BODY

SECTION BF

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____ Precautions_

- When removing or installing various parts, place a cloth or padding onto the vehicle body to prevent scratches.
- Handle trim, molding, instruments, grille, etc. carefully during removing or installation. Be careful not to soil or damage them.
- Apply sealing compound where necessary while installing parts
- When applying sealing compound, be careful that the sealing compound does not protrude from parts

_____Clip and Fastener_____

• Clips and fasteners in BF section correspond to the following numbers and symbols

| No | Symbol | Shape | Removal & Installation | Location |
|------|---------|---------|---|---|
| C101 | | | Removal Remove by bending up with a flat-bladed screwdriver | Front door trim Back door trim L H rear side trim Side window rear corner molding |
| | SBF092B | SBF109B | SBF094B | |
| C103 | | | Removal Remove with a flat-bladed screwdrivers or plier | Front bumper Rear bumper Dash side finisher Front pillar outer garnish Front floor carpet |
| | SBF110B | SBF111B | SBF112B | |
| C105 | | | Removal Tilt clip as indicated by arrow, then draw out. | ● Luggage floor mat |
| | SBF141B | SBF142B | SBF143B | |
| C106 | | | Removal Remove with a flat-bladed screwdrivers or plier | Door weatherstrip Body side weatherstrip |
| - 1 | | | | |

__ Clip and Fastener (Cont'd)_____

| No | Symbol | Shape | Removal & Installation | Location |
|----------|---------------|------------------------|--|--|
| C107 | SBF 365B | SBF366B | Removal Remove by bending up with flat-bladed screwdrivers. SBF367B | Rear upper side trim Rear lower side trim (2+2 seater) Rear wheelhouse trim (2 seater) Front seat back finisher |
| CS102 | SBF138B | SBF139B | Removal Screw out with a | Fender Protector |
| (CS 105) | SBF374B | SBF375B | Phillips scre wdriver SBF140B | Air inlet grille (Dash upper) Center pillar garnish |
| Œ103 | SBF103B | SBF104B | Removal SBF147B | Door weatherstrip Body side weatherstrip |
| (CF103) | Kicking plate | Body side sill SBF365B | Turn to remove Press-fit to install | Kıckıng plate |

Clip and Fastener (Cont'd)

| No | Symbol | Shape | Removal & Installation | Location |
|--------|---|---------|---|--|
| ©F104) | SBF368B | SBF369B | Removal SBF370B | • Rear trim |
| ©F105 | SBF3718 | SBF372B | Removal: | Spare tire cover |
| ©F106 | 50 | SBF411B | Removal Molding Fastener Panel Flat-bladed screwdriver SBF412B | Back door upper molding |
| (R103) | OB CONTRACTOR OF THE PROPERTY | | Removal | Front door lock system Back door lock system |
| | | SBF106B | SEF1468 | |

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| Note: | | |
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- When removing and installing hood or back door, place a cloth or other padding on hood or back door corners to avoid scratching vehicle body
- When removing clip or fastener, refer to CLIP & FASTENER.
- Apply sealing compound where necessary when installing parts

| - | | _ | | |
|---|----|-------|------------|----|
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| | ro | 1 P L | E11 | LI |

- Hood adjustment Adjust at hinge portion
- Hood lock adjustment After adjusting, check hood lock control operation. Apply a coat of grease to hood locks engaging mechanism.
- Hood opener Do not attempt to bend cable forcibly. Doing so increases effort required to unlock hood.
- Bumper fascia. It is made of plastic, so do not use excessive force and take care to keep oil away from it
- When adjusting or removing/installing hood or removing/installing hood switch, check theft warning system operation

WARNING:

- a. Be careful not to scratch hood stay when installing hood. A scratched stay may cause gas leakage.
- b. The contents of the hood stay are under pressure. Do not take apart, puncture, apply heat or allow fire near it.

Bumper shock absorber inspection

- 1. Check shock absorber for oil leakage, cracks or deformation
- 2. Function of shock absorber.
- Place vehicle in front of a wall
 Apply parking brake and place tire stoppers securely.
- (2) Place a jack between bumper and wall, jack is positioned squarely with bumper directly in line with shock absorber to be checked
- (3) Apply pressure to compress shock absorber at least 10.0 mm (0.394 in).

Use a jack with capacity of more than 600 kg (1,323 lb).

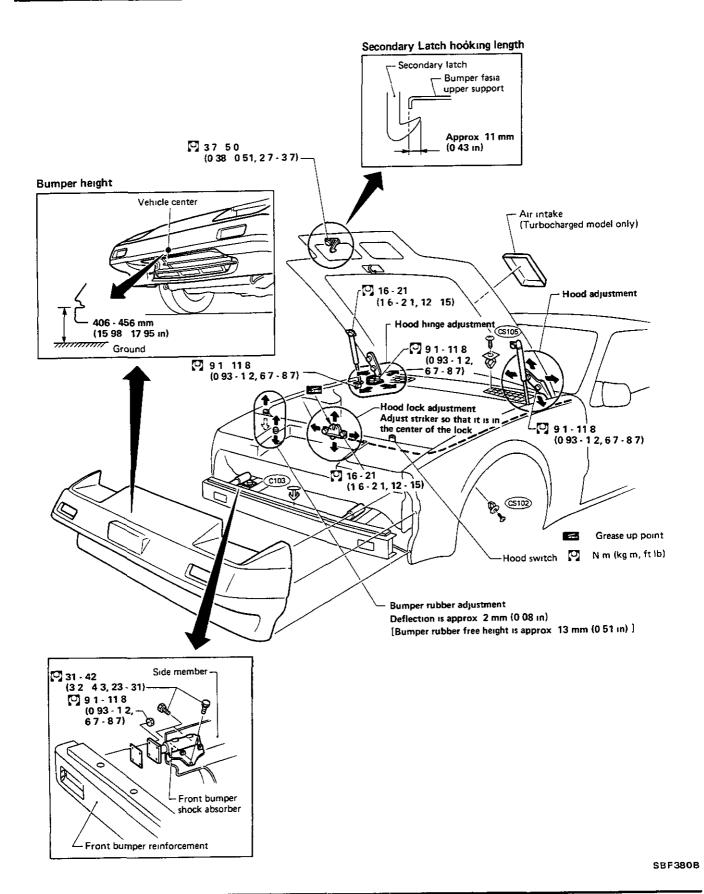
(4) Make sure bumper returns to its original position when jack is retracted. Replace if necessary

CAUTION:

It is not recommended to confirm proper installation by driving into walls or other barriers as this could cause personal injury or damage to the vehicle.

When replacing shock absorbers, make sure they are of the same type and rating, and manufactured by the same maker

_Front End (Cont'd) _

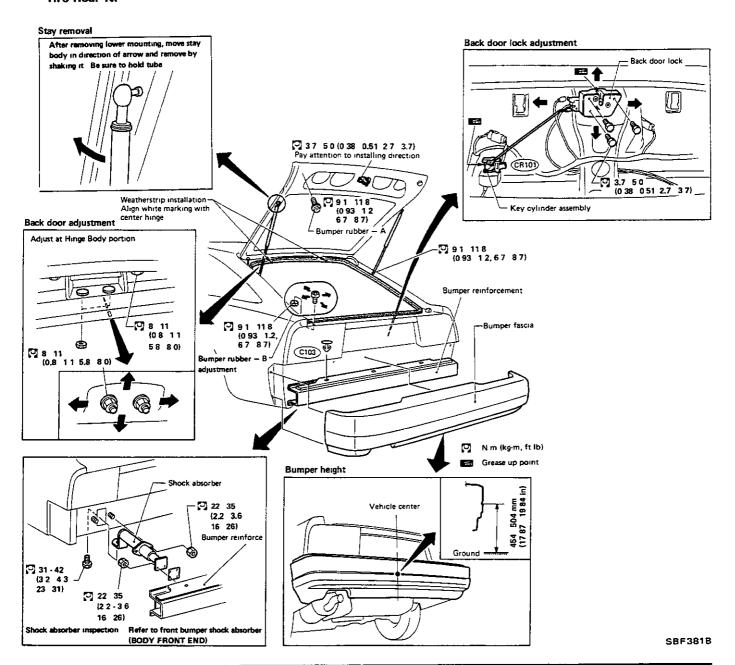


_ Rear End _

- Back door adjustment. Adjust at hinge for proper back door fit
- Lock Adjust lock so that it is in the center of the striker. After adjusting, check back door lock operation
- Bumper fascia. It is made of plastic, so do not use excessive force and take care to keep oil away from it.
- When adjusting or removing/installing back door or removing/installing back door lock system, check theft warning system operation.

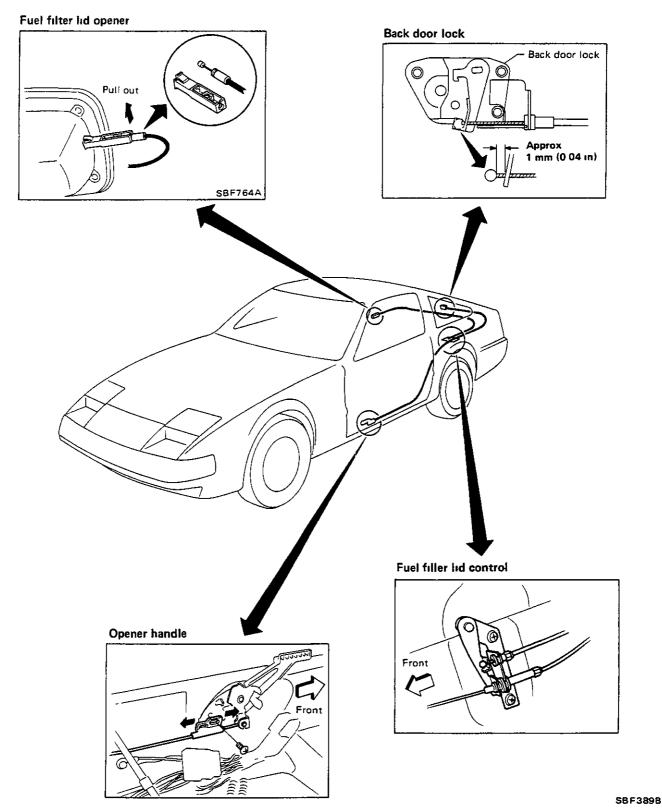
WARNING:

- a. Be careful not to scratch back door stay when installing back door. A scratched stay may cause gas leakage.
- b. The contents of the back door stay are under pressure. Do not take apart, puncture, apply heat or allow fire near it.



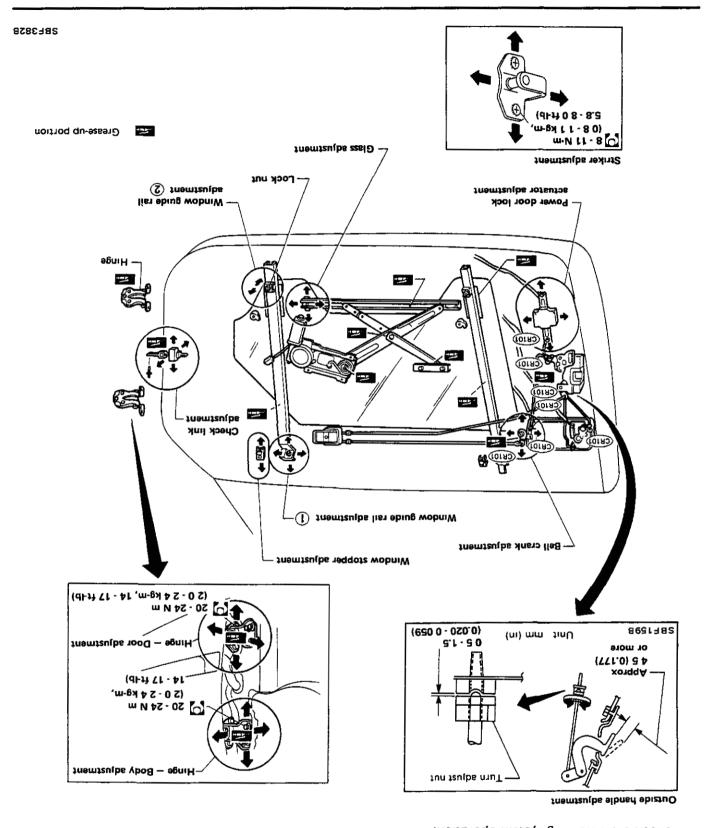
Back Door and Fuel Filler Lid Opener...

- Opener cable Do not attempt to bend cable using excessive force.
- After installation, make sure that back door and fuel filler lid open smoothly



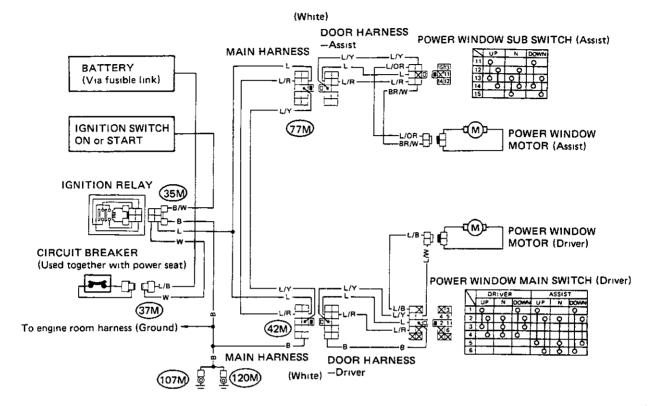
Front Door.

