

SECTION BF

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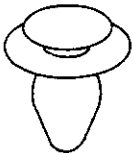

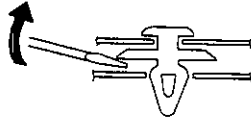

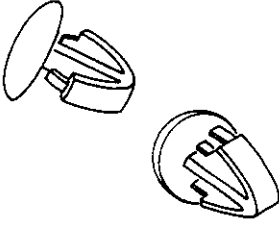

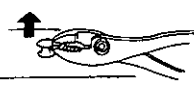
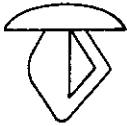

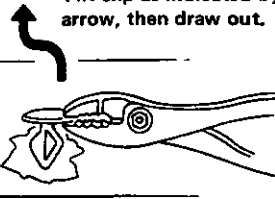
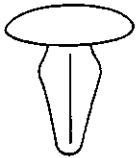
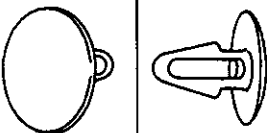

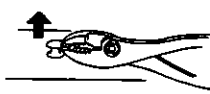
GENERAL SERVICING

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

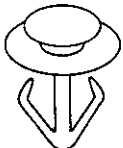
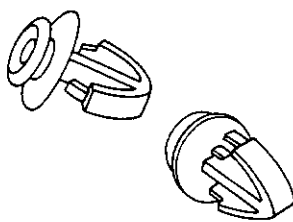
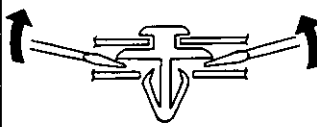

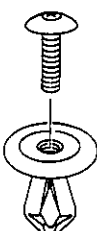
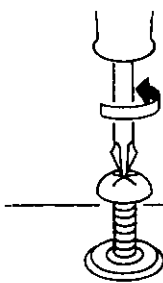
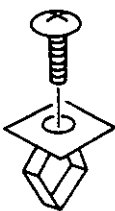
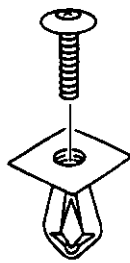
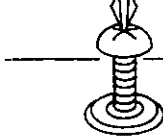

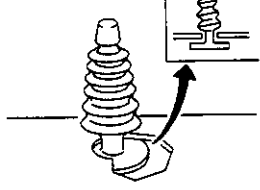
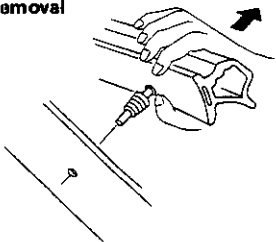
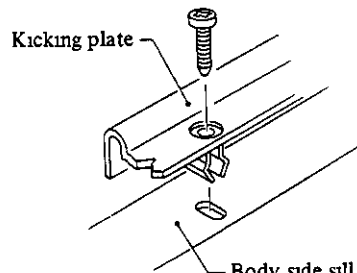
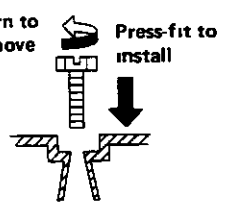
Clip and Fastener

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

No	Symbol	Shape	Removal & Installation	Location
C101	 SBF092B	 SBF109B	Removal Remove by bending up with a flat-bladed screwdriver  SBF094B	<ul style="list-style-type: none"> • Front door trim • Back door trim • L H rear side trim • Side window rear corner molding
C103	 SBF110B	 SBF111B	Removal Remove with a flat-bladed screwdrivers or plier   SBF112B	<ul style="list-style-type: none"> • Front bumper • Rear bumper • Dash side finisher • Front pillar outer garnish • Front floor carpet
C105	 SBF141B	 SBF142B	Removal Tilt clip as indicated by arrow, then draw out.  SBF143B	<ul style="list-style-type: none"> • Luggage floor mat
C106	 SBF089B	 SBF090B	Removal Remove with a flat-bladed screwdrivers or plier   SBF091B	<ul style="list-style-type: none"> • Door weatherstrip • Body side weatherstrip


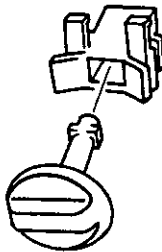
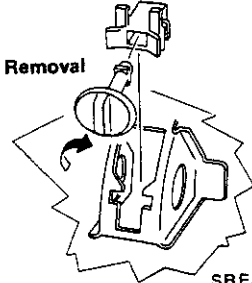

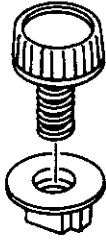
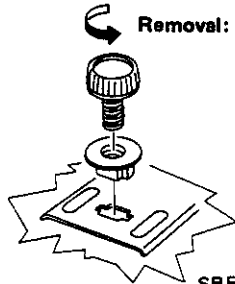
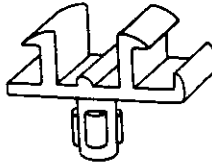
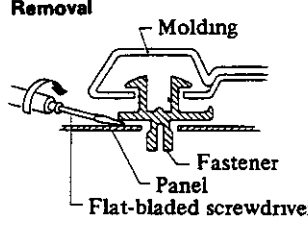
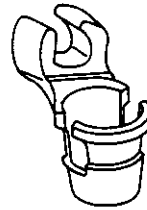
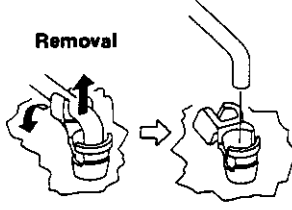
GENERAL SERVICING

Clip and Fastener (Cont'd)

No	Symbol	Shape	Removal & Installation	Location
C107	 SBF365B	 SBF366B	<p>Removal Remove by bending up with flat-bladed screwdrivers.</p>  SBF367B	<ul style="list-style-type: none"> • 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 Phillips screwdriver SBF140B	<ul style="list-style-type: none"> • Fender Protector
CS105	 SBF374B	 SBF375B	 Removal Screw out with a Phillips screwdriver SBF140B	<ul style="list-style-type: none"> • Air inlet grille (Dash upper) • Center pillar garnish
CE103	 SBF103B	 SBF104B	<p>Removal</p>  SBF147B	<ul style="list-style-type: none"> • Door weatherstrip • Body side weatherstrip
CF103	 Kicking plate Body side sill SBF365B	 Turn to remove Press-fit to install SBF795A	<ul style="list-style-type: none"> • Kicking plate 	

GENERAL SERVICING

Clip and Fastener (Cont'd)

No	Symbol	Shape	Removal & Installation	Location
<p>CF104</p>	 <p>SBF368B</p>	 <p>SBF369B</p>	 <p>Removal</p> <p>SBF370B</p>	<ul style="list-style-type: none"> • Rear trim
<p>CF105</p>	 <p>SBF371B</p>	 <p>SBF372B</p>	 <p>Removal:</p> <p>SBF373B</p>	<ul style="list-style-type: none"> • Spare tire cover
<p>CF106</p>	 <p>SBF411B</p>	 <p>Removal</p> <p>Molding</p> <p>Fastener</p> <p>Panel</p> <p>Flat-bladed screwdriver</p> <p>SBF412B</p>	<ul style="list-style-type: none"> • Back door upper molding 	
<p>CR101</p>	 <p>SBF106B</p>	 <p>Removal</p> <p>SEF146B</p>	<ul style="list-style-type: none"> • Front door lock system • Back door lock system 	

GENERAL SERVICING

Note:

BODY END AND DOOR

- 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

Front End

- 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,
 - (1) 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

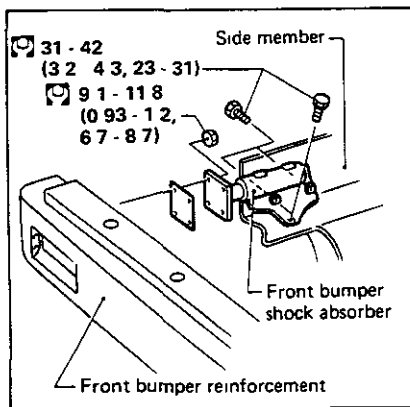
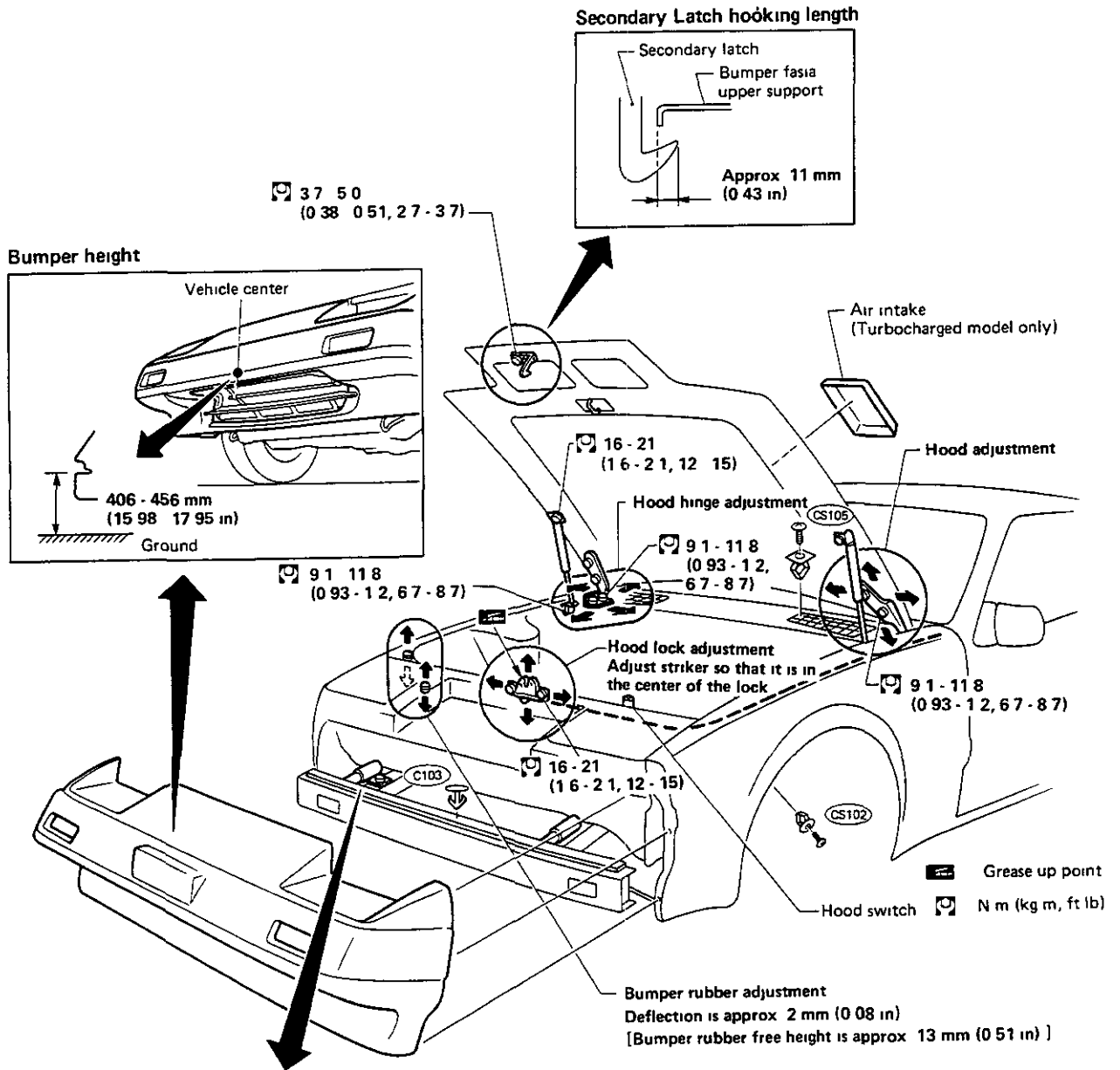
CAUTION:

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

BODY END AND DOOR

Front End (Cont'd)



SBF380B

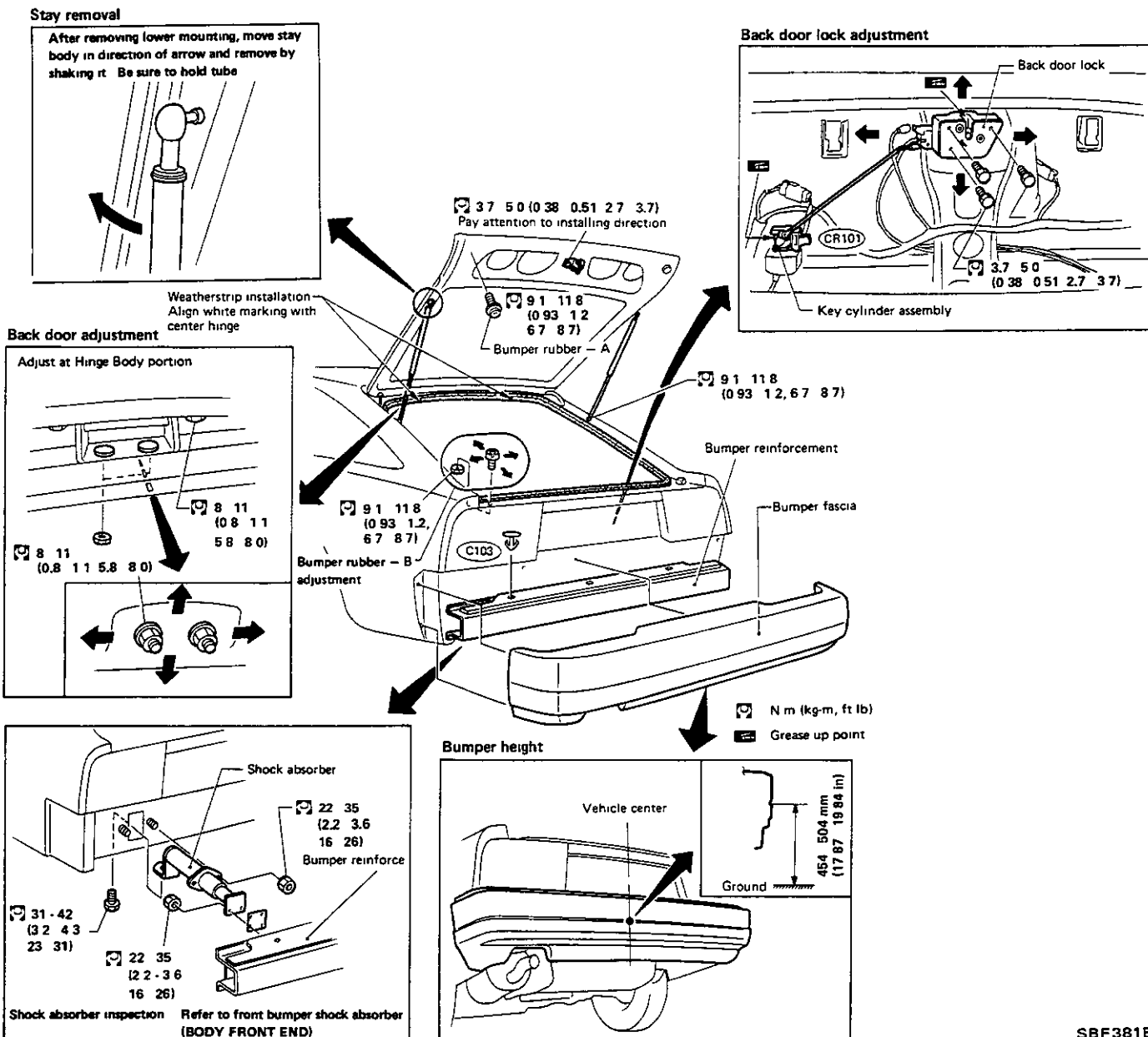
BODY END AND DOOR

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:

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



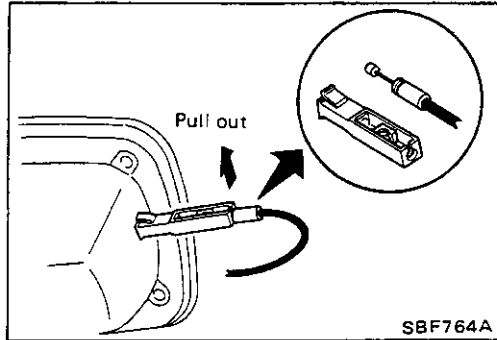
SBF381B

BODY END AND DOOR

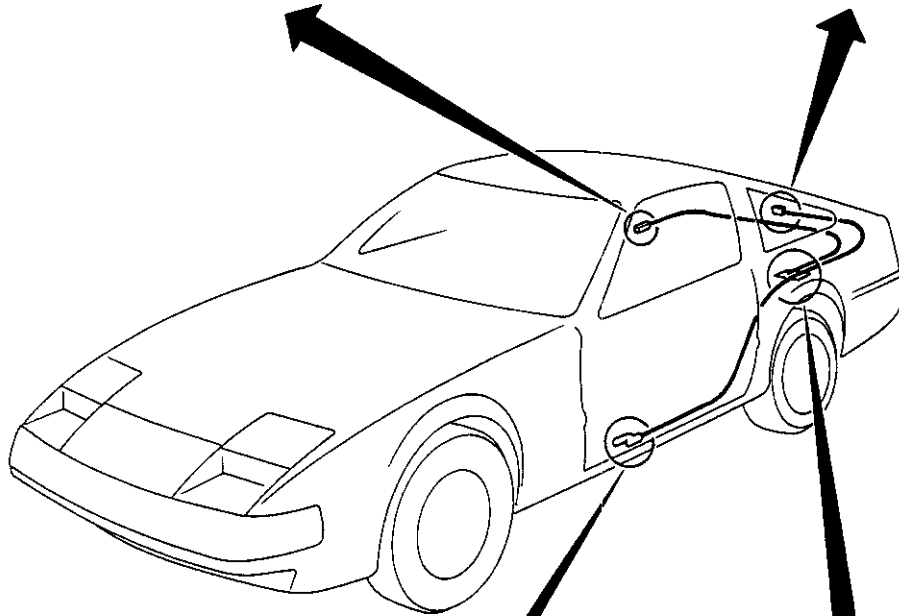
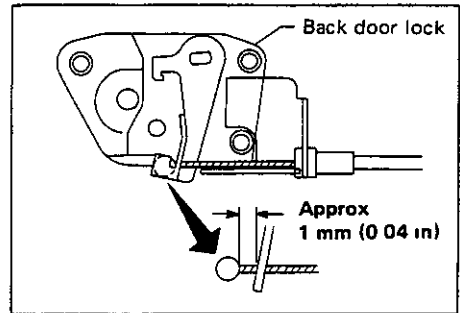
Back Door and Fuel Filler Lid Opener

