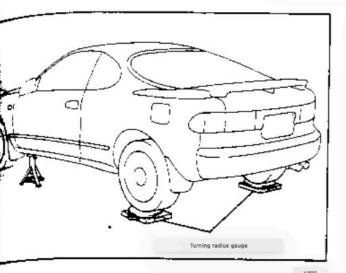
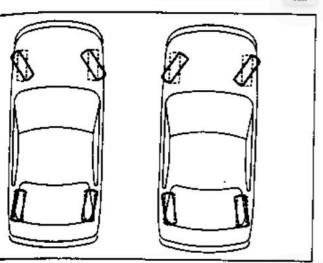
Rear steering (4WS) Supplies

25 Spg				······································
SST		09201-70010	Valve guide bush remover Andlib racer	Rear steering angle ratio converter Detachable and wear
	9°°	09612-10093	Steering gas housing Overhaul tool set	
		09612-10022 Hexagon wrench		Pivot bearing rear bearing cap removal For
		Steering Binion Bearlin 09617-10010 Guajusting Screw Lock nut wrench		Pivot pairing rear bearing cap mouth Cuck nut detachable Return rack ASSY for disassembly, disassembly and assembly
		09628-10020	Ball joint lock nut A wrench	Liver ratio control worm lock knuck To detach and wear
		09612-24014	Steering gas housing Overhaul tool set	
		09616-10010	Steering binion bearing adjusting socket	Gabion Pre-Road Avoidance
		09617-22030	Steering rack end len Chi	Detachable lock nut for return rack guide
		09617-22040	Steering binion bearing adjusting screw Lock nut wrench	Detachable lock nut for return rack Relay rod cap detachable
		09617-24011 Steering rack wrench		Rack end detachable
	4	09616-30011	Steering warm bearing adjusting screw A wrench	Gapinion ASSY detachable For gear pinion pre-road adjustment
		09617-14010	Steering rack end len Chi	Rack end detachable
	2	Worm bearing adjust 09617-22010 Ing Screw Lock Nut		Detach the lock nut for the relay rod cap
		09628-62011 Ball joint blur		For removing the ball joint part

ye terminal and the second and the s		
	Detent ball plug socket	Wearing head cap bolts
	Power steering gahousing overhaul tool set	
	09631-00131 Pane pump bracket	Rear steering gear link for ASSY holding
	09660-14010 Adjust Nut Wrench	Liver Ratio Control Warm Adjuster Detach the lock nut for T
	09660-14020 Warm gallench	Liver ratio control worm detachable Lever ratio control warm pre-load measurement Regular use
	09660-14030 4WS centre lock bolt	Rear steering gear link ASSY centring
	09660-14040 Lock nut wrench	Detachable lock nut for Gappinion
WINTER STATE OF THE PARTY OF TH	. 09904-00010 Expander set	Snap ring detachable
	09905-00013 Snap ring pliers	Snap ring detachable
	09950-20017 Universal Blur	
	09952-36010 Screw	
	09953-35011 Rokuro	
(B)	09954-20011 Adjust screw	For return rack ASSY assembly
	09955-20012 Proba	
	09956-20011 Titing beas	

Soapy water

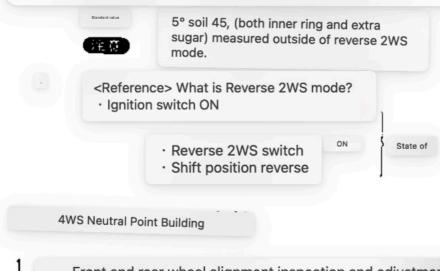




Basic inspection

Rear wheel cut angle inspection

- '1 Front wheel cut angle inspection (Refer to 56-5)
- 2 Rear wheel break point (inverse phase MAX)
- (1) Jack up the front side of the vehicle.
- 121 Set the rear tire to the turning radius gauge and pull the Barkinda brake lever.
- 131 Measure the cutting angle of the rear wheel when the steering wheel is fully cut from the straight state to the left and right."

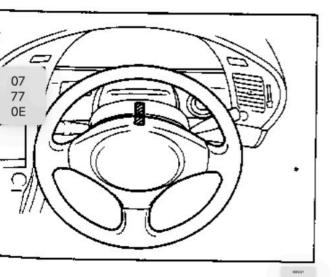


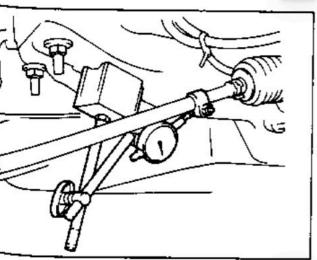
Front and rear wheel alignment inspection and adjustment

(Refer to P6-3)

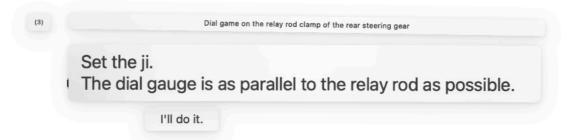
2 Direct steering advance

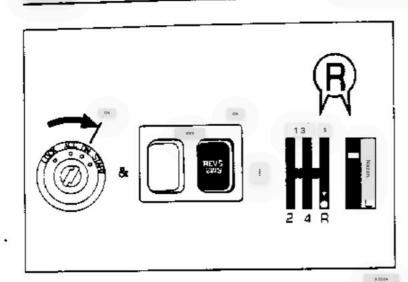
(1) Push the exclusive surface straight for 5 metres and move forward.

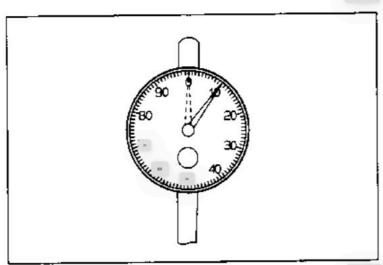


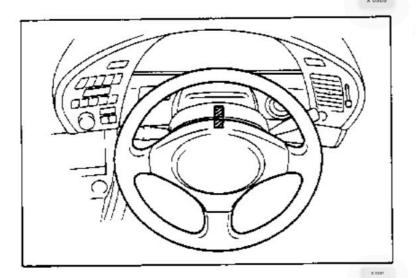


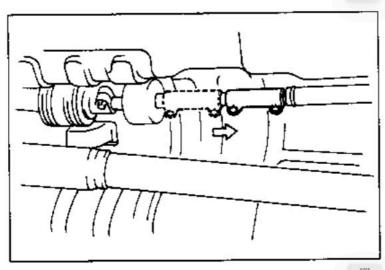
- 12) Match the steering wheel and column cover with a table, etc. Make a mark.
- 3Riya ASSY Centre Inspection
 - (1) Jack up the rear side of the vehicle
 - (2) Match the matching mark of the steering wheel and the column cover Ru.

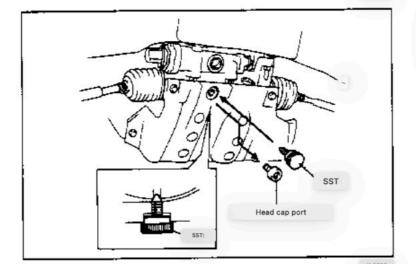












14) Set to reverse 2WS mode.

What is Reverse 2WS Mode?

• Ignition switch ON
• Reverse 2WS Switch ON

• Shift position reverse

Confirm that the instruction of the 151 dial gauge is within the reference value.

Standard value
If it is outside the standard value, 4WS neutral conditioning will
be performed.

4WS neutral adjustment

- 1 Direct steering advance
- (1) Push the vehicle straight for 5 metres and move forward.
- 12) Match the steering wheel and column cover with tape, etc. Make a mark.
- (3) Jack up the rear side of the vehicle.
- 14) Match the matching mark of the steering wheel and the column cover Ru.

2 Detach the connecting shaft

- 11) Loosen the bolt of the sleeve of the connecting shaft.
- 12) Slide the sleeve forward to the vehicle.

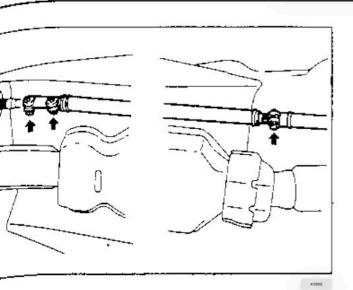
- 3 Rear steering gear centre fixed
- (1) Using SST, from the rear steering gear to the head cap

Remove the rut.

121 Install SST on the rear steering gear, rear steering* Fix Ya at the centre.

SST

09660-14030



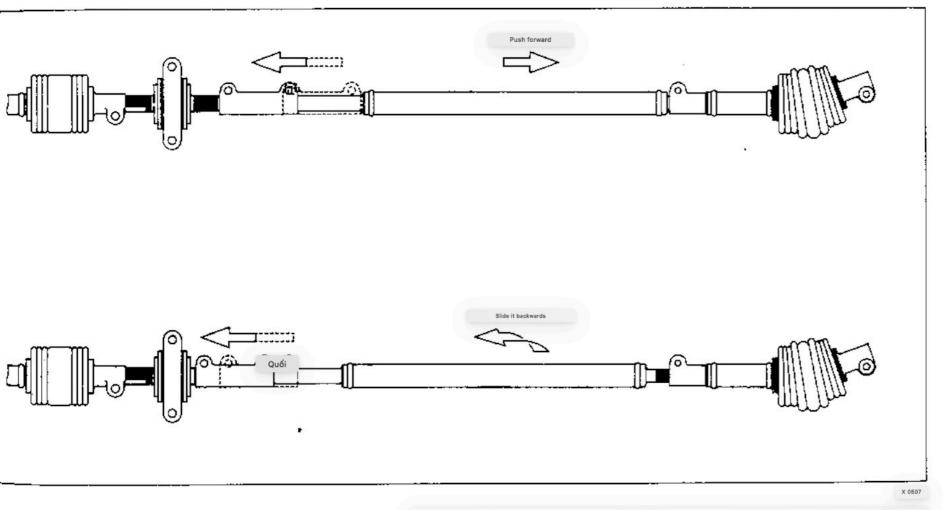
4 4WS neutral adjustment

(1) Screw routeing clamps of connecting shafts and

Loosen the sleep bolt,

12) Press the connecting shaft forward once and lightly press the sleep backward.

131 While sliding the connecting shaft backwards, slide the sleeve backwards when the sleep and connecting shaft pairing match, and connect with the connecting shaft bearing I can do it.



(41 connecting shaft screw serration clamp and

Tighten the sleep bolt. T = 360 kg-cmSST removal

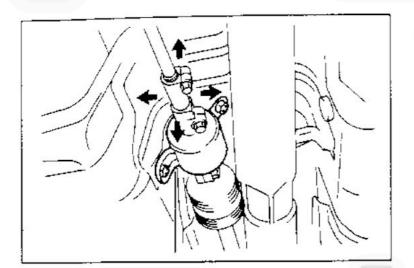
> Remove the SST from the rear steering gear link ASSY, SST Use to install the head cap bolt.

S ST T=130 kg •cm 09660-14030

Be sure to remove the SST because it will cause a breakdown.

ral inspection

6



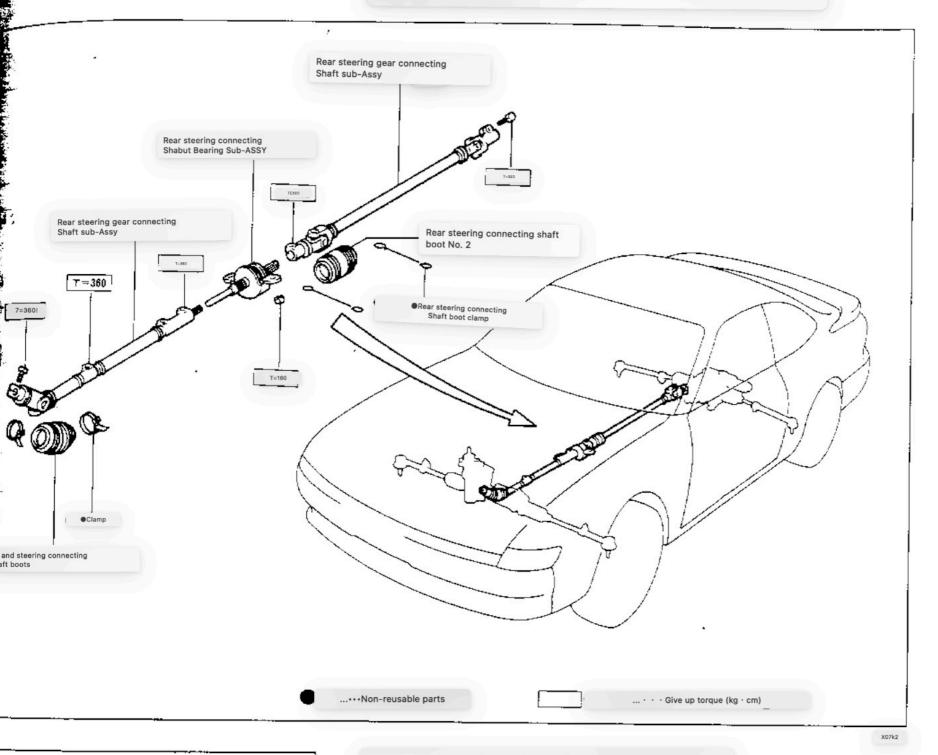
Rear steering connecting shaft

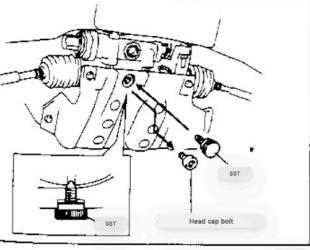
Bearing point!!

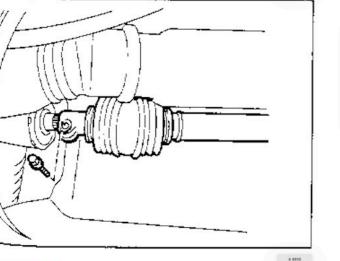
(11 When you have a pairing of connecting shafts and prohibit the top and bottom, make sure that there is no rattling.

12: When the steering wheel is rotated, make sure that it does not go of the bearing.

Connecting shaft ASSY Detachable decomposition composition diagram







Connecting shaft removal

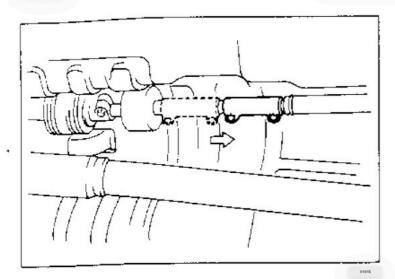
1 Rear steering gear centre fixed
11) Put the steering wheel straight forward.
Use 121 5ST to remove the head cap bolt from the rear steering gear.

S ST 09313-30021

- Install the SST on the rear steering gear and fix the rear steering gear at the centre.

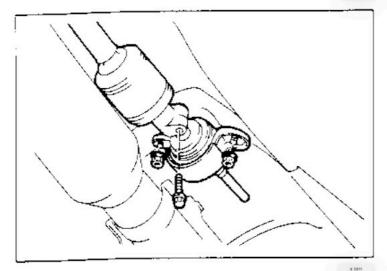
 SST 09660-14030
- * Do not turn the steering wheel with SST attached. 2 Rear steering gear connecting shaft removal (11 Take the bolt of the clamp at the junction with the front steering gear

I'll take it off.



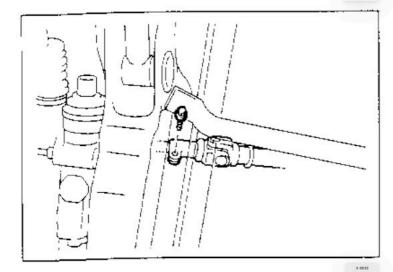
2: Loosen the two ports of the sleeve, slide the sleep to both fronts, and temporarily tighten the bolts.

: 3: Slide the connecting shaft and remove it.



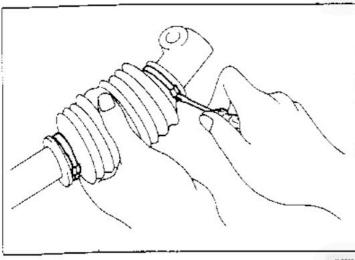
3 Rear steering connecting shaft bearing should be removed

11) Remove the bolt of the clamp of the connecting shaft No. 2 12) Remove 2 nuts and remove the bearing.



4 Rear steering gear connecting shaft No. 2 removal 11) Remove the bolt of the clamp of the coupling with the rear steering gear

12) Remove the connecting shaft No. 2.

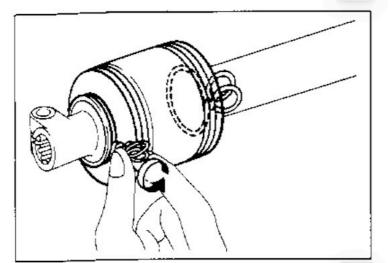


Connecting shaft disassembly

1 Rear steering connecting shaft boot removal

(11 Remove 2 boot clamps.

12: Remove the boots from the connecting shaft.

