

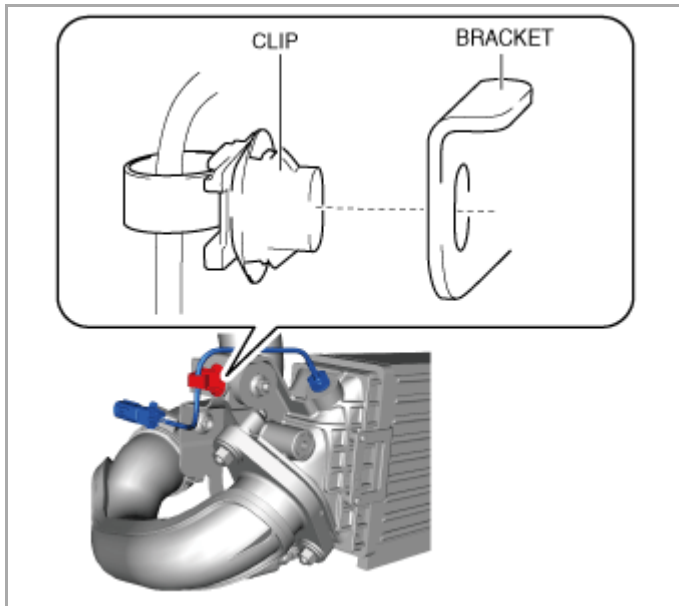
Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2010 MAZDA 6/Atenza Hatchback OEM Service and Repair Workshop Manual

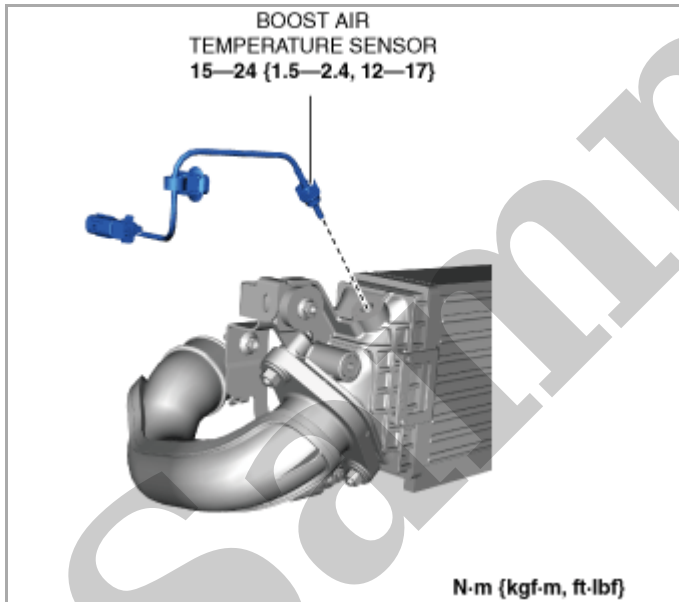
[Go to manual page](#)