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

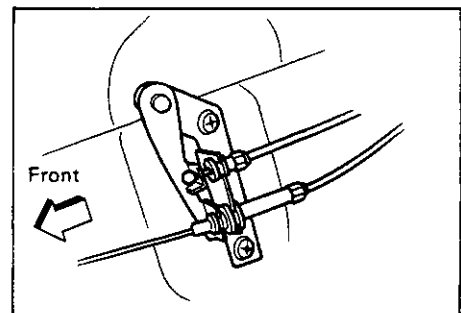
Fuel filter lid opener



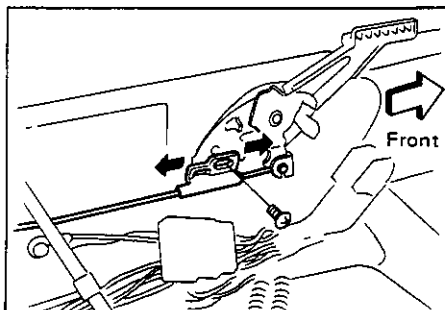
Back door lock



Fuel filler lid control



Opener handle

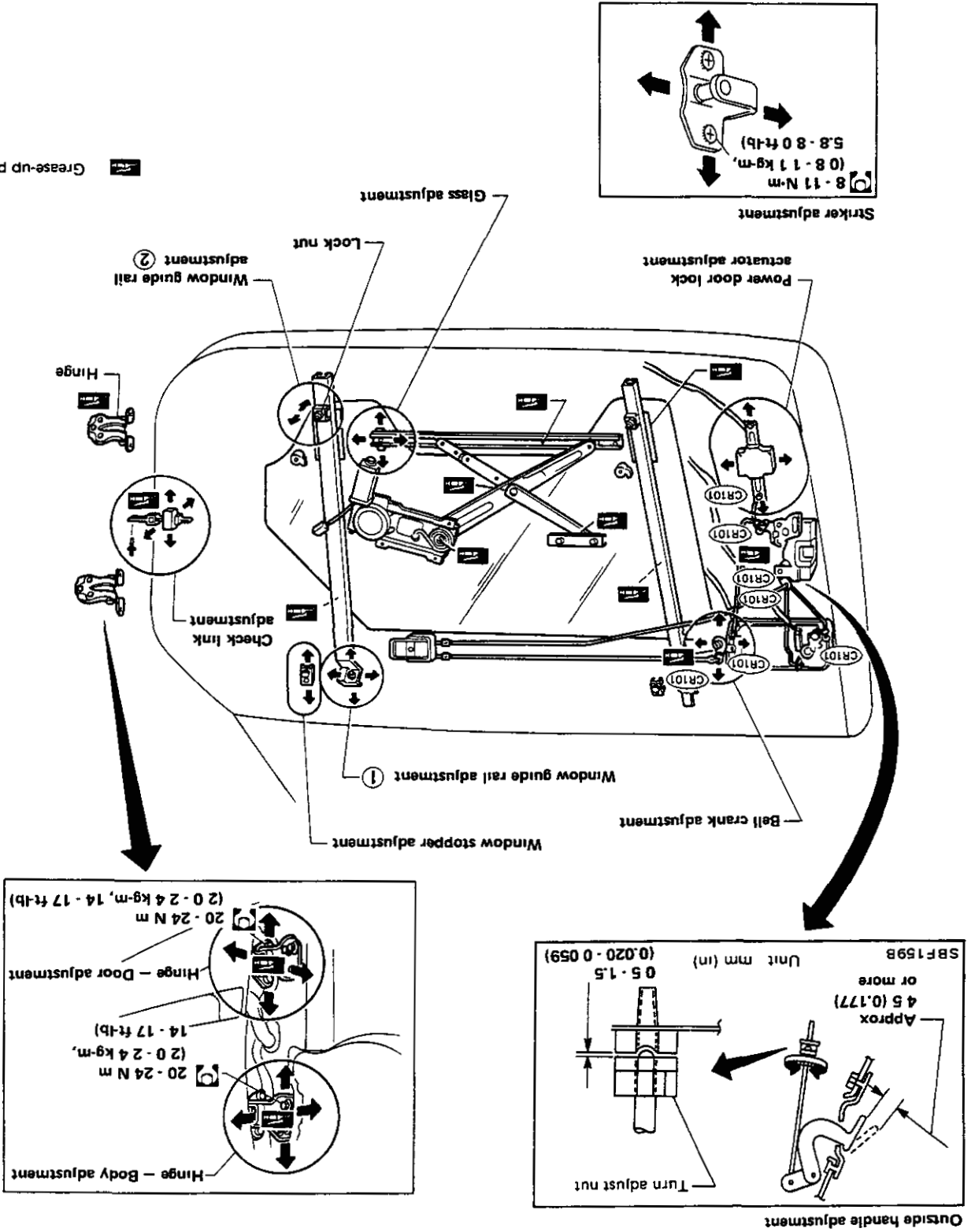


SBF389B

BODY END AND DOOR

Front Door

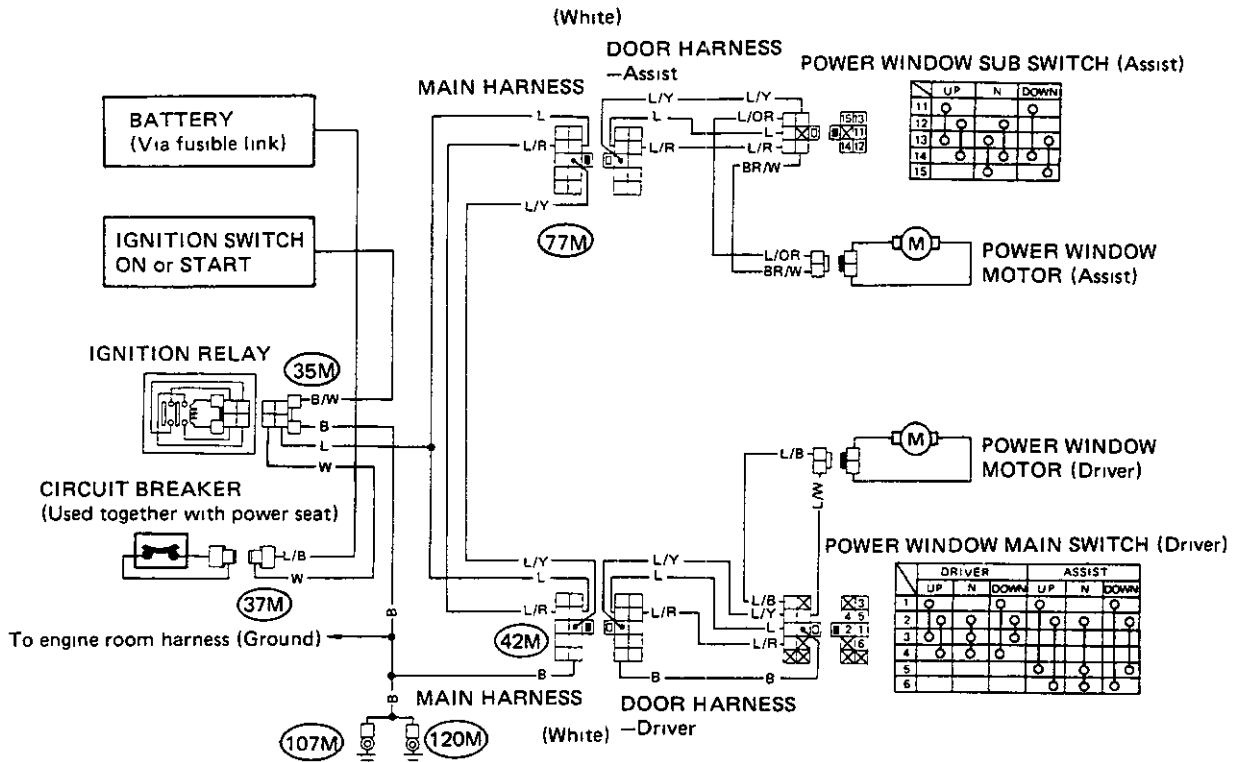
- After adjusting door or door lock, check door lock operation.
- When adjusting or removing/installing door or removing/installing door lock system or door switch, check theft warning system operation.



BODY END AND DOOR

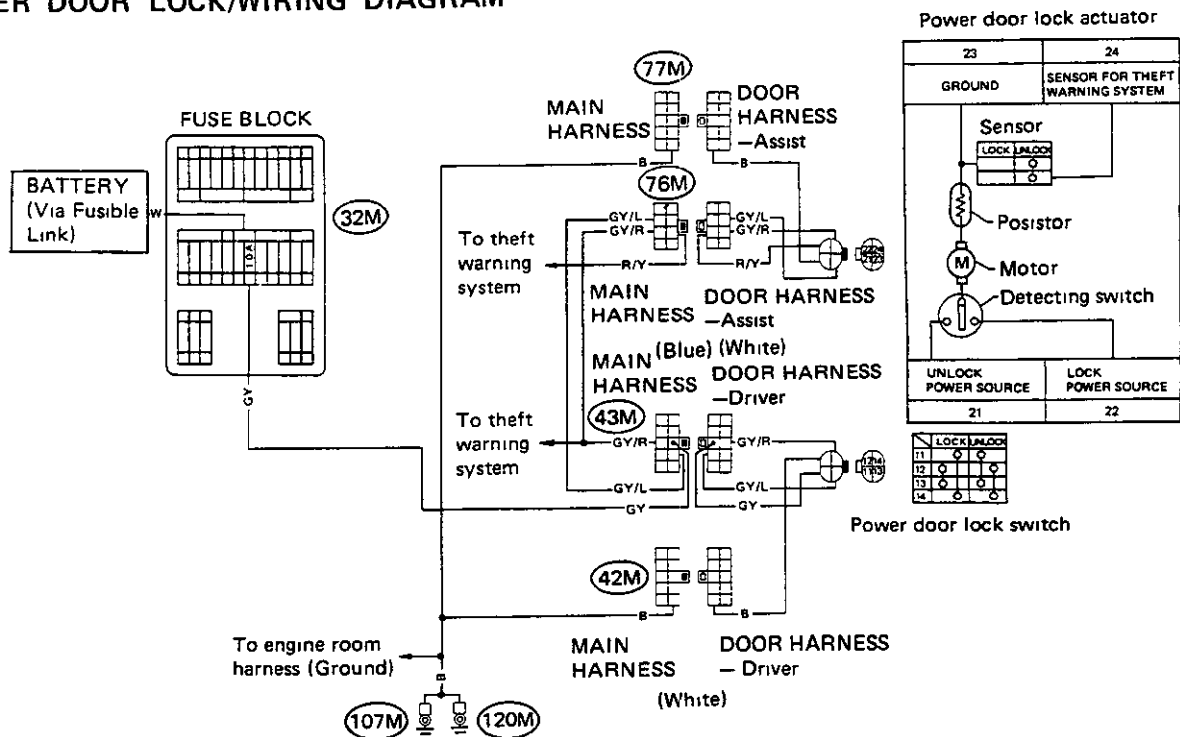
Front Door (Cont'd)

POWER WINDOW/WIRING DIAGRAM



SBF408B

POWER DOOR LOCK/WIRING DIAGRAM

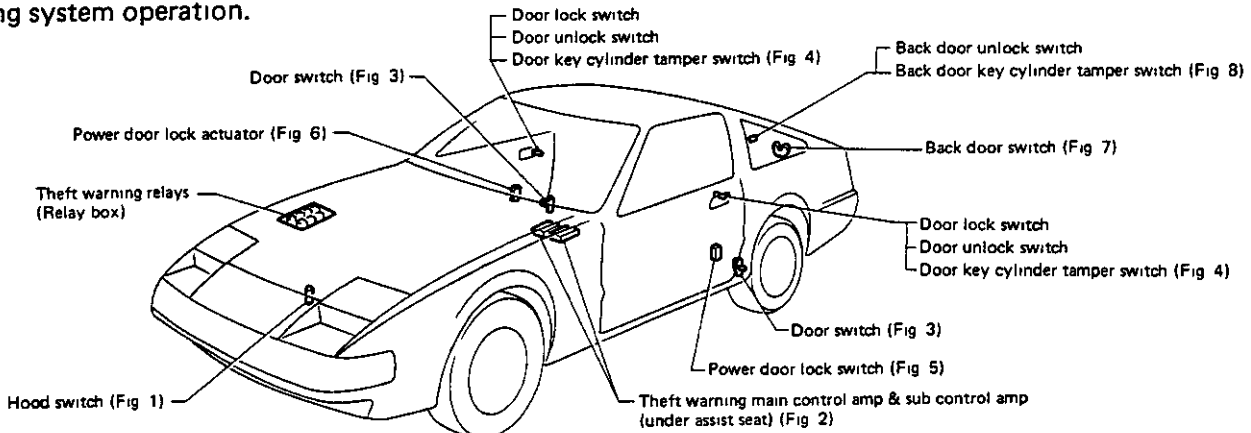


SBF409B

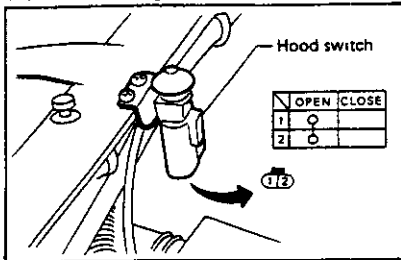
BODY END AND DOOR

Theft Warning System

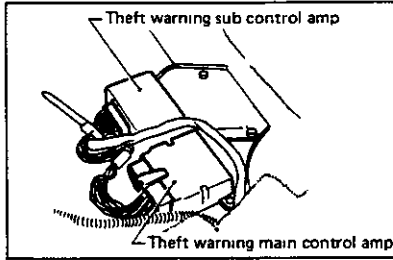
- When adjusting hood, front door, back door or removing & installing them or switches, check theft warning system operation.



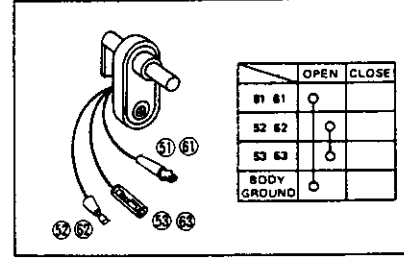
Hood switch (Fig 1)



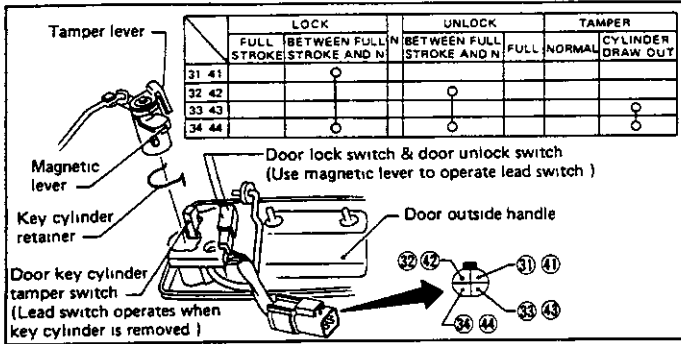
Theft warning main control amp & sub control amp (Fig 2)



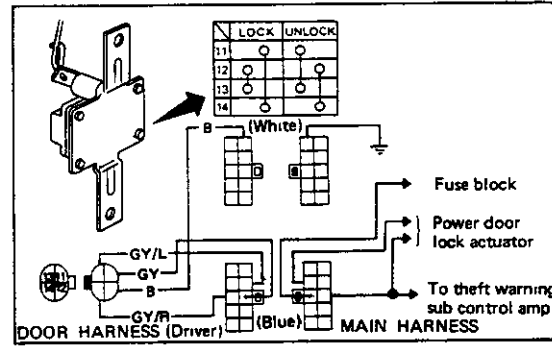
Door switch (Fig 3)



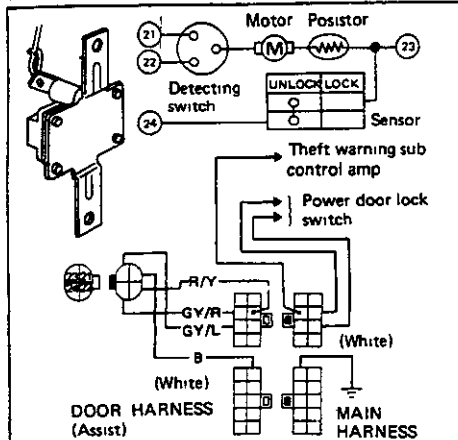
Door lock switch, unlock switch and key cylinder tamper switch (Fig 4)



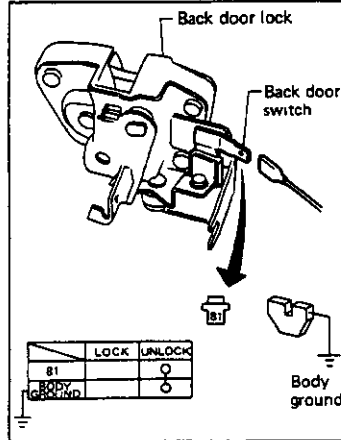
Power door lock switch (Fig 5)