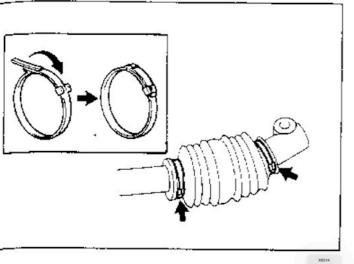


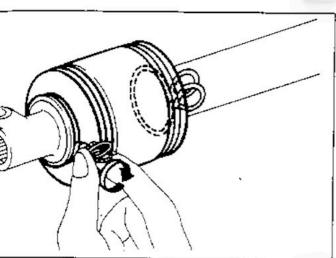
2 Rear steering connecting shaft boots No. 2 should be taken

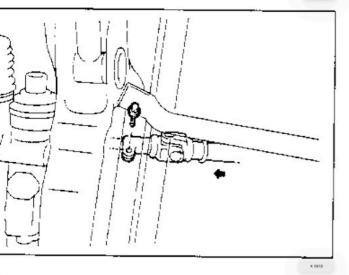
Death birth

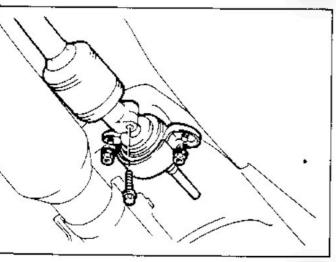
(1) Remove 2 boot clamps.

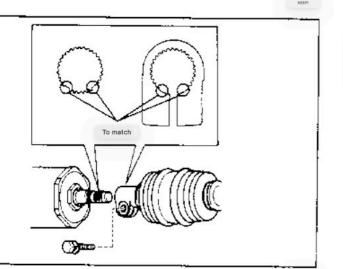
12) Remove the boots from the connecting shaft No. 2.











Connecting shaft assembly

1 Rear steering connecting shaft boot installation 111 Attach the boots to the connecting shaft.

Attach two new clamps to the boots.

Fold the clamp and bend the two claws to clamp the clamp.

(A 4)

Don't hurt the boots.

2 Rear steering connecting shaft boots No. 2 installation (1) Attach the boots to the connecting shaft No. 2.

Wrap the new clamp around the goats twice, twist the tip of the clamp and fix it.

Connecting shaft installation

1 Rear steering gear connecting shaft No. 2 installation (1) Insert the connecting shaft No. 2 into the rear steering gear,

Tighten the clamp. $T = 360 \text{kg} \cdot \text{cm}$

Rear steering connecting shaft bearing installation

Insert the bearing shaft into the connecting shaft No. 2. Install it with 2 nuts.

T = 160kg •cm

Tighten the clamp of the connecting shaft No. 2. T = 360kg-cm

3 Rear steering gear connecting shaft installation
(1) Install the serration of the front steering gear and the serration of the connecting shaft as shown in the figure

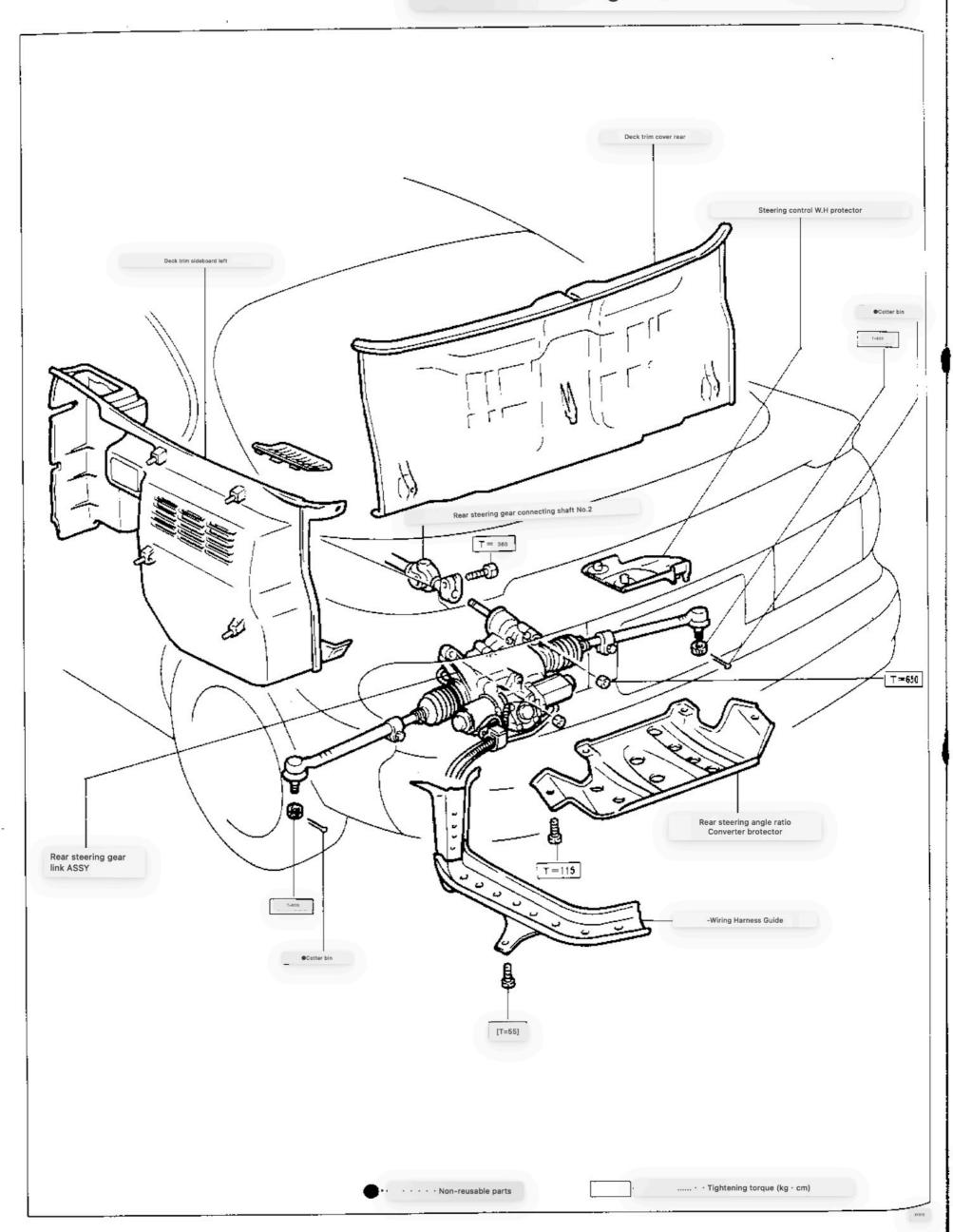
Tighten the clamp on the front side.

T = 360kg •cm

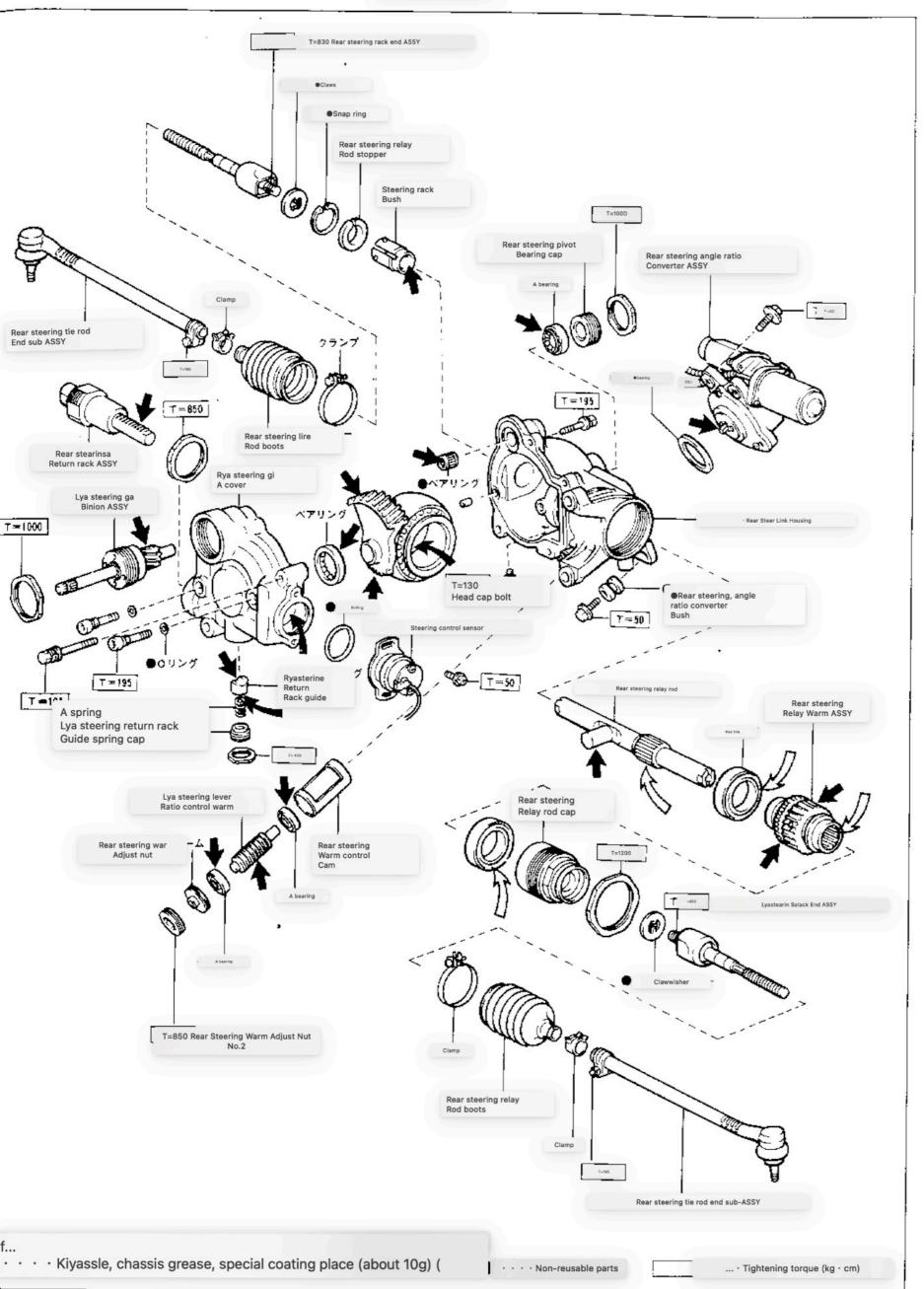
4WS neutral adjustment

(Refer to P8-108)

Rear steering gear link ASSY Detachable configuration

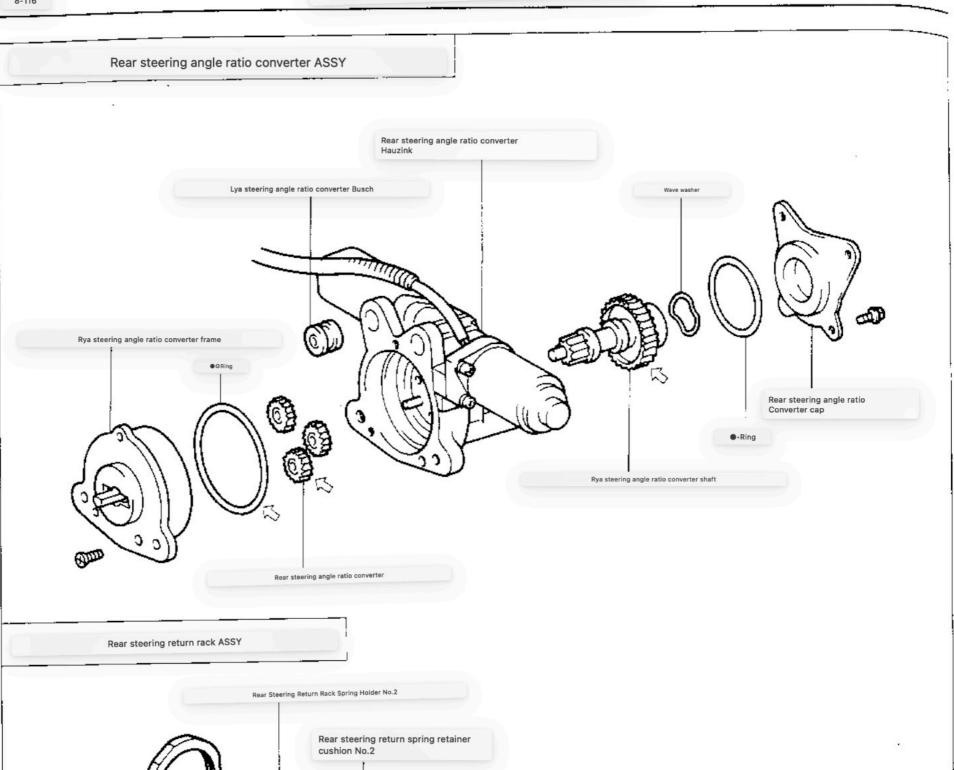


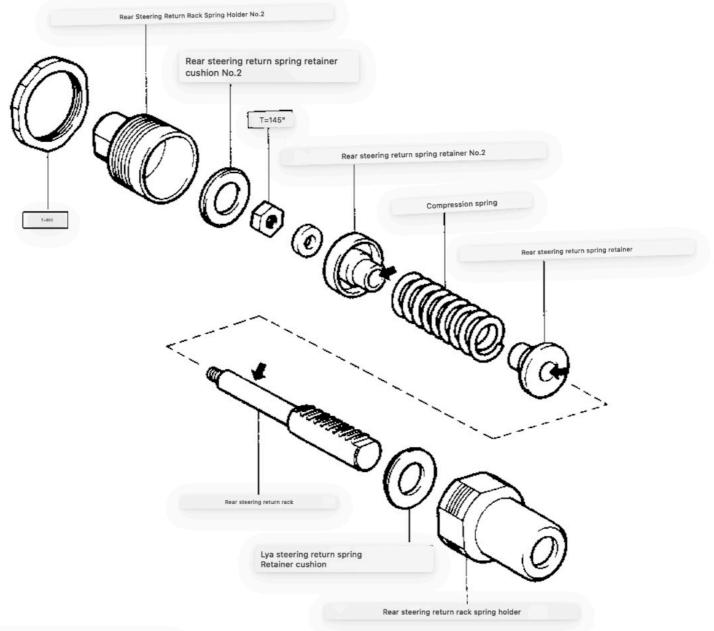
Depositioned composition diagram



个:

 $\leftarrow \cdot \cdot \cdot \cdot \cdot$ Castle Clutch Release Hub Grease Application Location

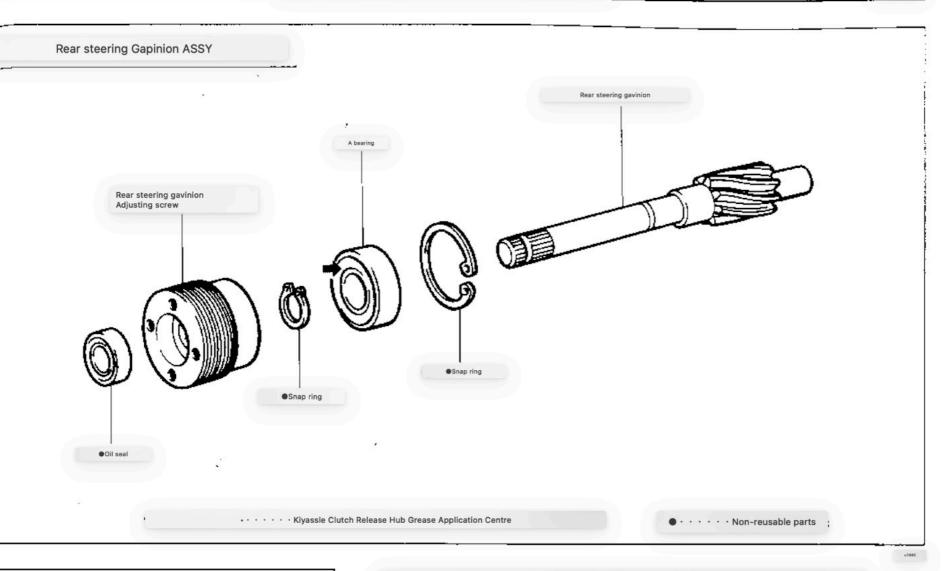


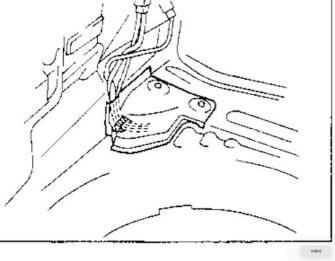


· · · Non-reuseable parts

*OB16 X0984

"...Drawing torque (kg · cm)

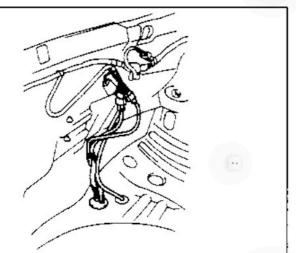




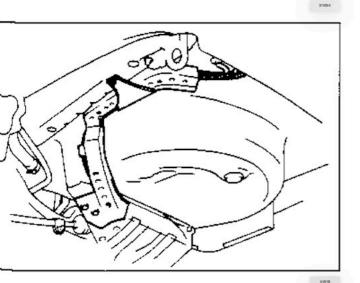
Rear steering gear link ASSY removal

1 Deck trim cover rear removal (Refer to P10-88) 2 Deck trim sideboard left removal (Refer to P10-88)

3 Remove the steering control W/H protector



4 Disconnect the connecter
111 Detach the connecters of the main motor, backup
motor, and steering control sensor, remove the floor
grommet and push the harness out of the car.

