer	79	Washer
24	Ass'y-spring, front suspension	51	Washer-upper link inner	80	Bushing-rubber
25	Bolt-center	52	Washer-lock	81	Nut
26	Seat	53	Nut	82	Washer-lock
27	Clip	54	Bolt-spindle, upper link	83	Bolt
		55	Shim-camber	84	Washer-lock
		56	Washer-tooth lock	85	Washer-plain



1	Ass'y-wheel, road	7	Ass'y-bearing, front road wheel outer
2	Nut-road wheel	8	Seal-grease, front hub
3	Cap-road wheel	9	Nut-front wheel bearing
4	Ass'y-hub, front road wheel	10	Washer-front wheel bearing
5	Bolt-hub, road wheel	11	Pin-cotter
6	Ass'y-bearing, front road wheel inner	12	Cap-hub, front
		13	Drum-brake

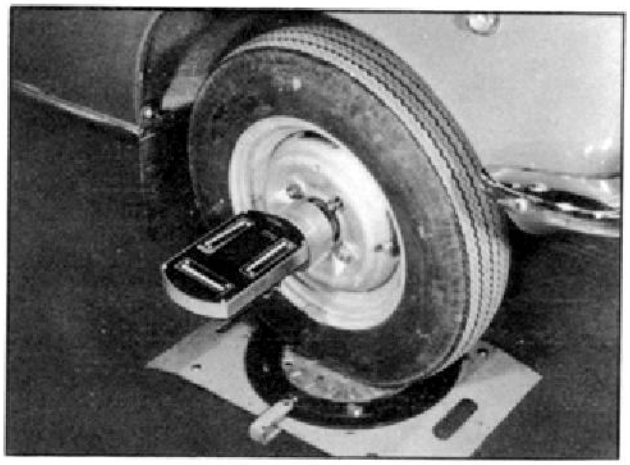
Road Wheel & Hub



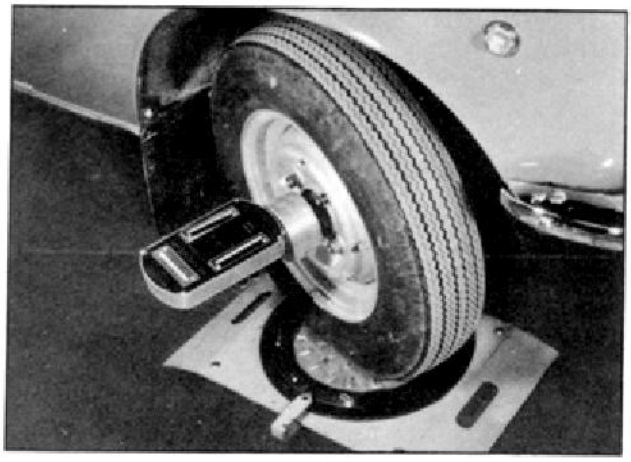
Toe-in

Front Wheel Alignment Data

Toe-in	2 ∿ 3 mm
Camber	1°45'
Caster	2°15'
King pin angle	6°30'
Side slip	Less than 3 mm with each running distance 1 mm
Turning angle (Inside)	45°
(Outside)	36°36'
Rotation torque front hub (Motive)	Less than 9 kg-cm
Clearance of front hub to direction along the shaft	Less than 0.08 mm
Clearance of ball joint to direction along the shaft	Less than 0.9 mm