Item (definition)	Unit/Condition	Definition
O2_SH_PM_F_CP	–	Oxygen sensor heater monitoring completed / PM filter monitoring completed
O2_SIG_ST_ATO1	–	Oxygen signal status from ATO1
O2_SM_EGSM	–	Oxygen sensor monitoring/exhaust gas sensor monitoring
O2_SM_EGSM_CP	–	Oxygen sensor monitoring completed/exhaust gas sensor monitoring completed
OBD_MCEC	– (Undefined/Not Used)	OBD Monitoring conditions encountered counts
OP_ADC	– (mA)	OP of the ADC
OP_F_ACT_PS	– (Hz)	Output frequency for activation of the power stage
OP_S_FL_H_MM	– (mm, in)	Output signal of the fill level height in mm
PMF_MCCPM	– (Undefined/Not Used)	Filter monitor completion condition counts
PMF_MCEC	– (Undefined/Not Used)	PM filter monitor conditions encountered counts
PMS_A_B1S1	–	PM sensor active status bank 1 sensor 1
PMS_NO_B1S1	– (%)	The PM sensor output value
PMS_O_B1S1_SUP	–	PM sensor operating status bank 1 sensor 1 supported
PMS_O_B2S1_SUP	–	PM sensor operating status bank 2 sensor 1 supported
PMS_R_B1S1	–	PM sensor regen status bank 1 sensor 1
PMS_S_B1S1_SUP	–	PM sensor signal bank 1 sensor 1 supported
PMS_S_B2S1_SUP	–	PM sensor signal bank 2 sensor 1 supported
RDC_PMP_DC_CM	–	Reductant pump duty cycle - commanded
RDCT_INJ_DUCY	%	Reductant injector duty cycle
RDCT_LINE_HEAT	–	Reductant line heater
RDCT_RVDC_CMD	%	Reductant reverting valve duty cycle - commanded
RDCT_TANK_HEAT	–	Reductant tank heater
RE_TANK_LV	%	Reagent tank level
RE_TANK_LV_SUP	–	Reagent tank level supported
REDUCT_INJ_DC	%	Reductant injector duty cycle
REV_VALVE	Off/On	Urea reverting valve
RLA_UR_PMP_PRE	– (hPa)	DEF pump module pressure
RMN_DF_TM_PR_L	– (s)	Remaining defrosting time of the pressure line
RMN_DF_TM_TK	– (s)	Remaining defrosting time of the tank
RMN_ML_DIRC	– (km mile)	Remaining mileage directly based on reducing agent in tank
RMN_TM_SP_DF	– (s)	Remaining time for supply module defrost
RRDC_AG_RMN	– (%)	Remaining quantity of reducing agent
S_LLMD_V2_DNOX	–	State of lin lambda value of 2.downstream NOx sensor
S_STT_HYD_SCR	–	Sub state of hydraulic SCR-system
S_UR_TANK_TMP	°C, °F	Sensed urea tank temperature
SDARS_BSPR_CP	–	Secondary air system monitoring completed/boost pressure system monitoring completed
SDARS_BSTPRE	–	Secondary air system monitoring/boost pressure system monitoring
SPDC_URDC	%	Set-point duty cycle from urea dosing controller
ST_DF_CHK	–	State of the defrosting check
ST_OP_S_PRE_HT	–	Status of output stage pressure heater
ST_OP_S_TK_HT	–	Status of output stage tank heater
STT_HYD_SCR	–	State of hydraulic SCR-system
VOLRDC_AG_RMN	– (l)	Remaining quantity of reducing agent [l]



ac5uuw00008516

7.Remove the boost air temperature sensor.



ac5uuw00008517

8.Install in the reverse order of removal.

dosing quantity (g) : 10 g

dosing mass flow (mg/s) : 30 mg/s

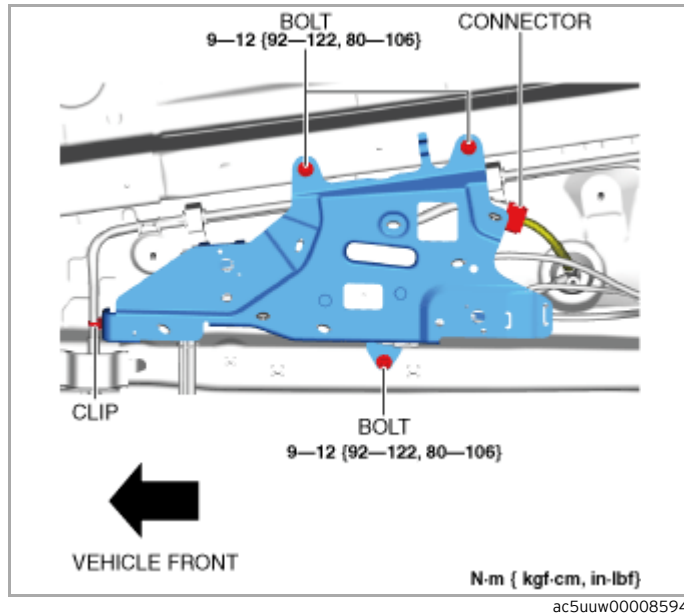
The test result

dosing quantity (g) : 9–11 g

dosing mass flow (mg/s) : 26–34 mg/s

10) Verify that the SCR warning light in the instrument cluster is not turned on.