- After adjusting door or door lock, check door lock operation.
- When adjusting or removing/installing door or removing/installing door lock system or door switch,



 $_$ Front Door (Cont'd) $_$

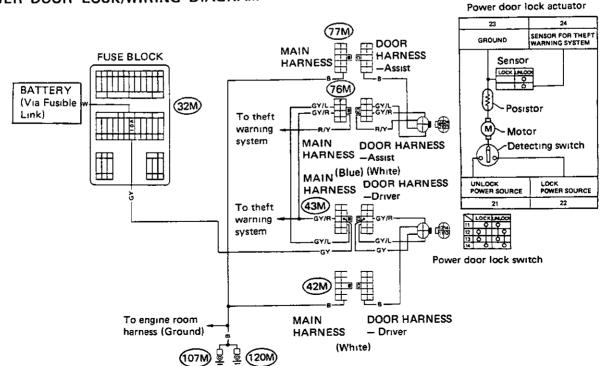
POWER WINDOW/WIRING DIAGRAM



SBF408B

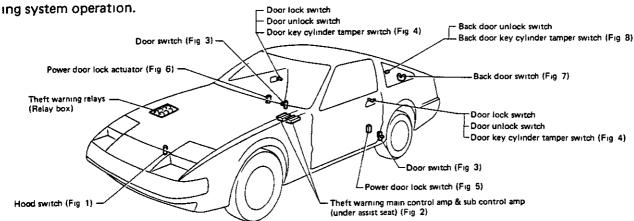
SBF409B



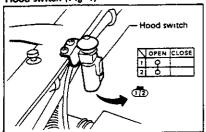


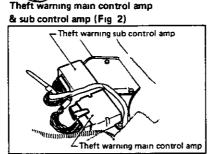
.Theft Warning System _

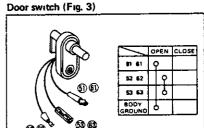
When adjusting hood, front door, back door or removing & installing them or switches, check theft warn-



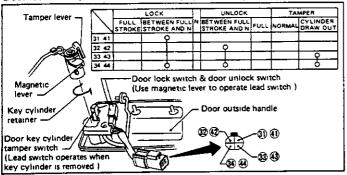


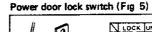


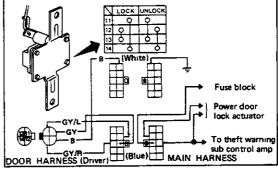


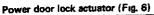


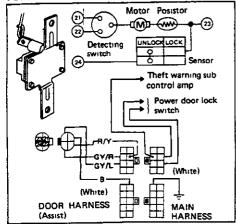
Door lock switch, unlock switch and key cylinder tamper switch (Fig. 4)

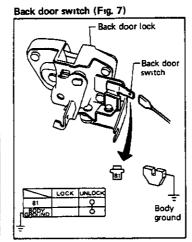




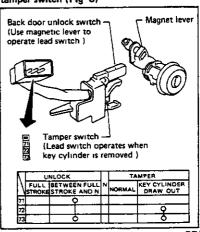








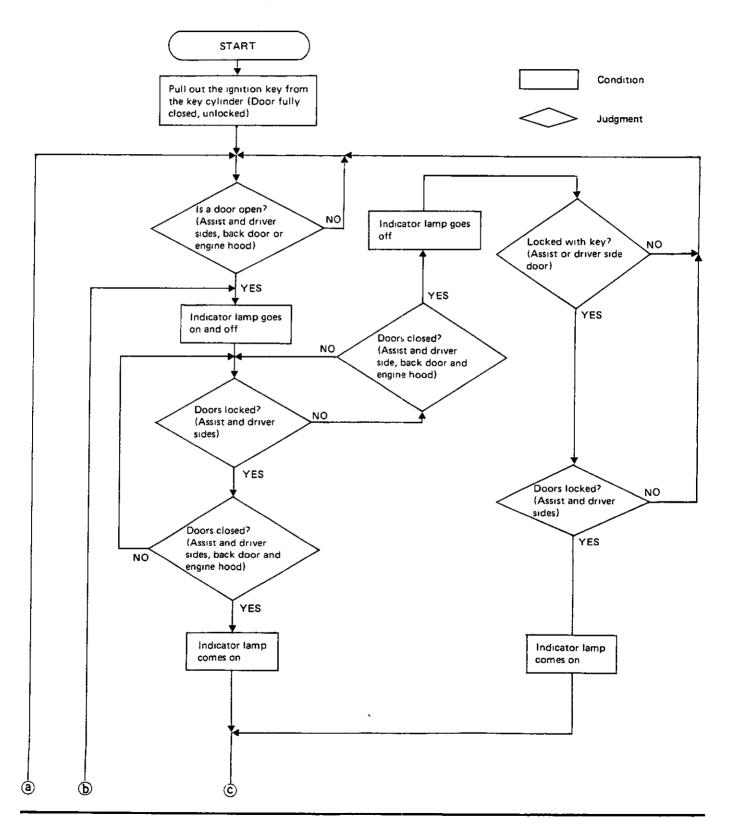
Back door unlock switch & key cylinder tamper switch (Fig. 8)



Theft Warning System (Cont'd) _

SYSTEM OPERATION

If the ignition key is set in the "ACC" position in the course of START to ARMED or in the ARMED state shown in this flow chart, the system operation is cancelled

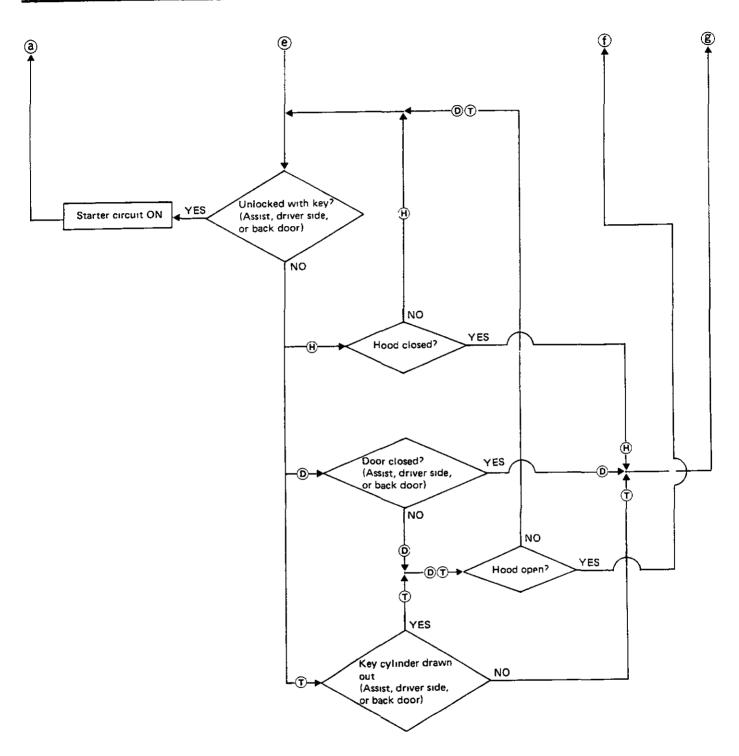


_Theft Warning System (Cont'd) _ Timer in operation 20 - 40 sec Indicator lamp goes Assist or driver side YES door unlocked during timer operation? YES NO Door, back door or engine hood opened during timer operation? Indicator lamp goes NO Doors unlocked YES with key? ARMED (Assist, driver or back door)

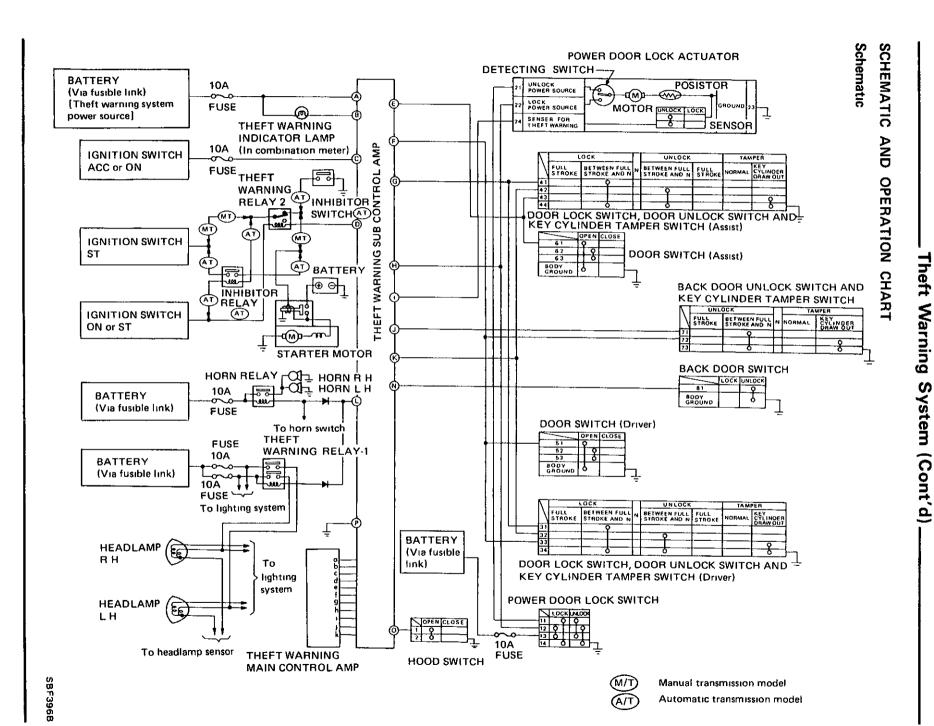
Theft Warning System (Cont'd) (a) NO Key cylinder drawn Door open? NO NO (Assist, driver side, Engine hood open? (Assist, driver side, or back door) or back door) YES YES T YES **(D**(T) Alarm starts Timer in operation 2 - 4 min Unlocked with key during timer YES Alarm stops operation? (Assist, driver side, or back door) NO Alarm stops Starter remains OFF

BF-15

Theft Warning System (Cont'd)



- (H) Alarm actuated by opening hood
- Alarm actuated by opening any door
 (Driver, assist side, or back door)
- Alarm actuated by drawing out any key cylinder (Driver, assist side, or back door)



| Theft Warning System (Cont'd) |
|-------------------------------|
|-------------------------------|

Operation chart

| | | | | | Sensor operat | on (O opera | tes X does n | ot operate - | not affected |) | |
|------|---|--|---|--|---------------------|---|---------------------|---------------------------|-----------------------------|---------------------------|---------------------|
| | | | | Driver side door SW | | Assist sidi | e door SW | Back d | oor SW | Hoo | d SW |
| Step | Disarmed phase Indicator lamp OFF Disarmed phase Indicator lamp goes ON and OFF (B) terminal voltage is changed to approx 1 5V and 12V alternately } Ready phase (Theft warning set) Indicator lamp goes ON for 20 40 sec (If a door hood or back door is opened in this phase is extended accordingly } Armed phase | Condition (The items for each step must all be fulfilled.) | tgnitian SW OFF | ON (Door open) | OFF (Door close) | ON (Door open) | OFF (Door close) | ON (Back door open) | OFF (Back door close) | ON (Hood open) | OFF (Hood close |
| | | | . | F - Grounded | F - Not grounded | € – Grounded | E - Not grounded | N - Grounded | N - Not grounded | @ - Grounded | O – Not grounded |
| 1 | | Ignition SW OFF | 0 | х | Э | × | 0 | × | 0 | × | 0 |
| ② | Indicator lamp goes ON and OFF | Ignition SW OFF Open door bood or back | | (0) | (X) | (0) | (x) | (0) | (X) | (0) | (x) |
| (Z) | is changed to approx 1 5V and 12V | door | Ū | At lea | st one of the s | witches for d | river side door | ässist side di | oor back doo | or bood turn | ns ON |
| | (Theft warning set) • Indicator lamp goes ON for 20 40 sec (If a door hood or | | 0 | × | 0 | × | o | × | 0 | × | o |
| | back door is opened in this phase the time of | (Type 2) Close & lock | At least one of the switches for driver | | | | | - - | | | |
| | accordingly } Armed phase | hood back door and assist door and then lock & close driver door without key | o | OFF after | ocking | × | 0 | × | • | x | 0 |
| 3 | | | | | | × - | 0 | | · | | f |
| | approx 1.5V for 20 40 sec and then approx 12V by a timer | Type 3 Close & lock hood back door and driver door and then close & lock assist door without key | 0 | × | 0 | The door so turn OFF a without ke | fter locking | x | 0 | × | o |
| | approx 12V by a timer | Type 4 Clase & lock doors | - - | | | | | (x) | (0) | (x) | (0) |
| | | and hood (or back door) and then close back door (or hood) | 0 | × | 0 | , x | 0 | | ng & closing of back door (| doors and hoo or hood) | d (or back |

| Theft \ | Warning S | System | (Cont'd) |) |
|---------|-----------|--------|----------|---|
| Theft \ | Warning S | System | (Cont'd) |) |

| | | | Sens | or operation (| O operates | X does not operate | not affected) | | | | |
|---|-----------------------------------|---|--------------------|--|--|---|-----------------------------------|--|---|---|---|
| Driver side door lock SW | Assist side door lock SW | i | door lock SW | 1 | door lock uator | Driver side dogr unlock SW | Assist side door unlock SW | Back door unlock SW | Driver door key cylinder tamper SW | Assist door key cylinder tamper SW | Back door key cylinder tamper SV |
| DFF →ON →OFF (Lock with key) | OFF → QN → OFF (Lock with key) | Lock | Unlock | Sensor OFF (Lock) | Sensor ON (Unlock) | OFF →ON →OFF (Unlock with key) | OFF-ON-OFF (Unlock with key) | OFF →ON →OFF (Unlock with key) | ON (Key cylinder draw out) | ON IKey cylinder draw out) | ON (Key cylinder draw out) |
| G Not ground ed → Grounded → Not grounded | + | H – 12V current flows | H – Grounded | 1 - Not graunded | ①- Grounded | K - Not ground ed → Grounded Not grounded | ← | J — Not ground ed → Grounded →Not grounded | F – Grounded | € – Grounded | F – Grounded |
| _ | - | - | - | - | | | | <u> </u> | <u>-</u> | _ | _ |
| 1 | - | - | | _ | - | _ | - | - | - | + | - |
| (0) | (0) | 0 | х | 0 | × | × | | | | | |
| After the doors hood and back door are closed one or both door lock Switches operates to lock the doors Operates after the doors are locked | | | | | | , | × | × | × | × | × |
| × | - - | After assist hood SW a door SW tu lock driver out key | nd back irn OFF | 0 | × | × | x | x | х | × | × |
| - | x | 0 | x | After driver hood SW & SW turn OF power door in the lock lock assist cout key | back door F and lock SW is position | x | × | x | x | x | × |
| | | | | | × | х | × | × | × × | | |

Theft Warning System (Cont'd)

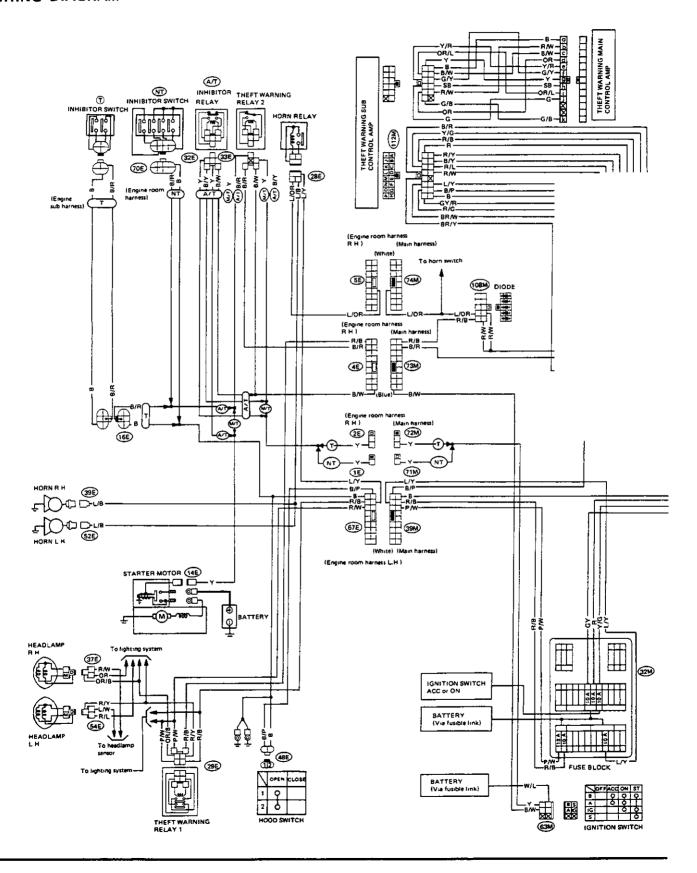
| ⊗ | (A) - (P) are the theft warning sub confre | sub control AMP terminals (Refer to Wiring Diagram) | падгат} | | | | | | | | |
|----------|---|--|--------------------|------------------------|------------------------------|---------------------|---|---------------------------|-----------------------------|------------------------------------|------------------------------------|
| | | <u> </u> | | " | Sensor operation (O operates | on (O operate | × | does not operate - | not affected) | | |
| | , | 1 | | Driver side door SW | door SW | Assist side door SW | door SW | Back door SW | or SW | Hood SW | sw |
| Step | System operation | Condition [The items for each step must all be fulfilled } | Ignition SW OFF | ON (Door open) | OFF (Door close) | (Door open) | OFF (Door close) | ON (Back door open) | OFF (Back door close) | ON OFF (Hood open) (Hood clase) | OFF (Hood clase) |
| | | | | (F) - Grounded | (F) - Not grounded | E - Grounded | (E) — Not grounded | ® – Grounded | (N) - Not grounded | © – Grounded | ○ − Not grounded |
| | Alarm phase Horn sounds inter mittently | | | (ô) | × | (0) | ŝ | (0) | (X) | | |
| | (C) is grounded intermitation the sub- control AMP) Head lamp (Dimmer) (flashes ON and OFF (C) is grounded inter- | Ignition SW OFF (Type) Open doors or back door without key | • | At least on door turns | e of the switch | les for the dri | At less one of the switches for the driver side door assist side door or back door turns ON | assist side do | or or back | × | 0 |
| • | control AMP) Starter motor can not operate ((i) is grounded in the main control AMP via the sub control AMP) | (Type 2) Open hood | 0 | × | ° | × | 0 | × | 0 | 0 | × |
| | Warning by the horn and head famps is given for 2. 4 min, and is then stopped by a timer. If the same input signal is received again, the same warning is given again Also, the starter motor can not operate until a signal from the key cylinder. | (Type 3) Draw out key cylinder at doors or back door | 0 | × | , ° | × | 0 | × | • | × | 0 |
| | | | 8 | <u>ō</u> | × | Ō. | £ | ĝ | ŝ | 0 | ŝ |
| | | Reset | | | | | | | | | |
| 9 | Asset | • (Type 2) — Armed phase to Reset | × | × | 0 | × | • | × | o | × | 。 |
| | | • (Type 3) - Alarm phase to Reset | | | | | | ı | 1 | | ı |
| | | | | - | | | | | | | |