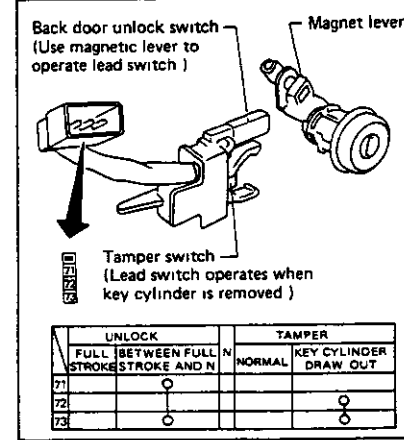
Power door lock actuator (Fig 6)



Back door switch (Fig 7)



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

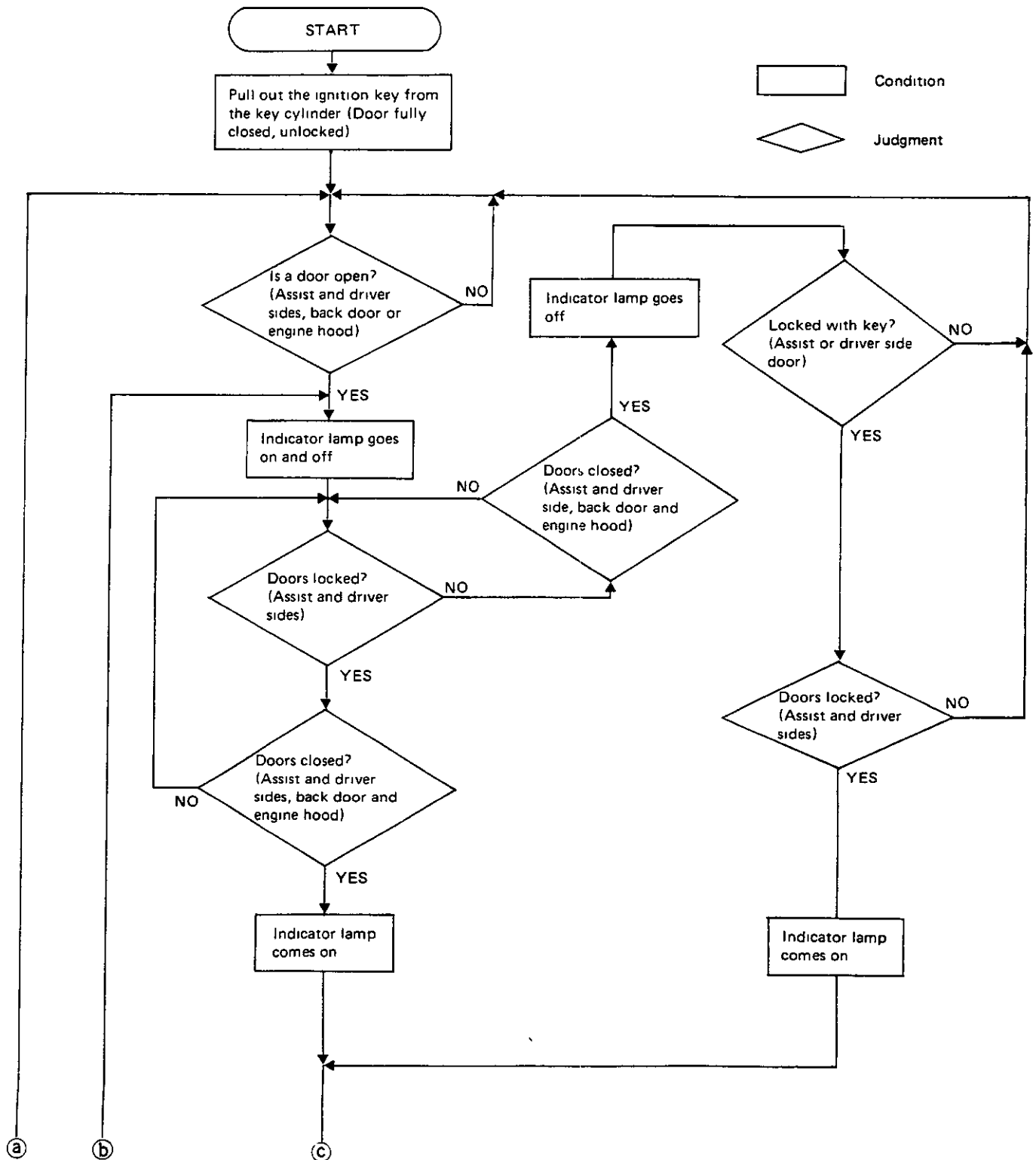


BODY END AND DOOR

Theft Warning System (Cont'd)

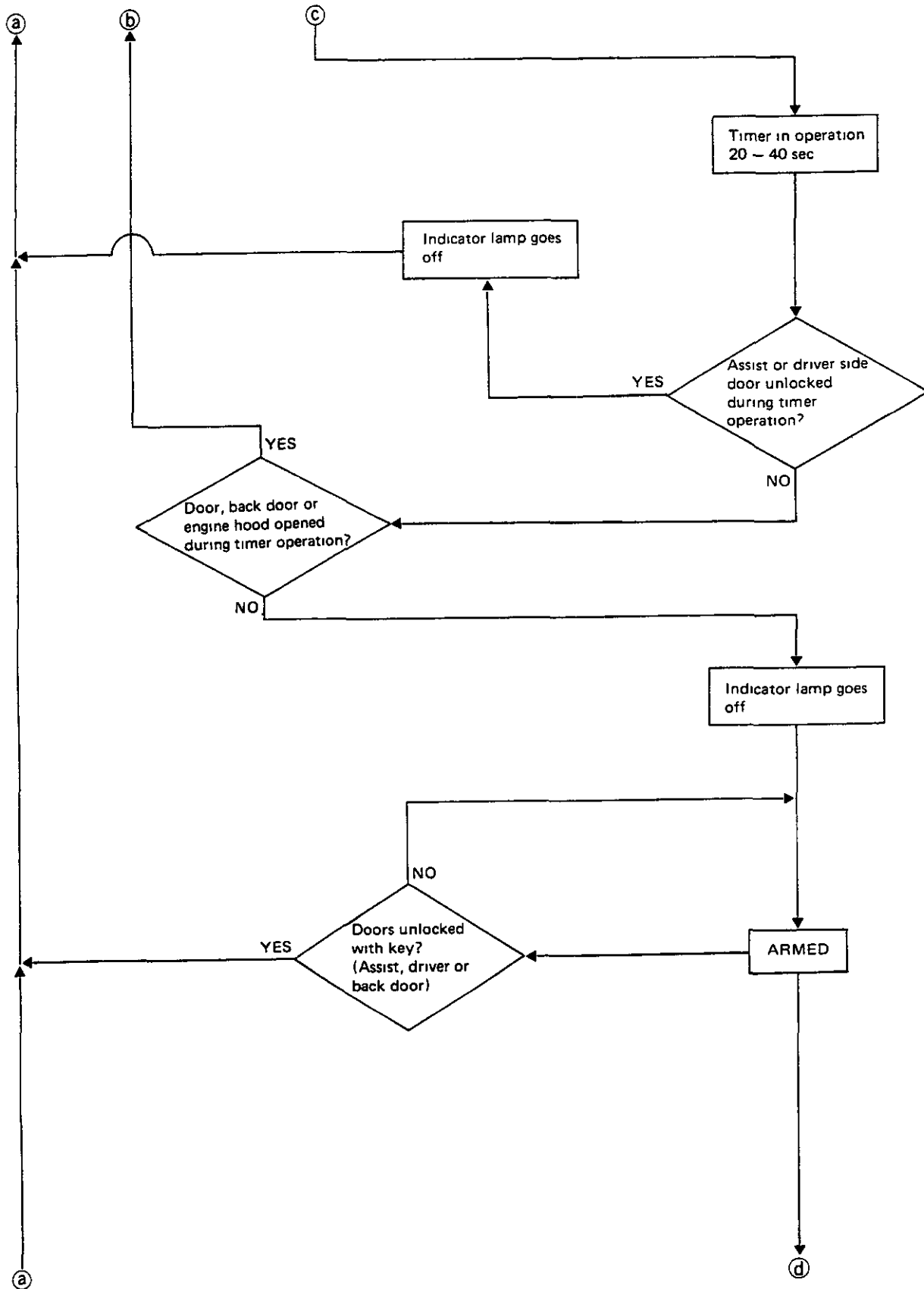
SYSTEM OPERATION

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



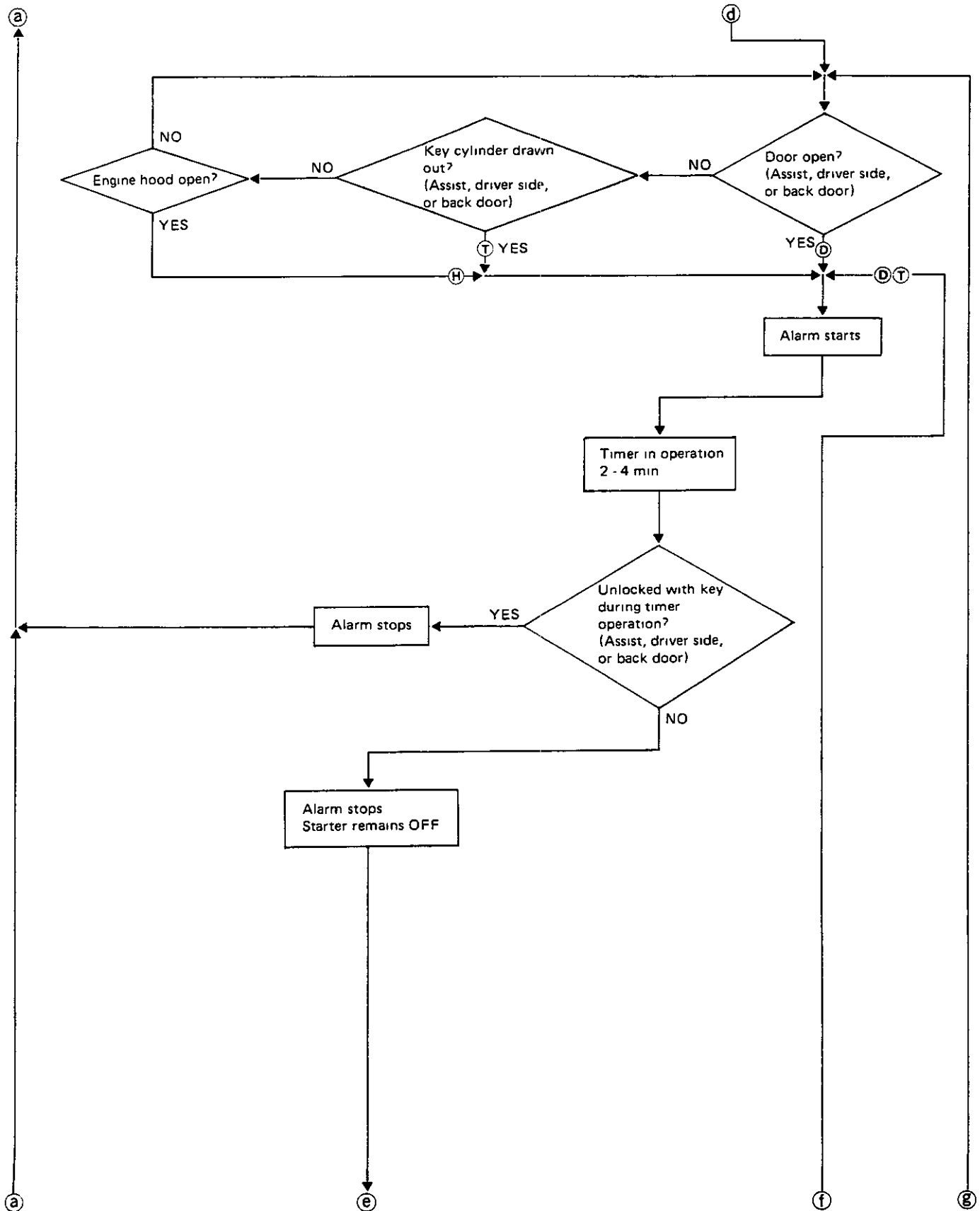
BODY END AND DOOR

Theft Warning System (Cont'd)



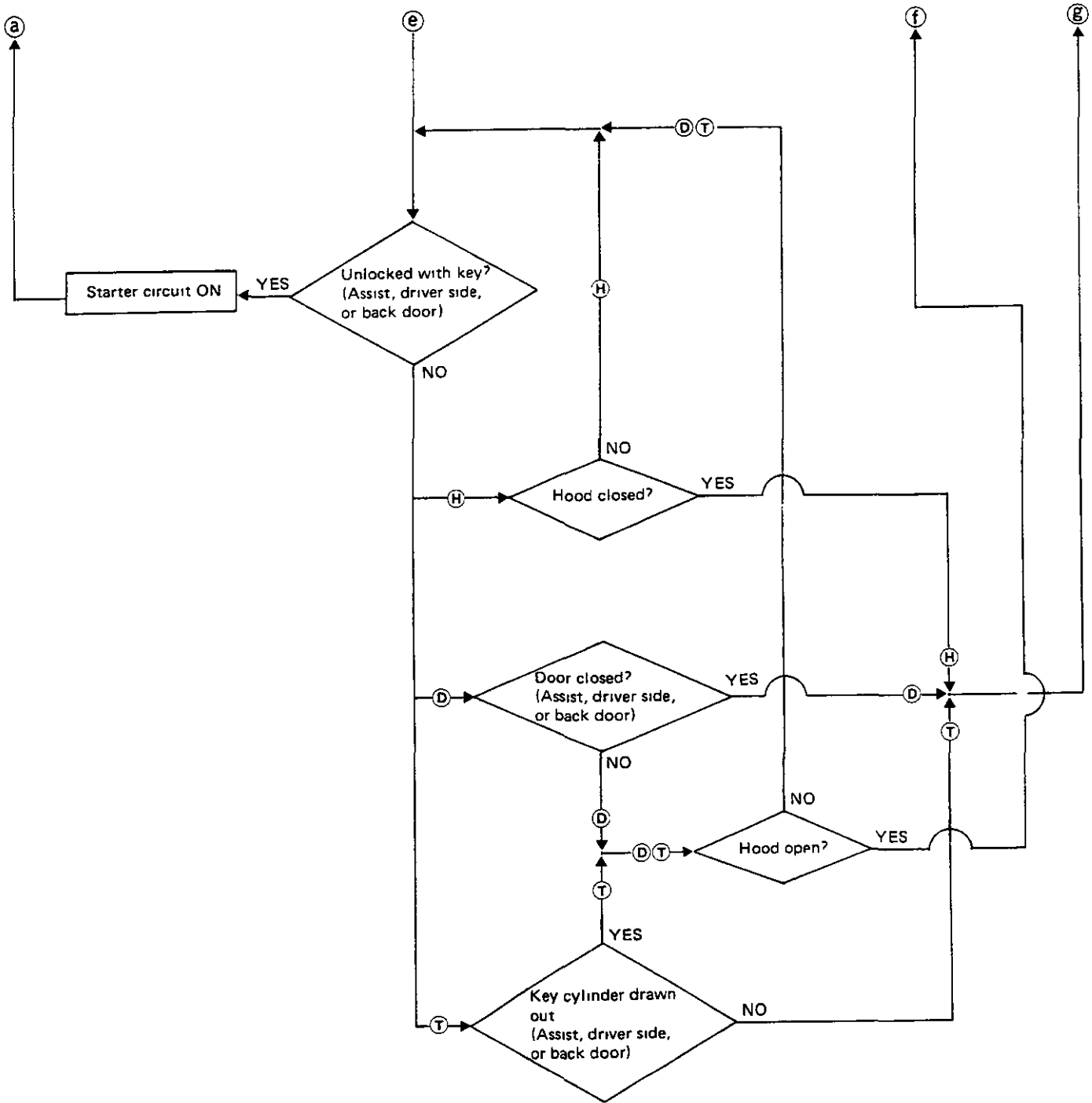
BODY END AND DOOR

Theft Warning System (Cont'd)



BODY END AND DOOR

Theft Warning System (Cont'd)