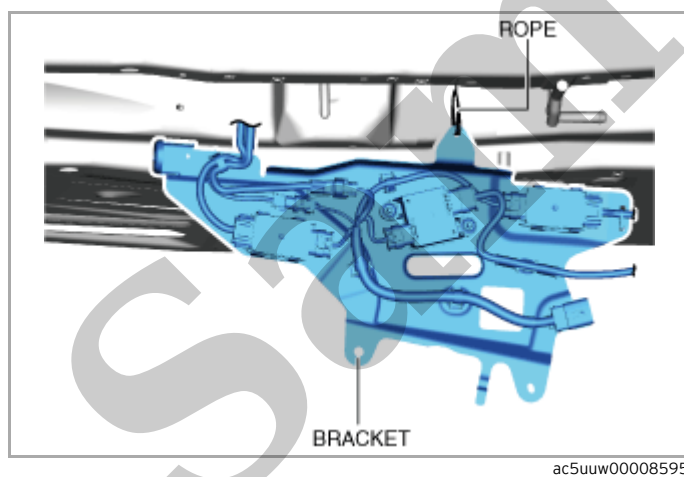
Sample



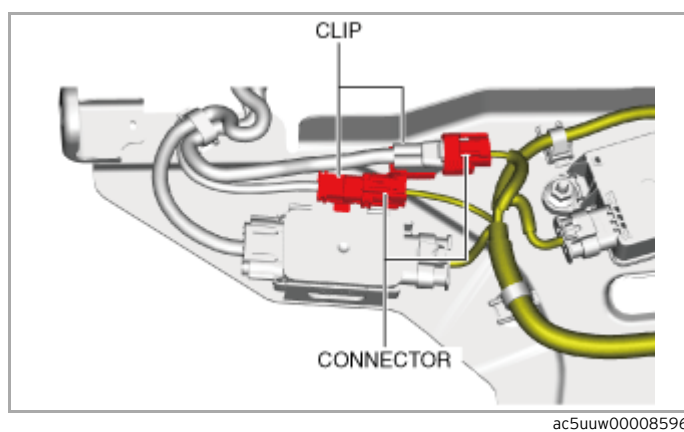
6.Remove the bolts.

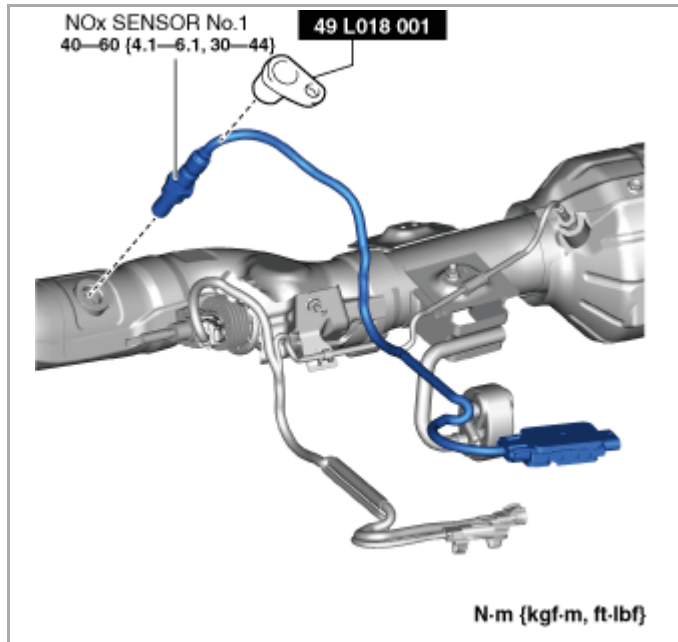
7.Disconnect the connector.

8.Suspend module bracket using a rope as shown in the figure.



9.Disconnect the connectors.