Theft Warning System (Cont'd)_____

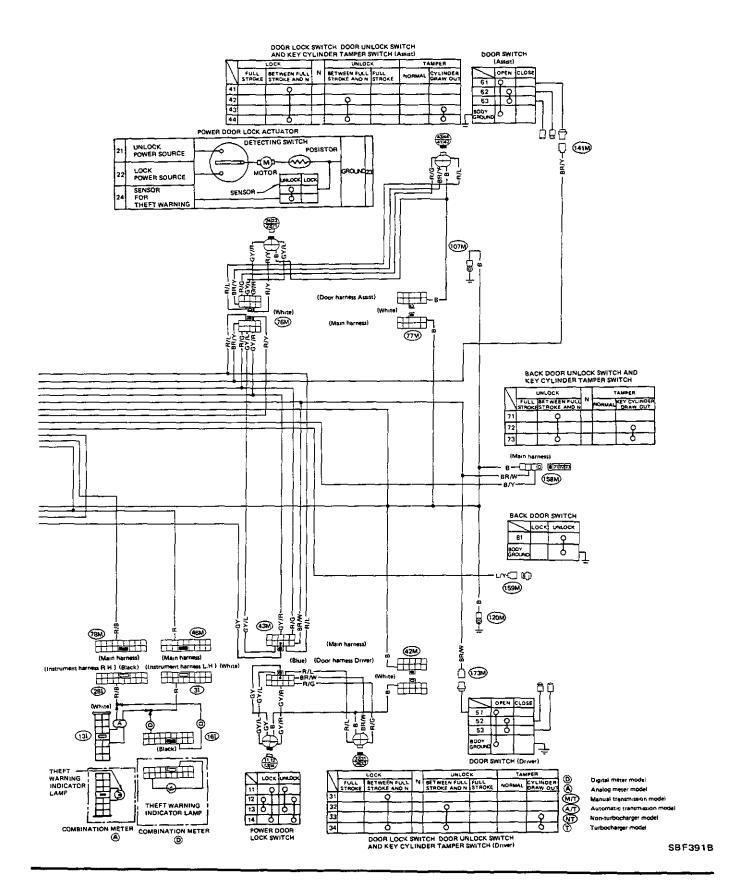
| | | | Senso | or operation (| O operates > | does not operate | not affected) | | | | | |
|---|-------------------------------|---------------------------------------|---|-------------------------------|--------------------------------|---|---|---|---|---|---|--|
| Driver side door lock SW | Assist side door lock SW | | loor lock W | | loor lock later | Driver side door unlock SW | Assist side door unlock SW | Back door unlock SW | Driver door key cylinder tamper SW | Assist door key cylinder tamper SW | Back door key cylinder tamper SW | |
| OFF →ON →OFF (Lock with key) | OFF→ON→OFF (Lock with key) | Lock | Unlock | Sensar OFF (Lock) | Sensor ON (Unlock) | OFF →ON → OFF (Unlock with key) | OFF→ON→OFF (Unlock with key) | OFF →ON →OFF (Unlock with key) | ON (Key cylinder draw out) | ON (Key cylinder draw out) | ON (Key cylinder draw out) | |
| G ← Not ground ed → Grounded → Not grounded | + | H - 12V current flows | H – Grounded | 1 - Not grounded | ① – Grounded | K — Not ground ed → Grounded → Not grounded | 4- | → Not ground ed → Grounded → Not grounded | F – Grounded | E – Grounded | F – Grounded | |
| | | (x) | (0) | (x) | (0) | | · · | | ' | | | |
| - | - | | or both the po door lock actu osition | | | × | × | × | х | x x | | |
| | - | 0 | × | 0 | x | × | x | × | x | x | × | |
| | | | | | | | | | (0) | (0) | (0) | |
| - | _ | 0 | × | O | × | × | x | × | | e of the key o | | |
| <u>.</u> | - | (x) | (0) | (x) | (0) | (0) | (0) | (0) | | | | |
| | | At least on unlock do switch ON | or unlock swit | s for the ignit ch ON back | ion switch AC door unlock s | CC power door lock witch ON door switt | switch unlock, power thes ON back door s | r door lock actuator witch ON or hood | x | × | × | |
| | | | | | | (0) | (0) | (0) | | | | |
| | | <u> </u> | _ × | 0 | × | | signals for the igniti back door unlock SV | | × | × | × | |
| | · - | | | - | | (0) | (0) | (0) | | | | |
| - | _ | - | - | - | _ | At least one of the back door unlock | switches for the do- | or unlock and | - | - | _ | |

.Theft Warning System (Cont'd)_

WIRING DIAGRAM



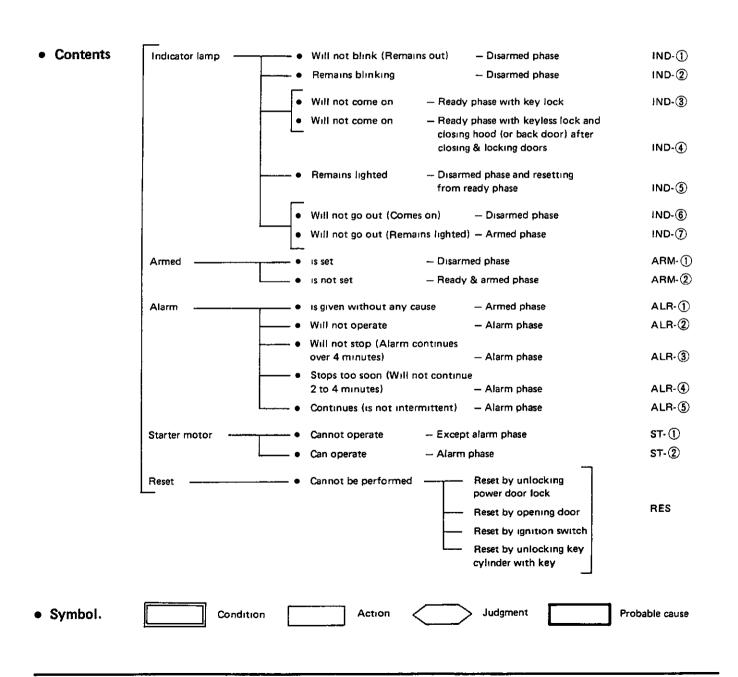
Theft Warning System (Cont'd)



. Theft Warning System (Cont'd) .

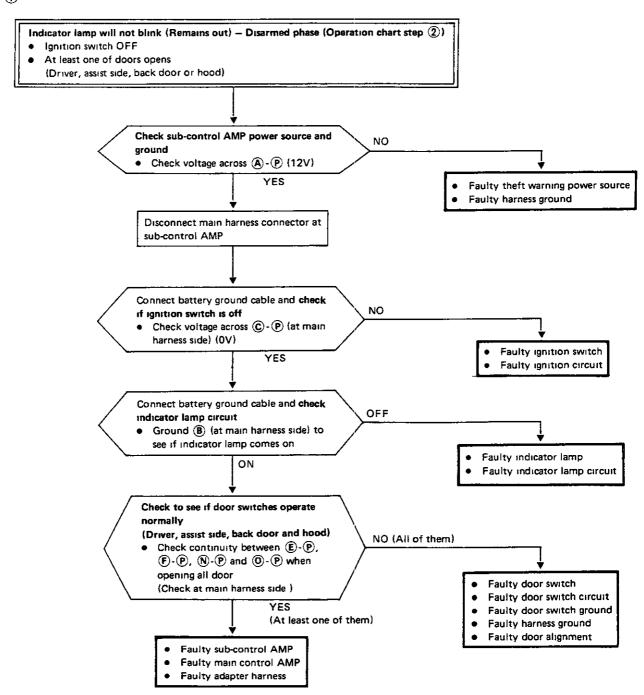
TROUBLE-SHOOTING

- When disconnecting the main harness connector, as instructed in this trouble-shooting, always be sure to remove the battery ground cable first
- In trouble-shooting, if the cause of trouble is found to be due to the "Faulty sub-control AMP" or "Faulty main control AMP", be sure to refer to "Controller inspection"
- A through P indicate the respective terminals of the main harness connector (refer to Wiring Diagram)
- The term "door" indicates the driver door, assist side door, back door, and hood, unless otherwise specified.
- The term "alarm" means that the horn sounds intermittently and the headlamps blink



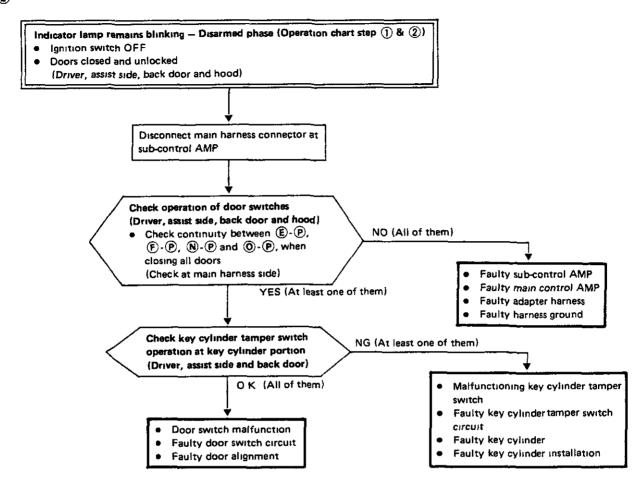
Theft Warning System (Cont'd) .

IND-(1)



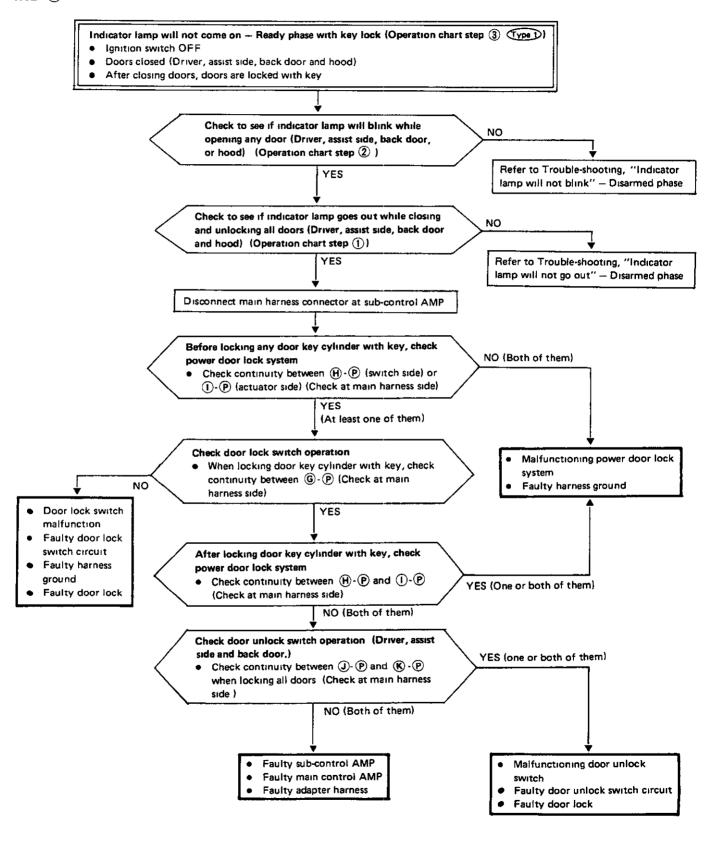
Theft Warning System (Cont'd) _

IND-2



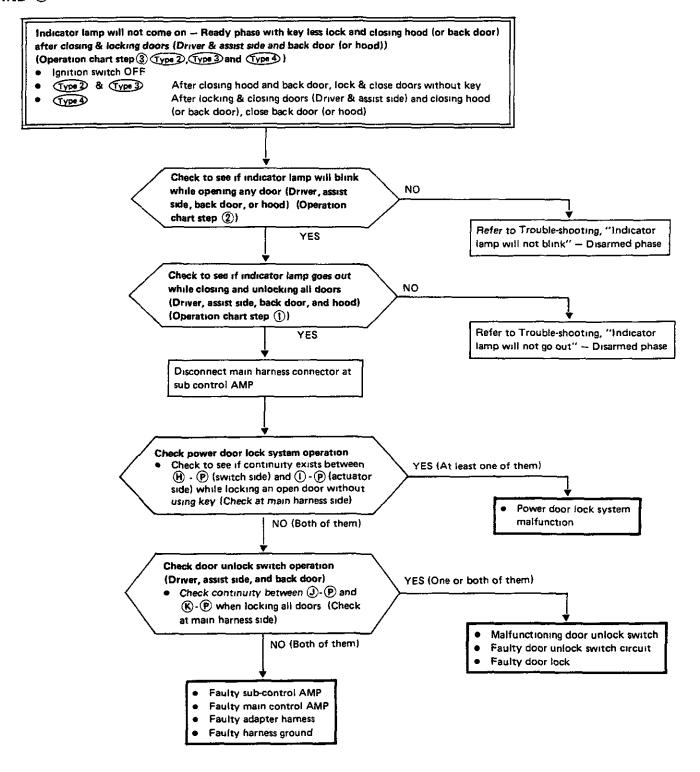
Theft Warning System (Cont'd).