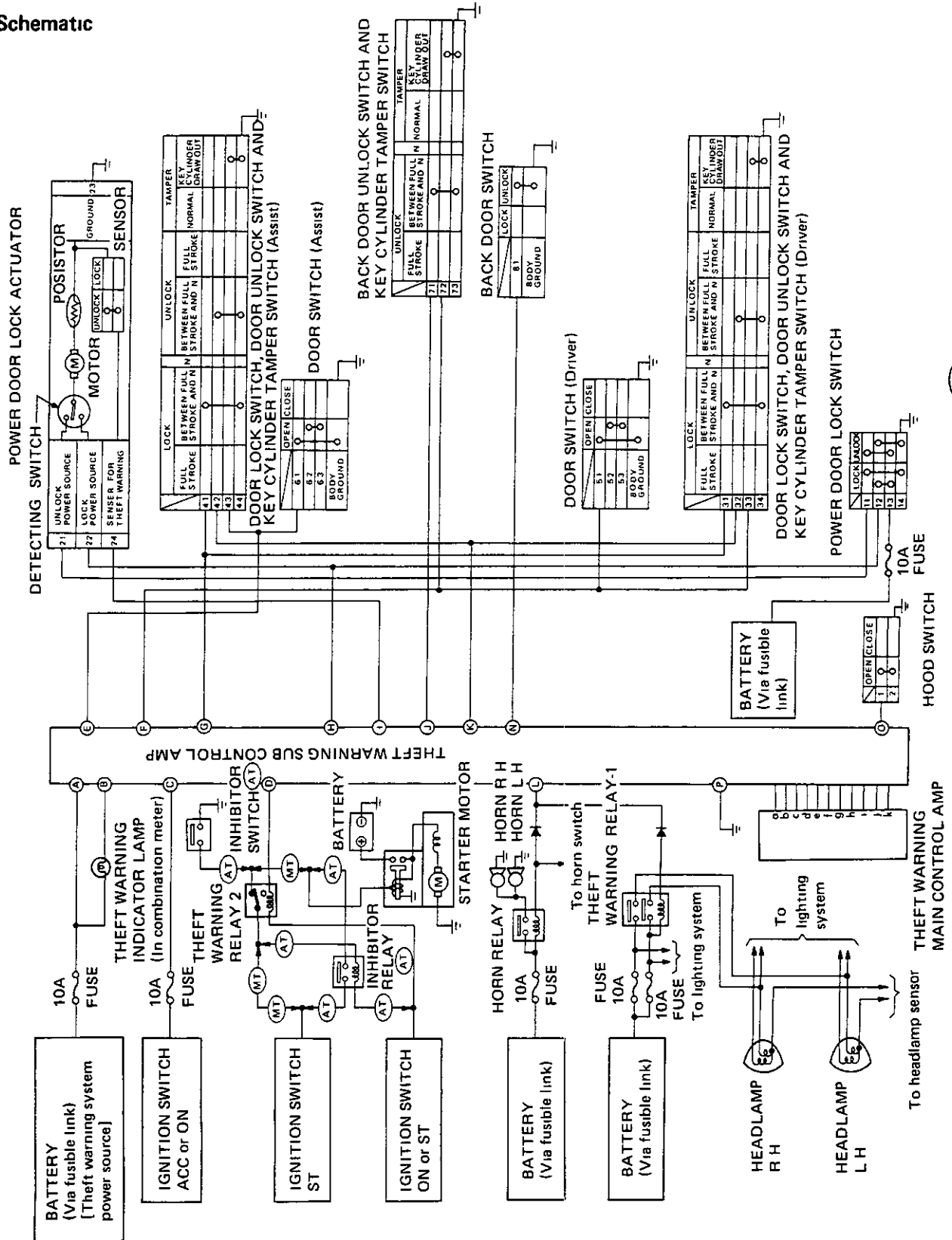
- Ⓜ Alarm actuated by opening hood
- ⓓ Alarm actuated by opening any door
(Driver, assist side, or back door)
- Ⓣ Alarm actuated by drawing out any key cylinder
(Driver, assist side, or back door)

BODY END AND DOOR

Theft Warning System (Cont'd)

SCHEMATIC AND OPERATION CHART

Schematic



BODY END AND DOOR

Theft Warning System (Cont'd)

Operation chart

Ⓐ - Ⓟ are the theft warning sub control AMP terminals (Refer to Wiring Diagram)

Step	System operation	Condition (The items for each step must all be fulfilled)	Sensor operation (O operates X does not operate - not affected)											
			Ignition SW OFF	Driver side door SW		Assist side door SW		Back door SW		Hood SW				
				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)			
		Ⓕ - Grounded		Ⓕ - Not grounded		Ⓖ - Grounded		Ⓖ - Not grounded		Ⓓ - Grounded		Ⓓ - Not grounded		
①	Disarmed phase • Indicator lamp OFF	• Ignition SW OFF	O	X	O	X	O	X	O	X	O			
②	Disarmed phase • Indicator lamp goes ON and OFF (Ⓑ terminal voltage is changed to approx 15V and 12V alternately)	• Ignition SW OFF • Open door hood or back door	O	(O)	(X)	(O)	(X)	(O)	(X)	(O)	(X)			
At least one of the switches for driver side door assist side door back door or hood turns ON														
③	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 the time of the phase is extended accordingly) Armed phase • Indicator lamp goes OFF [Ⓑ terminal voltage is approx 15V for 20-40 sec and then approx 12V by a timer operation]	• Ignition SW OFF • Type 1 Close doors hood and back door and then lock doors with key • Type 2 Close & lock hood back door and assist door and then lock & close driver door without key • Type 3 Close & lock hood back door and driver door and then close & lock assist door without key • Type 4 Close & lock doors and hood (or back door) and then close back door (or hood)	O	X	O	X	O	X	O	X	O			
			O	X	O			X	O	X	O	X	O	
			O	X	O			X	O	X	O	X	O	
			O	X	O			X	O	X	O	X	O	
			O	X	O	X	O	(X)	(O)	(X)	(O)	After locking & closing doors and hood (or back door) close back door (or hood)		

BODY END AND DOOR

Theft Warning System (Cont'd)

Sensor operation (O operates X does not operate - not affected)												
Driver side door lock SW	Assist side door lock SW	Power door lock SW		Power door lock actuator		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	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 (Key cylinder draw out)	ON (Key cylinder draw out)	
ⓐ - Not grounded → Grounded → Not grounded	←	ⓓ - 12V current flows	ⓓ - Grounded	ⓑ - Not grounded	ⓑ - Grounded	Ⓚ - Not grounded → Grounded → Not grounded	←	ⓙ - Not grounded → Grounded → Not grounded	ⓕ - Grounded	ⓔ - Grounded	ⓕ - Grounded	
-	-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	
(O)	(O)	O	X	O	X	X						
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						X	X	X	X	X
X	-	O	X	O	X	X	X	X	X	X	X	
-	X	O	X	O	X	X	X	X	X	X	X	
-	-	O	X	O	X	X	X	X	X	X	X	

BODY END AND DOOR

Theft Warning System (Cont'd)

(A) - (P) are the theft warning sub control AMP terminals (Refer to Wiring Diagram)

Step	System operation	Condition (The items for each step must all be fulfilled)	Sensor operation (O operates X does not operate - not affected)									
			Ignition SW OFF	Driver side door SW		Assist side door SW		Back door SW		Hood SW		
				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	(E) - Grounded	(E) - Not grounded	(N) - Grounded	(N) - Not grounded	(G) - Grounded	(G) - Not grounded	
④	Alarm phase • Horn sounds intermittently (L is grounded intermittently in the sub control AMP) • Head lamp (Dimmer) flashes ON and OFF (L is grounded intermittently in the sub control AMP) • Starter motor can not operate (D is grounded in the main control AMP via the sub control AMP) [Warning by the horn and head lamps 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 unlock SW is received.]	• Ignition SW OFF • (Type 1) Open doors or back door without key	O	(O)	(X)	(O)	(X)	(O)	(X)	X	O	
		(Type 2) Open hood	O	X	O	X	O	X	O	O	O	X
		(Type 3) Draw out key cylinder at doors or back door	O	X	O	X	O	X	O	X	X	O
⑤	Reset	• (Type 1) - Ready phase to Reset	(X)	(O)	(X)	(O)	(X)	(O)	(X)	(O)	(X)	
		• (Type 2) - Armed phase to Reset	(X)	X	O	X	O	X	O	X	O	
		• (Type 3) - Alarm phase to Reset	-	-	-	-	-	-	-	-	-	

BODY END AND DOOR

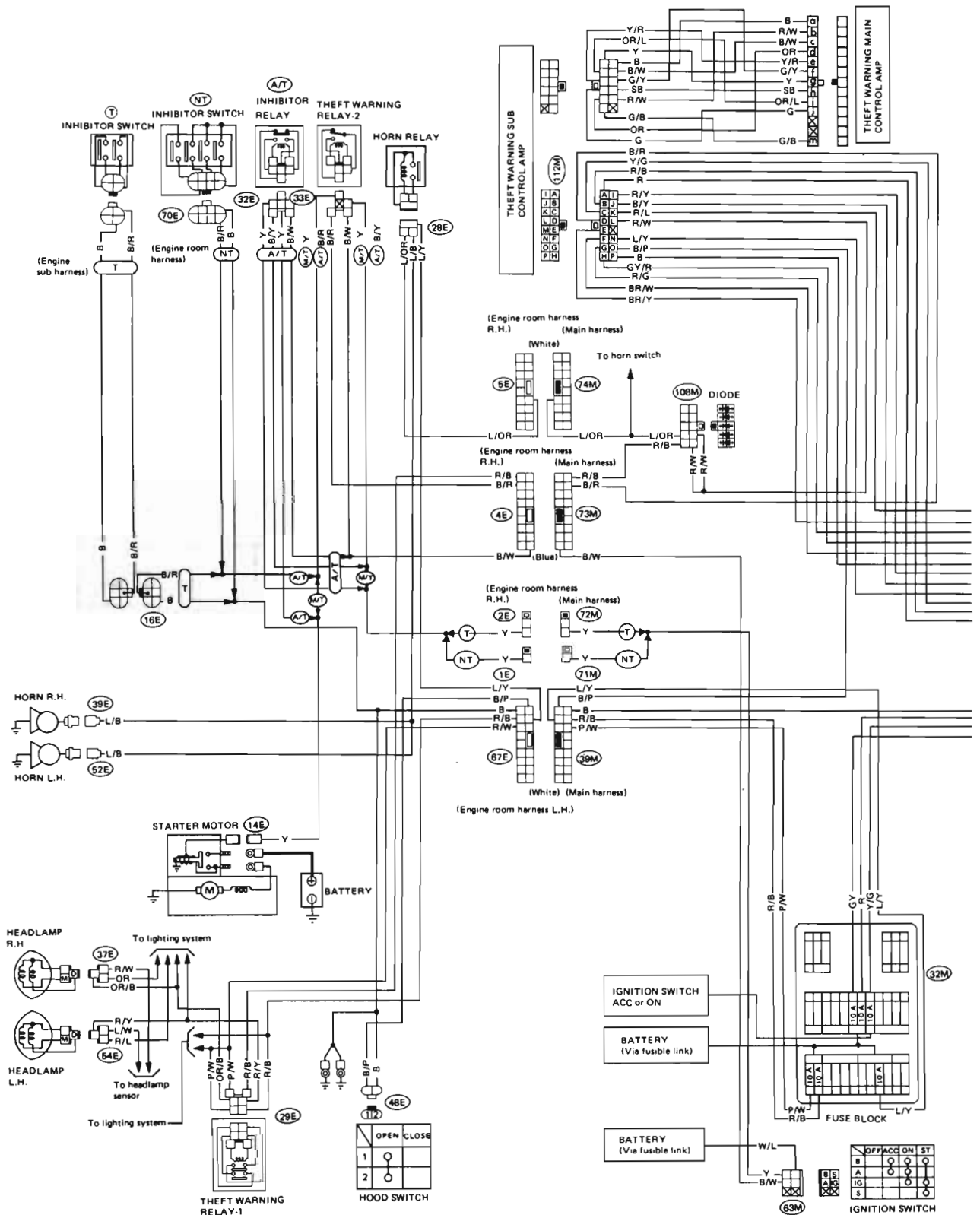
Theft Warning System (Cont'd)

Sensor operation (O operates X does not operate - not affected)											
Driver side door lock SW	Assist side door lock SW	Power door lock SW		Power door lock actuator		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	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 (Key cylinder draw out)	ON (Key cylinder draw out)
ⓐ - Not grounded → Grounded → Not grounded	←	Ⓜ - 12V current flows	Ⓜ - Grounded	Ⓛ - Not grounded	Ⓛ - Grounded	Ⓚ - Not grounded → Grounded → Not grounded	←	Ⓜ - Not grounded → Grounded → Not grounded	ⓕ - Grounded	ⓔ - Grounded	ⓕ - Grounded
-	-	(X)	(O)	(X)	(O)						
		Either one or both the power door lock switch and power door lock actuator turns to the unlocked position				X	X	X	X	X	X
-	-	O	X	O	X	X	X	X	X	X	X
-	-	O	X	O	X	X	X	X	(O)	(O)	(O)
		At least one of the key cylinder tamper switches turns ON									
-	-	(X)	(O)	(X)	(O)	(O)	(O)	(O)	X	X	X
		At least one of the signals for the ignition switch ACC power door lock switch unlock, power door lock actuator unlock door unlock switch ON back door unlock switch ON door switches ON back door switch ON or hood switch ON is given									
-	-	O	X	O	X	(O)	(O)	(O)	X	X	X
		At least one of the signals for the ignition SW ACC door unlock SW ON or back door unlock SW ON is given									
-	-	-	-	-	-	(O)	(O)	(O)	-	-	-
		At least one of the switches for the door unlock and back door unlock turns ON									

BODY END AND DOOR

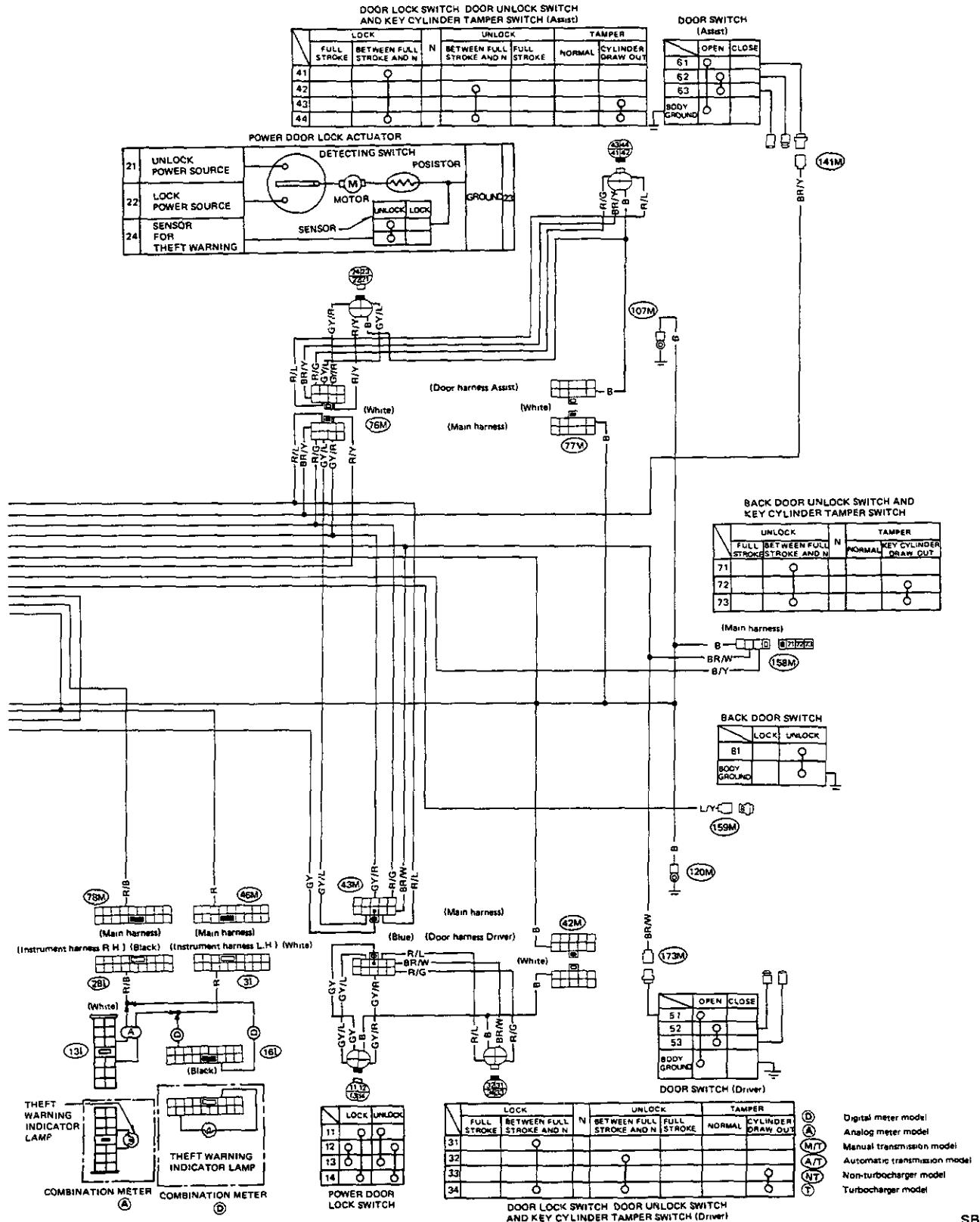
Theft Warning System (Cont'd)

WIRING DIAGRAM



BODY END AND DOOR

Theft Warning System (Cont'd)