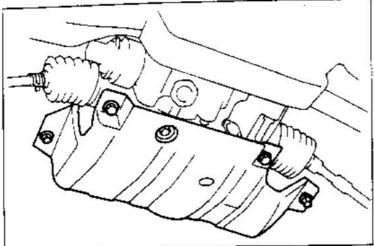


5 Remove the wiring harness guide

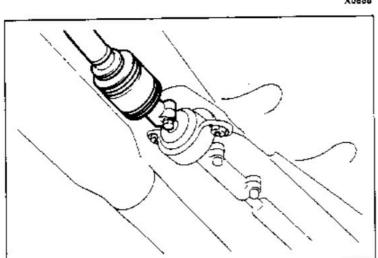
(2)

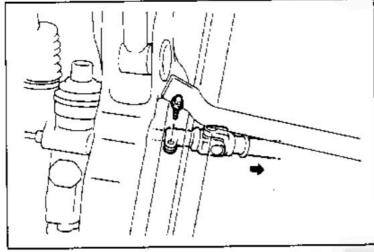
Remove 3 bolts and remove the wiring harness guide.

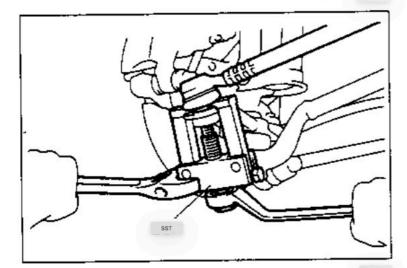
Remove 4 wire harness clamps of the rear steering gear ASSY.



X0888







Lya steering angle ratio converter protector

Take it off (Take off 4 11 volts and remove the protector. 7 Rear steering gear centre fixed (Refer to P8-108)

<Reference> When disassembling and replacing the rear steering gear ASSY

8 Rear steering gear connecting shaft No. 2 detached : 1: Clamp bolt on the front side of connecting shaft No. 21

Remove the book.

12: Take the clamp bolt on the rear side of the connecting shaft 2o.2

Take it off.

31 connecting shaft No. Slide 2 to the front of the vehicle and remove the relationship with the rear steering ga.

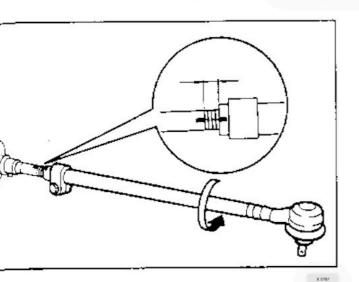
9 Rear steering gear link ASSY removal Remove the cotter bin of the 111 tie rod end and castle nut · Remove it.

Use 121SST to separate the die rod end and knuckle.

09628-62011

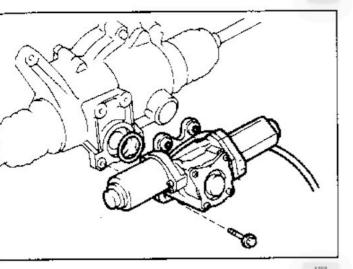
Remove 4 131 nuts and take off the rear steering gear link ASSY

I'll take it off.



Rear steering gear link ASSY disassembly

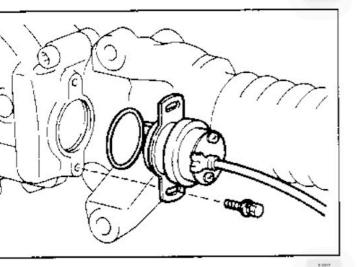
- 1 Rear steering relay rod removal
- 11) Mark the relay rod and tie rod end.
 - (2
 - (3) Loosen the clamp and remove the relay rod.



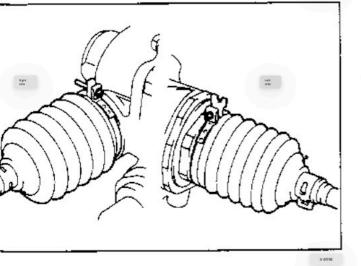
2 Rear steering angle ratio converter ASSY should be taken

h birth

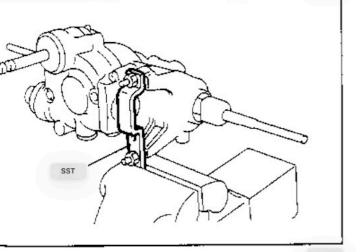
Remove 4 bolts and remove the converter ASSY. Remove the sealing.



3 Remove the steering control sensor (1) Remove 2 Portos and remove the sensor. Remove the 1210 ring.



4 Rear steering relay rod boot removal (1) Loosen the two clamps and remove the boots.



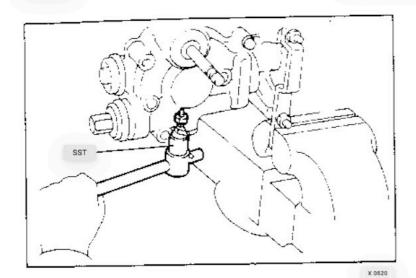
Steering gear fixed

Use SST to fix the steering gear to the vice.

SST 〈# 考〉

09631-00131

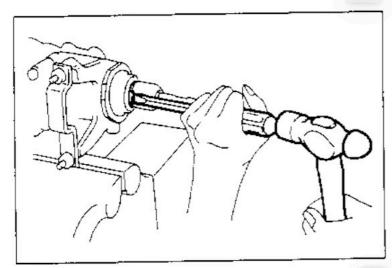
SST should be at the left end of the vice.



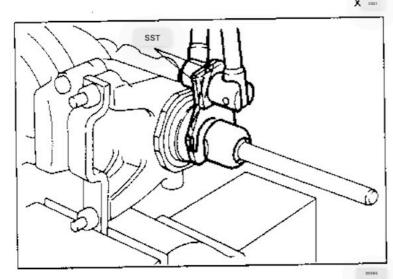
6 Remove the head cap bolt 11) Use SST to remove the head cap bolt.

5ST

09313-30021



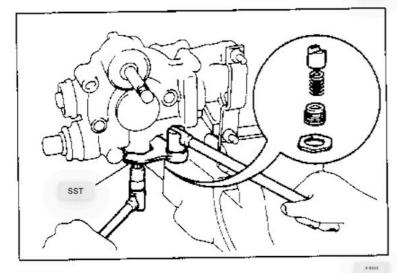
7 Rear steering rack end removal : 1: Untie the claw washer's sash



Remove the rack end using 121 SST.

SST 09617-14010 09617-24011

Remove the 131 claw washer.

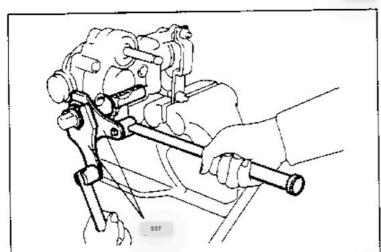


8 Rear steering return rack guide removal
1) Use SST and hexagon wrench (14mm) to remove the lock nut.

SST

Use a hexagon wrench (14mm) to use a spring cap

Remove the sushi, spring and rack guide.

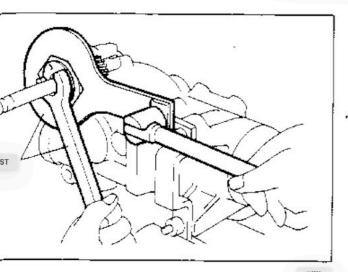


Rear steering return rack ASSY removal(1) Use SST to remove the lock nut.

SST Use SST to remove the return rack ASSY.

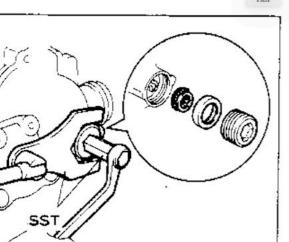
SST

09617-10010



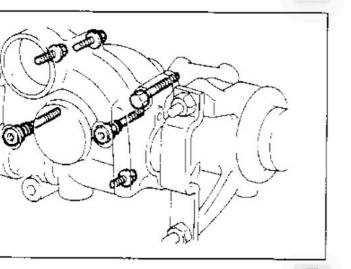


09616-30011



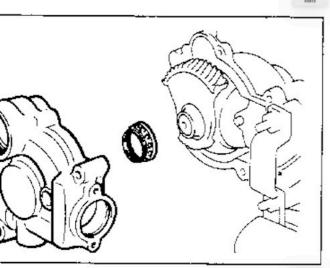
Use SST to remove the lock nut.

SST
Use SST to remove the bearing cap and remove the rear bearing.
SST 09612-10022
¥Don't drop the bearing.



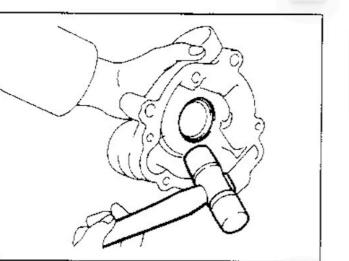
12 Remove the rear steering gear cover

11) Use a hexagon wrench (8mm) to remove 2 hexagon bolts. 121



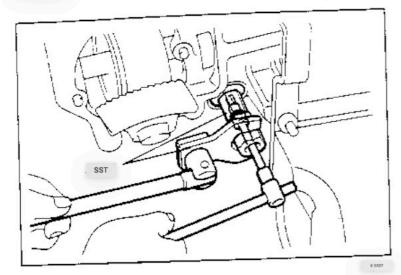
Remove the gear cover and bearing.

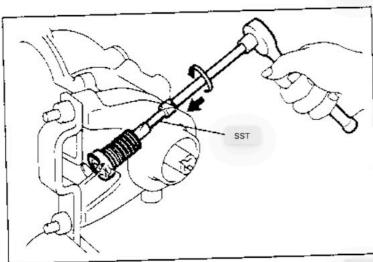
Don't drop the bearing.

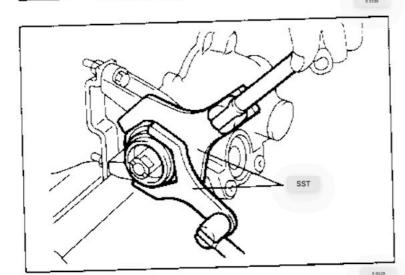


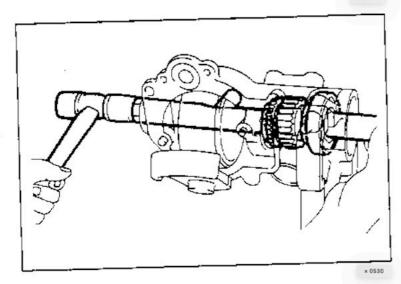
13 Rear steering Vivot bearing front bearing outer race removal

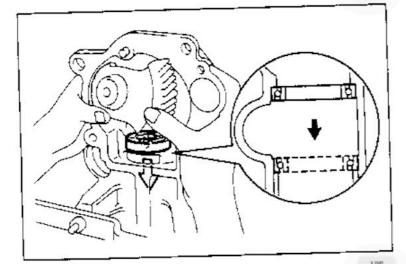
11) Using a plastic hammer, while lightly tapping the gear cover, float and remove the outer lace.







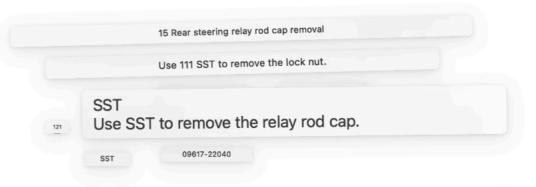




11) Use SST and hexagon wrench (8mm) to remove the lock + t.

12) Use a 121 hexagon wrench (8mm) to remove the adjust nut

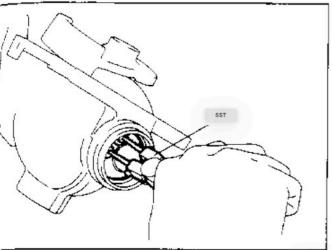
13) Using SST, turn it in the clockwise direction while holding down the control worm to remove it.



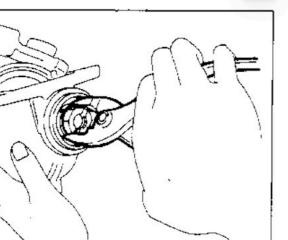
16 Rear steering worm control wheel removal 11) Using a plastic hammer, lightly tap the RH side of the relay rod and remove the worm control wheel and bearing (outer side).

- 17 Bearing for rear steering relay worm (inner side) Take it off
- (1) Support the relay rod and pivot bearing with your fingers, and lightly apply the relay rod cap side of the housing to the work table, etc. to remove the pairing. Apply through teeth and cloth.

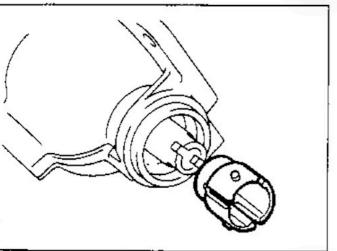
· Straightly remove the bearing.



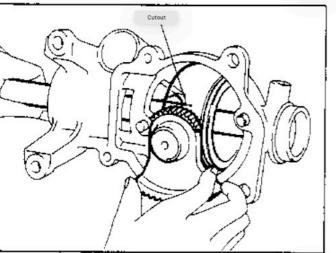
× 0532



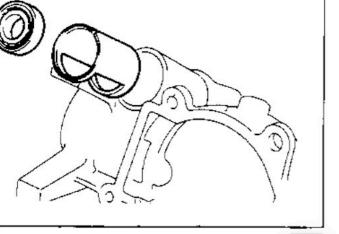
X0522



X1020



ж 0534



18 Rear steering relay rod stopper removal

Use SST to remove the snap ring.

SST

09905-00013

(Use 21 pliers to remove the relay rod stopper.

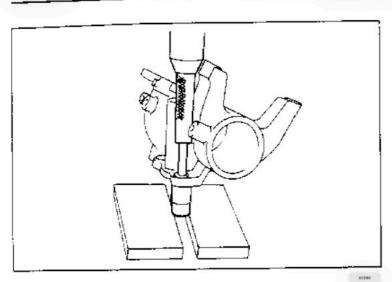
19 Steering rack bush removal

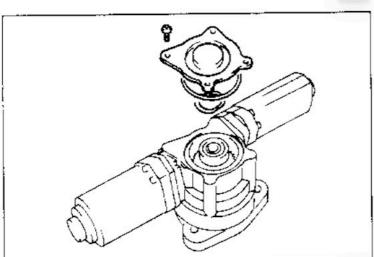
20 Rear steering relay rod and Vivot bearing removal

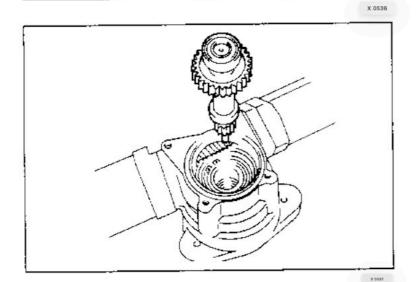
Remove

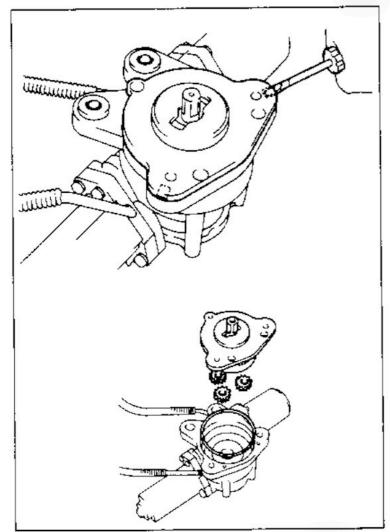
Remove the 111 relay rod and Bipot bearing. Rotate the relay rod and pull out the pin part of the relay rod according to the size of the housing. (3) Remove the pivot bearing.

21 Rear steering warm control cam and bearing
Take it off
111 Remove the control cam from the housing and remove
the bearing
I'll take it off.









22 Rear steering angle ratio converter bush should be taken

Use 111 SST and press to remove the bush.

SST 09201-70010

Rear steering angle ratio converter

1 Rear steering angle ratio converter cap is

11) Remove 4 screws and remove the converter cap, O-ring and wape washer.

2 Rear steering angle ratio converter shaft removal

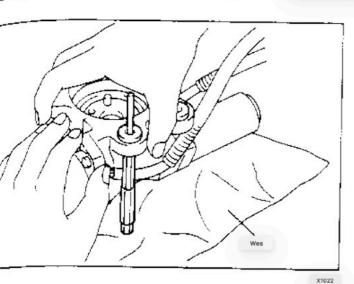
3 Rear steering angle ratio converter frame removal

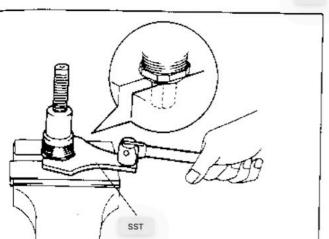
Illustration

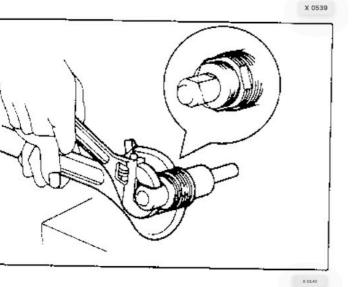
: 1) Remove 3 screws.

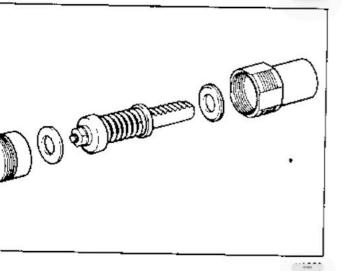
Using a screwdriver wrapped with 121 protective tape, alternately remove the claws of the two converter alames. Do not turn on the converter frame and housing.