Camber



Caster

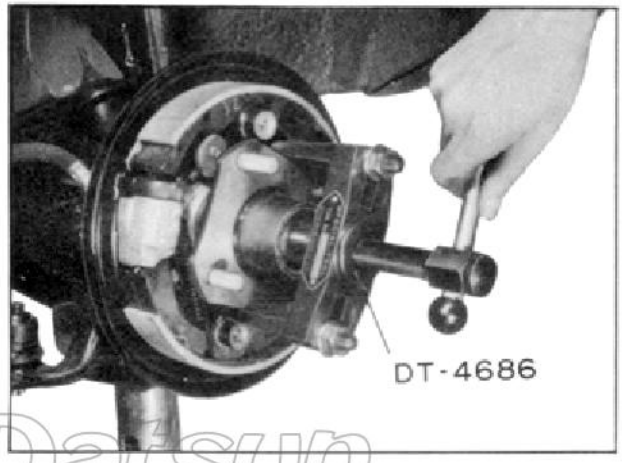
DISMANTLING THE FRONT HUB

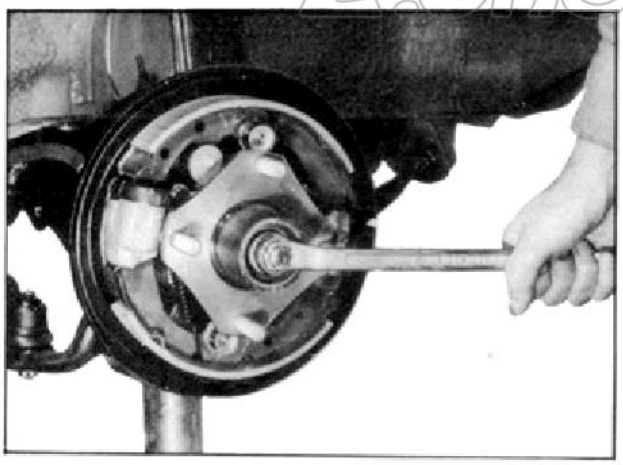
To dismantle the front hub, first jack up the car until the wheel is clear of the ground and then place a stand under the side member.

Jack down the car on the stand.

Remove the wheel. If the drum appears to hold on the brake shoes, the shoe adjusters should be slackened. Take off the hub cap by a lever, and then extract the split pin from the spindle nut.

Using a box spanner, remove the spindle nut and the flat washer under it, extract the road wheel hub with the bearing from the knuckle spindle by the puller as shown the figure.



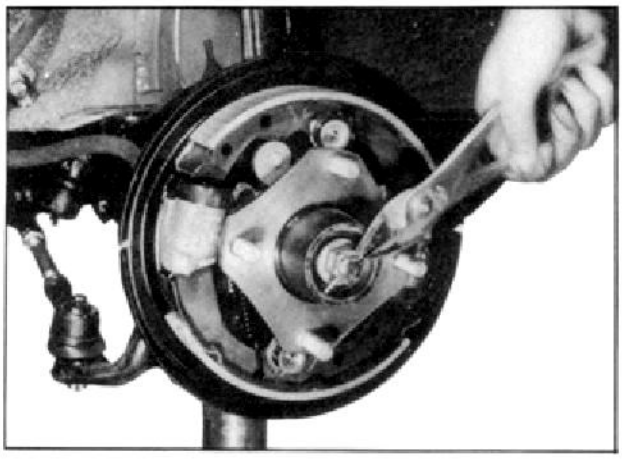


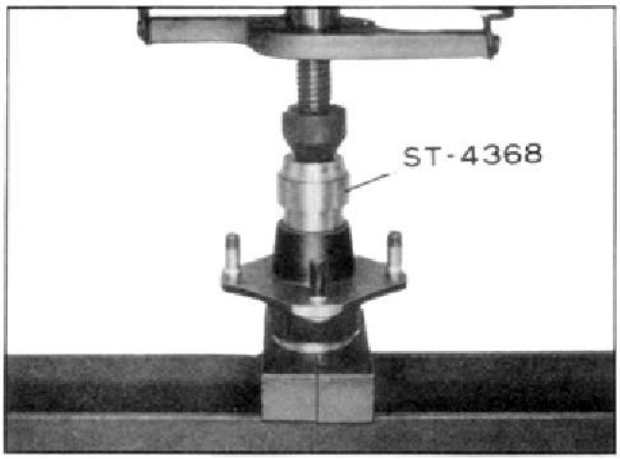
After the hub removed, the bearings can be dismantled. The inner bearing and oil seal can then be removed by inserting the drift from the opposite side of the hub.