SBF391B

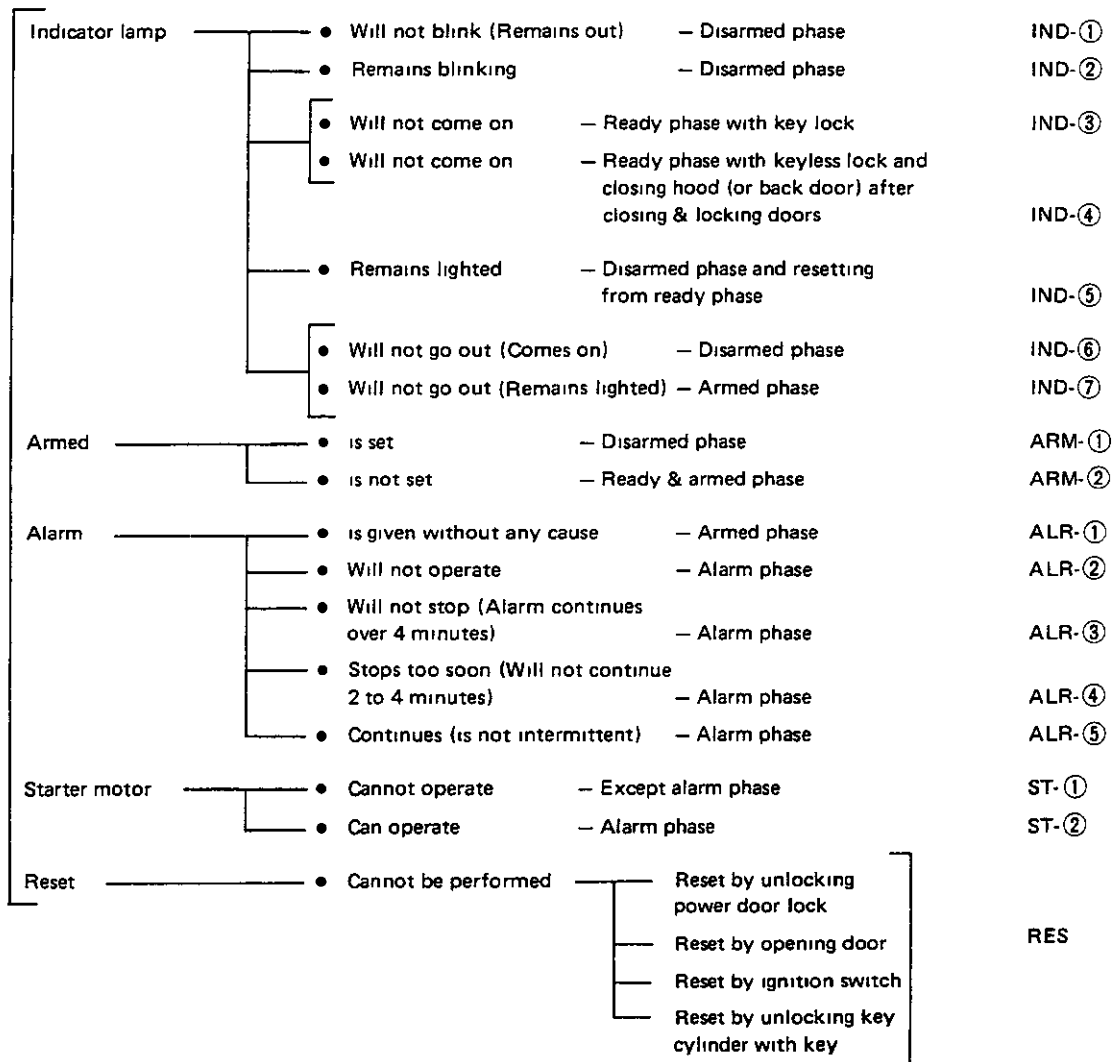
BODY END AND DOOR

Theft Warning System (Cont'd)

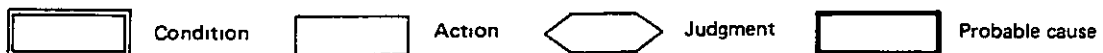
TROUBLE-SHOOTING

- 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"
- Ⓐ through Ⓟ 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

• Contents



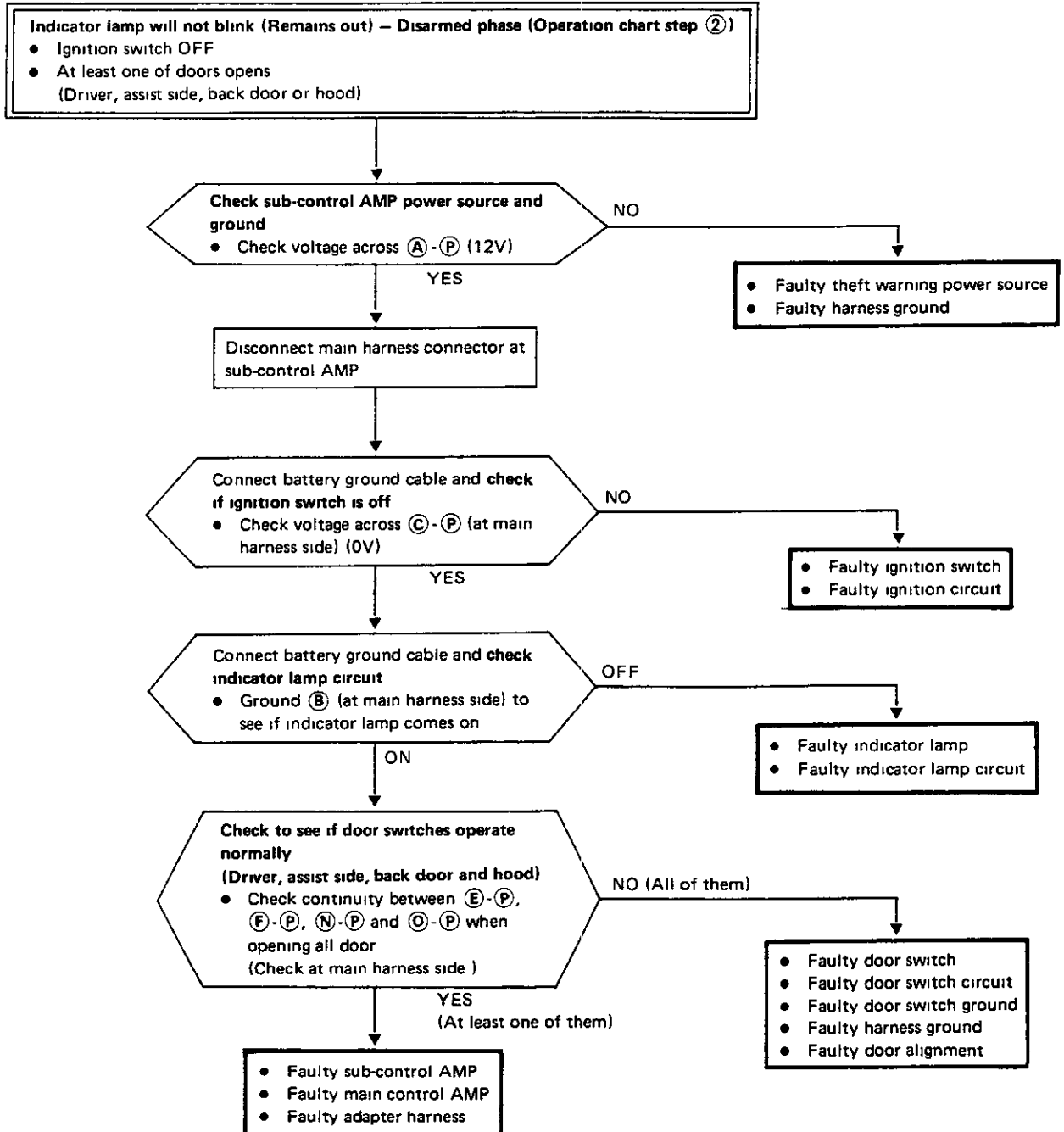
• Symbol.



BODY END AND DOOR

Theft Warning System (Cont'd)

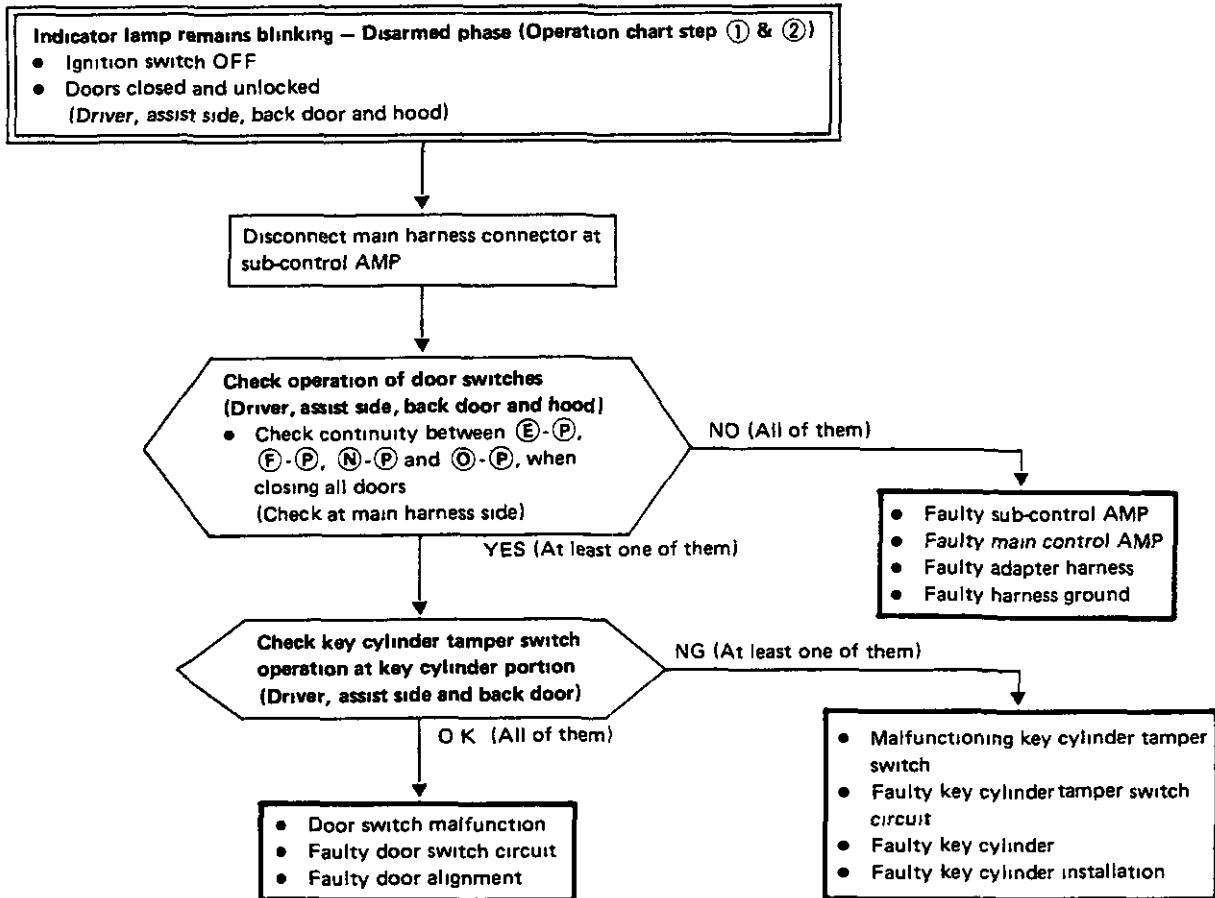
IND-①



BODY END AND DOOR

Theft Warning System (Cont'd)

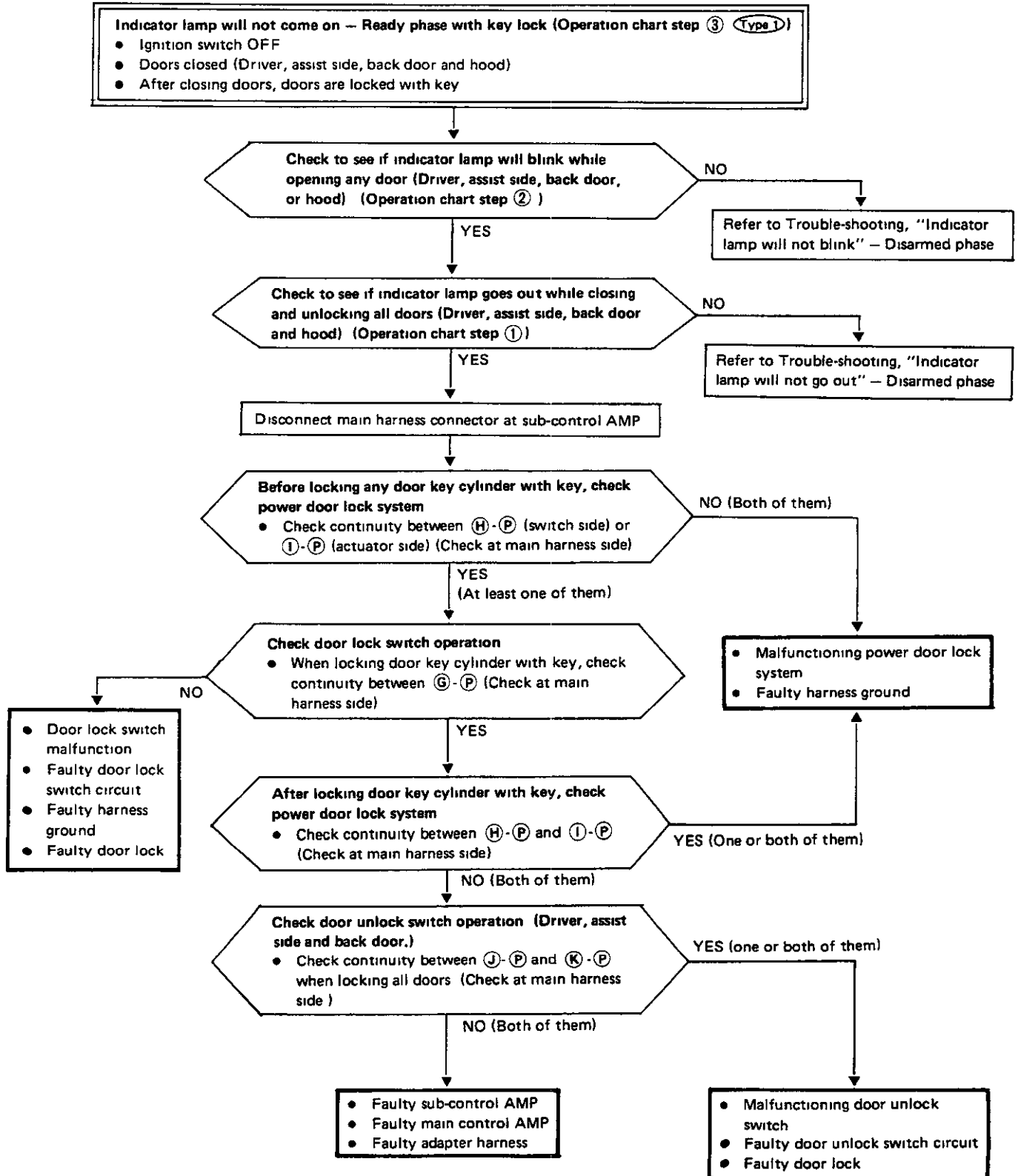
IND-②



BODY END AND DOOR

Theft Warning System (Cont'd)

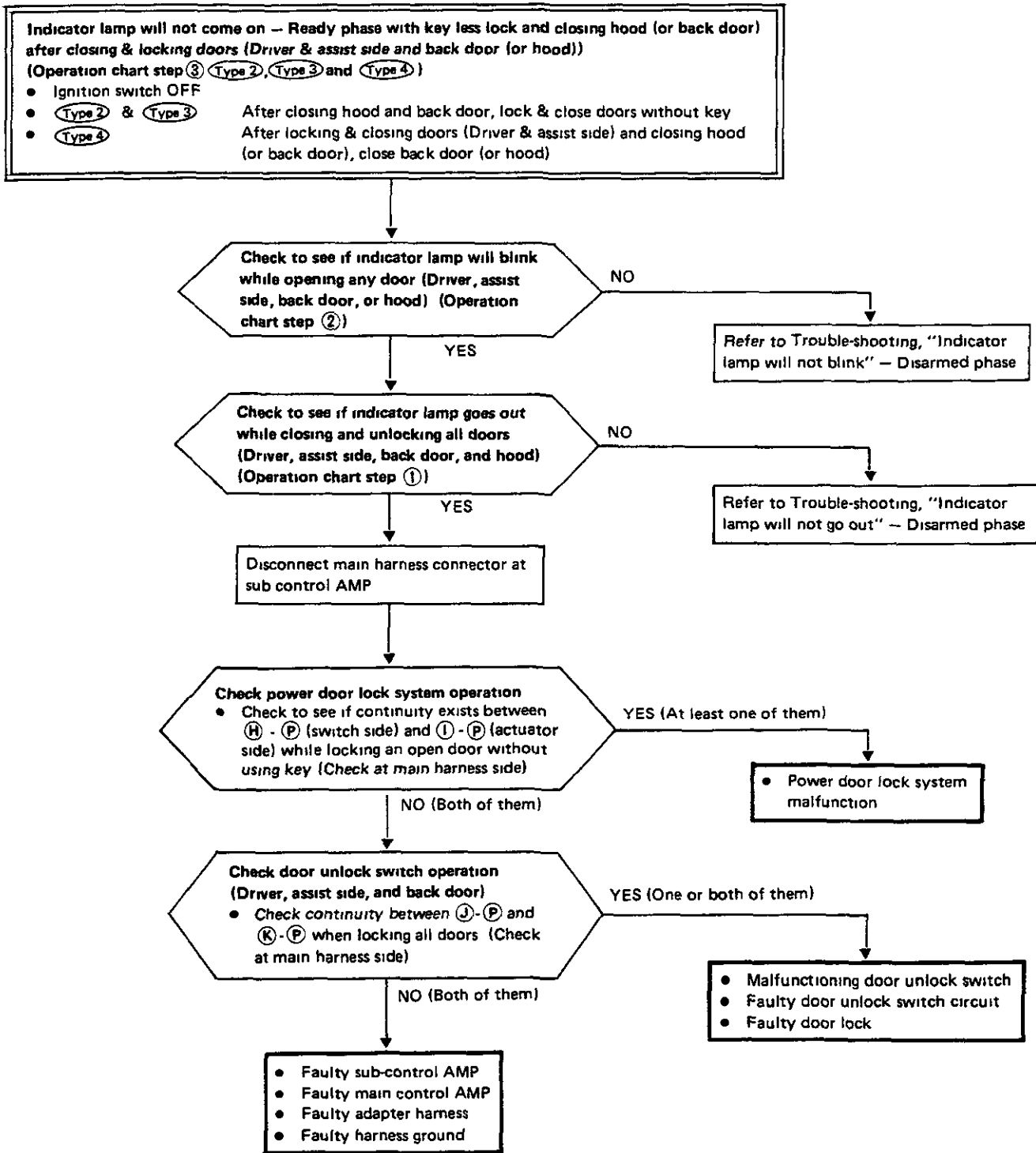
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BODY END AND DOOR

Theft Warning System (Cont'd)