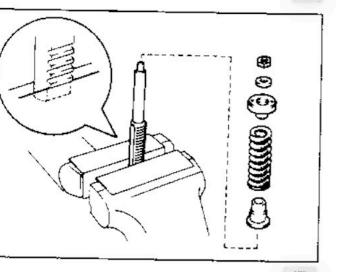
Remove the rolling from the 131 converter frame. 4 Rear steering angle ratio converter gear removal











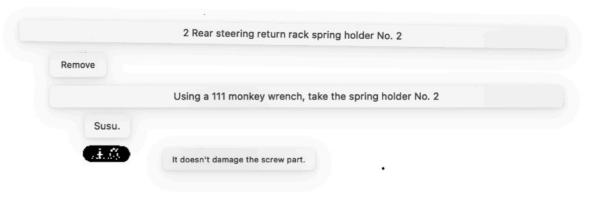
5 Rear steering angle ratio converter should be taken

11) Use a ping-pong to remove the push.

Rear steering return rack ASSY disassembly

1 Remove the lock nut
: 1) The return rack ASSY is vised through the aluminum mouthpiece.

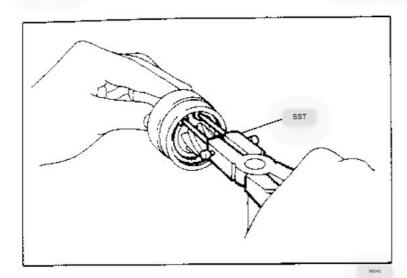
Ru.
Use SST to remove the lock nut.

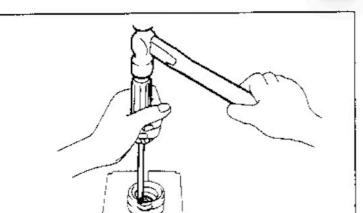


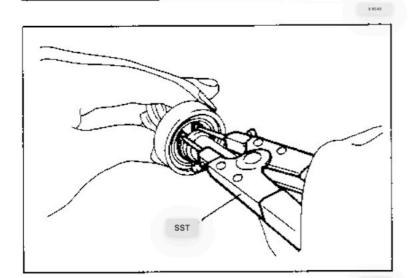
3 Rear steering return rack sub-ASSY removal : 1: Return rack ASSY and rear steering return spli

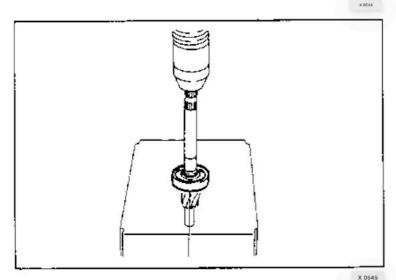
Remove 2 gretainer cushions.

4 Rear steering return rack sub-ASSY disassembly (11 The tip of the return rack is vised through the aluminum mouthpiece. 12) Remove the nut and remove the return spring retainer stopper, spring retainer and spring.









Rear steering gear pinion ASSY disassembly

1 Rear steering gear pinion bearing adjust screw Take it off

11 Remove the snap ring using SST. Remove the adjustable.

SST

09905-0001

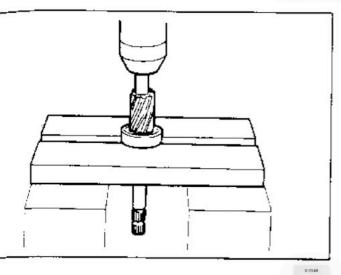
2 Remove the adjust screw oil seal 111 Use a screwdriver to remove the oil seal.

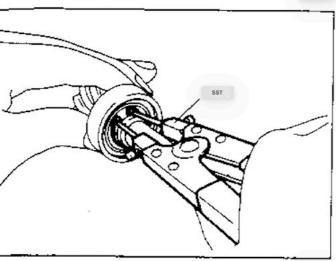
3 Rear steering gavinion bearing removal 11) Use SST to remove the snap ring.

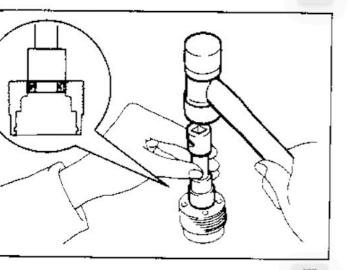
SST

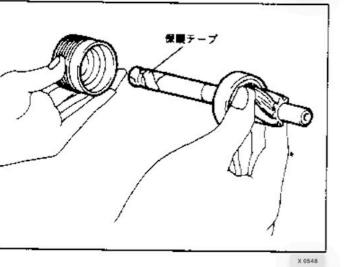
9905-00013

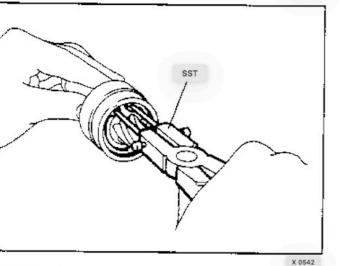
Use the 121 press to remove the pairing.











Rear steering gear pinion ASSY assembly

1 Rear steering gear pinion bearing installation

1: Equivalent clutch release hub grease to the bearing

I make a cloth. <Reference> Grease application calculation about 2.55

(2) Using a press, press the new bearing into the gear pinion

Ru.

<Reference> There is no direction for bearings. Use 131 SST to attach the snap ring.

SST

09904-00010

2 Adjust screw oil seal installation

Using a 19mm socket wrench, drive the oil seal until it matches the end face of the adjuster screw.

3 Rear steering gapinion bearing adjust screw One installation

(1) Wrap the protective tape around the serration part of the gapinion and adjust

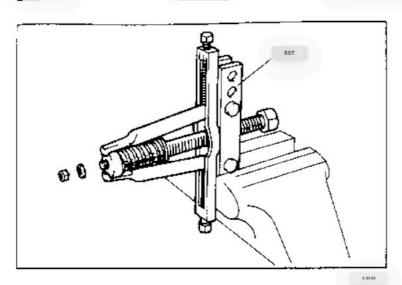
Install the screw.

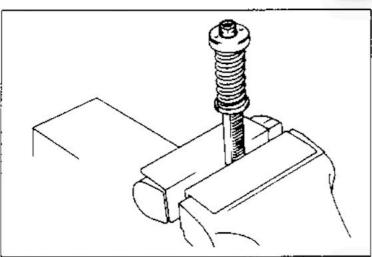
(2)

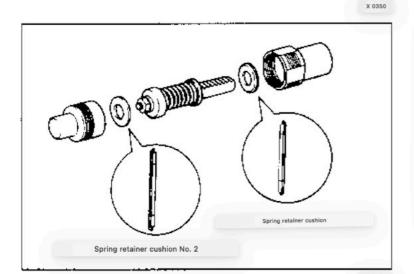
Use SST to install a snap ring.

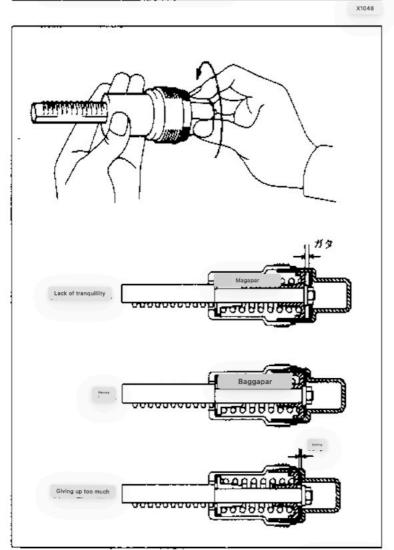
SST

09905-00013









Rear steering return rack ASSY assembly

1 Grease application for each part (see P8-116) 2 Rear steering return rack sub-ASSY assembly (Use 11SST to assemble the return rack, spring retainer, spring and stopper, and install the nut.

SST

09952-36010 09955-20012 09953-35011 09956-20011

09957-20010

(2)

Scissor the tip of the return rack with an aluminum mouthpiece. Tighten the nut."

T=145kg · cm

3 Rear steering return rack sub-ASSY installation
111 Insert the return rack sub-ASSY into the spring holder
through the rear steering return spring retainer cushion.
4 Rear steering return rack spring holder No. 2 installation
(1) Apply Adhesive 1344 to the entire screw part of the
spring holder No. 2

I do.

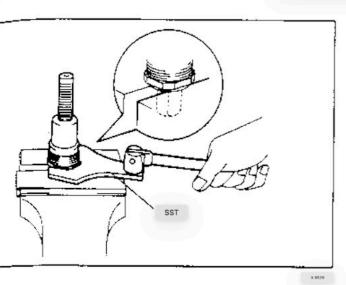
121 Rear Steering Return Spring Retainer Cushion No.2 Install the spring holder No. 2 through.131 Spring holder No. until the return rack is gone.

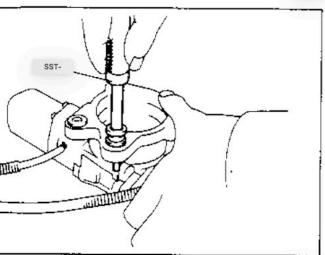
Tighten 2.

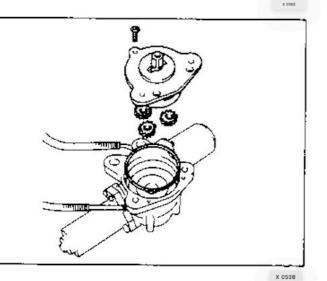
<Reference> Even if you tighten the spring holder No. 2 too much, return

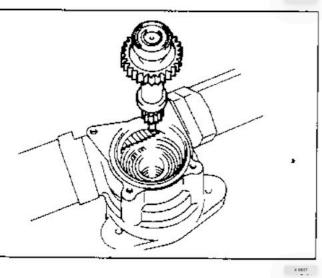
There's a rattling in the rack.

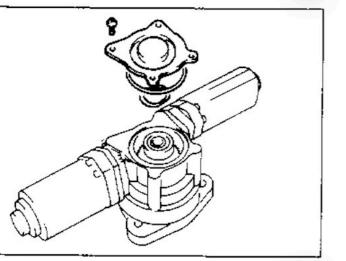
ASSY assembly











Install the lock nut.
Vise the spring holder No. 2 through the aluminum mouthpiece
Mu.
Use SST to tighten the lock nut.

SST
T = 850kg-cm

1 Grease application for each part (2 Rear steering angle ratio converted)

1 Grease application for each part (see P8-116)
2 Rear steering angle ratio converter Bush installation
1) Apply soap water to the Push.
Use SST to insert the bush into the compatter housing.

Lya steering angle ratio converter gear installation Rear steering angle ratio converter frame attached

(1)

09201-70010

Install a new O-ring on the converter frame.
Install the converter frame with 3 screws.

1. 1 Don't let the rolling bite.

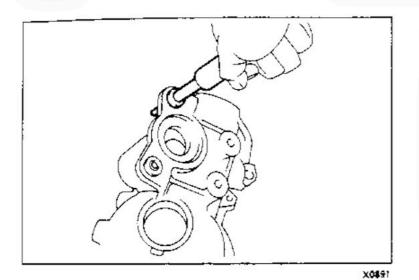
5 Rear steering angle ratio converter shaft attached

6 Rear steering angle ratio converter cap attached

Hair

(1) Install a new rolling in the converter housing.

(2)
Wave between the converter shart and the converter cap
Scissor the washer and attach the compater cap.



Rear steering gear link ASSY assembly

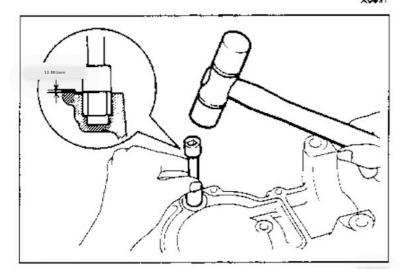
1 Grease application for each part (Refer to P8-115)

2 Rear steering angle ratio converter Busch installation 1; Apply soap water to Bush.

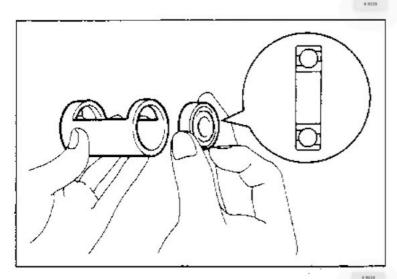
Use 121 SST to insert the push into the gahousing.

SST

09201-70010

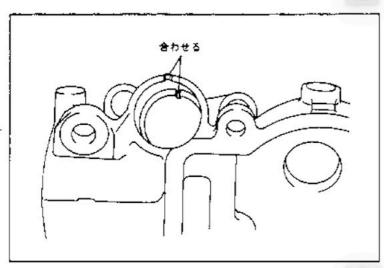


3 Bearing installation for rear steering gear pinion 111 Use a 14mm socket wrench to drive the bearing to the position shown in the diagram of the gear housing.

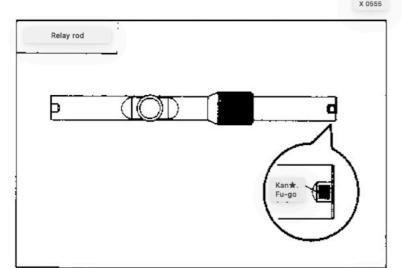


4 Rear steering warm control cam and bearing Installation

11: Insert the bearing into the warm control cam in the direction shown in the figure.



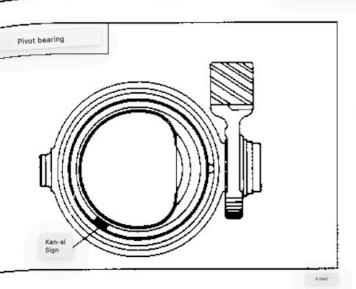
: 2) Insert the worm control cam into the gear housing and match the worm control cam and the gausing mark.

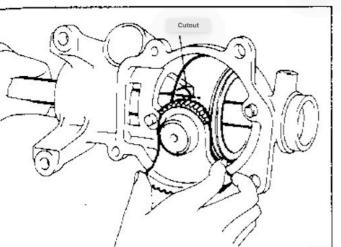


5 Rear steering relay rod and pivot bearing removal

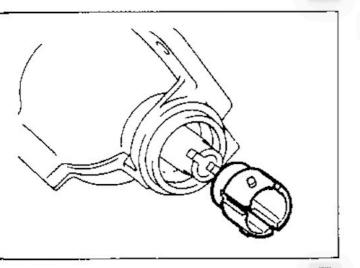
Attach

111 Make sure that the relay rod and pivot bearing are matched.

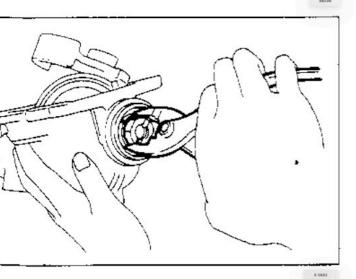




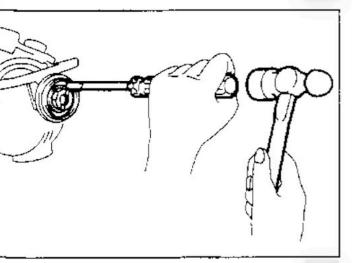
12) Insert the pivot bearing into the gear housing.131 The pin part of the relay rod is adjusted to the cutting size of the gear housing Insert.



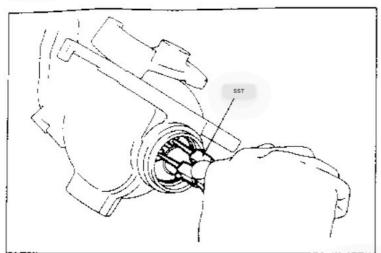
6 Steering rack bush installation



Rear steering relay rod stopper installation 111 Use pliers to install the relay rod stopper.



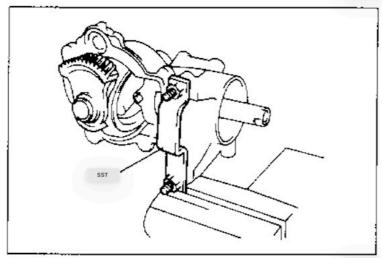
121 •Use a screwdriver to drive the relay rod stopper to the back.



13)
Use 5ST to install the snubbling.

SST 09905-00013

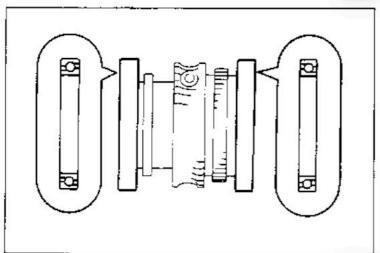
¥0582



8 Steering gear fixed Use 111 SST to fix the steering gear to the piece.

Referen ce> 09631-00131 SST should be at the left end of the vice.

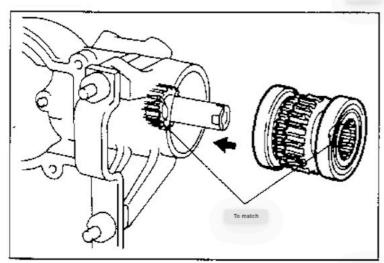
X 0360



9 Rear steering warm control wheel installation

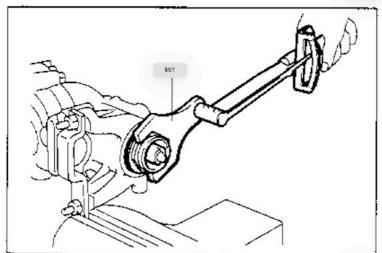
(1) The direction of the worm control wheel showing 2 bearings in the figure
Attach it to the ki.

X 0559



121 Attach the worm control wheel by matching the steering relay rod and the place where the teeth of the worm control wheel are not processed.

0997



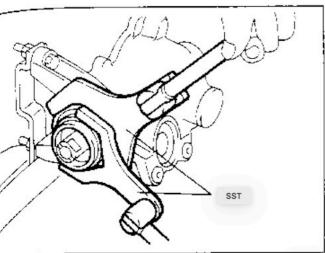
10 Rear steering relay rod cap installation

(1) Apply Adhesive 1344 to the screw part of the relay rod cap, S Use ST to tighten it.