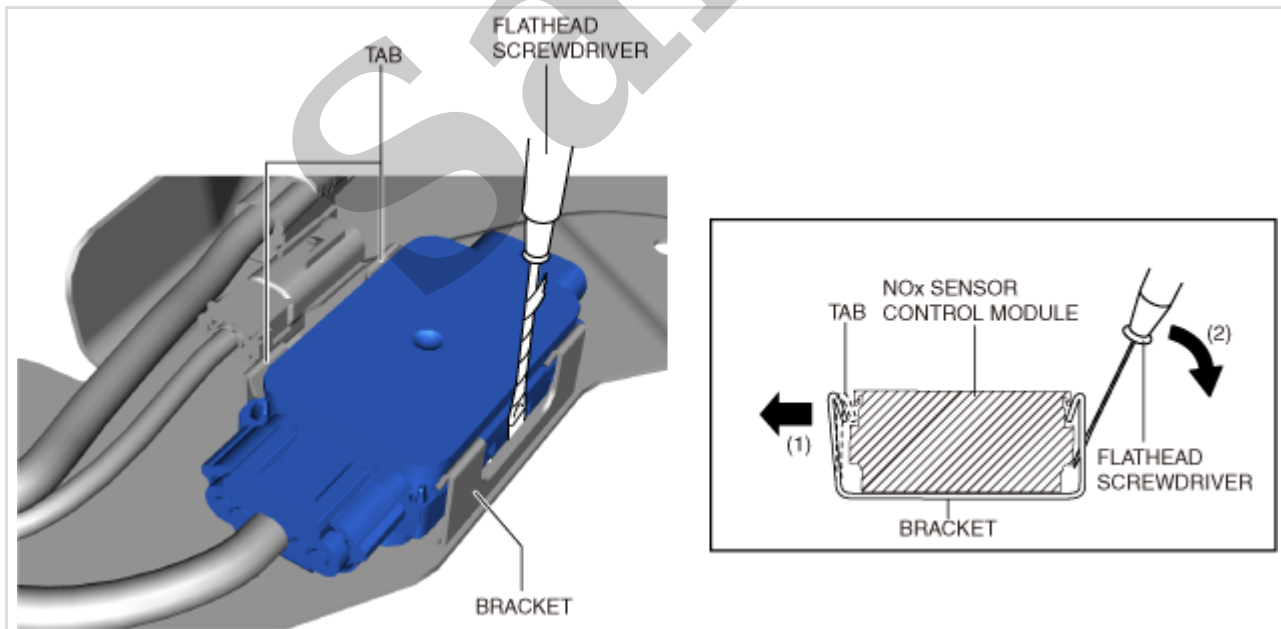
ac5uuw00008601

18. Install in the reverse order of removal.

19. Perform compulsory diesel particulate filter regeneration. (See [COMPULSORY DIESEL PARTICULATE FILTER REGENERATION \[SKYACTIV-D 2.2\].](#))

NOx sensor control module removal note

1. Insert a tape-wrapped flathead screwdriver into the position shown in the figure.



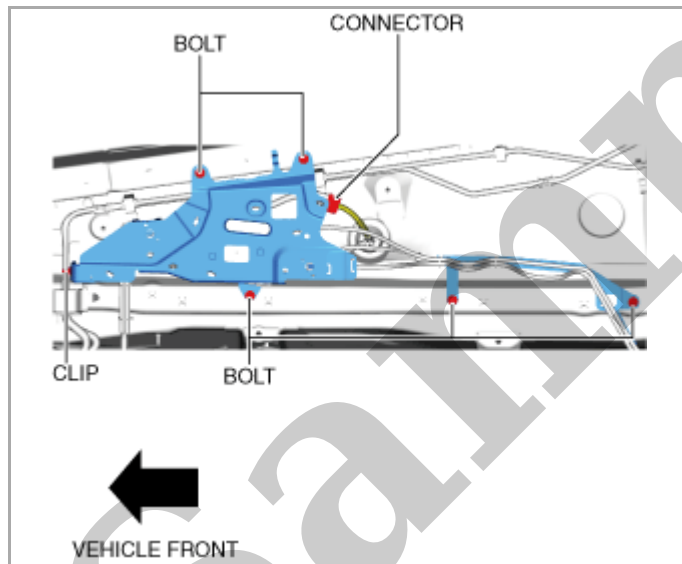
ac5uuw00008602

2. While moving the tab of the bracket in the direction of arrow (1), move the flathead screwdriver in the direction of arrow (2) and detach the bracket tabs from the NOx sensor control module.