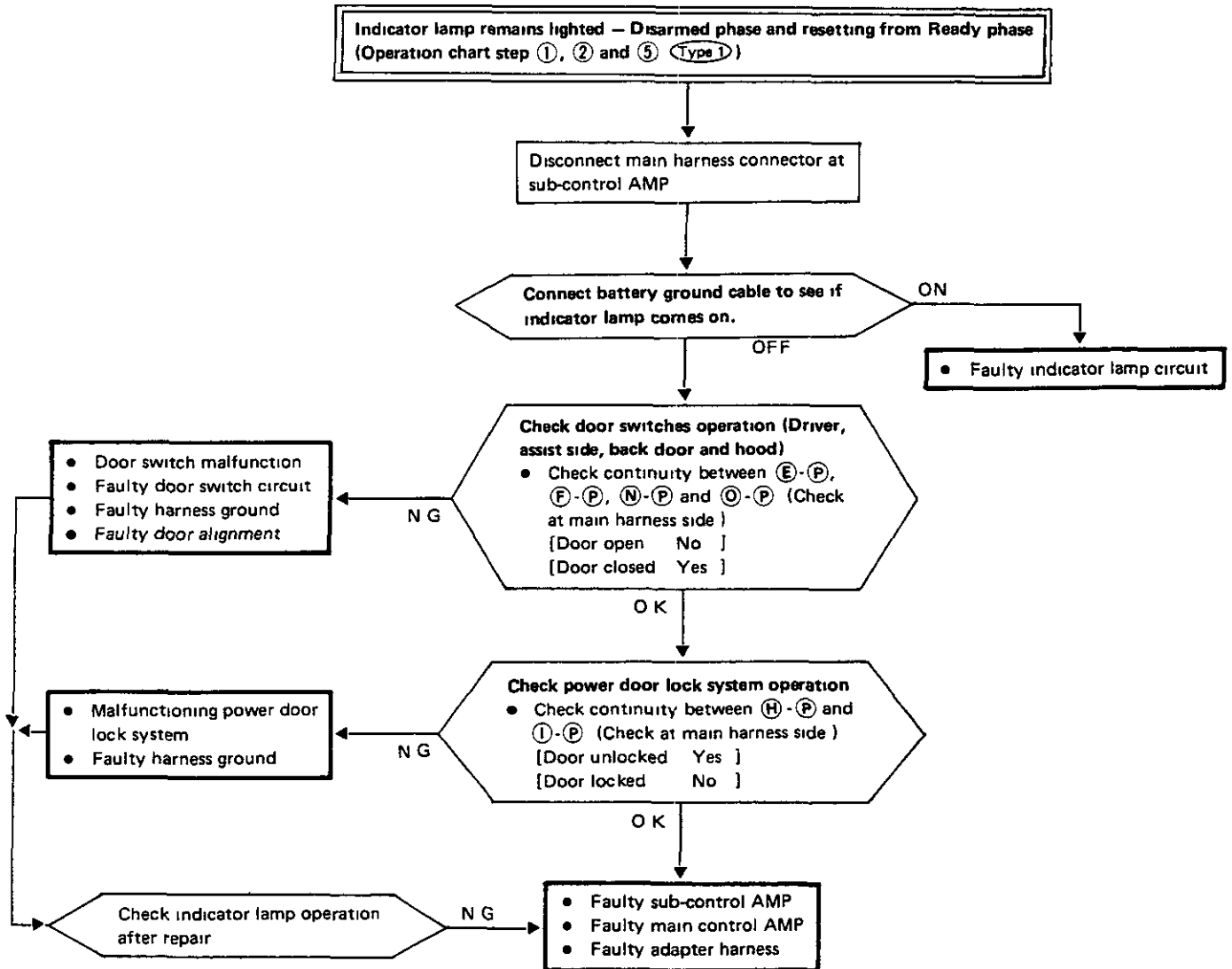
IND-④



BODY END AND DOOR

Theft Warning System (Cont'd)

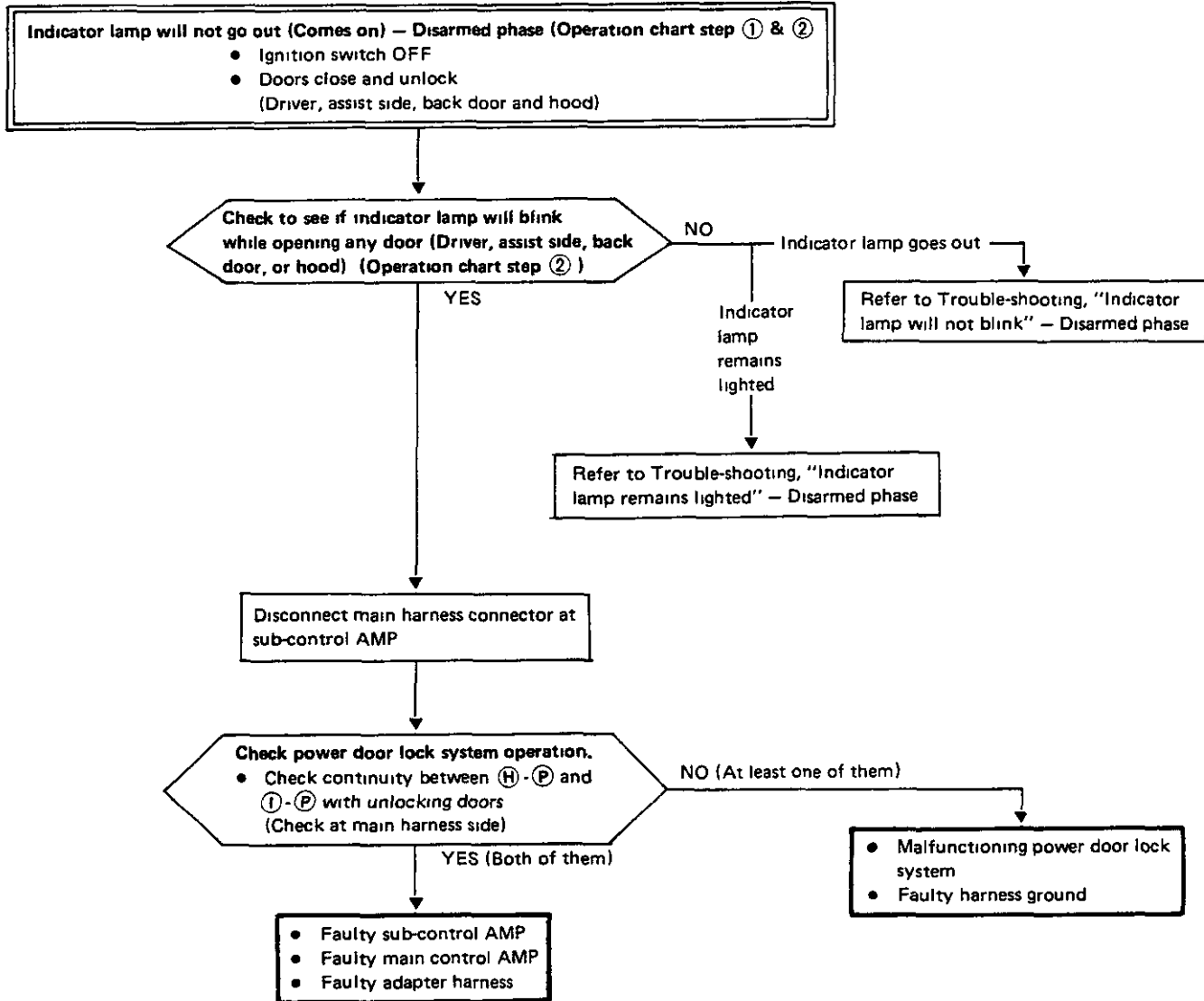
IND-⑤



BODY END AND DOOR

Theft Warning System (Cont'd)

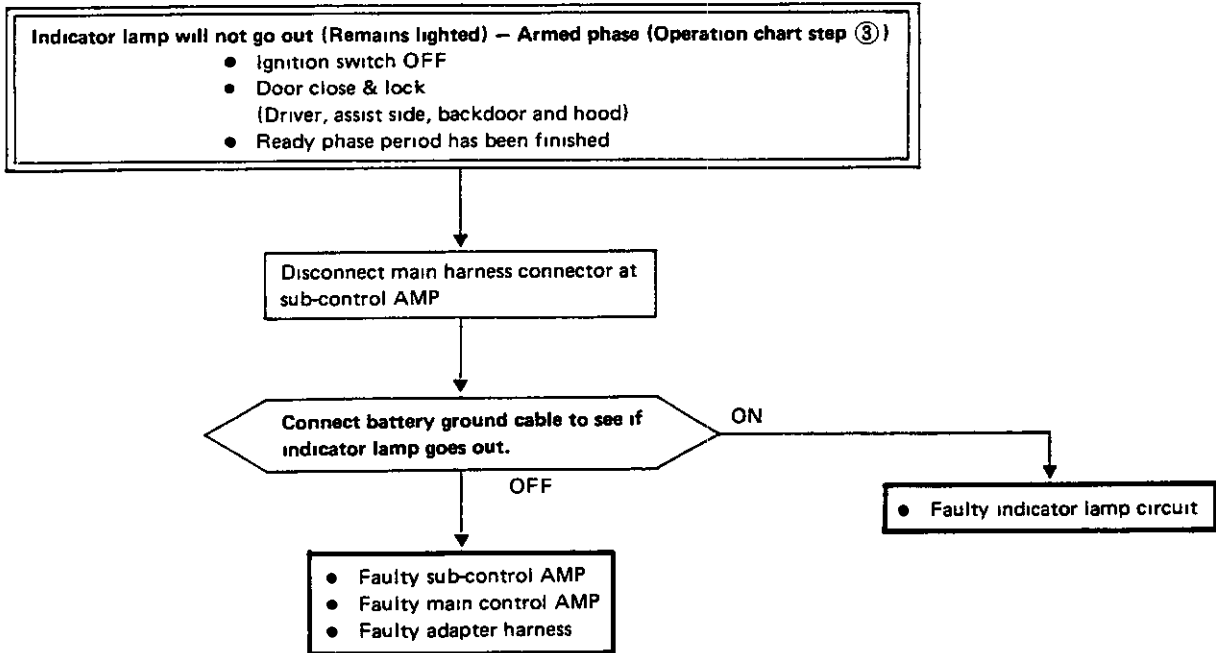
IND-⑥



BODY END AND DOOR

Theft Warning System (Cont'd)

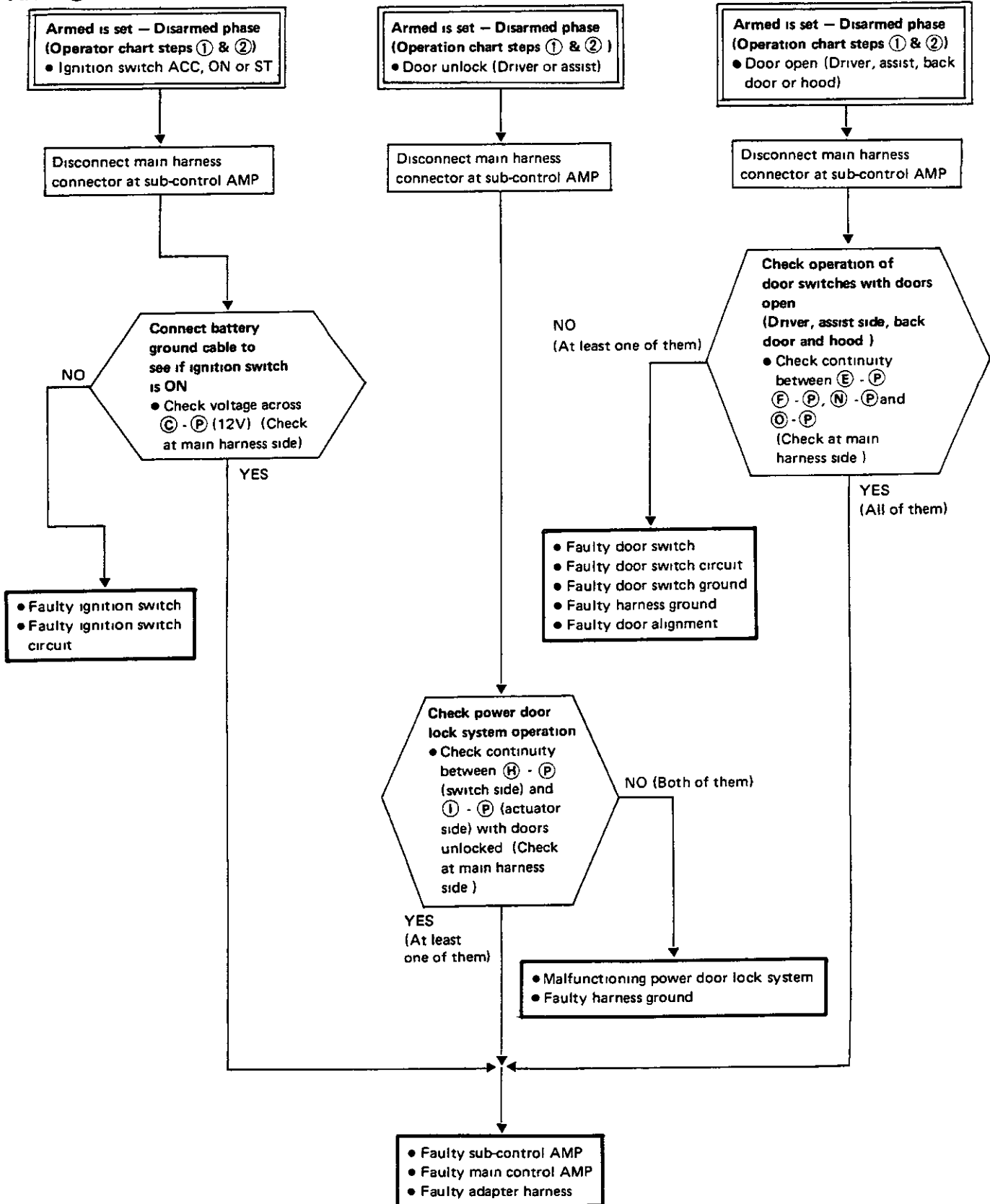
IND-⑦



BODY END AND DOOR

Theft Warning System (Cont'd)

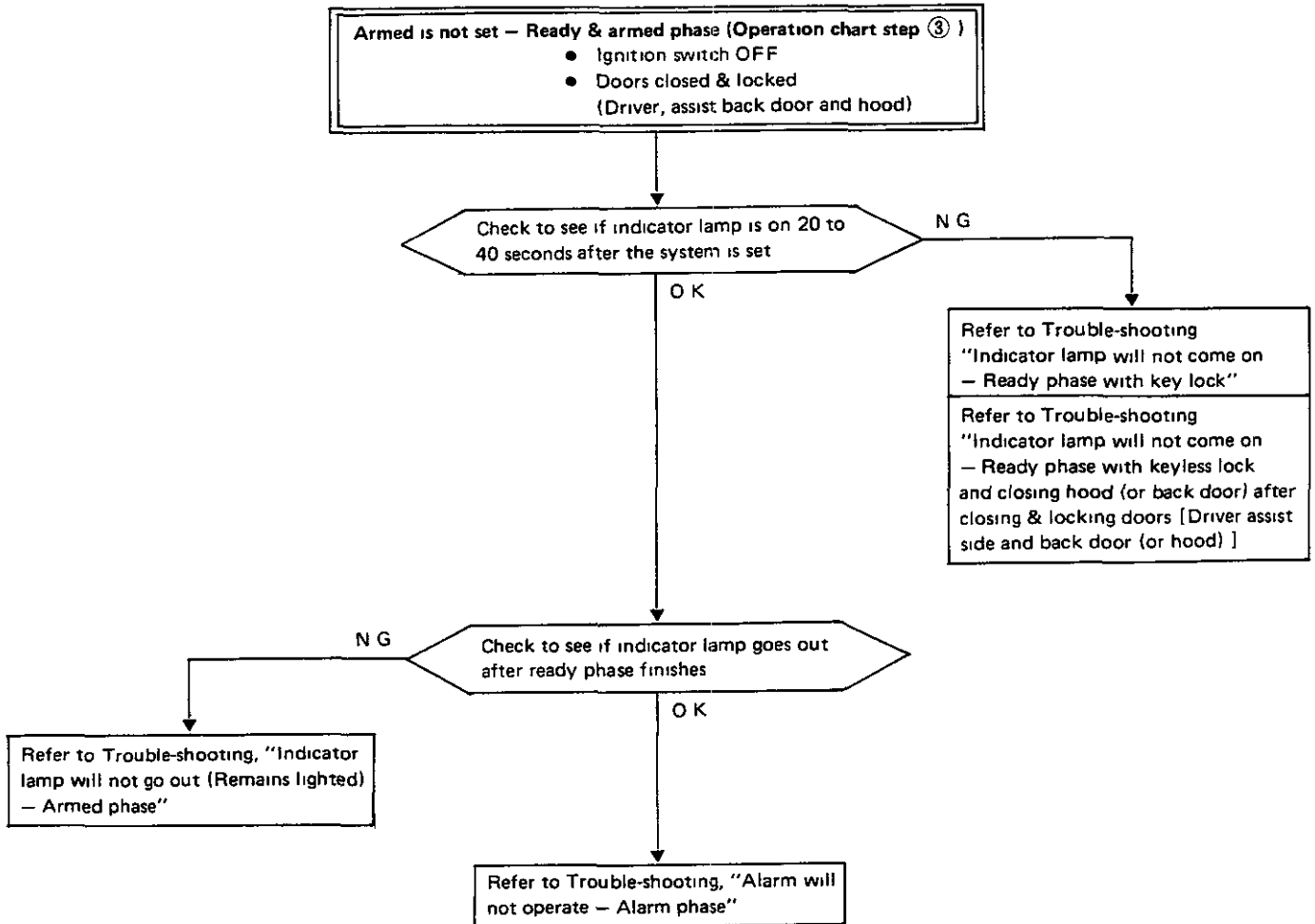
ARM-①



BODY END AND DOOR

Theft Warning System (Cont'd)