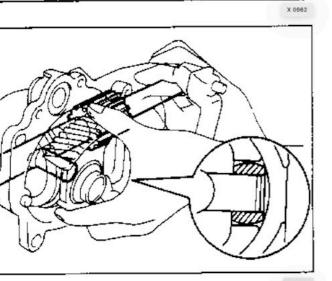
SS T

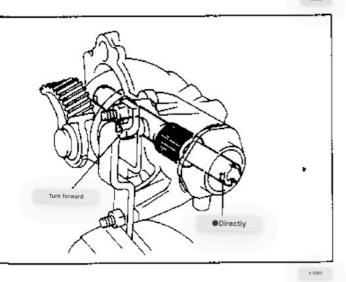
T=400kg · cm or more
Loosen the relay rod cap once and tighten it with the
prescribed torque
T=200kg · cm

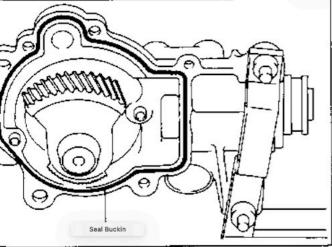
"21



X 0329







Use SST to tighten the lock nut so that the relay rod cap does not turn.

sst 09617-22010 09617-22040
T = 1200kg ⋅cm

11 Rear steering gear cover installation

I1) Take the bearing outer race and casing on the cover

I'll glue it.

(2) Insert the pin of the relay rod into the pivot bearing.

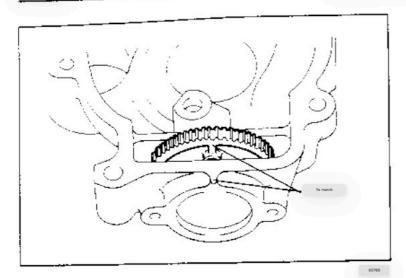
13) The pin of the relay rod is facing forward, and the two-sided width of the tip of the rod is pointed vertically.

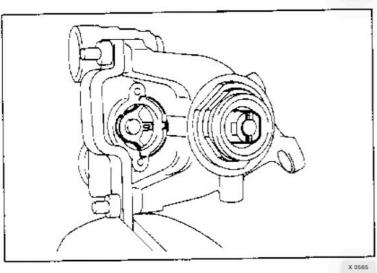
Apply the seal packing 1281 to the groove of the housing so that it does not break.

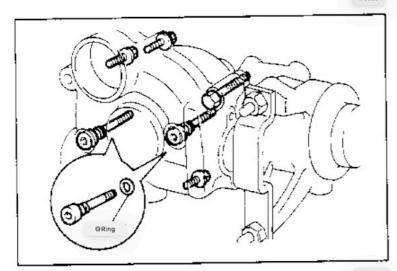
The seal packing is applied with ★2 to 3mm.

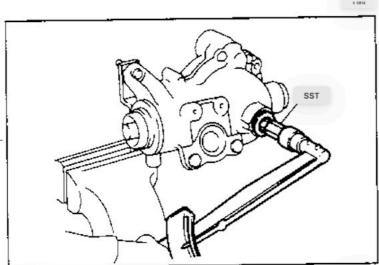
- · Assemble within 5 minutes after applying the seal packing.
- The beginning and end of the application of the seal packing are wrapped a little

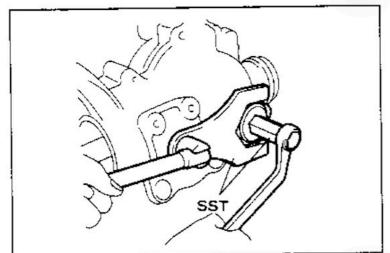
X 0564











5: Combine the sensor gear of the gear cover and the mark of the gear cover, and attach the cover to the gear housing.

- · Do not let the bearing of the gear cover fall off.
- · Insert a Vivot bearing into the bearing of Gacover Ru.
- Don't miss the combination of Vivot bearing and relay rod.
 Yes.

Confirm that the relationship between the 461 sensor gear and the relay rod is shown in the figure.

(Attach a new O-ring to two 71 hexagonn bolts. : 8; 6 bolts on the gear cover (4 bolts, 2 hexagonal bolts)

Tighten up. T = 195kg-cm

12 Rear steering pivot bearing rear bearing installation

- 11) Insert the bearing into the gaa housing.
- (2) Apply Adhecip 1344 to the screw part of the pairing cap, SST

Use to tighten.

SST

T = 300kg-cm

Loosen the bearing cap once and tighten it with the prescribed torque.

T = 150kg •cm

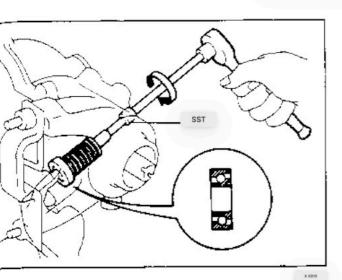
(4) Use SST to lock the pairing cap so that it does not turn

Tighten the nut.

SST T = 1000kg·cm -10022

09617-10010

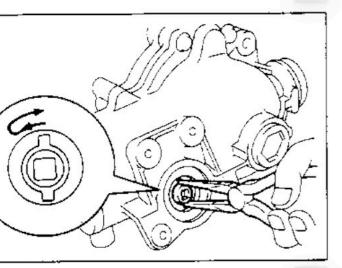
X 0388



13 Rear steering lever ratio control warm installation 111 Insert the cortroll worm into the housing and push it from the bottom

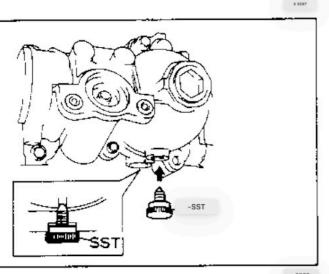
Use 5SST to install it so that the screw is returned.

Attach the bearing in the direction shown in the figure.



14 Rear steering lever ratio control worm backula Sh tone1/4

(1) Use the nose pliers to rotate the worm control cam to the left from the motor mounting part, and eliminate the backlash of the lever ratio control worm and the worm control wheel.
12) Put the warm control cam back a little from the state of (1) (about 5°)

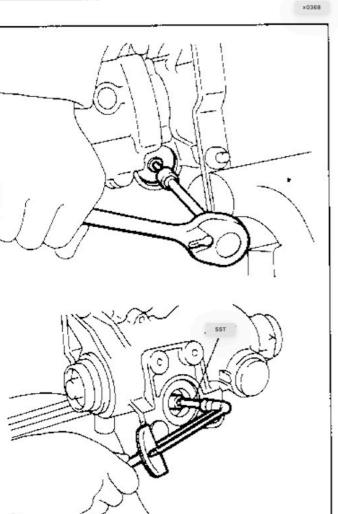


Adjust the backlash.

15 Rear steering lever ratio control warm prelow

ト網整
(1)

Use SST to fix the Riyaya ASSY at the centre.



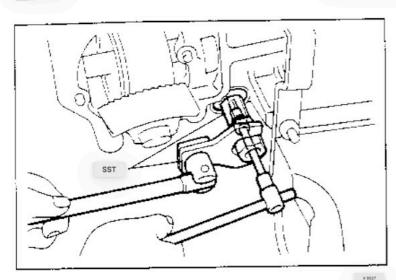
Apply Adhexip 1344 to the screw part of the warm adjust nut and attach it to the ga housing.
Use SST to make sure that the lever ratio control worm rotates smoothly.

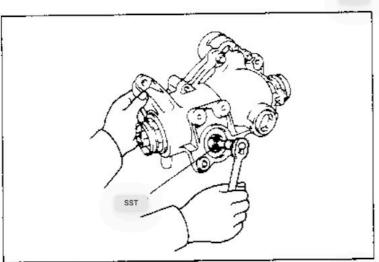
SST 09660-14020

(4) Using a hexagon wrench (8mm), tighten the warm adjustment nut so that the preload during the rotation of the lever ratio control worm becomes the reference value.

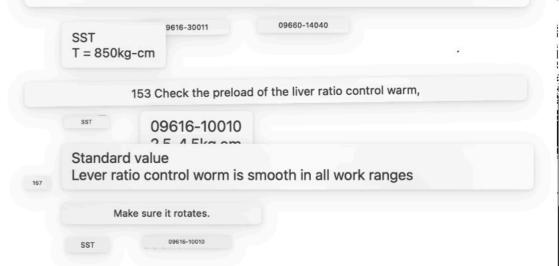
SST
Standar
d value

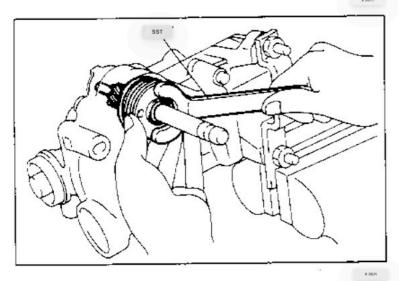
2.5 to 4.5 kg · cm (neutral soil 90° rotation)





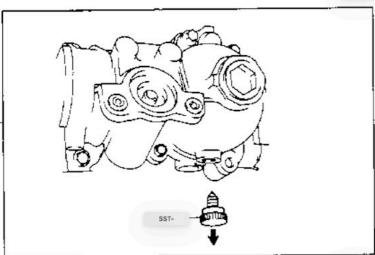
14: Easy ad hemp 1344 on the thread part of the warm adjust nut No. 2 Cloth and use SST and hexagon cinch (8mm) to tighten the yu-ohm adjust nut so that it does not turn.





16 Rear steering gear pinion ASSY installation 111 Adhexi to the screw part of the pinion bearing adjust screw Apply Pu 1344 and use SST to attach the gear pinion ASSY to the gacover.

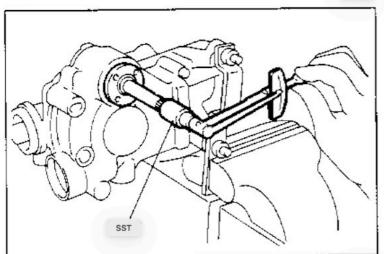
SST 09616-30011



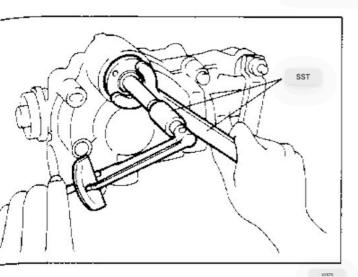
17 Rear steering gavinion ASSY pre-road adjustment 11) Remove the SST from the gas housing.

\$ST

09660-14030 Be sure to remove the SST because it will cause a breakdown.

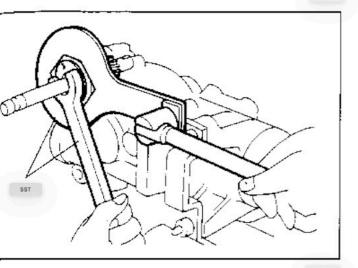


(2) Measure the initial preload of the gypinion using SST.



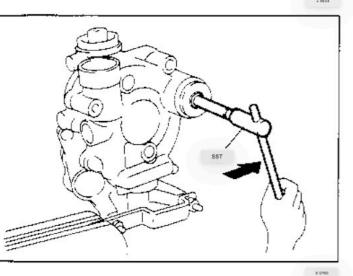
Using SST, tighten the adjust screw so that the preload of the gear pinion increases by 1.5 kg and cm from the value of 21.

SST 09616-10010 09616-30011



Using SST, tighten the lock nut so that the adjust screw does not turn.

5T 09616-30011 09660



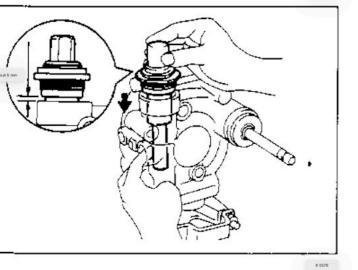
Rear steering return rack ASSY temporary attachment

Use SST to rotate the gear pinion in the counterclockwise direction.

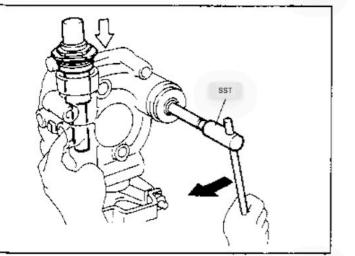
\$ST

Install a lock nut on the return rack ASSY.

13; Apply Advanced 1344 to the screw part of the return rack ASSY.



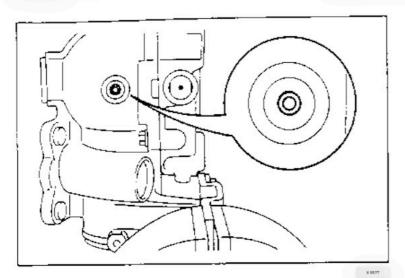
Insert the 141 return rack ASSY and engage the sector gear at a distance between the gear cover end face and the return rack staged part of about 5 mm.



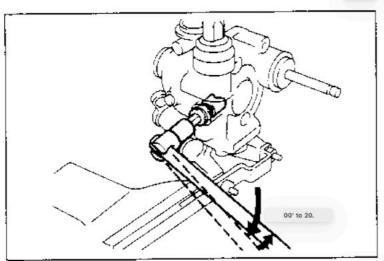
Gear pinio so that the match between the sector gear and the rack does not shift

Turn the n in the clock direction.

If you insert the screw part of the return rack ASSY, stop rotating the pinion gear and screw the return rack ASSY.



171 Screw the return rack ASSY into the centre of the mounting hole of the return rack guide until the small rack comes. At this time, make sure that there is a pivot ~ drilling hole near the centre of the hole of the head cap bolt.



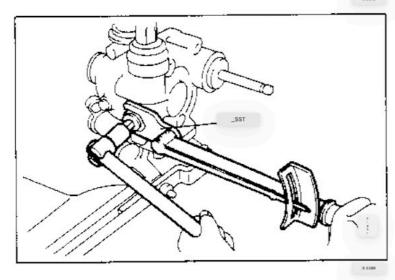
19 Rear steering return rack guide installation

11) Add to the screw part of the return rack guide spring cap

Apply Pu 1344.

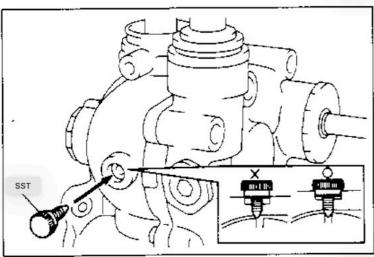
: 21 Take the return rack guide, spring and spring cap I'll glue it.

13) Screw in until the spring cap hits the return rack guide, and then screw back 10 to 20° from there.



(4) Use SST and hexagon wrench (14mm) to tighten the lock nut so that the spring cap does not turn.

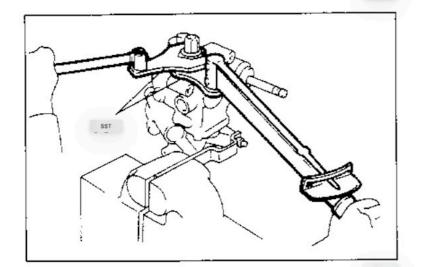
SST T = 400kg •cm



20 lya steering return rack ASSY soup (1) When the SST is screwed into the hole of the head cap bolt, it is smooth

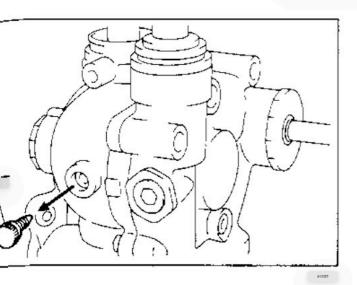
Make sure to enter.

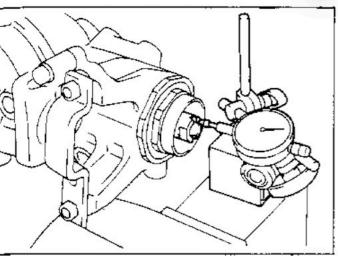
SST 09660-14030

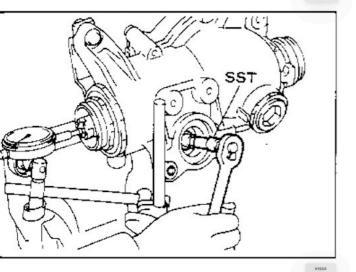


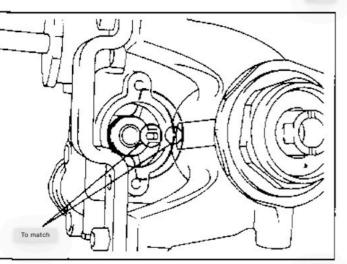
(2) Use SST to prevent the return rack ASSY from turning. Tighten the knut.

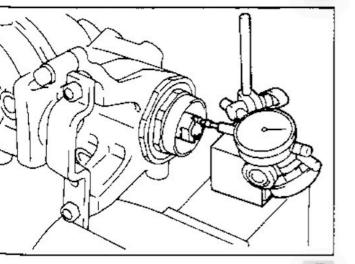
SST 09617-10010 T = 850kg-cm 09617-22040











i³⁾ Remove SST.

SST

09660-14030 Be sure to remove the SST because it will cause a breakdown.

(Set the dial gauge at the tip of the 41 relay rod as shown in the figure.

When you use SST to rotate the lever ratio control worm to the left and right, make sure that the instruction of the dial gauge is within the reference value.