- Do not disconnect the connector between the NOx sensor control module and NOx sensor. Otherwise, it could adversely affect the NOx sensor control module.

Removal

1. Disconnect the negative battery terminal. (See [NEGATIVE BATTERY TERMINAL DISCONNECTION/CONNECTION.](#))
2. Remove the floor under cover (LH). (See [FLOOR UNDER COVER REMOVAL/INSTALLATION.](#))
3. Remove the floor under cover No.2 (RH). (2WD) (See [FLOOR UNDER COVER REMOVAL/INSTALLATION.](#))
4. Remove the tunnel member. (2WD) (See [EXHAUST SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\].](#))
5. Remove the clip.

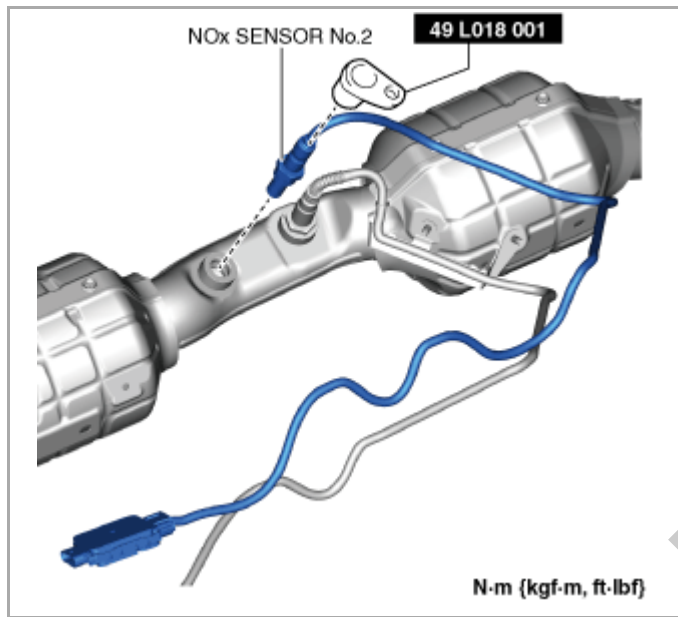


ac5uuw00008607

6. Remove the bolts.
7. Disconnect the connector.
8. Suspend module bracket using a rope as shown in the figure.

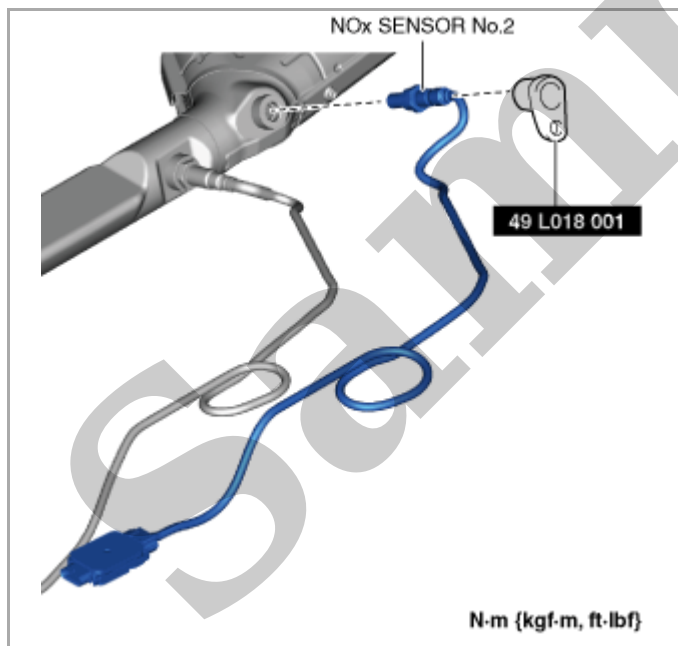
17.Remove the NOx sensor No.2 using the SST.