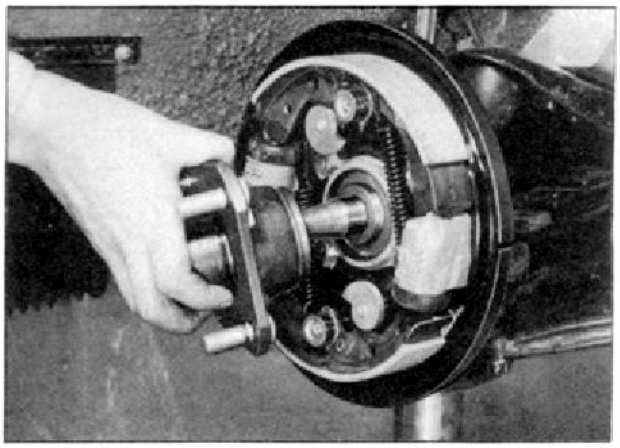
Assembling the Wheel Hub

When assembling the inner bearing corn to the hub smear sufficiently the grease to the inner face of wheel hub.

Assemble the wheel bearing to the wheel hub as shown the figure.







Pack the hub with recommended grease. Replace the hub oil seal over the inner bearing. Renew the seal if it is damaged.

Adjusting for Pre-load of Wheel Bearings

Tightening torque of spindle nut
1.6 ~ 1.8 kg-m (in the case of lubricated on the face of screw and washer somewhat)
2.3 ~ 2.5 kg-m (without any lubrication)

Rotating the wheel hub several times for setting smoothly, and then again tight the nut with the aforesaid torque.

Torque for rotation of beginning
25 ~ 30 kg-cm

Fit the pin hole with the spindle nut within 40° ~ 70° degree turning back around the nut.

Again rotating the wheel hub, make sure as to beginning torque for rotation and end play for horizontal way along the spindle.

a) Torque of beginning for rotation

Less than 9 kg-cm

b) End play for horizontal way along the spindle

Under 0.08 mm

Lock the spindle nut by the new cotter pin and lock washer after final adjustment for pre-load.

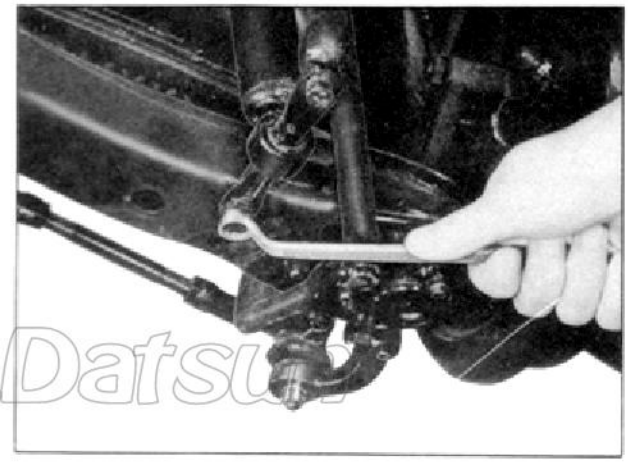
FRONT SPRING

Removal

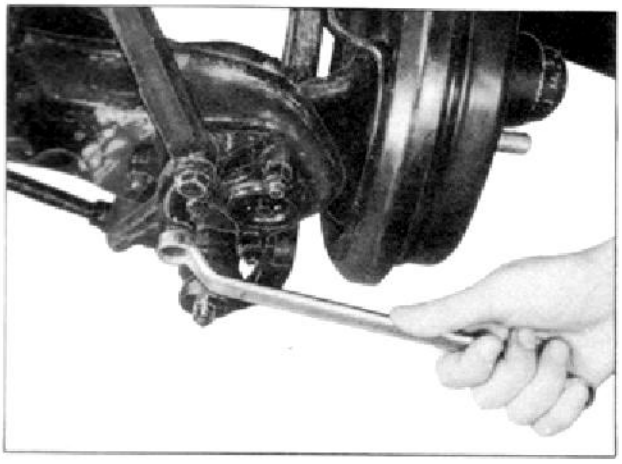
Take out the wheel cap and loose slightly the wheel nut.

Jack up the front suspension member and set on the stands with the side member.

Remove the wheels and attached bolts (2) at the lower side of front shock absorber.