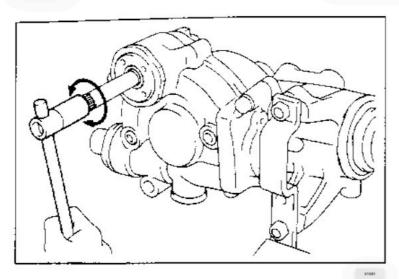
Standard value 0 soil 0.1mm

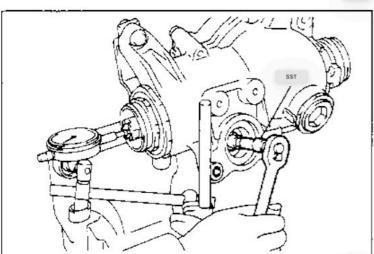
If it is outside the standard value, adjust the screwing amount of the return rack ASSY.

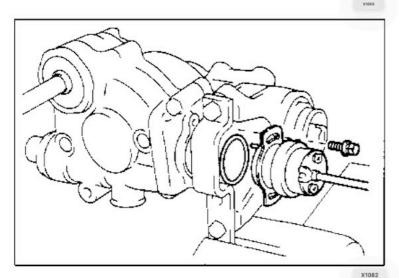
21 Steering control sensor installation

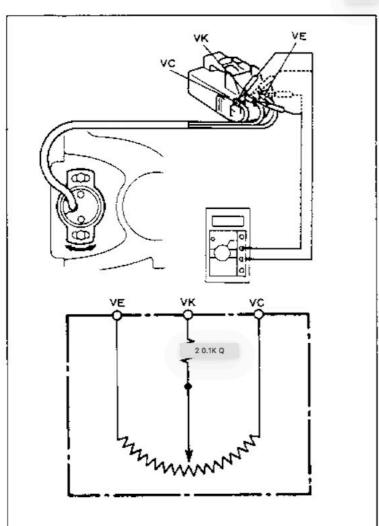
111 Make sure that the mark of the sensor gear and the gear cover match

12) Set the dial darge on the tip of the relay rod as shown in the figure.









X1028 X0791

13: When you use SST to rotate the gear pinion to the left and right, make sure that the instruction of the dial gauge is within the reference value.

SST

09616-10010 0 soil 0.05mm

(4) If it is outside the standard value, use SST to control the lever ratio.

Turn the worm and adjust it.

SST

09660-14020

(5) Attach the new O-ring to the gear cover.

16) Install the sensor lever in the hole of the sensor gear.

11 13

Do not deform the lever of the sensor.

171

Temporary tighten two bolts.

22 Steering control sensor adjustment

(1) Move and adjust the sensor so that the difference between the VC → VK terminal of the sensor connecter and the VK → VE terminal is within the reference value.

Standard value within 0.1K2

CF (A

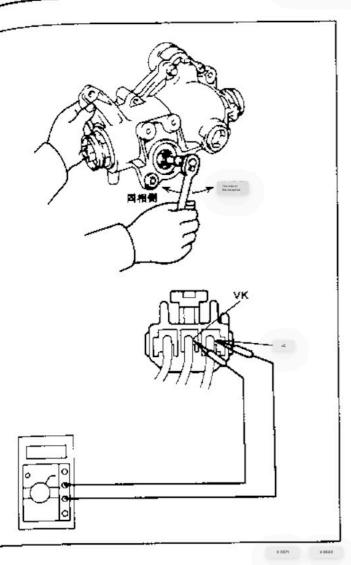
(老)

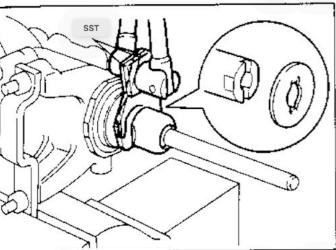
The tester inserts from the back of the connecter. As a guide for the neutrality of the sensor, it will be around the paper resistance (KO) + 0.1K0 between VC and VE.

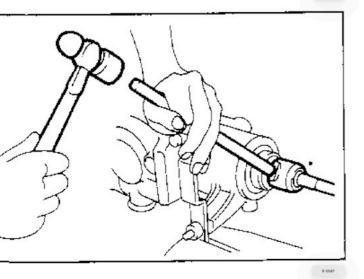
Z

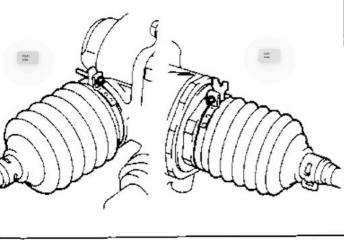
12) Tighten the sensor mounting bolt.

T = 50kg-cm









Using SST, the liver ratio control worm is the same phase When turning from the MAX side to the reverse MAX side

Using SST, the liver ratio control worm is the same phase When turning from the MAX side to the reverse MAX side, confirm that the resistance value between the VK → VE terminals of the steering control sensor changes.

Standar d <Refere nce>

If you turn from the same phase side to the reverse phase state, the resistance value will increase proportionally.

Resistance value at the same phase MAX Resistance value at reverse phase MAX

Rear steering gear ASSY inspection

1.6-8.1KQ 3.6-11.9K2

24 Rear steering rack end installation

Install the rack end through 111 new claw washers.

Use SST to tighten the rack end.

SST T=850kg.cm

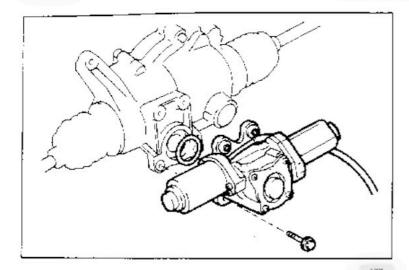
12)

09617-24011

(3) Use the plus bar to claw washers.

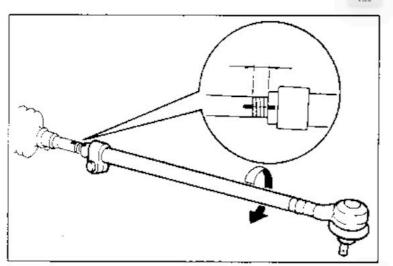
25 Rear steering relay rod boot installation

11) Install boots and clamps.



Rear steering angle ratio converter ASSY installation 1: Attach a seal ring to the converter ASSY" Install the converter ASSY with 4 121 volts

T = 50kg·cm

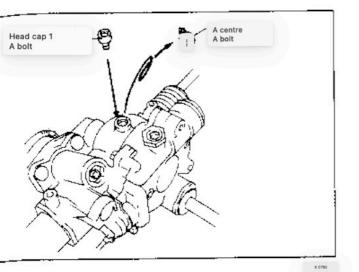


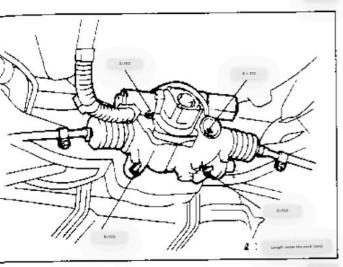
27 Rear steering relay rod installation
111 Screw the relay rod to the length of the screw part measured before disassembly.

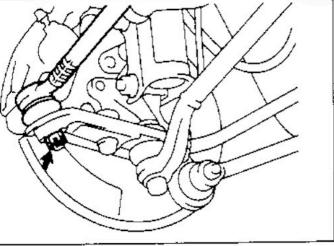
Tighten the crank. T = 185kg •cm

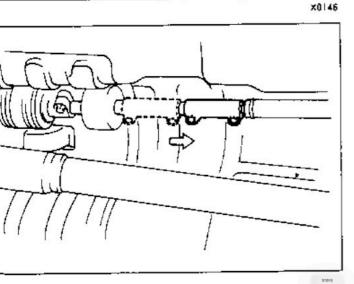
28 Temporary attachment of head cap bolts

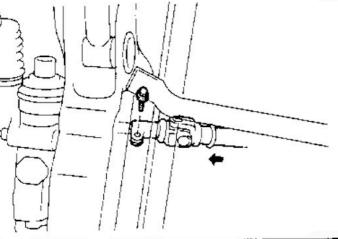
1: The head cap bolt is tightened after 4WS neutral tone











Rear steering gear link ASSY installation



 Steering with the connecting shaft connected When operating the wheel, be sure to use SST for centreing Remove it.

 When replacing the rear steering gear link ASSY, the rear steering gear link ASSY for replenishment is centred by the bolt for centering, so be sure to attach it to the attached head cap bolt first. Replacement

1 Rear steering gear link ASSY installation 11) Rear steering gear, rear suspension with 4 nuts

> Attach it to the mbar. T=650kg · cm <Reference> The length of Porto is shown in the figure.

Connect the tie rod end and the knuckle and tighten the castle nut I'll lick you. T=600kg · cm Install a new cotter pin.

2 Rear steering gear connecting shaft disconnection Loosen the sleep bolt of the connecting shaft, slide the sleeve to the front of the vehicle, and disconnect the connection with the connecting shaft No. 2.

(21 Tighten the bolts to the extent that the sleeve does not move.

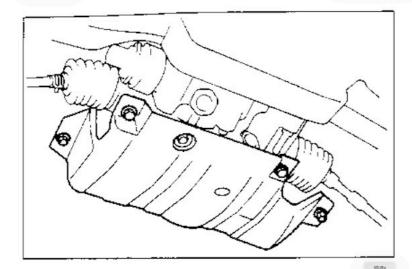
3 Rear steering gear connecting shaft No. 2 connection

Match and connect the pinion ga serration of the rear steering gear link and the serration of the connecting shaft No. 2

Ru. Tighten the two clamps of the connecting shaft No. 2. T=360kg-cm



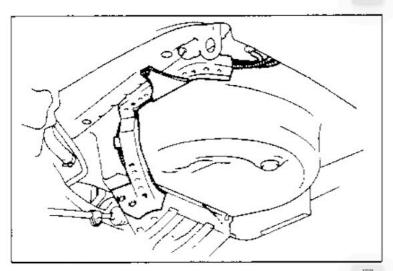
(2)



4 rear steering angle ratio converter protector Glue

11: Install the protector with 4 bolts =

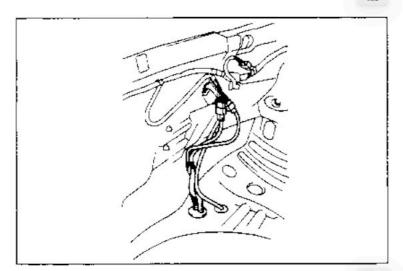
T=115kg · cm



5 Wiring harness guide installation

- 11) Rya steering gear ASSY wire harness clamp at 4 o'clock Install the place.
- 12: Install the wiring harness guide with 3 bolts

T = 55kg-cm



6 Connecter connection

11) Pull the harness of the main motor, backup motor and steering control sensor into the guide and connect each connecter."

XXXX

7 Steering control W/H protector installation

111 Pull the harness of the main motor, backup motor and steering control sensor to the clamp of the protector and install the protector.

8 Deck trim sideboard left installation

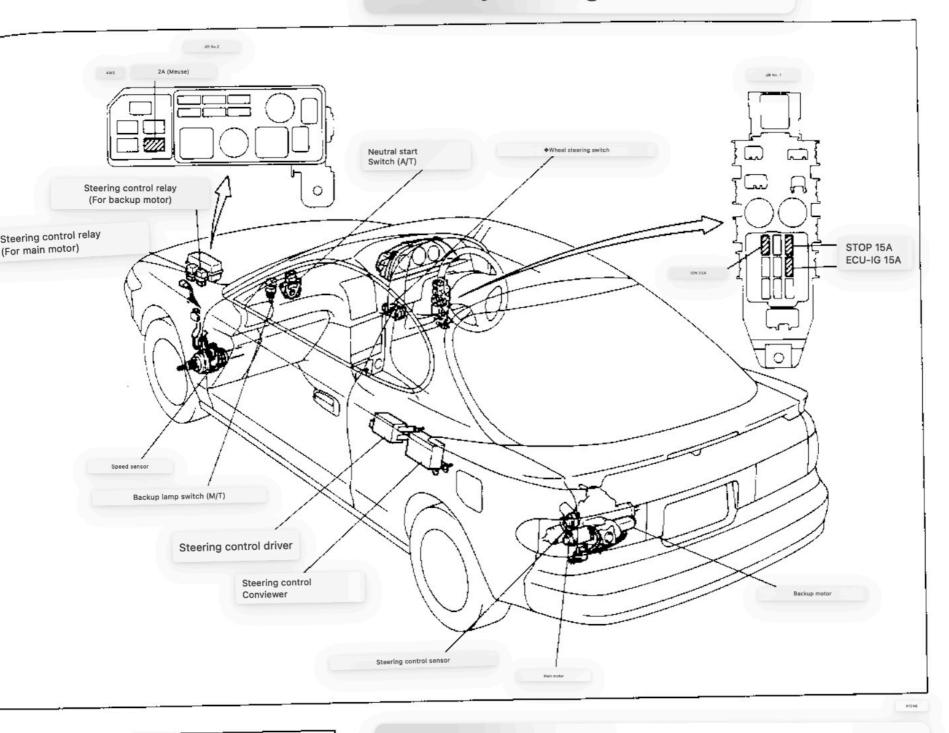
9 Deck trim cover rear installation

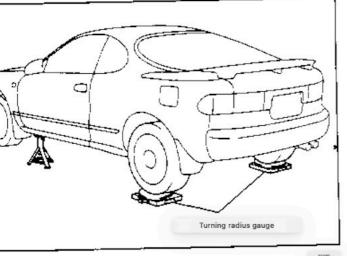
10 Rear wheel alignment (to-in) inspection and adjustment

(Refer to P6-8)

11 4WS Neutral Training (Refer to P8-107)

Electrical control Parts layout diagram





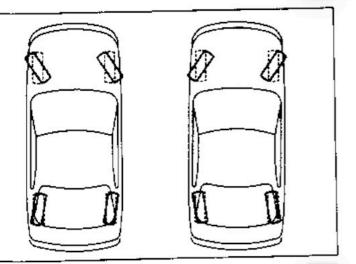
Function inspection

Phase switching inspection

1 Vehicle front jack-up

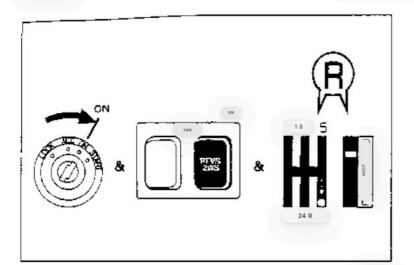
2 Turning radius gauge set (1) Set the rear diamond on the turning radius gauge and parkin

Pull the brake lever.



Rear wheel cut angle inspection
Reverse phase inspection
the steering wheel is cut from the straigh

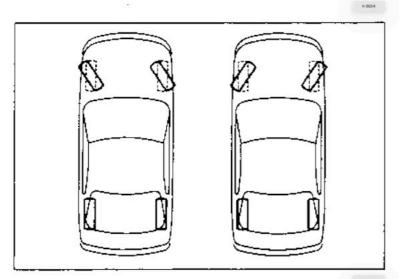
When the steering wheel is cut from the straight forward state to the left and right, make sure that the rear wheel cuts in the opposite direction from the front wheel.



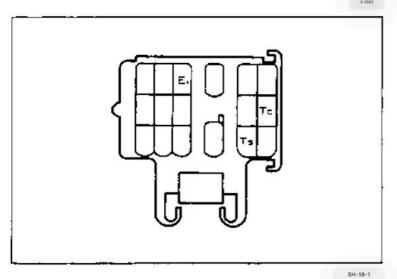
Neutral (reverse 2WS function) inspection

111 Turn on the ignition switch and shift the shift lever to the reper.

12) Turn on the 2WS switch when reversed.



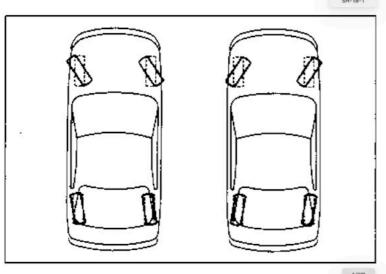
When you cut the 131 steering wheel from the straight forward state to the left and right, make sure that the rear wheel does not break.



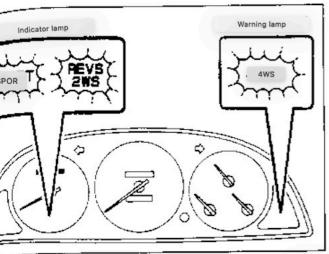
Iso-phase inspection

11) Tc, Ts+E of the diagnostic connecter, short the terminal and turn on the ignition switch

If you make a mistake in the short position of the connecter, it will cause a failure, so you will never get it wrong.



12) When the steering wheel is cut to the left and right from the straight forward state, make sure that the rear wheel cuts in the same direction as the front wheel.



× 0594

Troubleshooting

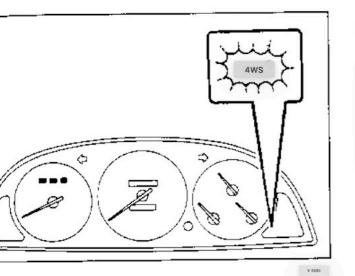
- · With the ECU-IG and IGN fuses unplugged, never turn on the ignition switch.
- When even one connecter of the steering control computer is disconnected, the ignition switch will never be turned on. (It's good if everything is detached)

How to proceed with troubleshooting

1 Battery pressure inspection Standard value 10 to 14V (when the engine is stopped) 2 Lamp check

(11 When the ignition switch is turned on, confirm that the indicator lamp and warning lamp of the 4WS will light up for about 2 seconds.