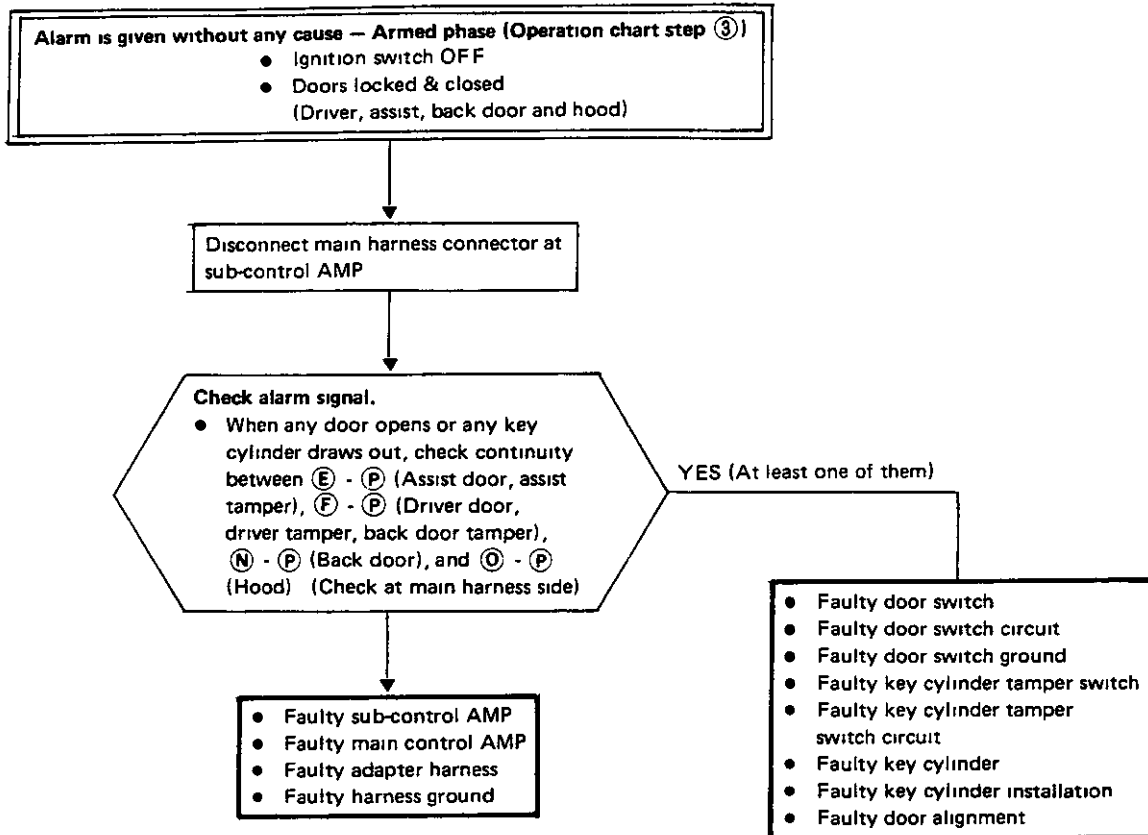
ARM-②



BODY END AND DOOR

Theft Warning System (Cont'd)

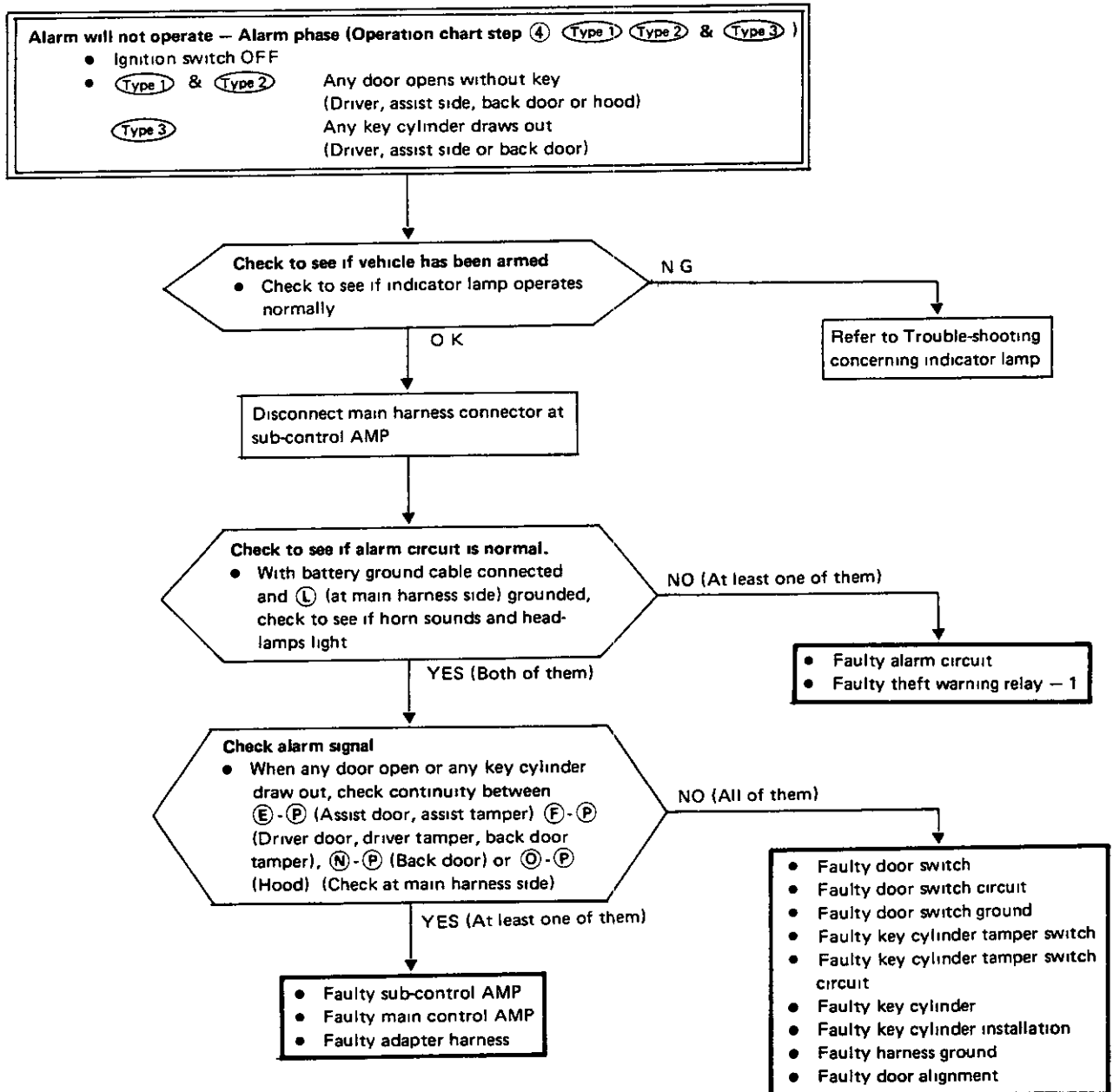
ALR-①



BODY END AND DOOR

Theft Warning System (Cont'd)

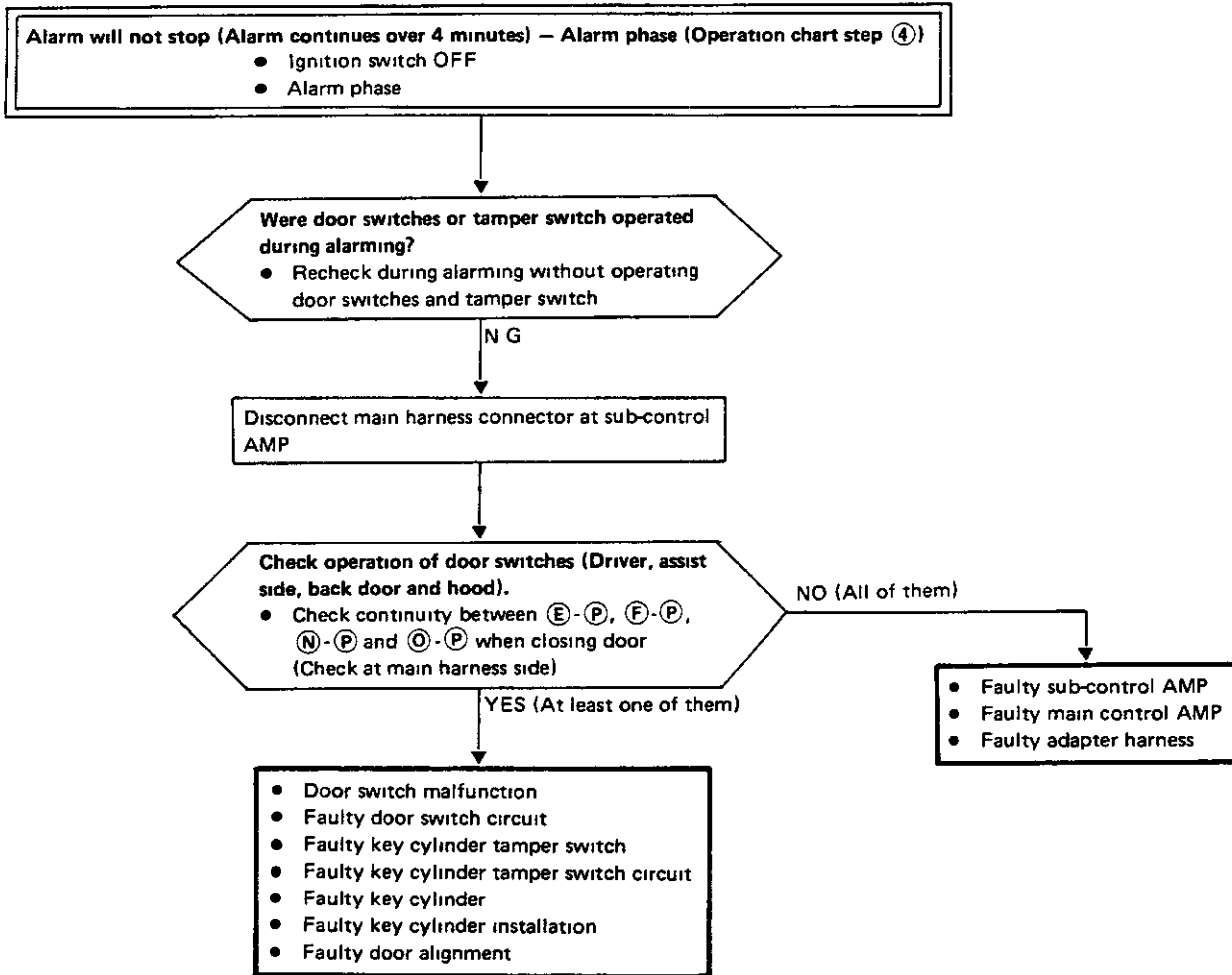
ALR-②



BODY END AND DOOR

Theft Warning System (Cont'd)

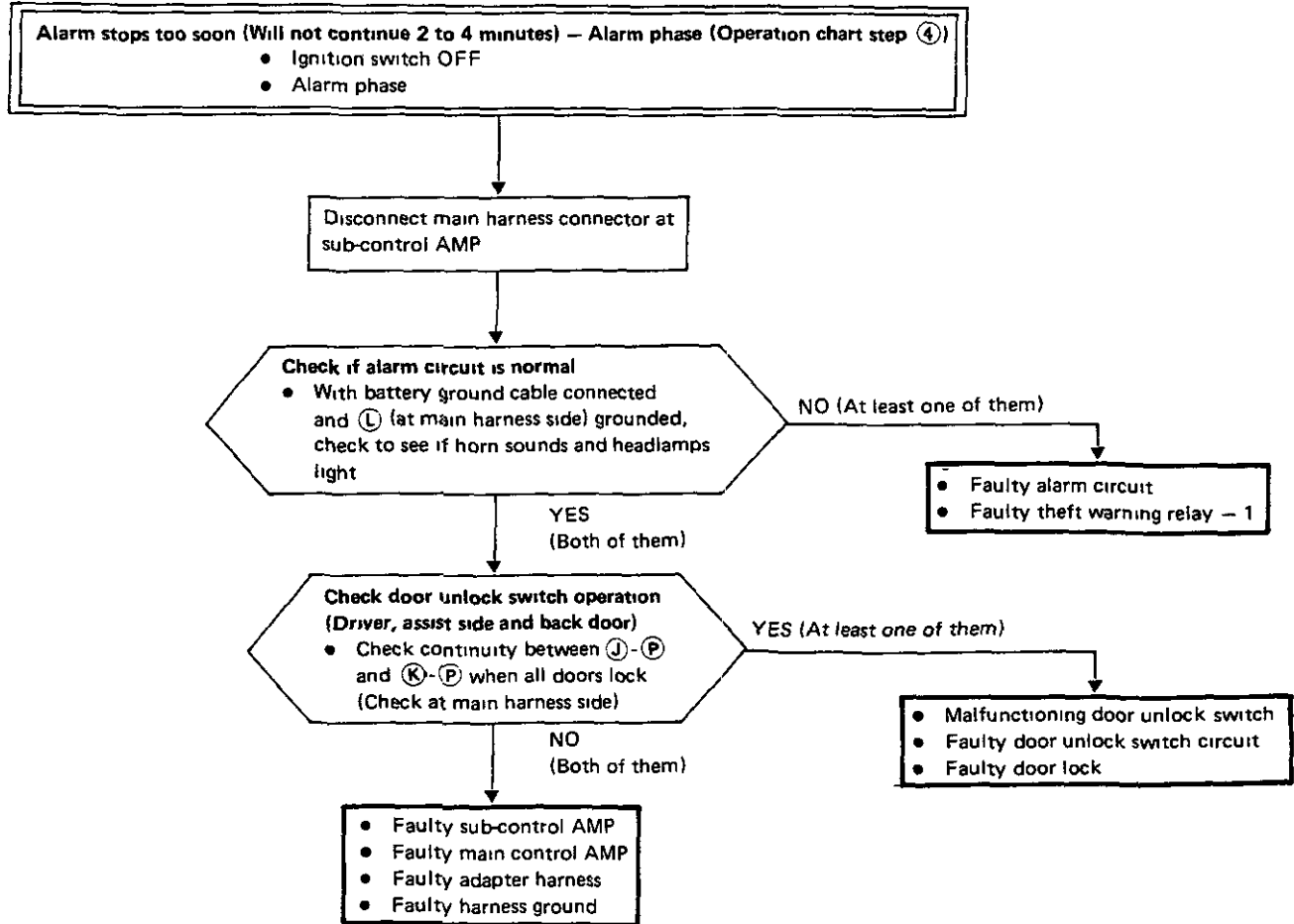
ALR-③



BODY END AND DOOR

Theft Warning System (Cont'd)

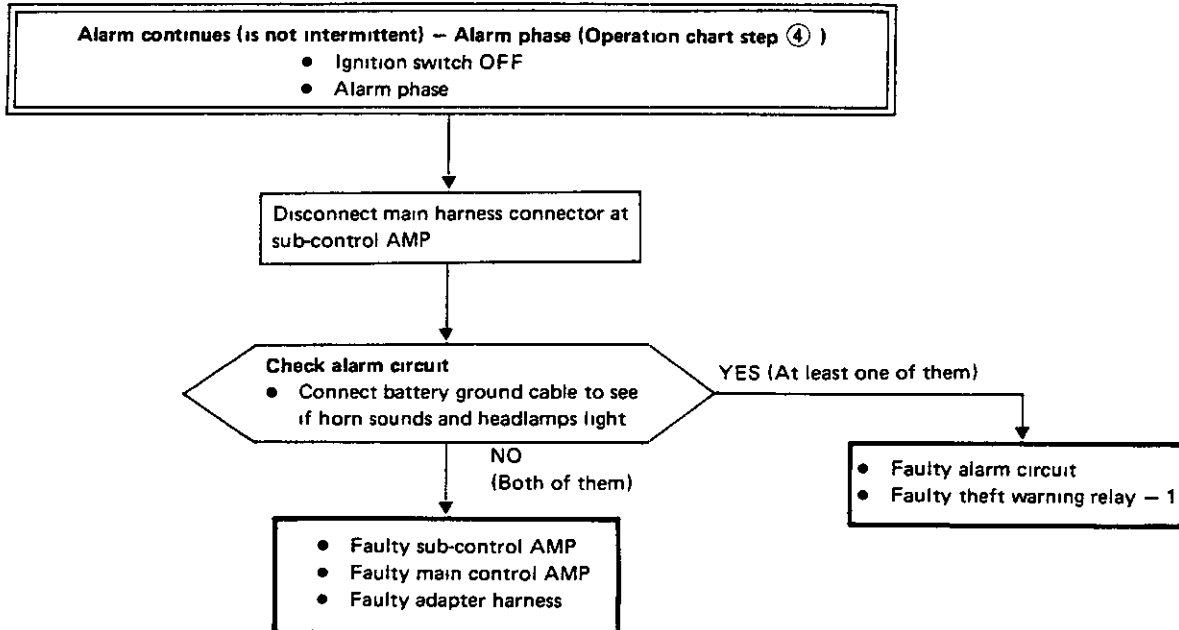
ALR-④



BODY END AND DOOR

Theft Warning System (Cont'd)