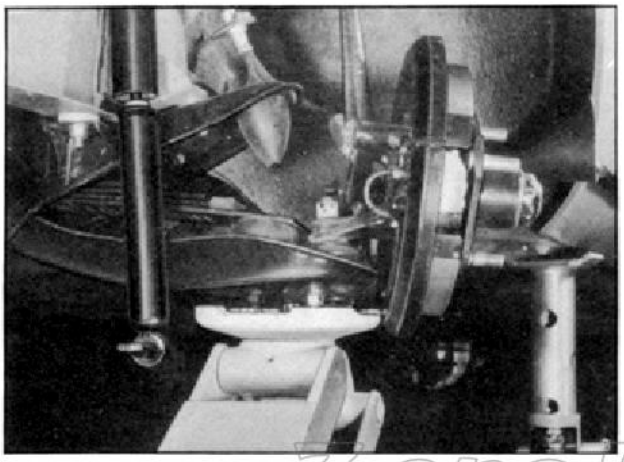


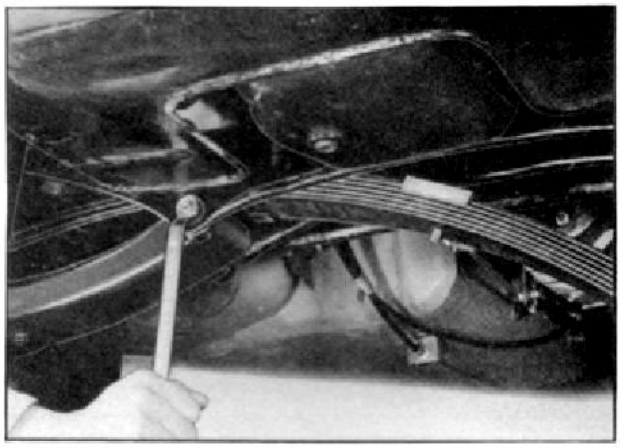
Screw out the bolts (2) at the side of lower link on the tension rod.



Screw out the attached nut at a front side of tension rod (Leave alone other side nut).

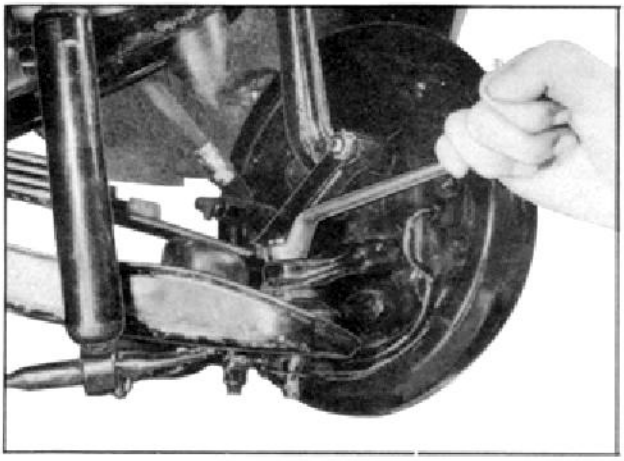
Jack up the end of lower link on the side of removed tension rod.

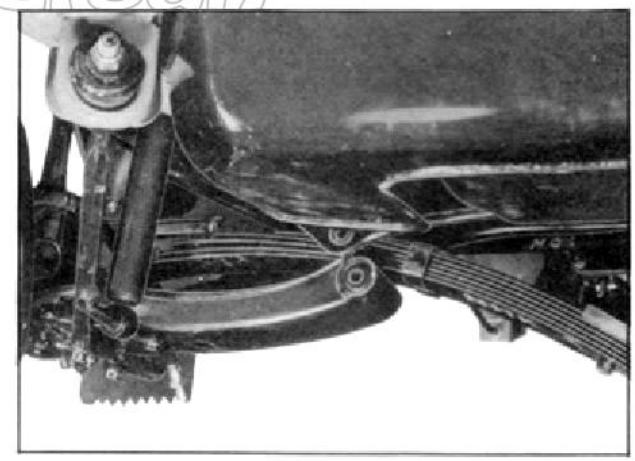




Remove the nut of lower ball joint after pulling out the cotter pin.

Remove the jack at the end of lower link, then take off the lower link pin.





Supporting the front spring, remove the lower link pin at the unscrewed side of tension rod.

Inspect upon weakness, crack and faults etc.