2WD



ac5uuw00008613

AWD



ac5uuw00008795

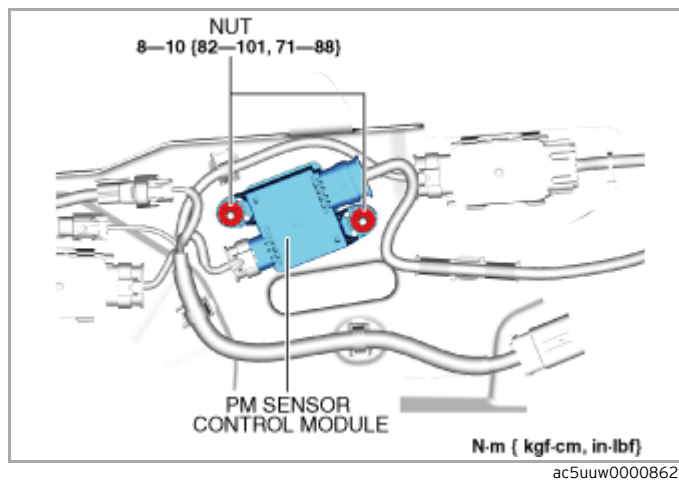
Installation

1.Install the bands. (see [Band installation note.](#))

2WD

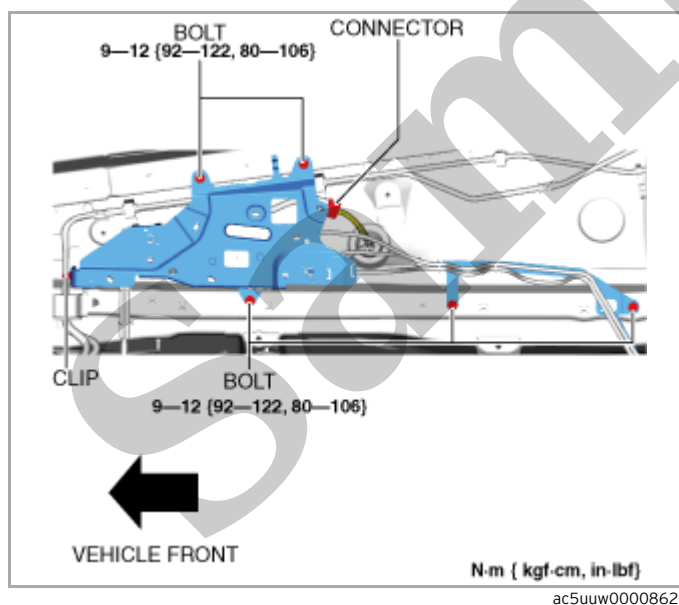
6. Install the NOx sensor control module.

7. Install the PM sensor control module.



8. Install the nuts.

9. Connect the connector.

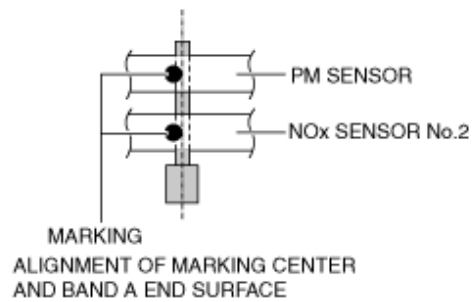
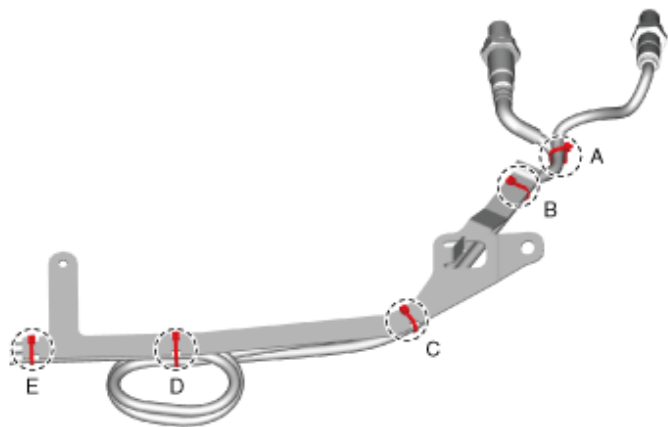