IND-(3)



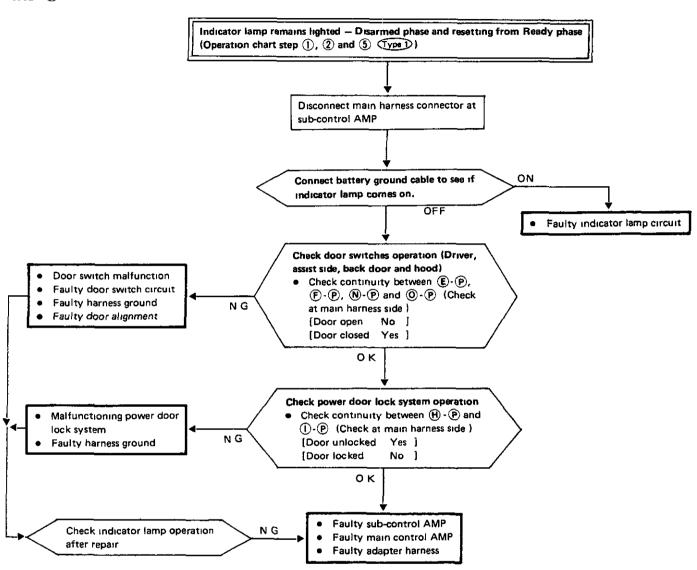
Theft Warning System (Cont'd) ____

IND-4



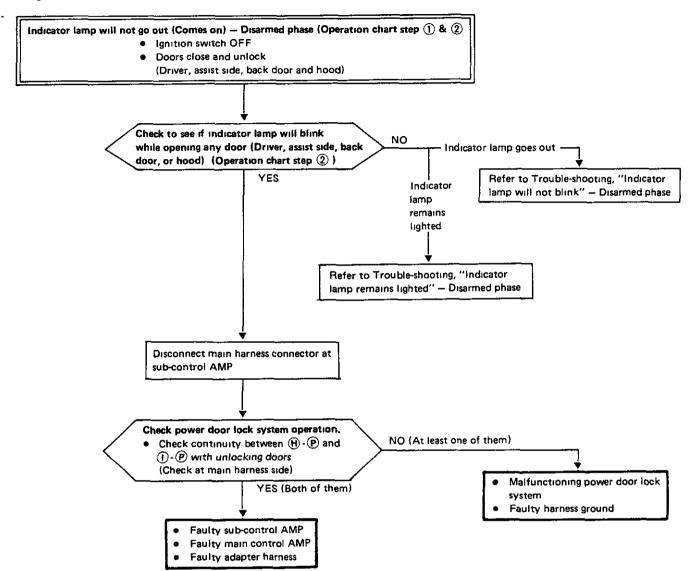
_____ Theft Warning System (Cont'd) _____

IND- (5)



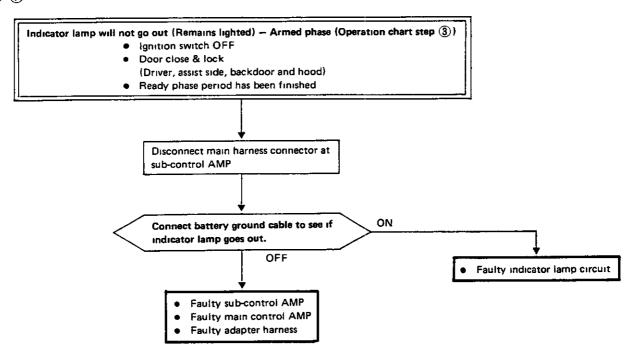
.Theft Warning System (Cont'd)_

IND-6

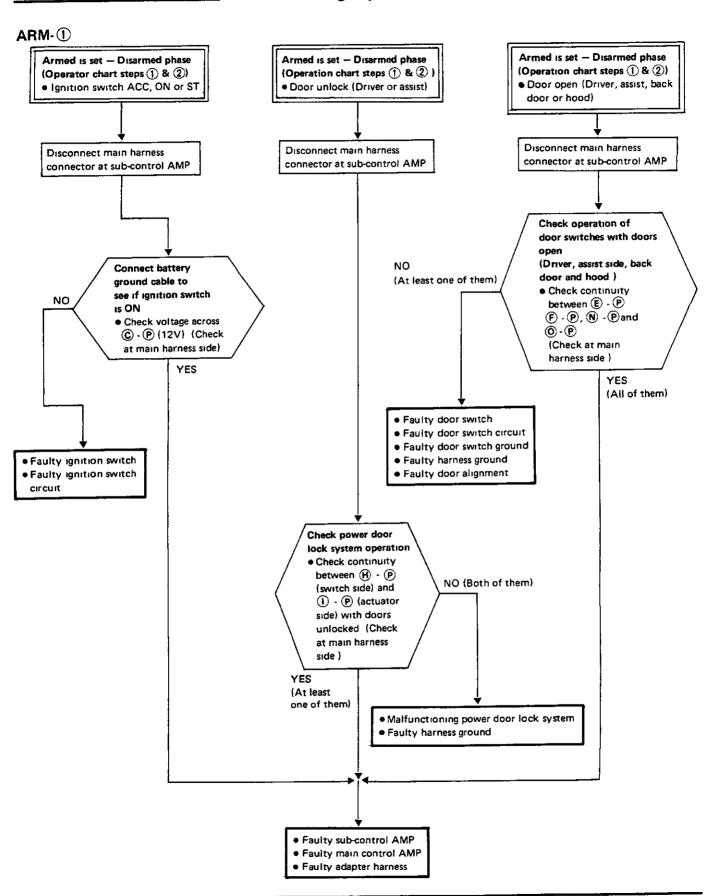


Theft Warning System (Cont'd)_____

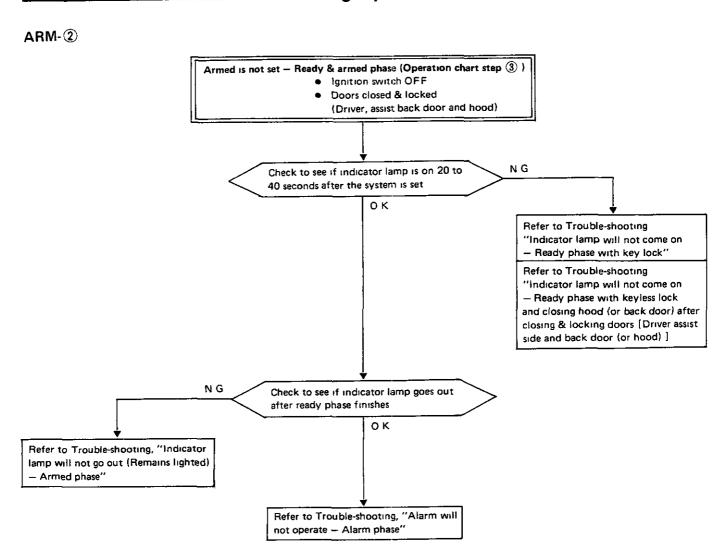
IND-7



Theft Warning System (Cont'd)

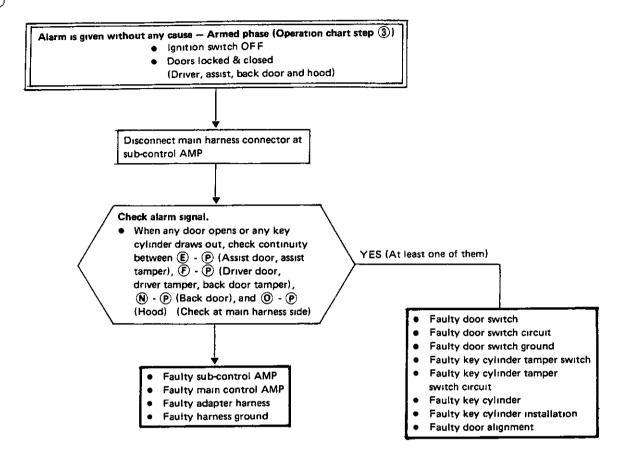


_ Theft Warning System (Cont'd)_____



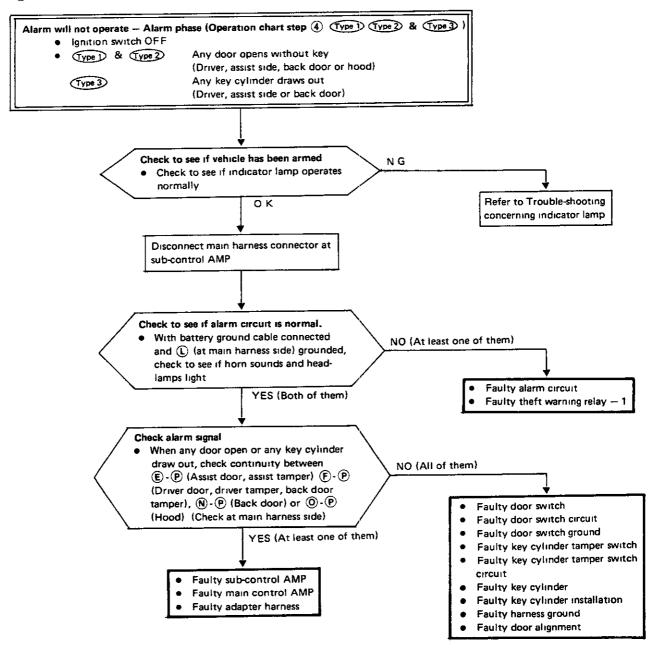
Theft Warning System (Cont'd) _

ALR-①



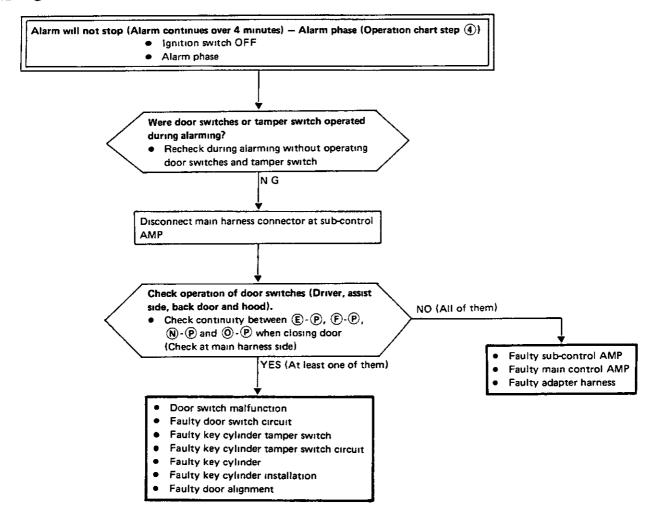
Theft Warning System (Cont'd)_

ALR-2



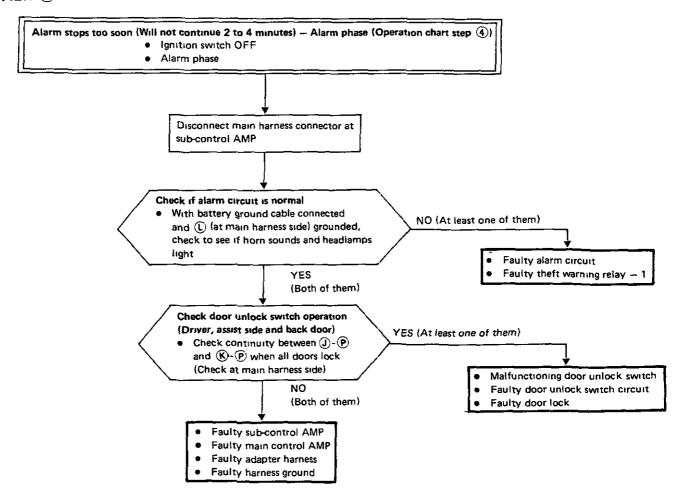
Theft Warning System (Cont'd) ____

ALR-3



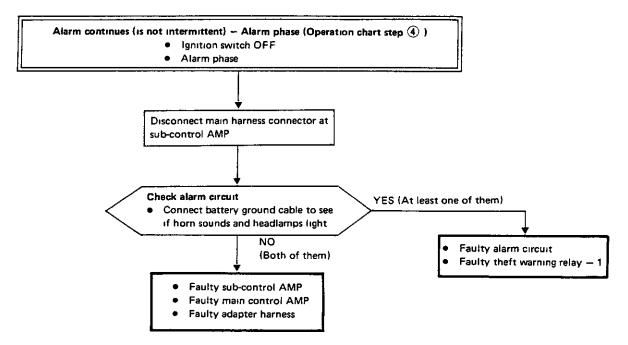
Theft Warning System (Cont'd)