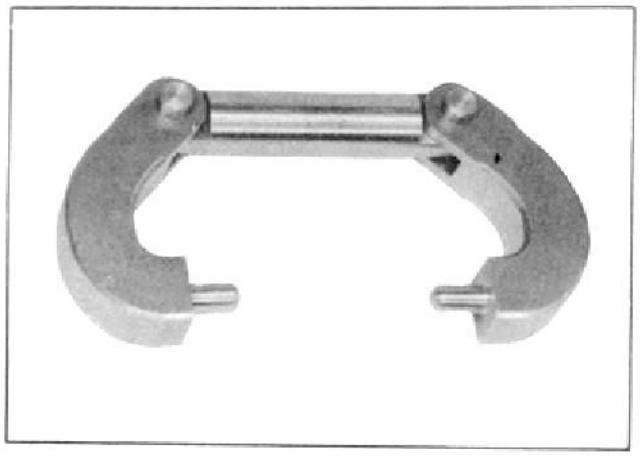
Free camber	120 mm

Fixing the Front Spring

Fitting the spring to the lower link at remained side without removing and set it temporarily.

To fix the spring correctly for the pivot seat so as to fit the center pin for the center hole of suspension member.

Jack up the end of spring at the tension rod (removed side) and fix it temporarily by the special tool (ST-4369 Front Spring Clamp).



Lower the jack and fix the pin of lower link temporarily.

Tightening torque	kg-m
Lower ball joint	5.5 ~ 7.6
Lower link pin	4.2 ~ 5.3
Tension rod (Front side)	4.2 ~ 4.5
(Rear side)	4.2 ~ 5.3

Connect the lower ball joint to swivel axle and then attach the wheels.

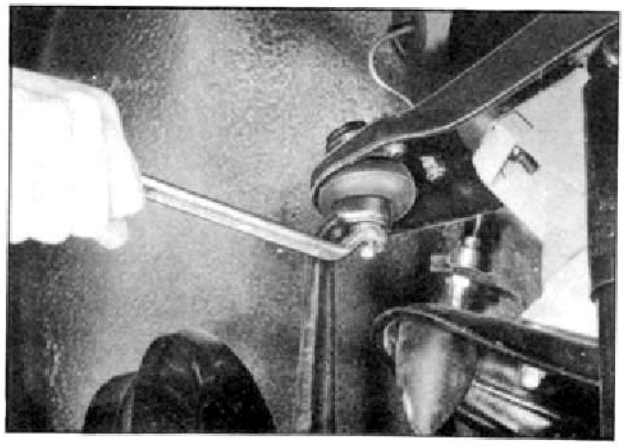
Tighting up the lower link pin and wheel nut correctly.

UPPER LINK

Removal

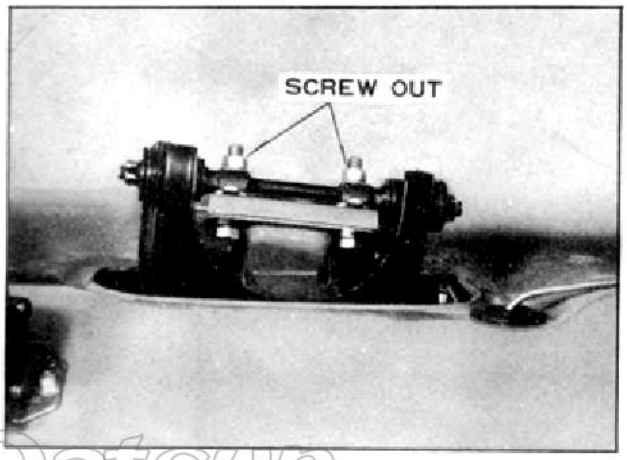
Jack up the front of car and hold on the stand by side cross member.

Remove the fixing nut at the upper of swivel axle.



Remove screen of the hood ledge and then unscrew the bolt of upper link spindle.

Fixing of the upper link is a reversal for removement of it.



Tightening torque	kg-m
Upper ball joint	3.5 ~ 4.9
Fixing nut of upper link spindle	4.2 ~ 5.3

LOWER LINK

Disassembling

a) Jack up the front of car and keep the side cross member on the stands.

b) Take out the lower fixing nuts of front shock absorbers.