10. Install the bolts.

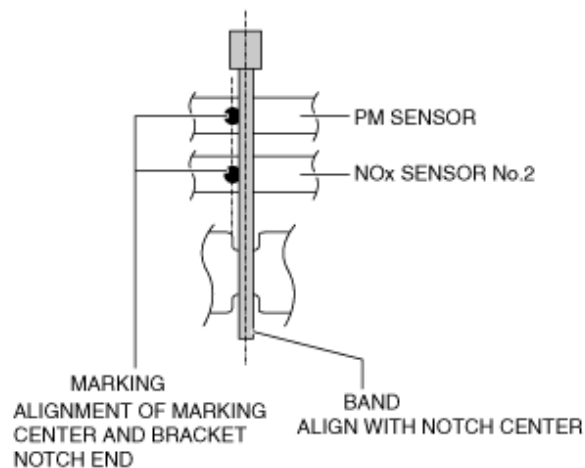
11. Install the clip.

12. Install the tunnel member. (2WD) (See [EXHAUST SYSTEM REMOVAL/INSTALLATION \[SKYACTIV-D 2.2\].](#))

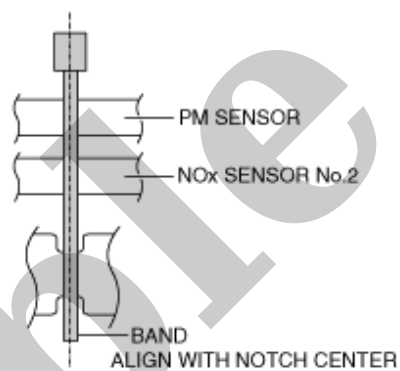
13. Install the floor under cover No.2 (RH). (2WD) (See [FLOOR UNDER COVER REMOVAL/INSTALLATION.](#))



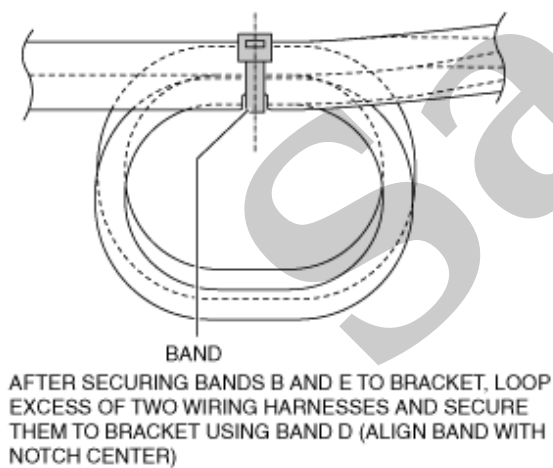
VIEW A



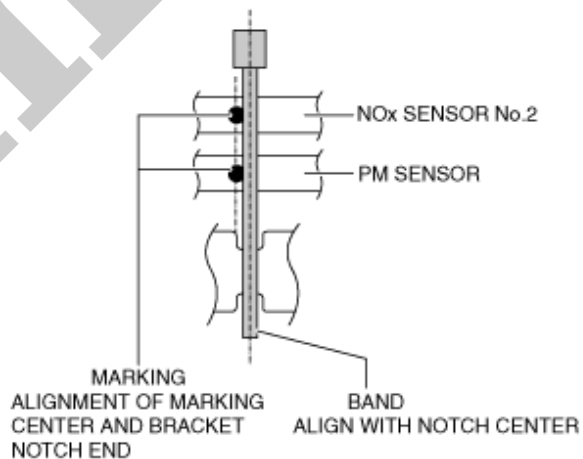
VIEW B



VIEW C



VIEW D



VIEW E