- 3 Dialogue inspection
- 4 Inspection by chart by trouble phenomenon



Diagnostic inspection

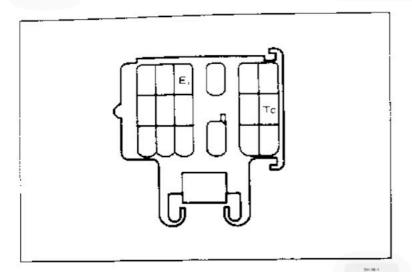
1 Fail-safe function

11) If an abnormality occurs in the system of 4WS system, fail system Do the city, turn on the 4WS warning lamp and display the abnormality. <Paccipant> · Fail safe function is the ignition switch OFF

Reset with.

Control content at the time of fail-safe

Abnormal simple place	Sumi-dong motor	Control content
Main motor · Motor short · Motor disconnection · Motor malfunction · Relay failure	Support A motor	Perform the normal mode system • To the same side due to the increase in vehicle speed I need to move. • It does not reverge in the reverse direction.
Backup motor ·Hairy hair is cut off · Motor malfunction · One night, one power disconnection	Main motor	Control the normal mode • To the same side due to the increase in vehicle speed I need to move. • Do not move in the reverse direction.
Speed sensor	Main motor	Control the normal mode • To the same side due to the increase in vehicle speed I'm moving. *Do not drive in the reverse direction
Steering control sensor · Sensor disconnection · Defective sensor	Support A motor	Drive up to the same phase MAX, control body stop
A computer • Poor control • Source of computer Disconnection	Support A motor	Drive up to the same phase MAX, stop control



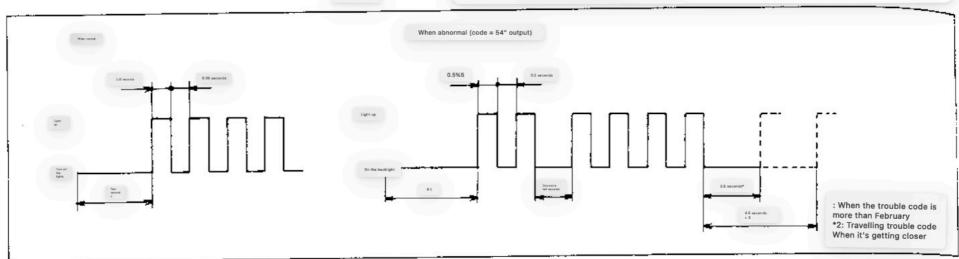
2 Diagnosis code reading

<Reference> Even if the warning lamp is not on, it will be rotten →

If Eir has ever occurred, I remember the Diadanosis code. TCH+E of the diagnance connecter, short circuit the terminal.

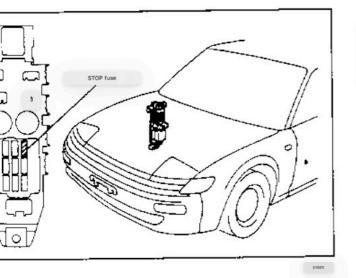
If you make a mistake in the short-circuit position of the connecter, it will cause a failure, so you will never make a mistake.

121 Turn on the ignition switch and read the number of flashes of the 4WS warning run.



A chord Number	Diagnostic items	4WS warning lamp flashing	Diagnosis content	Inspection contents
11	Computer failure	Eight up or early of the grant	Ignition switch 0N 1C2 After that, IG 1 turned on (more than 2 seconds have passed) Later) The backup motor was activated with the ignition switch ON.	Wire harness
12	Driver source system is defective	Light of the First	When the main relay was turned off, when the steering control driver was heated, the main motor's moveable power was entered. (Implemented at the time of initial check)	· Main relay
13	Bad steering control driver	Light War Time off Street Stre	When the main motor is not moving, the main motor electric current was input.	· Steering controlled Liver
21	Main motor type show To	Liph 1 spin ref of the fight f	Steering control driver The short signal from was entered 4 times.	Main motor Main relay Wire harness (computer + driver group)
22	Main motor system disconnection	Light up the state of the state	Even if you output the main motor joy signal, the main motor will be driven! The flow is less than 2A, and the change of the accommodation number from the steering control sensor is below a certain level.	· Main motor · Wire harness
2 5	Main motor lock	Turn off the Sprits	Soybean flow flowed to the main motor. Even if you output the movement of the main motor, the change of Suga's mother from the steering control sensor is less than a certain level.	Main motor Saiya harness
24	Main motor trial operation	tig to the state of the state o	Computer's main motor motion 1 The direction of the mother and the direction of the number from the steering control sensor are reversed.	· Main motor

Diagnosis date	4WS warning lamp flashing	Diagnosis content	Point content
Backup motor System disconnection	SignM sp Furn ell the fights	The backup motor system was disconnected. (Judged at a vehicle speed of 5 km/h or more)	· Backup motor · Wire harness (IG2 series, G ND2 series)
Backup motor Poor 采	Light up	Even if you output the moveable number of the backup motor, the eyes from the steering control sensor will not change. (Implemented at Initial Check)	Steering control Le Backup motor
Speed sensor system is not	Elight up Income of the rights	One of the two speed sensor outputs is Even though it was more than 25 km/h, the other speed sensor output was 0 km/h for more than 2 minutes.	· Speed sensor · Wire harness
Defective steering control sensor	Usphi up Turn off the fights	Main motor At dynamic output, mo Although the driving current of the tar is no the words from the steanser ring control is When there is no change even if you move backup motor after the change of the issue continues below a certain state	ensor arness ethe
Steering control sensor disconnection, short	Light up Turn off the lights	Steering control sensor? Ra's number is a species outside the horizontal moveable range	· Steering control Zenser · Wire harness



- 4 Diagnossis code erasure (1) Remove the STOP fuse for 10 seconds after abnormal location.
- (2) After installing the fuse, confirm that the normal code is output.

Inspection by chart by trouble phenomenon

1 How to view the flow chart

- ...Working talent day
- ... point exchange way stone month
- Those who do not fill in the conditions are Idanification

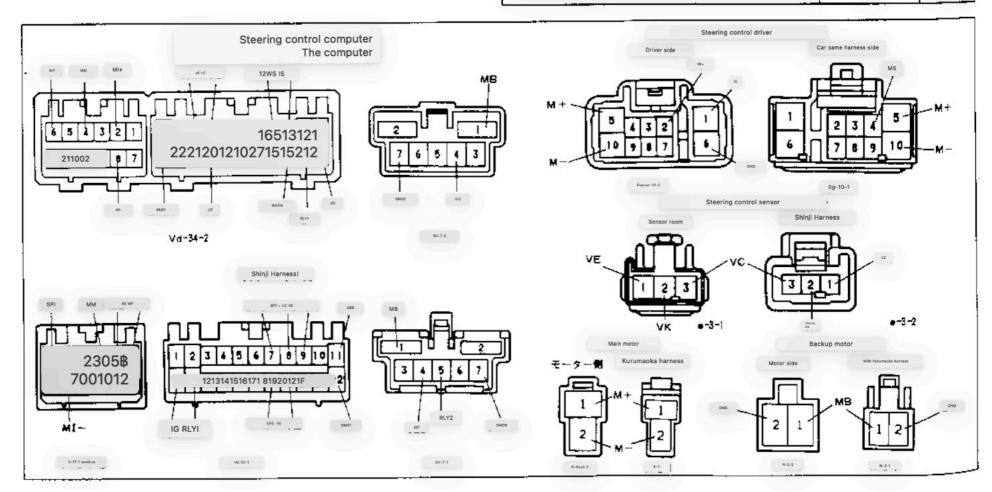
Do it with the switch ON



Defect factors

· Including wire harnesses

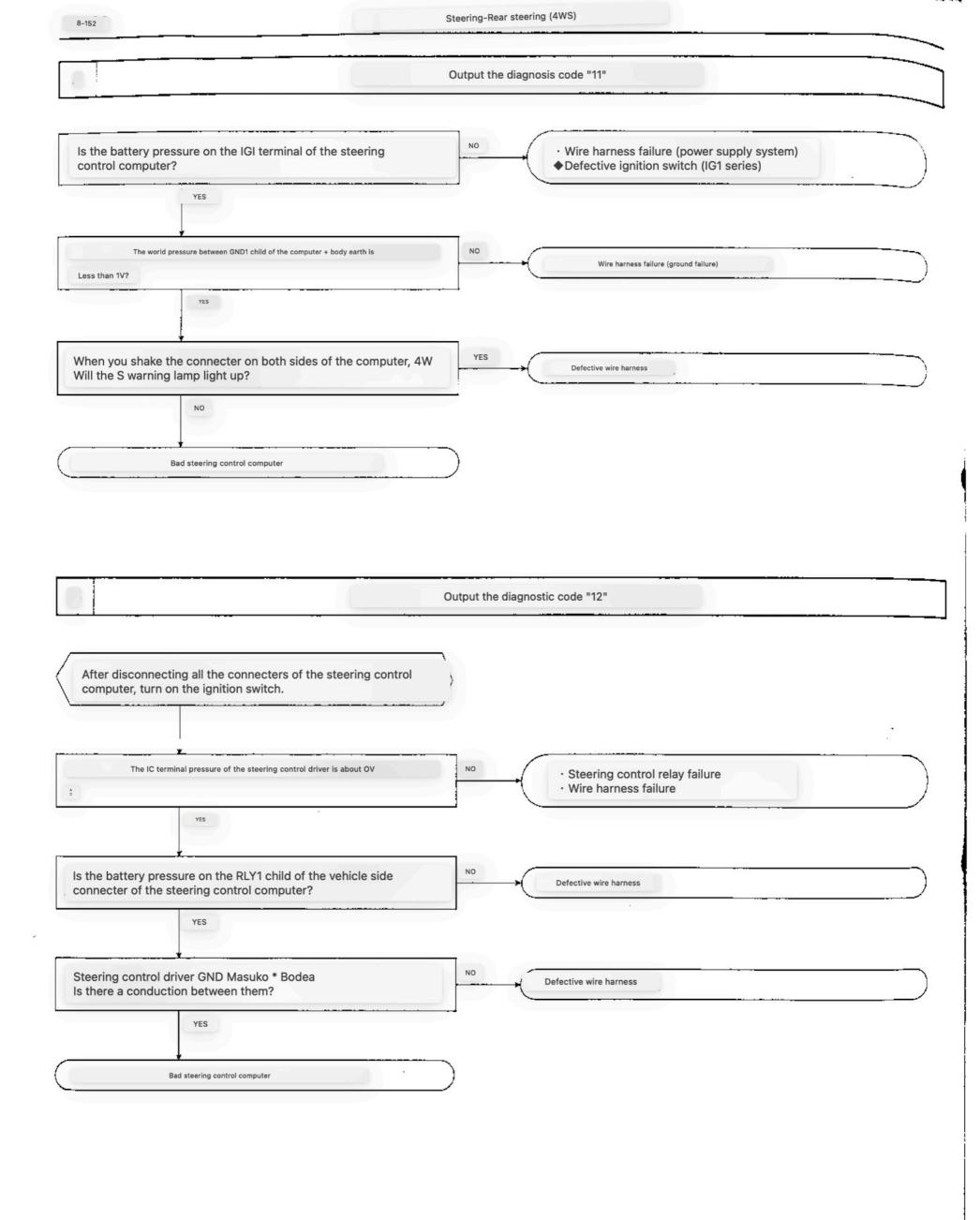
Defect phenomenon	Chart No.	A page IS p
4WS with ignition switch ON" The lamp of "SPORT"REV2WS" does not turn on.	1	8-151
Even if the "TcIE" terminal of the diagnostic connecter is short-circuited, the diagnosis code will not be output.		8-151
		8-15
		8-15 2
Output the diagnostic code "11" Output the dialogue code "12 Output the diagnostic code "13" Output the diagnostic code "21" Output the diagnossis code "22	0	8-153
		8-154
		8-155
Output the diagnostic code "23"		8-156
Output the diagnosis code 24" Output the diagnostic code "31" Output the dialogue code "32 Output the diagnostic code "41" Output the diagnostic code "42	(6)	8-157
	10	8-158
	11	8-159
Output the dialogue code "43"	12	8-160
	13	8-161
	14	8-162
It doesn't go into reverse 2WS mode.	15	8-163
I can't switch between "normal" "spoe"	16	8-163

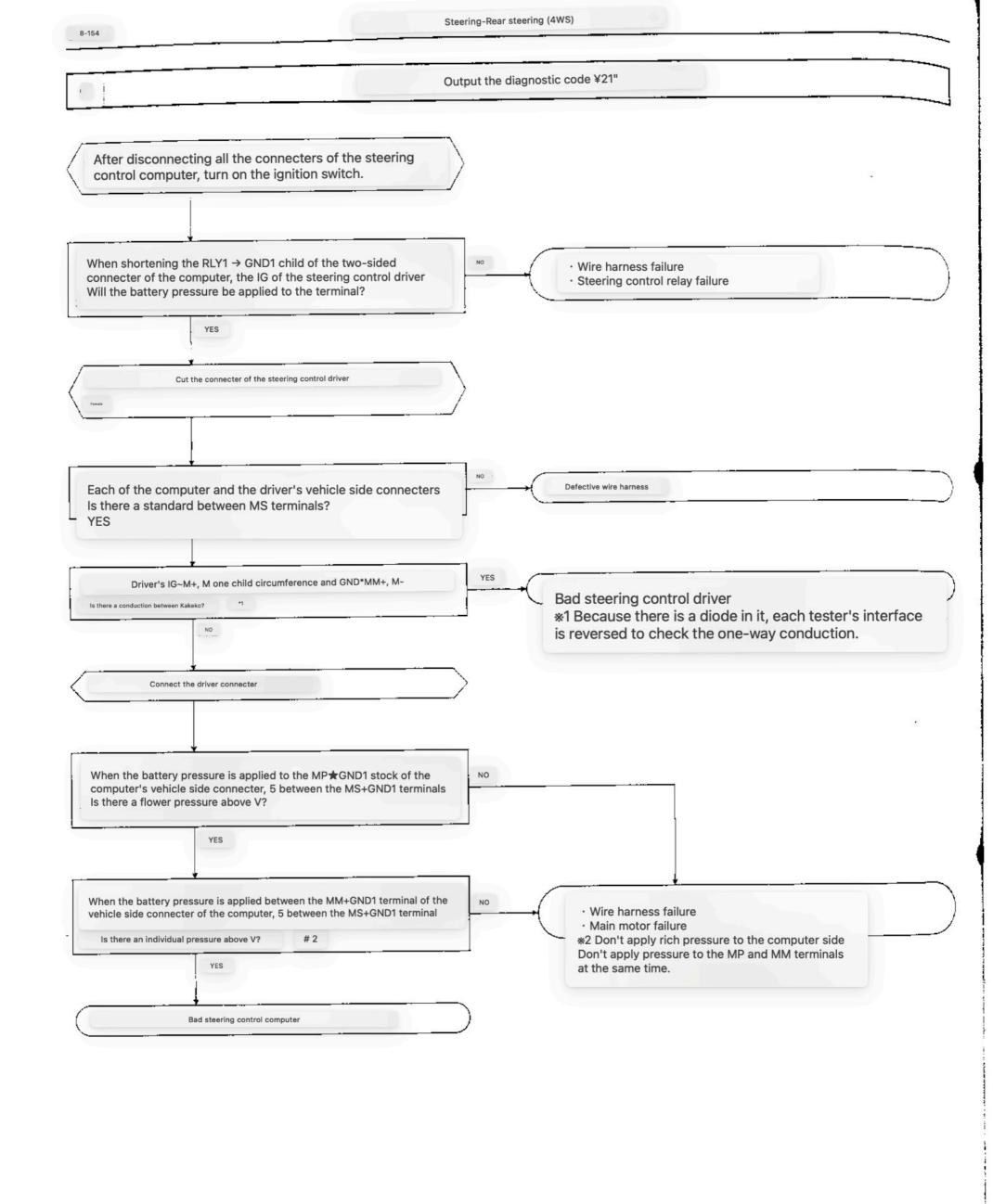


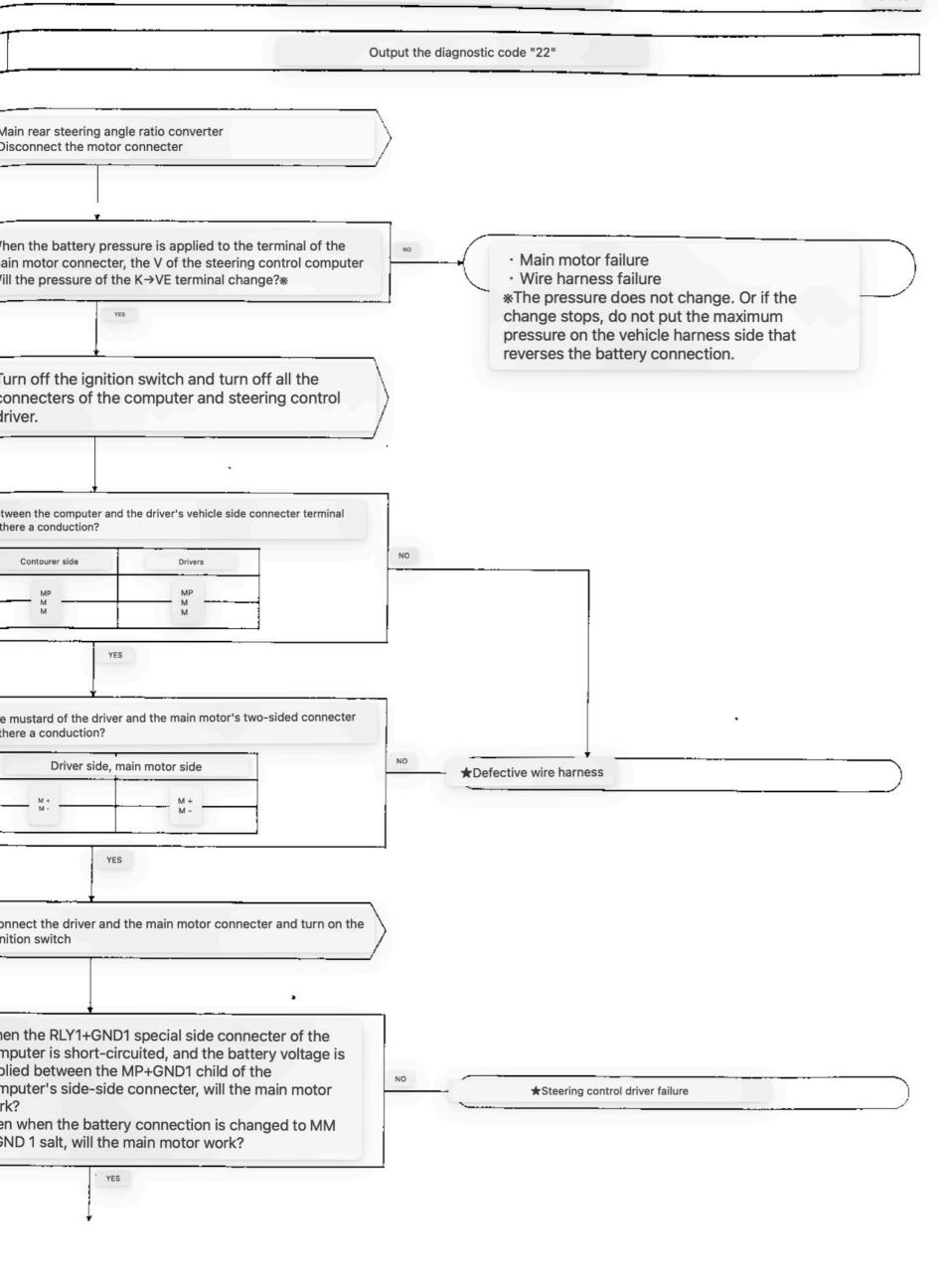
★Wire harness failure (ground failure)