ALR-4



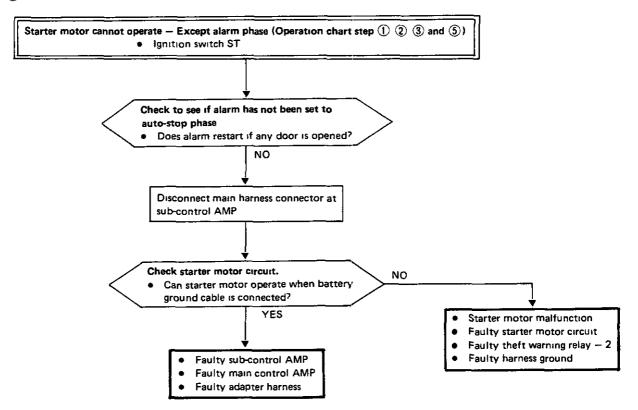
Theft Warning System (Cont'd)_

ALR-⑤

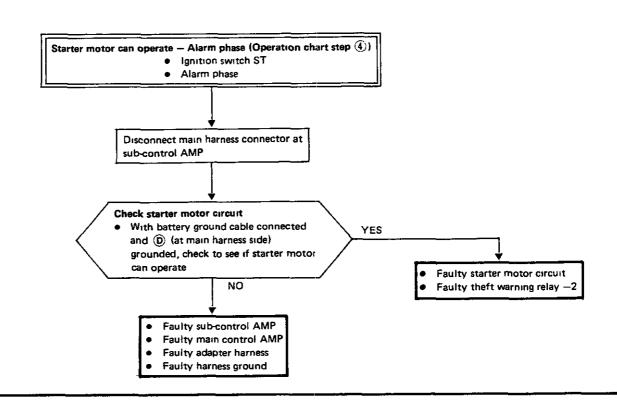


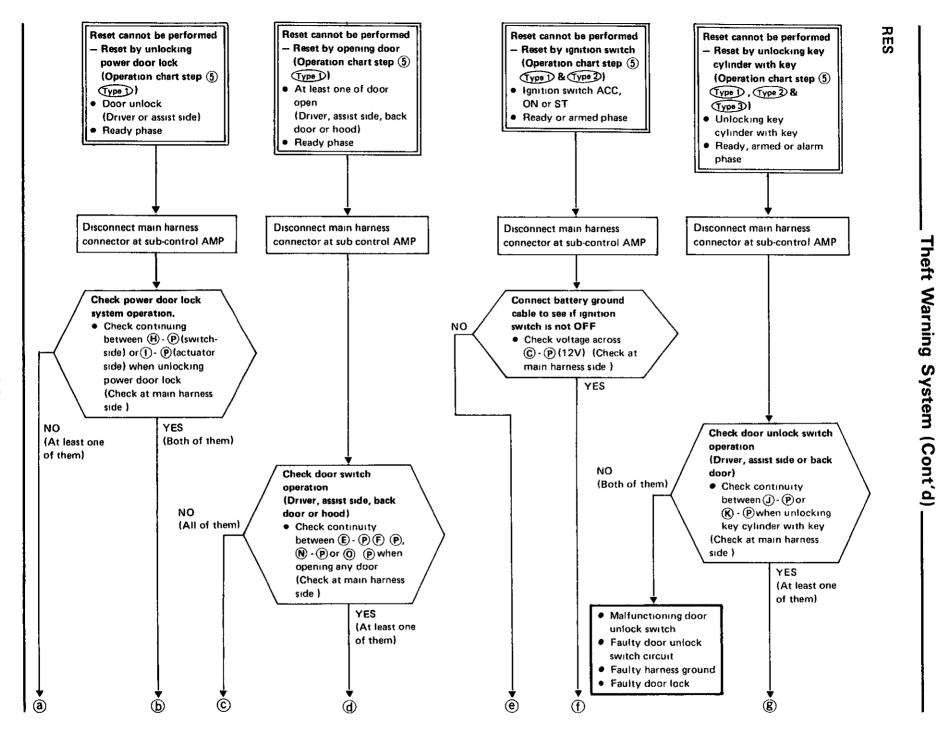
Theft Warning System (Cont'd) _

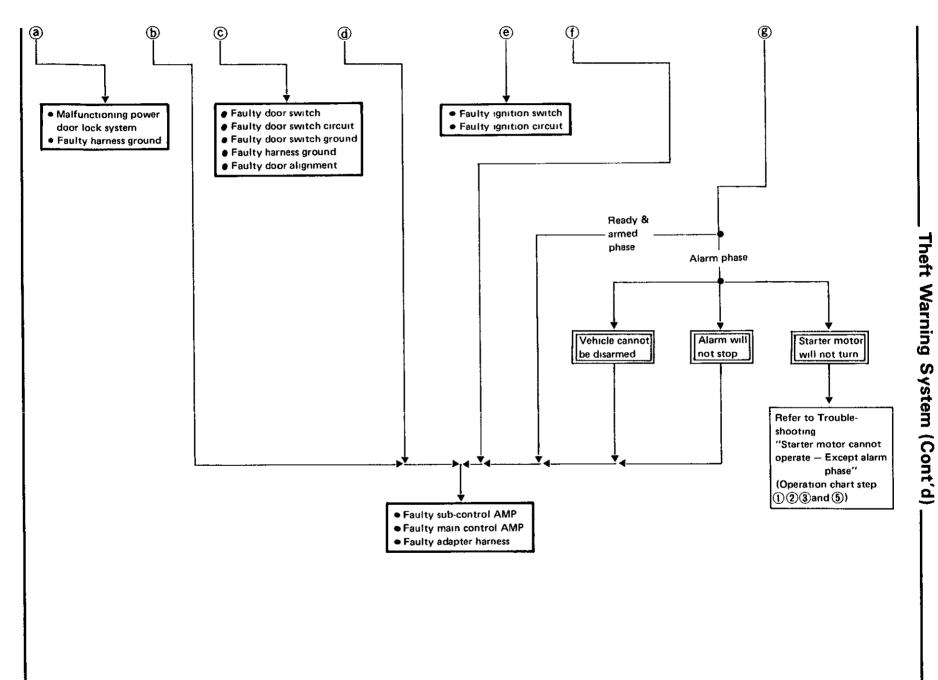
ST-①



ST- (2)







CONTROLLER INSPECTION

- This inspection is available only when the cause of trouble in "Trouble-shooting" is due to a "faulty subcontrol AMP" or "faulty main control AMP". Therefore, the entire system needs to be inspected in advance, according to the "Trouble-shooting procedures"
- This inspection should be carried out with the adapter harness disconnected at the main control AMP.
 When disconnecting the adapter harness, first disconnect the battery ground cable. Be sure to reconnect battery ground cable afterwards.
- a through k indicate the respective terminals of the adapter harness connector at the main control AMP.
- This inspection is based on the premise that the adapter harness is free from abnormalities. Therefore,
 the adapter harness must be inspected before inspecting the controller.

Trouble diagnosis

- Carry out the terminal inspection in this diagnosis chart from left to right.
- Symbols: O: Execute, X: Not required, H. Approx 12V, L. Less than 1V.
- The term "door" indicates the driver door, assist door, back door, and hood, unless otherwise specified.
- The term "alarm" means that the horn sounds intermittently and the headlamps blink.

__ Theft Warning System (Cont'd) _____

| | | Downer course | 1 | | | | | | | | | | Result | |
|---------------------------|---|------------------------|------------------------|------|----------------------------|----------|---|------------|---------------------------|---------|----------|---|------------------|-------------------|
| Trouble shooting No | Trouble condition | terminal inspection | terminal inspection | Outp | Output terminal inspection | n n | | Input 1 | Input terminal inspection | l inspe | ction | | | N G (At least |
| | | ⊛ | (e) | Θ | @ | Θ | ၜ | Θ | € | 9 | ⊚ | Θ | them) | one of them) |
| IND-(Î) | Indicator lamp will not blink (Remains out) - Disarmed phase (Operation chart step (2)) • Ignition switch OFF • At least one of door open (Driver, assist, back door or hood) | Ī | o | 0 | × | × | × | ب | × | I | | | | |
| IND-© | Indicator lamp remains blinking —Disarmed phase (Operation chart step () & (2)) • Ignition switch OFF • Doors close and unlock (Driver, assist, back door and hood) | Ι | × | × | × | × | × | I | × | π | | ٦ | | |
| IND-® | Indicator lamp will not come an -Ready phase with keylock (Operation chart step ③ (Ype)) Ignition switch OFF Doors closed (Driver, assist, back door and hood) After closing doors, doors lock with key | Ι | o | × | × | × | × | ∓ ⊊ | 0 | 4 | ٦ | _ | 9MA lorgnoo nism | 9MA lorsnoo-dus v |
| IND-@ | Indicator lamp will not come on —Ready phase with keyless lock and closing Rood for back door) after closing Rocking doors (Driver Rassist, and back door for hood)) (Operation chart step 3) (Type 2), (Type 3), and (Type 4) • Ignition switch OFF • Type 3 & (Type 3) After closing hood & back door, lock & close doors without key fock & close doors without key of Type 3 After locking & closing doors (driver & assist) and closing hood (or back door), close back for hood) | Ι | 0 | × | × | × | × | Ιņ | 0 | J | J | 7 | Yilue¬ | raulty (Faulty |
| *1 Measi | Measure within 20 seconds after locking door | | | } | | | | |] |] | | 1 | | |

*1 Measure within 20 seconds after locking door *2 Measure within 20 seconds after locking & closing door

Theft Warning System (Cont'd) _

| : | | Power source | Ground | (| | | | | | | | | æ | Result |
|----------------------------|--|------------------------|------------------------|---|-------------------------------|-----------|---|-----------|---------|---------------------------|-------|---------|-----------------------|-----------------------|
| Trouble- shooting No | Trouble condition | terminal inspection | terminal inspection | | Output terminal Inspection | nnal n | | Input | termına | Input terminal inspection | ction | • | OK (All of | N G (At least |
| | | (8) | (a) | ூ | • | \oplus | 0 | Θ | Ð | @ | ⊚ | Θ | them) | them) |
| ®-GNI | Indicator lamp remeins lightedDisarmed phase and resetting from ready phase (Operation chart step ①, ② and ⑤ 〈YDD〉) | Í | 0 | 0 | × | × | × | тů ¬4 | 0 \$ | I | ٦ | ıå ı.t. | | |
| (P) (ND- | Indicator famp will not go out (Comes on) Disarmed phase (Operation chart step () & (2)) Ignition switch OFF Doors close and unlock (Driver, assist, back door and hood) | π | 0 | × | × | × | × | × | × | I | ي ـ | - | ч мд | qΜ |
| (D-Q) | Indicator lamp will not go out (Remains lighted) —Armed phase (Operation chart step (3)) • Ignition switch OFF • Door close & lock (Driver, assist, back door and hood) • Ready phase period has been finished | Ŧ | 0 | 0 | × | × | × | Ι ω | × | × | -1 | ٠ | Faulty main control A | A lostnoo-dus ytlus-7 |
| ARM-Ü | Arming is set — Disarmed phase (Operation chart step (1) & (2)) • Ignition switch ACC, ON or ST or Door unlocked (Driver & assist) or Door open (Driver, assist, back door or hood) | Ι | 0 | × | × | × | × | ۲+ * 4 | 0 6* | H 6. | × | H | | |

After closing & locking door, wait over 40 seconds and then measure When door is unlocked

When door is closed Disarmed phase and reset phase When door is opened Only for resetting from ready phase Ignition switch OFF Ignition switch ACC, ON or ST

^{. 4} t t t

___ Theft Warning System (Cont'd)_____

| Trouble | | Power source | Ground | j | | | <u> </u> | | | | | | ag. | Result |
|----------------|--|------------------------|------------------------|---|-------------------------------|------|----------|-------|--------|---------------------------|--------|----------|-------------------|---------------------|
| shooting No | Trouble condition | terminal inspection | terminal inspection | | Output terminal inspection | m ng | | Input | termin | Input terminal inspection | action | - | OK (All of | N G (At least |
| | | 3 | ® | ூ | ® | ⊕ | Θ | Θ | ⊜ | 9 | 9 | Θ | them) | one of them) |
| ALR-① | Alarm is given without any cause— Armed phase (Operation chart step (3)) Ignition switch OFF Doors locked & closed (Driver, assist, back door and hood) | I | o | × | × | 0 | 0 | ± € | × | ٦ | × | ١ | | |
| ALR-@ | Alarm will not operate—Alarm phase (Operation chart step (4) (Type), (Type) & (Type) } I guition switch OFF (Type) & (Type) Any door opens without key (Driver, assist, back door or hood) (Type) Any key cylinder draws out (Driver, assist or back door) | Ξ | 0 | × | × | 0 | 0 | | 0 | | × | -1 | 9MA | |
| ALR-® | Alarm will not stop (Alarm continues over 4 minutes) -Alarm phase (Operation chart step 4) Ignition switch OFF Alarm phase | Ι | o | × | × | 0 | 0 | H . | × | × | × | × | louthoo mem ytlue | A lortrop-dus yfius |
| ALR-@ | Alarm stops too soon (Will not continue 2 to 4 minutes) —Alarm phase (Operation chart stap (4)) Ignition switch OFF Alarm phase | Ι | 0 | × | × | 0 | × | × | 0 | × | × | × | ± | d |
| ALR-© | Alarm continues {Is not intermittent} -Alarm phase (Operation chart step ﴿) • ignition switch OFF • Alarm phase | Ξ | 0 | × | × | 0 | × | × | × | × | × | × | | |
| *10 05500 | A 4 | | | | | | | | | | | | | |

*10 After locking & closing door, wait over 40 seconds and then measure

| | | Power source | Ground | 1 | | | | | | | | | Re | ult |
|----------------------------|---|------------------------|------------------------|---|--------------------|---|---|----------------------|--------|----------|----------|----------|------------------|----------------------------|
| Trouble- shooting No | Trouble condition | terminal inspection | terminal inspection | _ | ut term spectio | | | Input | termin | al inspe | ction | | O K (All of | N G (At least one of |
| 140 | | (k) | a | 0 | e | • | © | 0 | Ф | Ф | ® | ① | ОК | them) |
| ѕт-① | Starter motor cannot operate -Except alarm phase (Operation chart step ①②③ & ⑤) Ignition switch ST | н | o | x | 0 | × | 0 | H *11 L *12 | 0 | н | L | н | i AMP | AMP |
| ST- ② | Starter motor can operate —Alarm phase (Operation chart step 4) • Ignition switch ST • Alarm phase | Н | 0 | × | o | x | О | н *13 | 0 | L | L | н | ulty main contro | Faulty sub-control |
| RES | Reset cannot be performed —Reset | н | О | 0 | 0 | 0 | 0 | ۱ *14 | 0 | H *15 | L | H *16 | , P Pg | |

Theft Warning System (Cont'd)

BODY END AND DOOR

^{*11} When door is closed-Disarmed phase and reset phase

^{*12} When door is opened or ready phase

^{*13} After closing & locking door, wait over 40 seconds and then measure

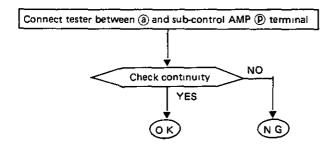
^{*14} When door is opened

^{*15} When power door lock system unlocks

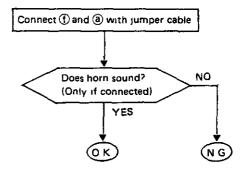
^{*16} Ignition switch ACC, ON or ST

. Theft Warning System (Cont'd)

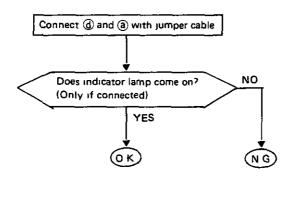
• a terminal inspection



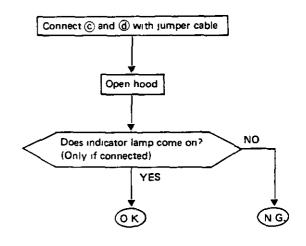
• (f) terminal inspection



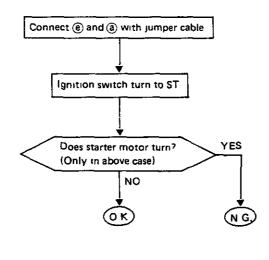
• d terminal inspection



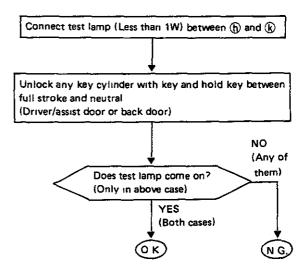
• () terminal inspection



• @ terminal inspection

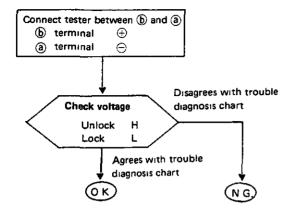


• (b) terminal inspection

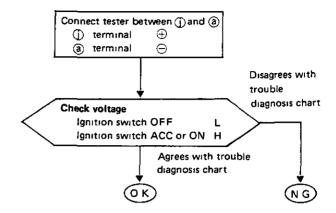


Theft Warning System (Cont'd) _

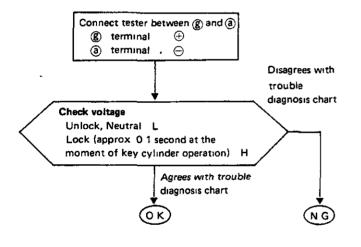
b terminal inspection



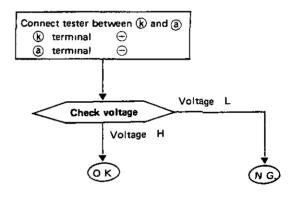
(i) terminal inspection



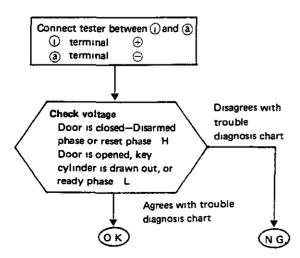
(g) terminal inspection



(k) terminal inspection



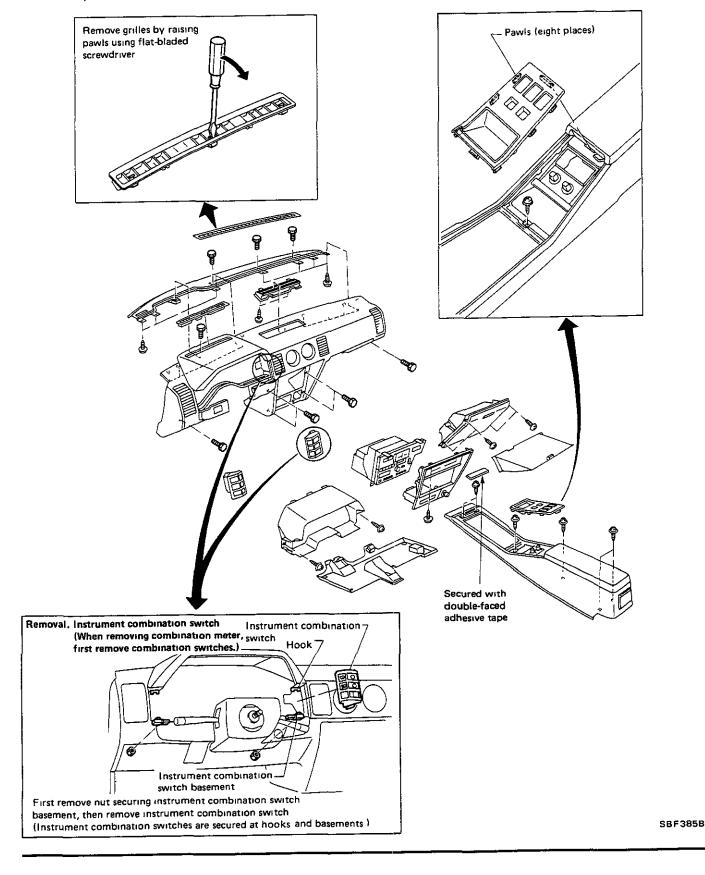
() terminal inspection



BF-48

INSTRUMENT

These parts are made of plastic, so do not use excessive force and be careful not to damage them