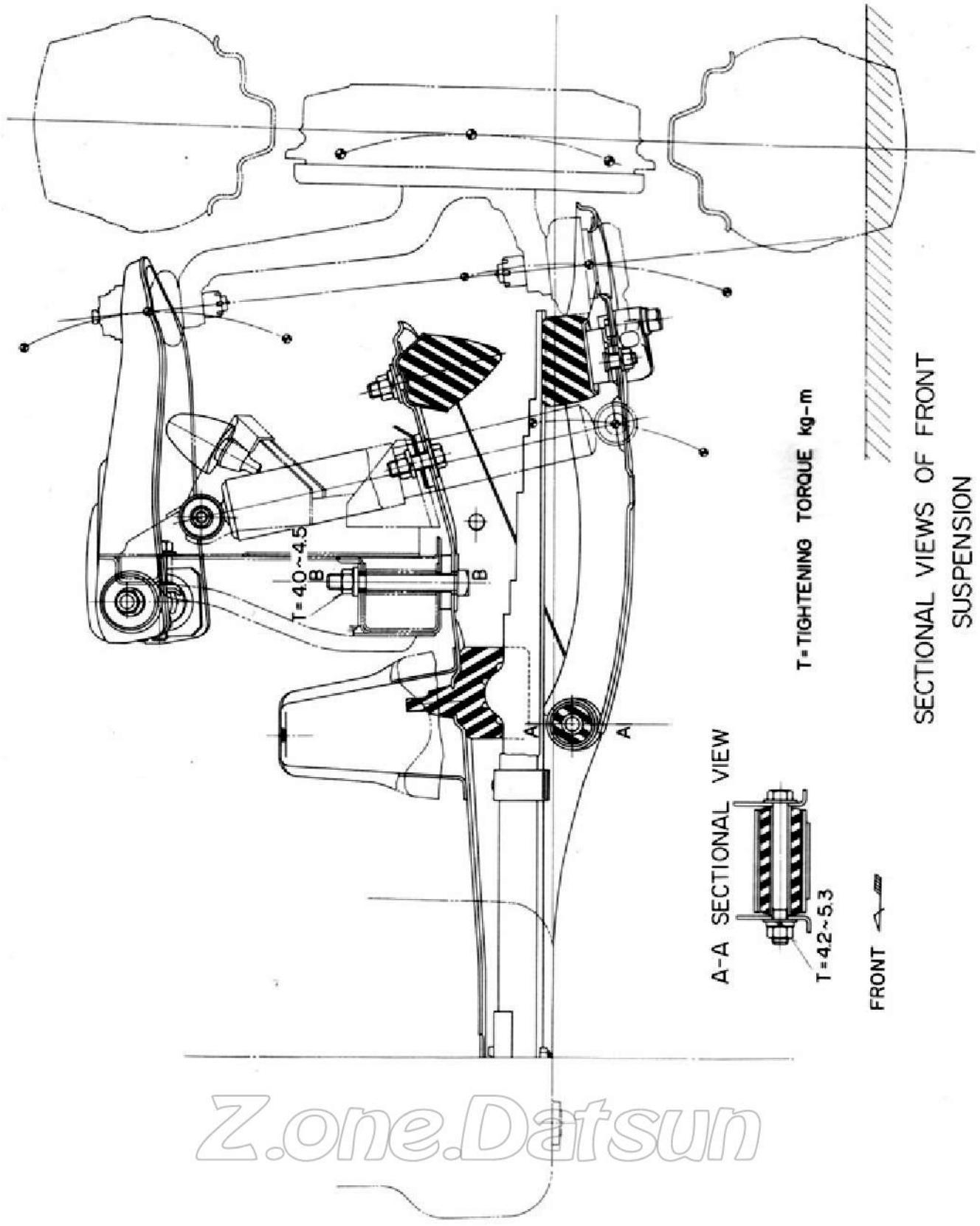
c) Dismount the tension rod.

d) Screw out the fixing nut of swivel axle and then pull out the pin of lower link.

Assembling

Order of assembling is a reversal of disassembling.

Tightening torque	kg-m
Lower ball joint	5.5 ~ 7.6
Lower link pin	4.2 ~ 5.3



SECTIONAL VIEWS OF FRONT SUSPENSION