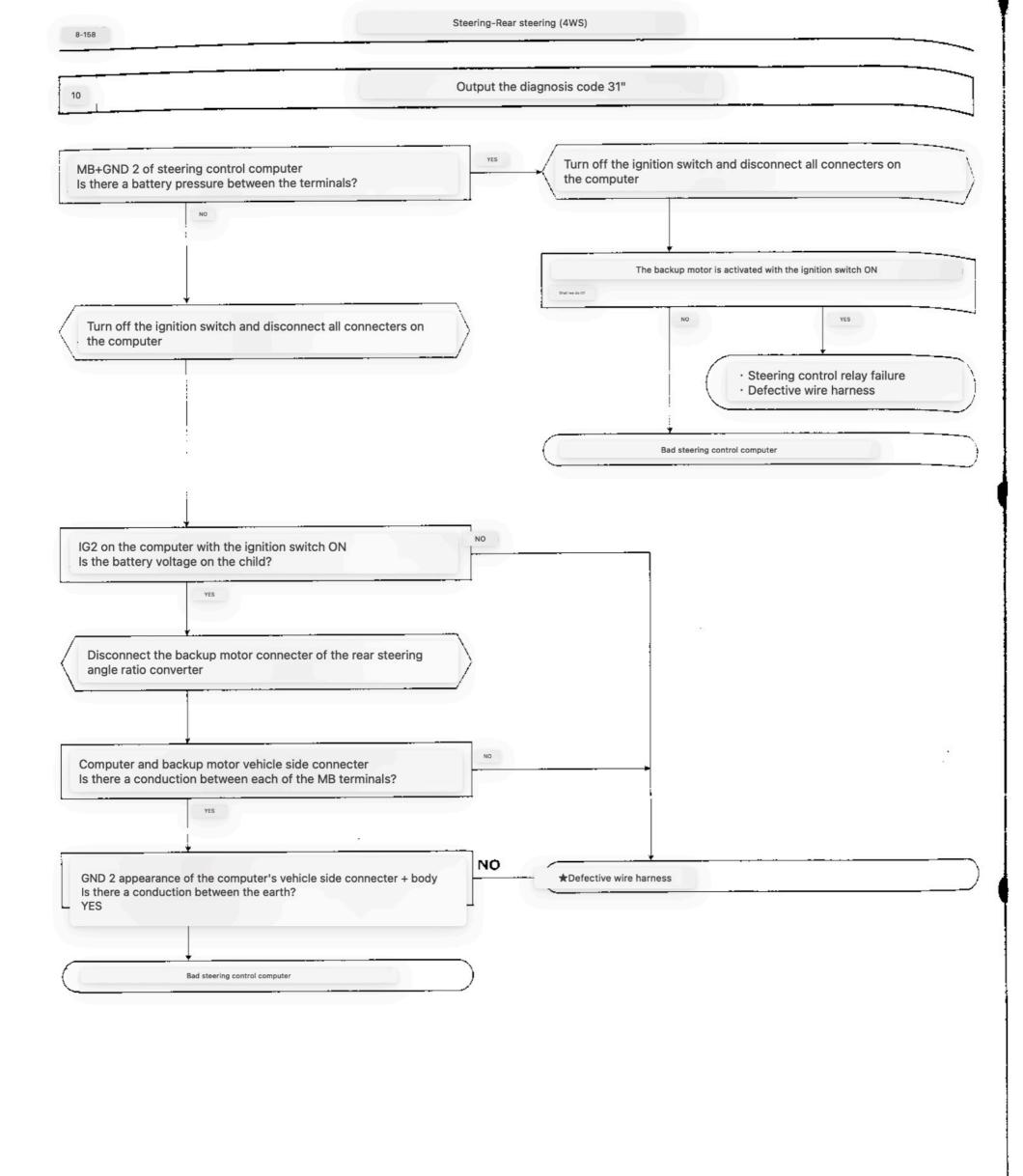
The pressure between the GND1# child + body earth of the computer is

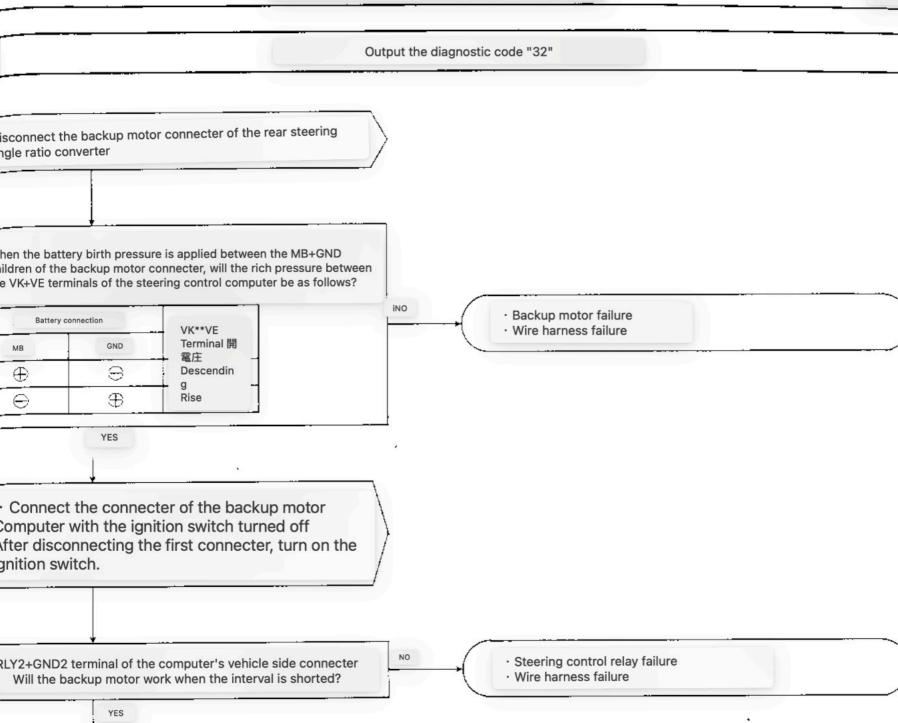
YES





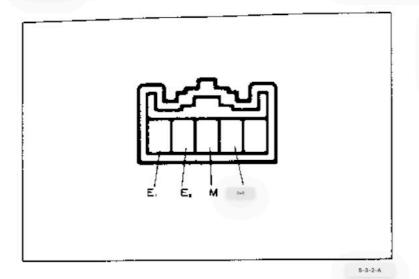






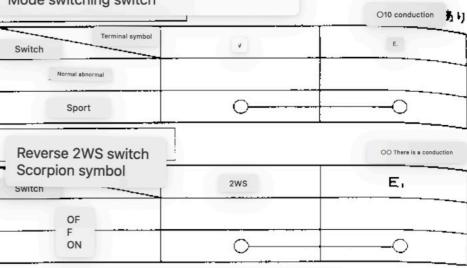
Steering-Rear steering (4WS)

1 Conducting point machine

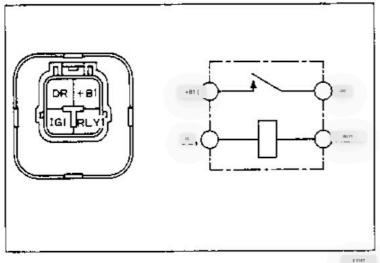


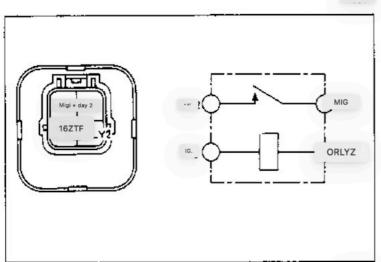
Unit inspection 4-wheel steering switch

Check the alignment between each connecter terminal.
Hua Jun
Mode switching switch



Neutral start switch (A/T)
(Refer to P5-3)
Backup lamp switch (M/T)
(Refer to P11-22)
Speed sensor (in the speed metre)
(Refer to P11-45)
Speed sensor (left front)
(Refer to P7-54)





When the battery pressure is applied between the IG14RLY1 terminals, +B1 \rightarrow 4DR Check the continuity between the terminals.

Standard There is conduct

Conducting point machine

11) Check the normal of each Connecter terminal.

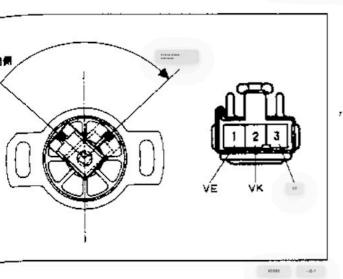
Standard Between IG2++RLY2 terminals · · · · · · There is guidal.

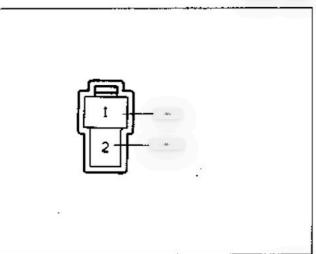
Standard Between IG2++RLY2 terminals · · · · · · There is guidance
+B2→MIG child listening · · · · · No conduction

When the battery voltage is applied between the IG2+RLY2 terminals, +B2→+MI

Point the conduction between the G terminals.

There is a standard conduction



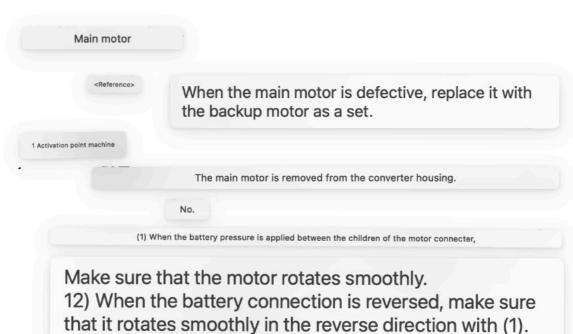


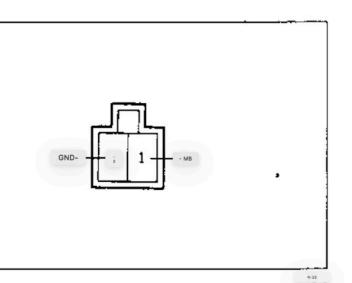
Steering control sensor

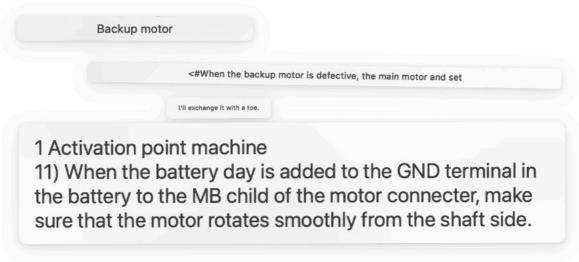
1 Resistance inspection
(1) Measure the resistance between the VC★VE terminals of the sensor connecter.

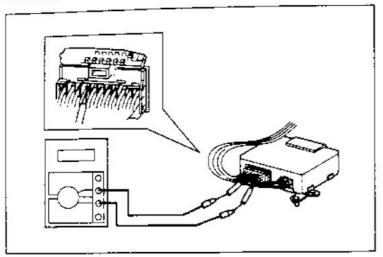
Standard value
When you move the lever of the sensor, make sure that the resistance value between the VRIVE terminals of the connecter changes.

If you move the reference lever to the reverse phase side, the resistance value will increase.









Steering control computer

- 1 Computer inspection
- 11) Remove the lock of the computer connecter.

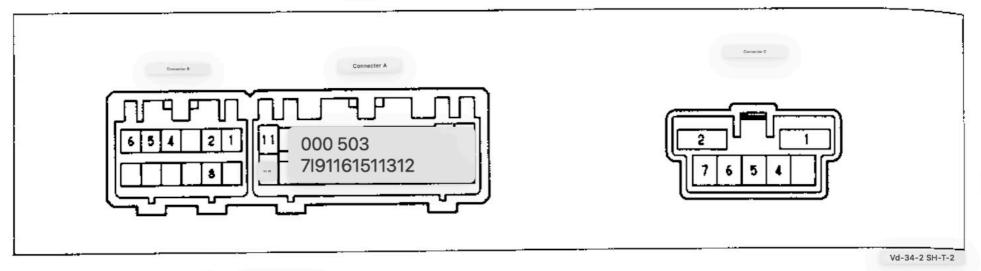
Don't damage the connecter.

: 2) Measure the continuity or voltage between each terminal.



The connecter is checked while connected to the computer.

X 0588



A connecter	继子 春号	Name of the conductor	Retr ative Item	Tester Setsumi Medium + C	. Fixed a	Standard
	1	ВАТ	Pressur 	A1+-A22	Always	10- 14V
		IS	電狂	. A 3 +*A22	Ignition switch OFF→ON "NORMAL"	0V → 1.5V or less (about 2 seconds) →+10~14V
	4	12WS	電圧	A 4 +*A22	Ignition switch OFF→ON (Reverse 2WS switch OFF)	0V → 1.5V or less (about 2 seconds) →10~14V
		8L	Voltage	A5 +*A22	Ignition switch ON, shift position reverse	10-14v
0		SP2+	Hz	A 7 **A18	On the run	"Bar" flashes or lights up
		vc	雞任	A 8 +-A19	Ignition switch ON	3.8-5.0V
					Ignition switch ON (at reverse phase MAX)	3.004.7V
ク		VM and self-	Electric prossure	A 9 +*A19	Ignition switch ON, shift position reverse, reverse 2W5 Switch ON (neutral)	1. 5m2.9V
100	11	ABS	Ha	411+*A22	On the run	"Bar" flashes or lights up
	11 12	IGI	Electric pressure	A12+*A22	Ignition switch ON	10~14V
1	19	RLYI	Voltage	A13* A22	Ignition switch OFF→ON	0V → 10 to 14V (about 1 second) →1.5V or less
A	1	' WARN	電旺	A14-* A22	Ignition switch OFF→ON	0 V-1.5V or less (about 2 seconds) → 10~14V
					Ignition switch ON, reverse 2WS switch	8 -14 V
	15	2WS	World pressure	A15+*A22	Ignition switch ON, reverse 2WS switch ON	1.5V or less
					Ignition switch ON, mode switching switch "NORMAL"	8 ~14V
	16	MODE	電紙	A16+-A22	Ignition switch ON, mode switching switch "SPORT™	1.5V or less
	22	GND1	溝通	A? +Bodeni A ground	Always	There is conduction

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1	SP1	Hz	B1++A22	On the run	"Bar" flashes or lights up
0	MI+	甸庄	82+-88	When the main motor is super intuition (steering wheel straight forward)	0.1-2.0V
4	ММ	Voltage	84 +-A22	When the main motor is salted (neutral → reverse phase)	6.5~11V
	MS	TE	B3+-A22	Ignition switch ON	6. 5-11.5V
6	МР	Electric pressure	B6+* A22	When the main motor is impressed (phase → neutral)	6.5~11V
1	МВ	Teuteu	C1↔ボデー アース	Always	There is sacred sake (with motor resistance)
4	IG2	電圧	C4C7	Ignition switch	10~14V
				Avenition Switch ON	10~14V
5	5 RLY2 TE		C5++C7	Ignition switch ON, unplug the connecter of the motor relay No.1	1.5V or less
	WLP	電圧	C6++C7	Ignition switch OFF→ON	0V → 1.5V or less (about 2 seconds) → 10~14V
0	GND2	Wanteng	G7+ forbidden death	Always	There is a see alread