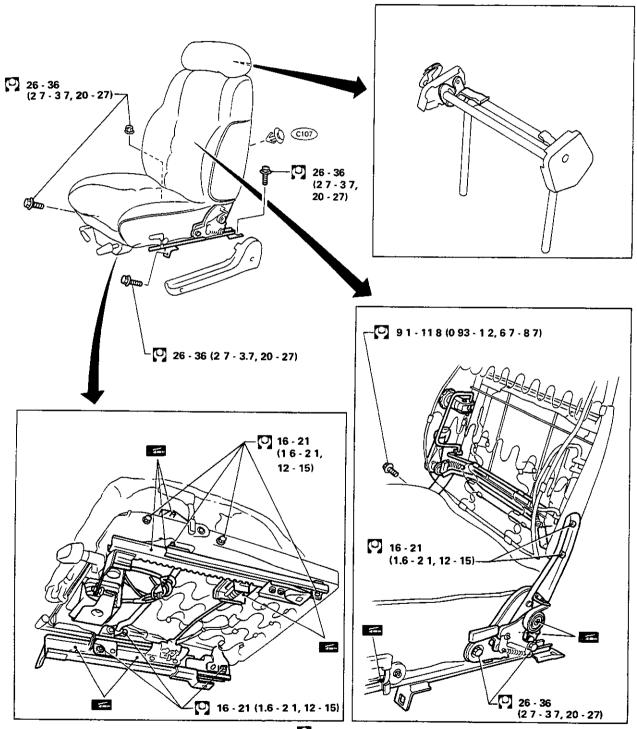


SEAT

When removing or installing the seat trim, carefully handle it to keep dirt out and avoid damage

Front Driver Seat_____

MANUAL SEAT



N m (kg-m, ft-lb)

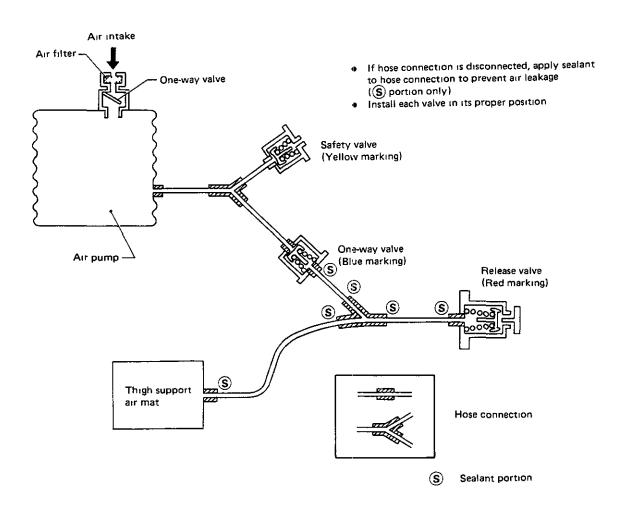
Grease up points (Do not apply too much grease as it will drip)

SBF3888

SEAT

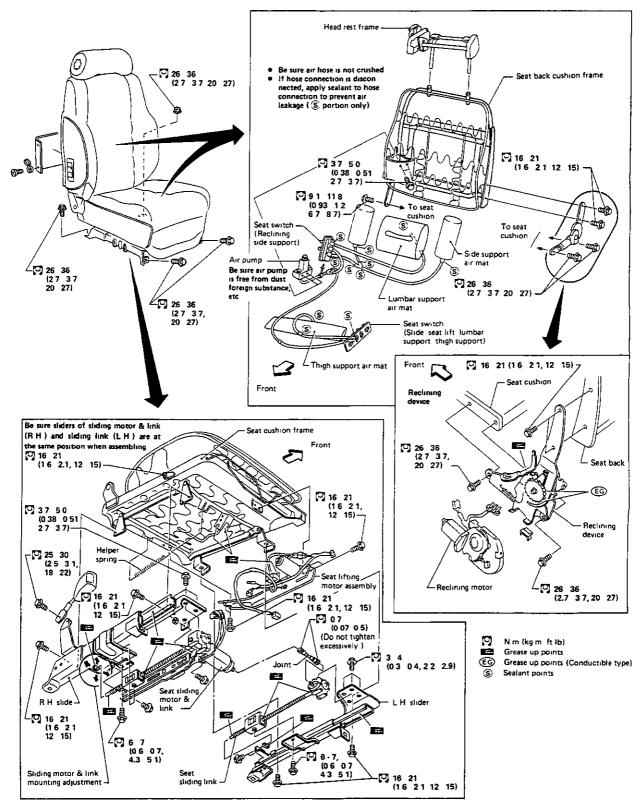
Front Driver Seat (Cont'd)_

Air diagram

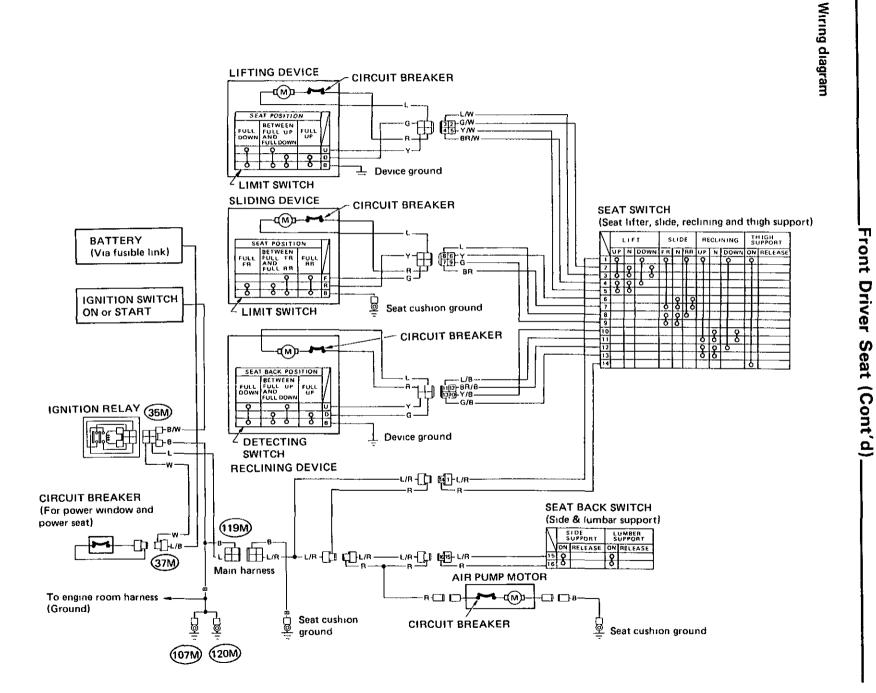


SBF392B

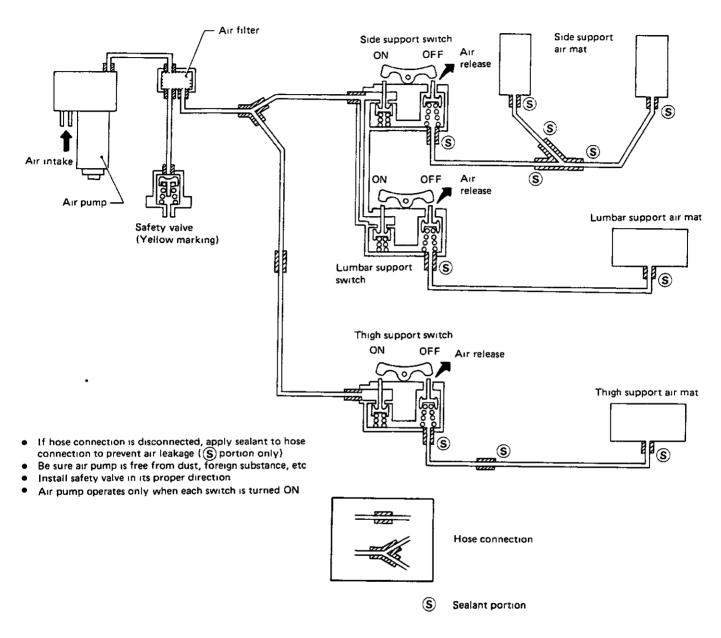
POWER SEAT



SBF387B



Air diagram

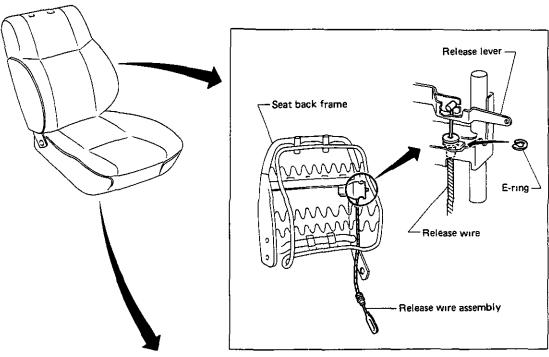


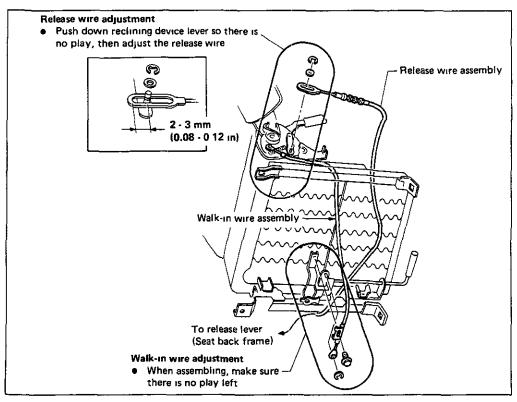
SBF3948

Front Assist Seat

 Basically, this seat is the same as manual type front driver seat 2 + 2 seater model differs from manual type front seat in that walk-in mechanism has been added to it. Refer to the description on manual type driver seat except for walk-in mechanism.

WALK-IN MECHANISM

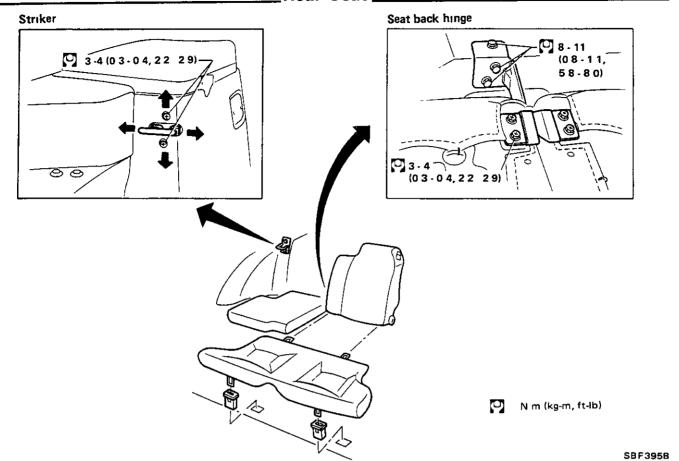




SBF470B

SEAT

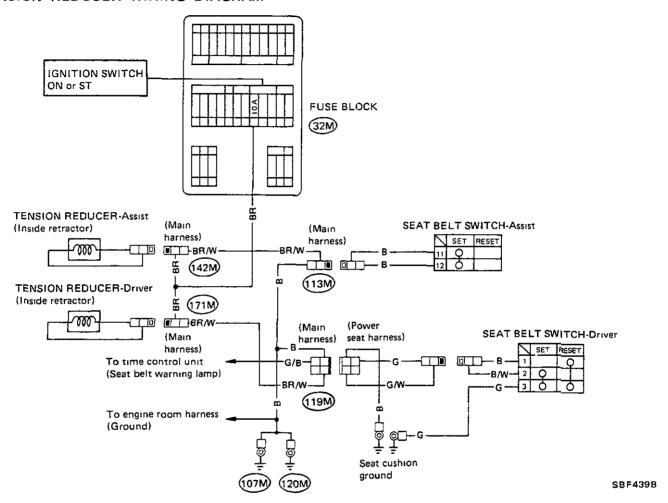
_Rear Seat _



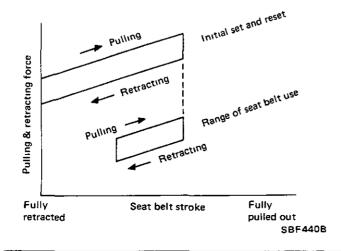
SEAT BELT

- Refer to MA section for installation of seat belts.
- GLL model has been equipped with seat belts with tension reducer. This unit reduces the force required to pull out seat belt while in use, and lessens pressure on the shoulder and hips for greater comfort.

TENSION REDUCER WIRING DIAGRAM



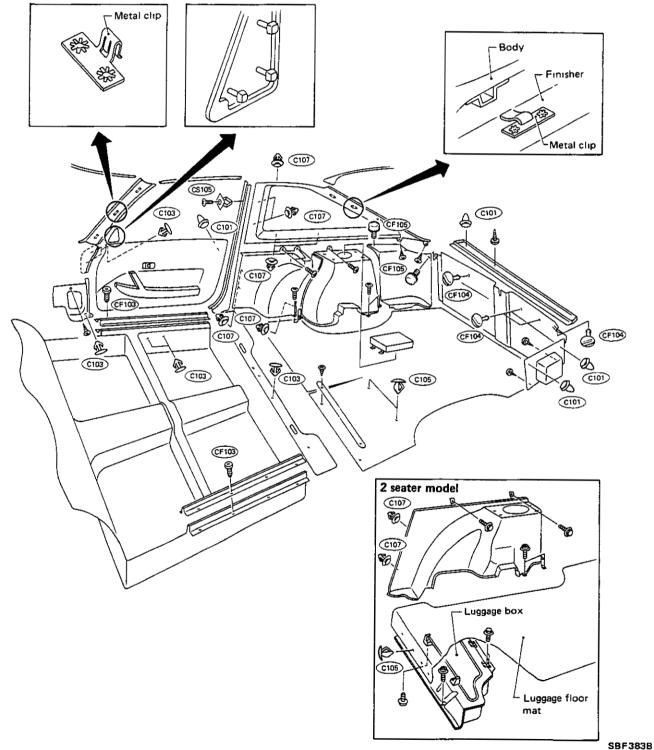
TENSION REDUCE OPERATION



- When removing clip or fastener, refer to CLIP & FASTENER
- When handling trim or molding, do not use excessive force and take care not to damage them.

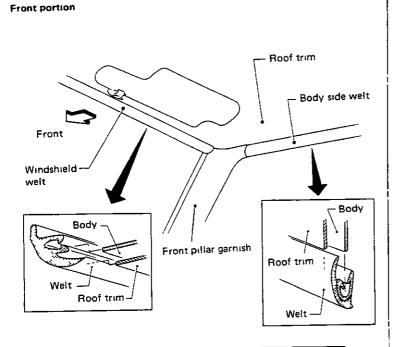
_____Inside Trim _____

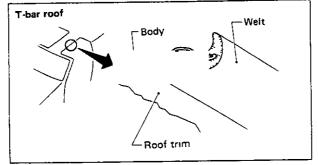
SIDE, LUGGAGE AND FLOOR TRIM

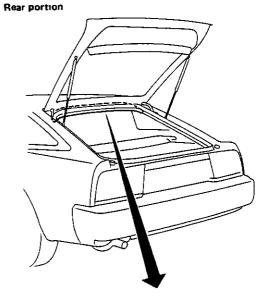


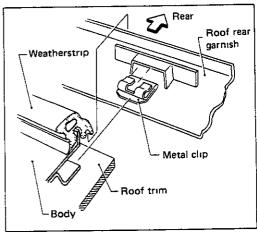
Inside Trim (Cont'd) ___

ROOF TRIM





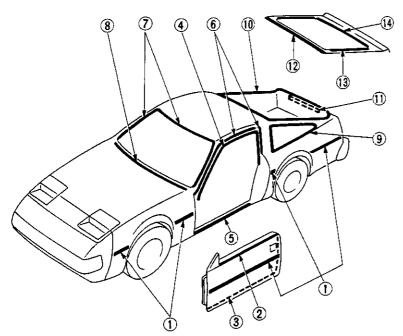


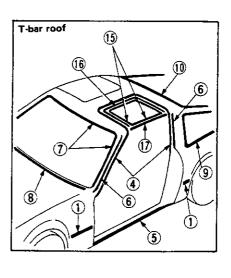


SBF3848

Exterior_

- Apply sealing compound where necessary while installing parts
- When applying sealing compound, be careful that the sealing compound does not protrude from parts

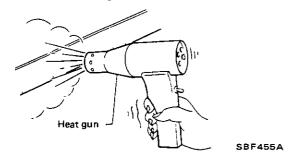




SBF386B

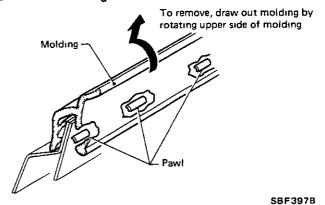
① Side guard molding

- Side guard molding is affixed to body panel with sealant. And the repair part is affixed with double-faced adhesive tape.
- Remove it only if it is necessary to do so.
- Removal:
- 1 Heat molding portion to 30 to 40°C (86 to 104°F) with a heat gun

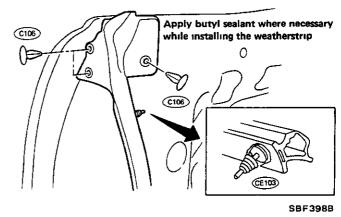


- 2 Raise end of molding and, while cutting off bonding agent, detach molding.
- Installation
- 1 Remove all traces of bonding agent from body panel. Then clean contact face of body.
- 2 Heat body panel and molding to 30 to 40°C (86 to 104°F) with a heat gun Then install molding





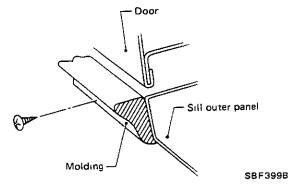
3.4 Door weatherstrip and body side weatherstrip



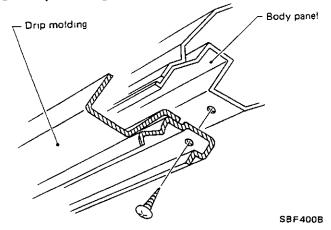
Exterior (Cont'd) _____

Sill molding

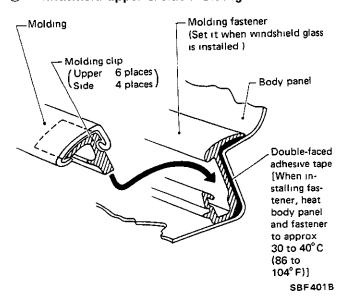
- Front and rear ends of molding are fixed with double-faced adhesive tape
- When affixing the portion, heat body panel and molding to 30 to 40°C (86 to 104°F) with a heat gun, and then install it



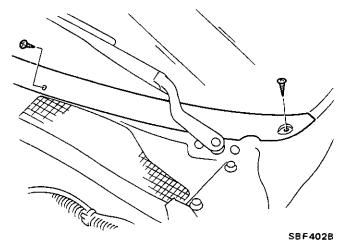
6 Drip molding



Windshield upper & side molding



Windshield lower molding

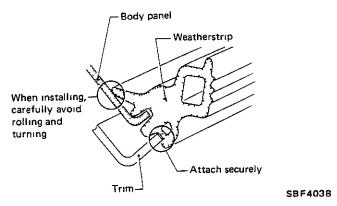


9 Side window molding

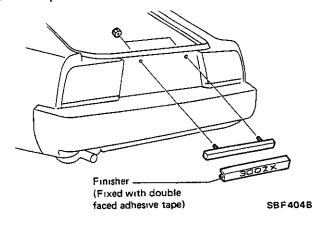
Refer to Side Window

10 Back door weatherstrip

 Attach the weatherstrip by aligning each white marking with the center of each back door hinge

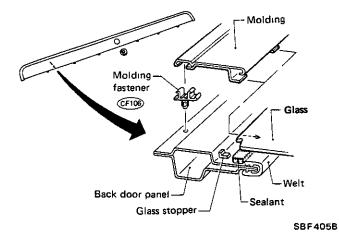


11 Rear panel outer finisher

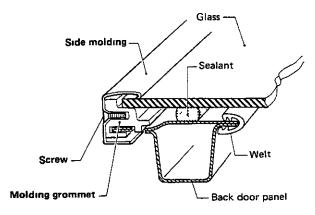


Exterior (Cont'd) ____

12 Back door upper molding



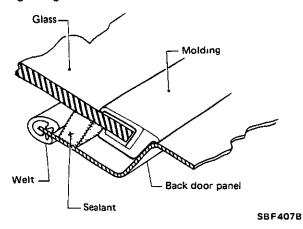
(3) Back door side molding



SBF406B

14 Back door lower molding

Attach the molding to the glass before installing the glass.



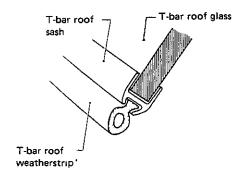
(5) T-bar roof sash and T-bar roof side molding

They are part of the T-bar roof glass and cannot be removed (Refer to T-bar Roof)

If they are damaged you should replace entire

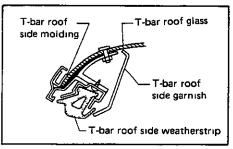
If they are damaged, you should replace entire T-bar roof glass assembly

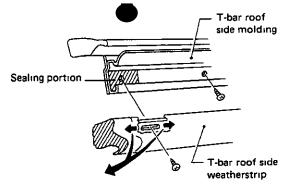
16 T-bar roof weatherstrip



SBF435B

17 T-bar roof side weatherstrip





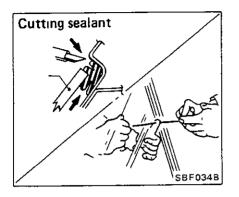
Always adjust if it is not sufficiently watertight

SBF436B

_Windshield _____

REMOVAL

After removing moldings, remove glass



CAUTION Be careful not to scratch glass when removing

Install molding fastener

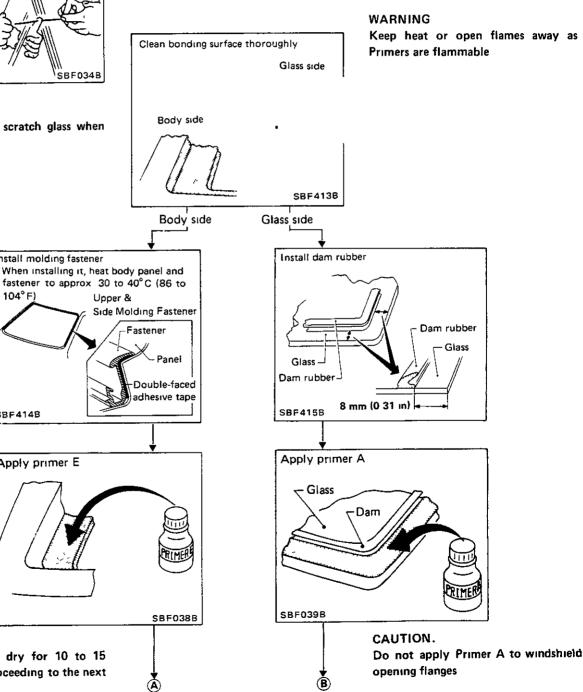
104° F

SBF414B

Apply primer E

INSTALLATION

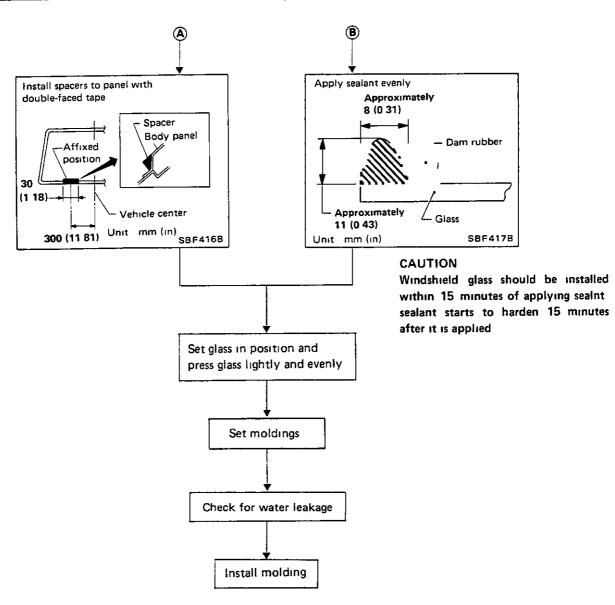
- Use genuine Nissan Sealant kit or equivalent. Follow instructions furnished
- After installation, the vehicle should remain stationary for about 24 hours
- Do not use sealant which is more than 12 months past its production date
- Do not leave cartridge unattended with its cap open
- Keep Primers and sealant in a cool, dry place Ideally, sealant should be stored in a refrigerator



Allow Primers to dry for 10 to 15 minutes before proceeding to the next step

CAUTION

_Windshield (Cont'd)_____



Reference Period required for sealant to dry to desired hardness

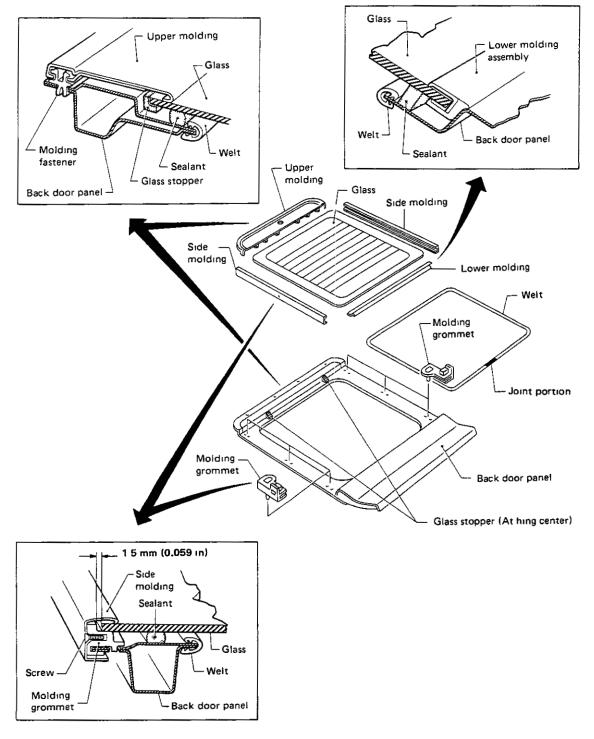
| | | Onit days |
|----|-----|-----------|
| 90 | 50 | 25 |
| 16 | 29 | 61 |
| 35 | 9 1 | 15 0 |
| | 16 | 16 29 |

CAUTION:

Advise the user of the fact that vehicle should not be driven on rough roads or surfaces until sealant has properly vulcanized

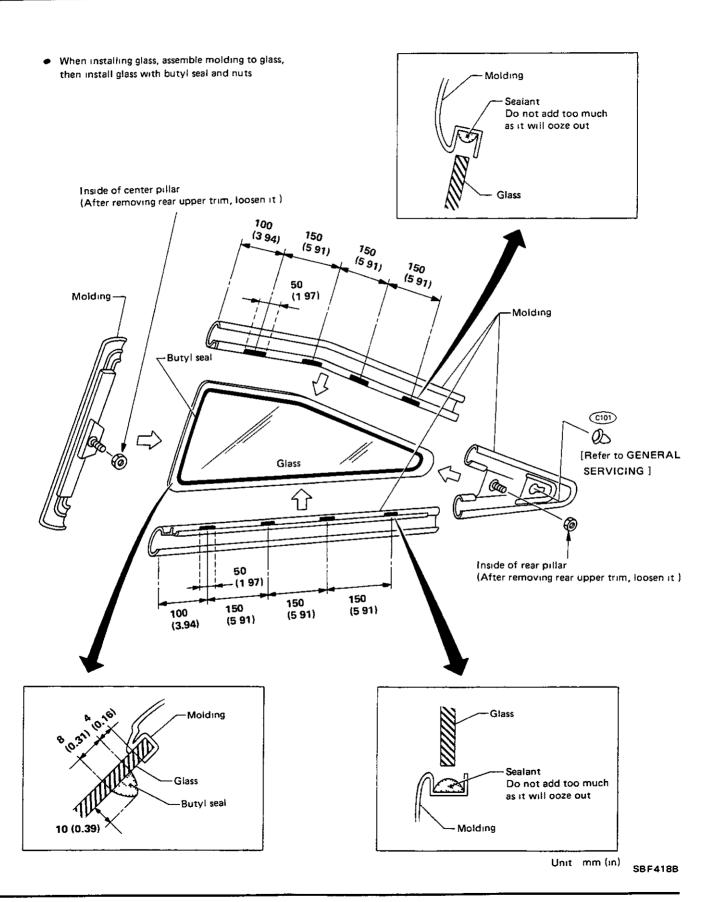
Back Door Window _

- Attach the lower molding to the glass before installing the glass.
- Attach the glass stopper (glass upper portion) and the side molding grommet to the panel before installing the glass
- The remaining procedure for removal and installation is the same as that for the windshield.



SBF419B

Side Window____

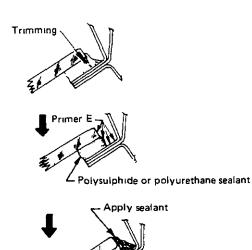


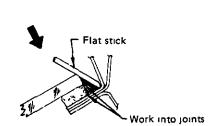
.Repairing Leaks_

Leaks can be repaired without removing and reinstalling glass

If water is leaking between caulking material and body or between glass and caulking material, determine extent of leak by applying water while pushing glass outward.

To stop the leak apply Primer and then sealant to the leak point

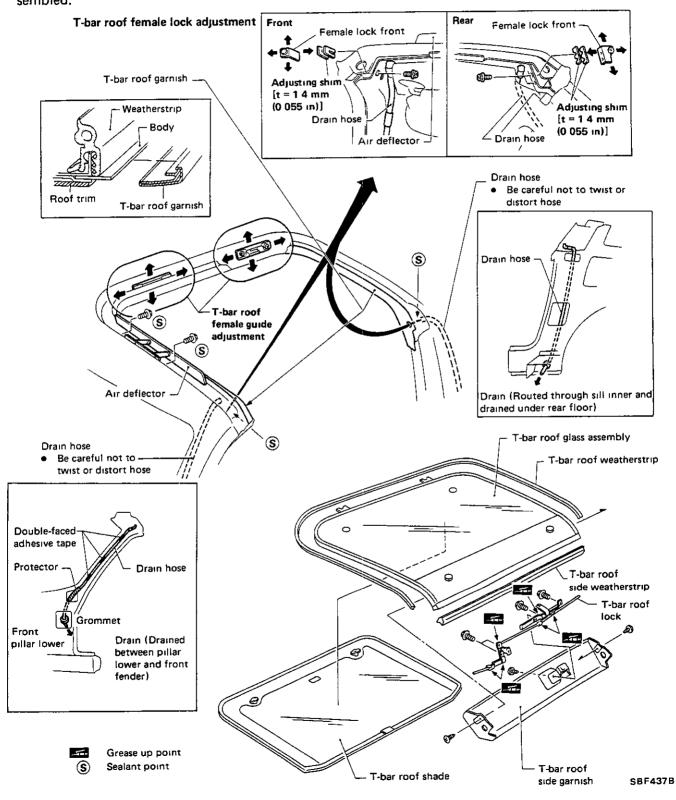




SBF182B

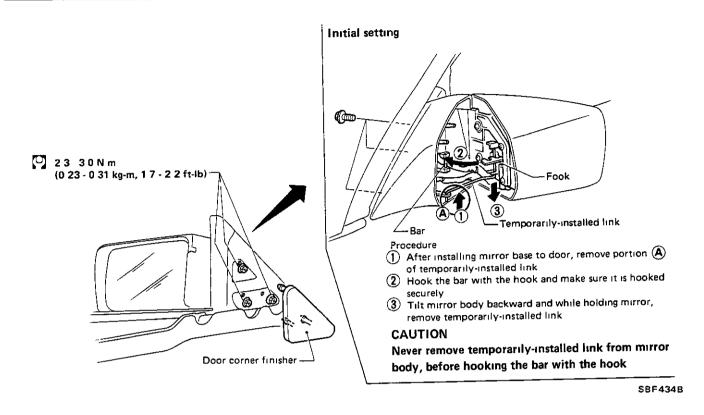
T-BAR ROOF

- Handle T-bar roof glass with care so not to damage it.
- Apply sealant to portions susceptible to water leakage if necessary
- Side molding, sash, lock basement and glass of T-bar roof constitute one unit and cannot be disassembled.

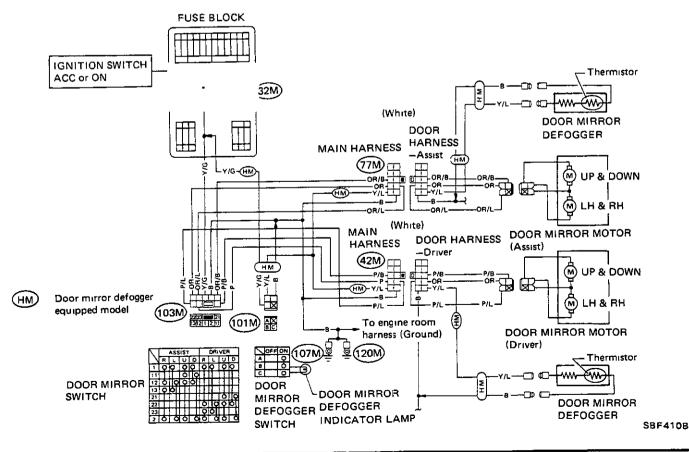


MIRROR

Door Mirror.



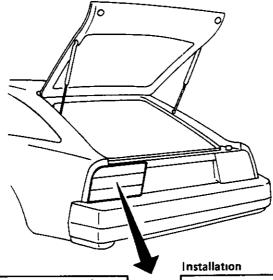
ELECTRICAL REMOTE CONTROL DOOR MIRROR/WIRING DIAGRAM



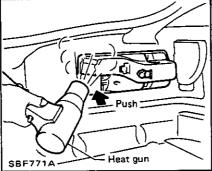
REAR COMBINATION LAMP

Removal and Installation ____

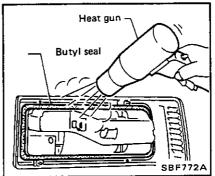
Rear combination lamps are installed with nuts and butyl sealant.



Removal



 Warm up lamp assembly area to a temperature of a little below 60°C (140°F)



- Warm up lamp assembly area to a temperature of a little below 60° C (140° F)
- Apply butyl seal evenly as it tends to become thin in the corners

SBF472B

- All dimensions indicated in figures are actual ones.
- When a tram tracking gauge is used, adjust both pointers to equal length and check the pointers and gauge itself to make sure there is no free play.
- When a measuring tape is used, check to be sure there is no elongation, twisting or bending.
- Measurements should be taken at the center of the mounting holes.
- An asterisk (*) following the value at the measuring point indicates that the measuring point on the other side is symmetrically the same value.
- Measurement points

The coordinates of the measurement points are the distances measured from the respective dimension lines in the directions of "x", "y" and "z".

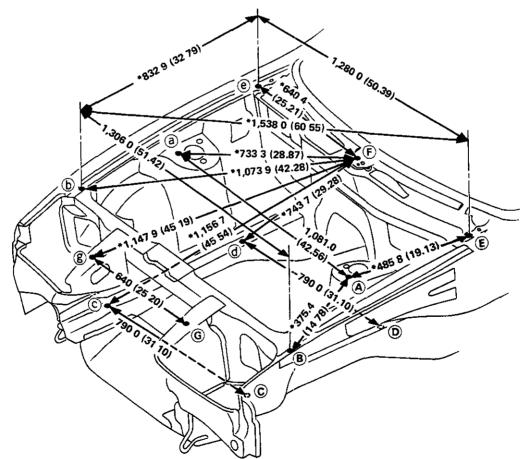
Dimension lines: "x" line - Center line of vehicle

"y" line - Center line of front axle (Any measurement point in front of the dimension line refers to a minus "-" value.)

"z" line - Datum line (Any measurement point under the dimension line refers to a minus "-" value.)

.Engine Compartment _____

MEASUREMENT



Unit mm (in)

SBF420B

Engine Compartment (Cont'd)

MEASUREMENT POINTS

| B | Hole dia | Detailed point | • | Coo | rdinates mm | (in) |
|------------|-------------|--|--|------------------|--------------------|------------------|
| Points | mm (in) | Detailed point | S | "×" | "y" | "z" |
| (A) (a) | 12 (0 47) | Hole for front suspension upper mountain hole) | unting (Outside front | 540 5 (21 28) | 26 8 (1 055) | 919 0 (36 18) |
| B D | 9 (0 35) | Hood bumper rubber SBF421B | Hole for fixing front fender | 653 0 (25 71) | -325 0 (-12 80) | 852 0 (33 54) |
| © © | 5 4 (0 213) | FR SBF422B | Hole for fixing har- ness clip at upperside of front side member | 395 0 (15 55) | -460 0 (-18 11) | 490 0 (19 29) |
| © d | 8 (0 31) | Front side member SBF423B | Hole for fixing har- ness clip at upperside of front side member | 395 0 (15 55) | 100 0 (3 94) | 490 0 (19 29) |
| € @ | 11 (0 43) | FR E Hoodledge reinforce | Hole for mounting hood hinge | 640 0 (25 20) | 500 0 (19 69) | 966 0 (38 03) |

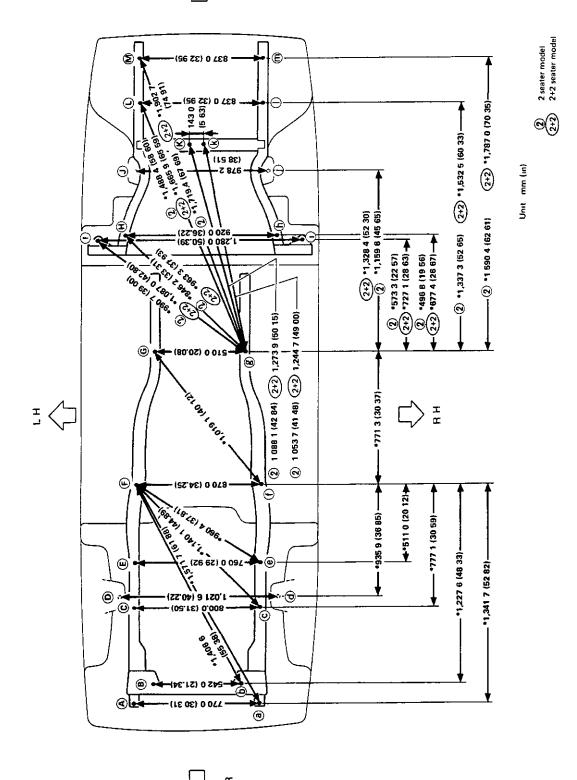
_ Engine Compartment (Cont'd)_____

| | Hole dia | | | Coor | rdinates mm | i (in) |
|--------|-----------|-----------------------------|--|------------------|-------------------|------------------|
| Points | mm (in) | Detailed points | | "x" | "y" | "z" |
| Ē | 7 (0 28) | FR SBF425B | Hole for mounting wiper pivot | 0 0 (0) | 520 8 (20 50) | 959 0 (37 76) |
| © ® | 16 (0 63) | Front Bumper fascia SBF471B | Hole for mounting hood bumper rubber on headlamp side housing | 320 0 (12 60) | -566 1 (22 29) | 774 8 (30 50) |

.Underbody .

MEASUREMENT

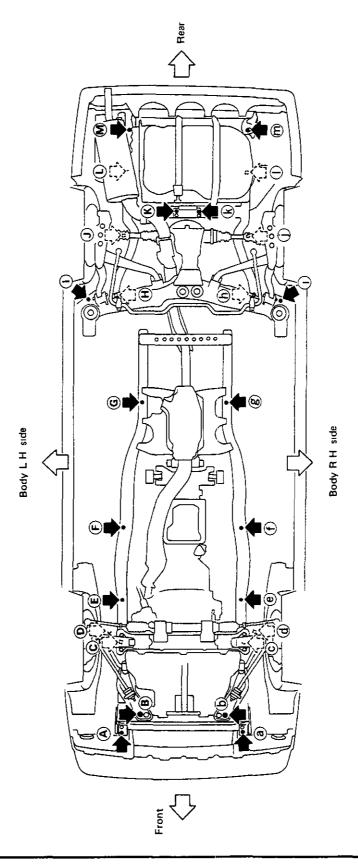
↑ #



SBF4268

_Underbody (Cont'd) _

MEASUREMENT POINTS



SBF433B

___Underbody (Cont'd) _____

| | Hole dia | Data lad mare | _ | Coo | ordinates mm | (in) |
|----------------|-----------|---|---|------------------|--|------------------|
| Points | mm (in) | Detailed point | s | "x" | "y" | "z" |
| A a | 13 (0 51) | | Hole for front air spoiler mounting | 385 0 (15 16) | -585 0 (-23 03) | 388 0 (15 28) |
| E @ | 15 (0 59) | | Hole for water drainage | 380 0 (14 96) | 251 5 (9 90) | 361 6 (14 24) |
| (F) (f) | 18 (0 71) | | | 435 0 (17 13) | 750 0 (29 53) | 263 6 (10 38) |
| 6 8 | 13 (0 51) | | | 255 0 (10 04) | 1,500 0 (59 06) | 261 0 (10 28) |
| © ① | 13 (0 51) | At under side of member (Aa, Ee, Ff, GB) (L1, Mm) | Hole for locating | 418 5 (16 48) | 2 seater model 2,800 0 (110 24) 2+2 seater model 3,000 0 (118 11) | 528 8 (20 82) |
| ₩ (17) | 15 (0 59) | SBF427B | Hole for rear bumper mounting | 418 5 (16 48) | 2 seater model 3,060 0 (120 47) 2+2 seater model 3,260 0 (128 35) | 523 8 (20 62) |
| B b | 13 (0 51) | FR Front cross-member D Tension rod bracket SBF428B | Hole for mounting tension rod bracket on underside of front crossmember | 271 0 (10 67) | 465.0 (18 31) | 325 5 (12 81) |
| © © | 16 (0 63) | Front side member C Front suspension member FR R H SBF429B | Hole for locating on front suspension member mounting portion (Underside of front side member) | 400 0 (15 75) | —10 0 (—0 394) | 422 0 (16.61) |

__Underbody (Cont'd)_____

| Points | Hole dia | Detailed point | re | Cod | ordinates mm | (in) |
|------------|--------------|---|---|--|---|------------------|
| 1011113 | mm (in) | Detance point | | "x" | "y" | ''z'' |
| D d | 82 3 (3 240) | (C) | Front suspension upper mounting | 510 8 (20 11) | 80 0 (3 150) | 912 6 (35 93) |
| 9 0 | 54 (2 13) | SBF 430B | Rear suspension shock absorber upper mounting | 489 1 (19 26) | 2 seater model 2,450 2 (96 46) 2+2 seater model 2,650 2 (104 34) | 883 0 (34 76) |
| H h | 15 (0 59) | Rear suspension member mounting outrigger | Hole for locating on | 460 0 (18 11) | 2 seater model 1,930 0 (75 98) 2+2 seater model 2,130 0 (83 86) | 402 0 (15 83) |
| ① ① | 13 (0 51) | FR Rear suspension member & SBF431B | underside of member | (18 11) 2+2 sea mode 2,130 (83 86 2 seate mode 1,900 640 0 (74 80 (25 20) 2+2 sea mode 2,100 (82 68 | 2 seater model 1,900 0 (74 80) 2+2 seater model 2,100 0 (82 68) | 404 0 (15 91) |
| € | 15 (0.50) | Final drive — mounting cross member & K | Hole for mounting final drive on | 74 0 (2 913) | 2 seater model 2,497 5 (98 33) 2+2 seater model 2,697 5 (106 20) | 545 0 (21 46) |
| € | 15 (0 59) | RH Final drive mounting bracket Final drive Final drive SBF432B | underside of final drive mounting crossmember | 69 0 (2 717) | 2 seater model 2,497 5 (98 33) 2+2 seater model 2,697 5 (106 20) | 545 0 (21 46) |