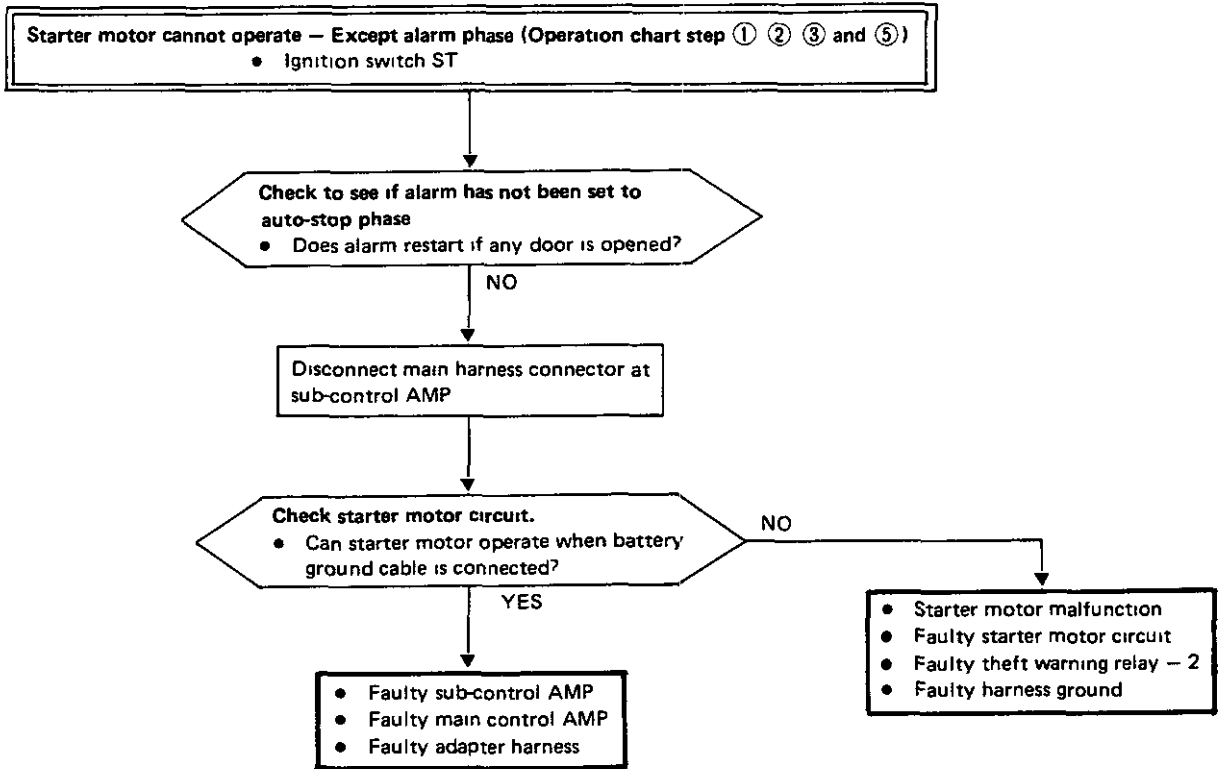
ALR-⑤



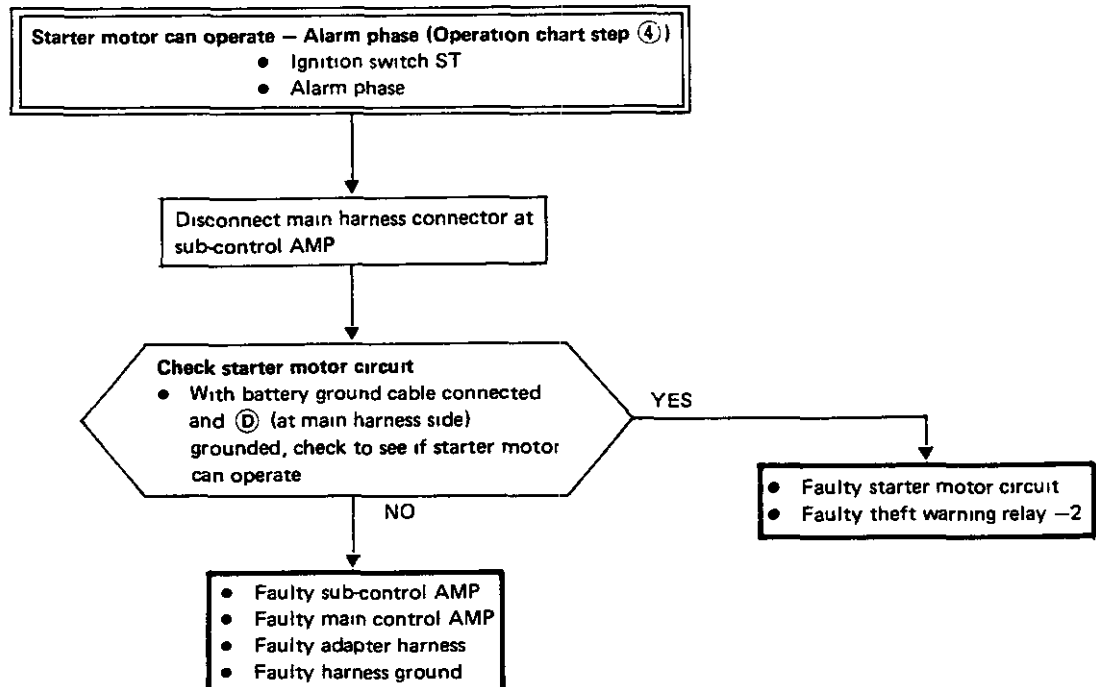
BODY END AND DOOR

Theft Warning System (Cont'd)

ST-①



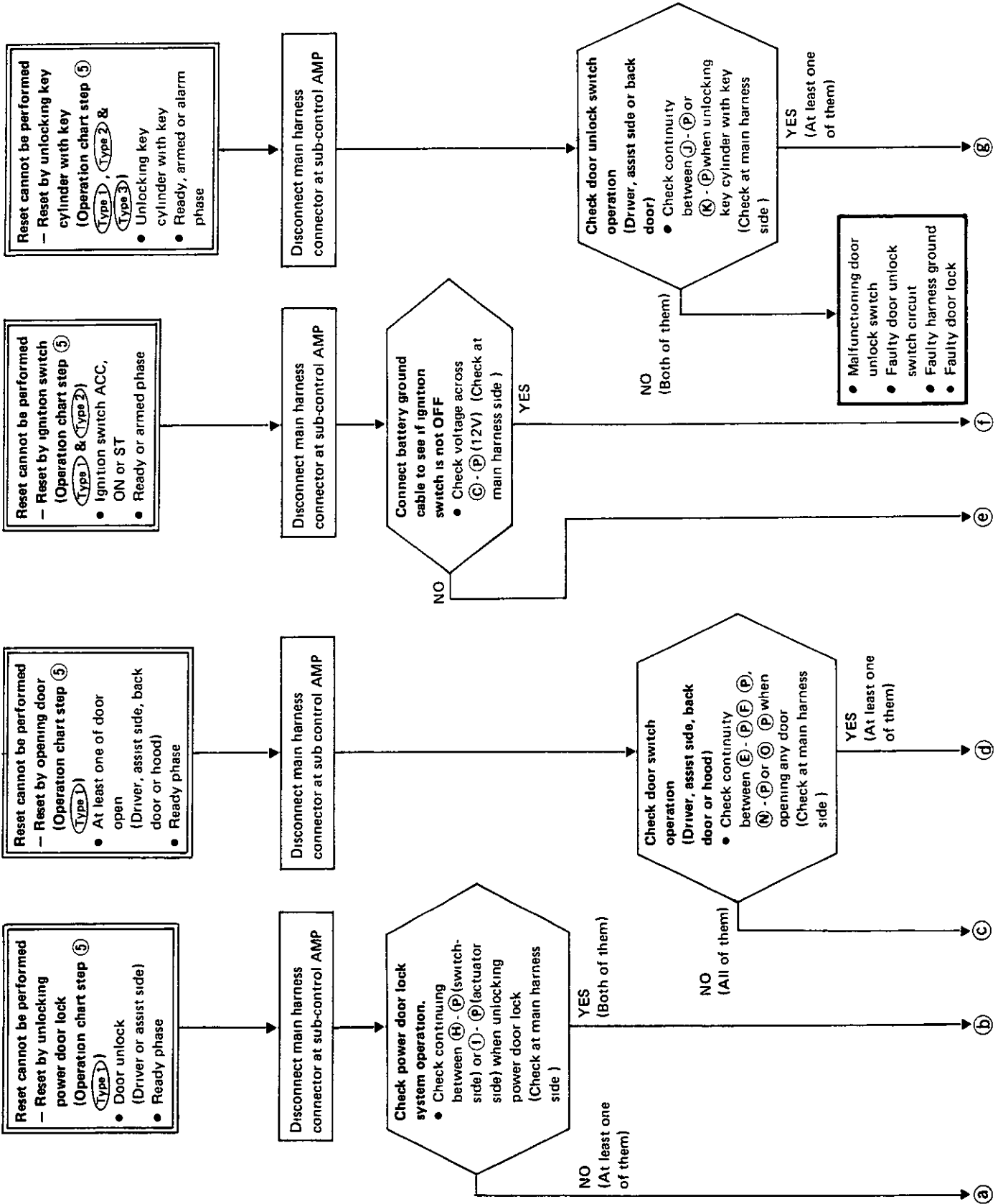
ST-②



BODY END AND DOOR

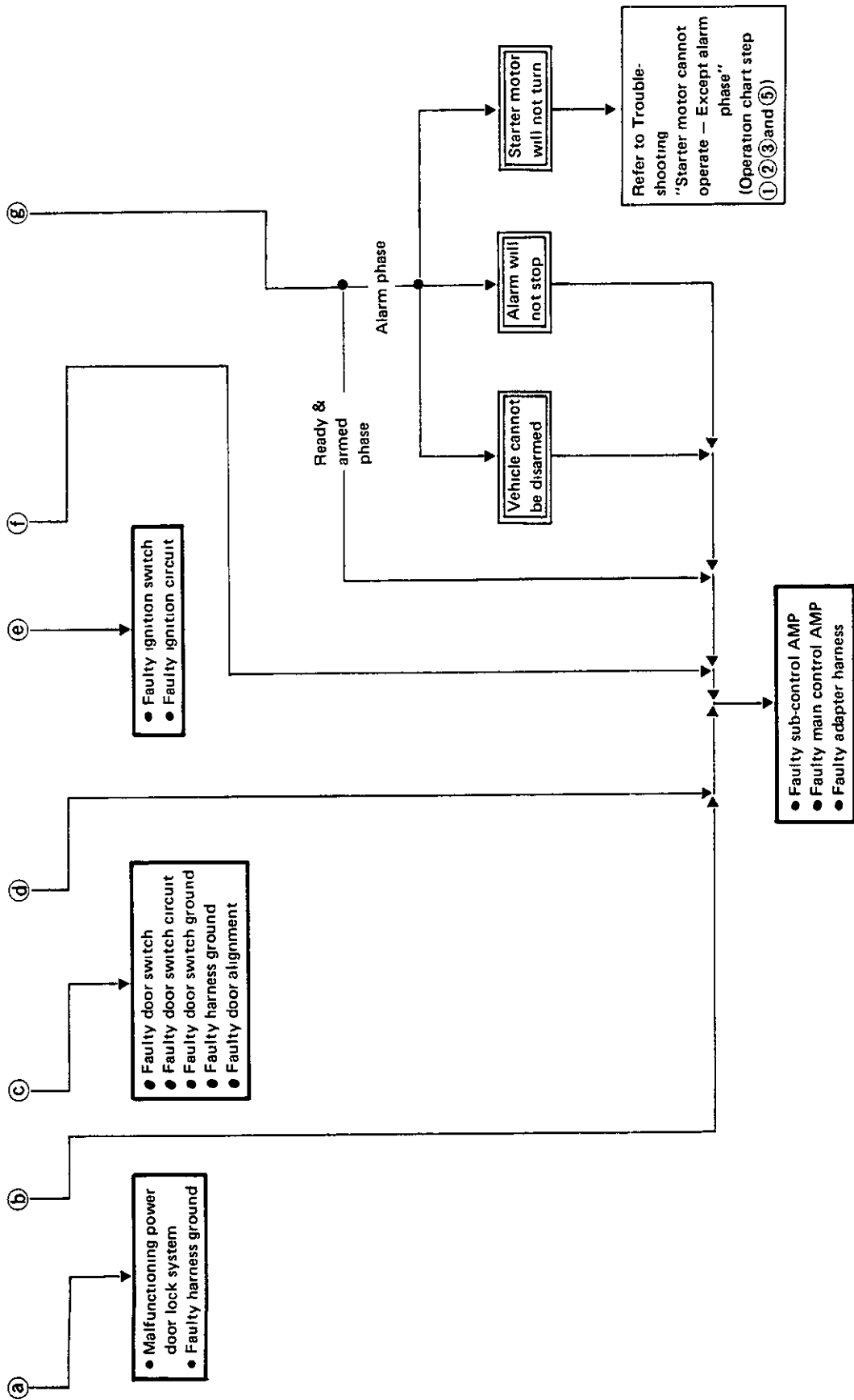
Theft Warning System (Cont'd)

RES



BODY END AND DOOR

Theft Warning System (Cont'd)



BODY END AND DOOR

Theft Warning System (Cont'd)

CONTROLLER INSPECTION

- This inspection is available only when the cause of trouble in "Trouble-shooting" is due to a "faulty sub-control 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.
- Ⓐ through Ⓚ 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.

BODY END AND DOOR

Theft Warning System (Cont'd)

Trouble shooting No	Trouble condition	Power source terminal inspection	Ground terminal inspection	Output terminal inspection			Input terminal inspection						Result				
				(k)	(a)	(d)	(e)	(f)	(c)	(l)	(h)	(b)	(g)	(i)	O K (All of them)	N G (At least one of them)	
IND-①	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)	H	O	O	X	X	X	L	X	L	L	L	L	L	L	Faulty main control AMP	Faulty sub-control AMP
IND-②	Indicator lamp remains blinking --Disarmed phase (Operation chart step ① & ②) • Ignition switch OFF • Doors close and unlock (Driver, assist, back door and hood)	H	X	X	X	X	H	X	X	L	L	L	L	L	L	Faulty main control AMP	Faulty sub-control AMP
IND-③	Indicator lamp will not come on --Ready phase with keylock (Operation chart step ③ (Type 1)) • Ignition switch OFF • Doors closed (Driver, assist, back door and hood) • After closing doors, doors lock with key	H	O	X	X	X	H	O	X	L	L	L	L	L	L	Faulty main control AMP	Faulty sub-control AMP
IND-④	Indicator lamp will not come on --Ready phase with keyless lock and closing hood (or back door) after closing & locking doors (Driver & assist, and back door (or hood)) (Operation chart step ③ (Type 2), Type 3, and Type 4)) • Ignition switch OFF • (Type 2) & (Type 3) After closing hood & back door, lock & close doors without key • (Type 4) After locking & closing doors (driver & assist) and closing hood (or back door), close back (or hood)	H	O	X	X	X	H	O	X	L	L	L	L	L	L	Faulty main control AMP	Faulty sub-control AMP

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

BODY END AND DOOR

Theft Warning System (Cont'd)

Trouble-shooting No	Trouble condition	Power source terminal inspection	Ground terminal inspection	Output terminal inspection			Input terminal inspection						Result		
				(d)	(e)	(f)	(c)	(l)	(h)	(b)	(g)	(i)	O K (All of them)	N G (At least one of them)	
IND-5	Indicator lamp remains lighted --Disarmed phase and resetting from ready phase (Operation chart step ①, ② and ⑤ (Type 3))	H	O	O	X	X	H *3 L *4	O *5	H	L	L *6 H *7			Faulty main control AMP	Faulty sub-control AMP
IND-6	Indicator lamp will not go out (Comes on) --Disarmed phase (Operation chart step ① & ②) • Ignition switch OFF • Doors close and unlock (Driver, assist, back door and hood)	H	O	X	X	X	X	X	X	X	L				
IND-7	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	H	O	O	X	X	H *8	X	X	L					
ARM-1	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)	H	O	X	X	X	L *4	O *9	H *9	X	H *7				

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

*9 When door is unlocked

*3 When door is closed Disarmed phase and reset phase

*4 When door is opened

*5 Only for resetting from ready phase

*6 Ignition switch OFF

*7 Ignition switch ACC, ON or ST

BODY END AND DOOR

Theft Warning System (Cont'd)

Trouble shooting No	Trouble condition	Power source terminal inspection (k)	Ground terminal inspection (a)	Output terminal inspection			Input terminal inspection						Result			
				(d)	(e)	(f)	(c)	(i)	(h)	(b)	(g)	(j)	O K (All of them)	N G (At least one of them)		
ALR-①	Alarm is given without any cause— Armed phase (Operation chart step ③) <ul style="list-style-type: none"> Ignition switch OFF Doors locked & closed (Driver, assist, back door and hood) 	H	O	X	X	O	O	H *10	X	L	L	X	L		Faulty main control AMP	Faulty sub-control AMP
ALR-②	Alarm will not operate—Alarm phase (Operation chart step ④) (Type 1, Type 2 & Type 3) <ul style="list-style-type: none"> Ignition switch OFF Type 1 & Type 2 Any door opens without key (Driver, assist, back door or hood) Type 3 Any key cylinder draws out (Driver, assist or back door) 	H	O	X	X	O	O	L	O	L	X	L				
ALR-③	Alarm will not stop (Alarm continues over 4 minutes) —Alarm phase (Operation chart step ④) <ul style="list-style-type: none"> Ignition switch OFF Alarm phase 	H	O	X	X	O	O	H *10	X	X	X	X	X			
ALR-④	Alarm stops too soon (Will not continue 2 to 4 minutes) —Alarm phase (Operation chart step ④) <ul style="list-style-type: none"> Ignition switch OFF Alarm phase 	H	O	X	X	O	O	X	O	X	X	X	X			
ALR-⑤	Alarm continues (Is not intermittent) —Alarm phase (Operation chart step ④) <ul style="list-style-type: none"> Ignition switch OFF Alarm phase 	H	O	X	X	O	O	X	O	X	X	X	X			

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

BODY END AND DOOR

Theft Warning System (Cont'd)

Trouble-shooting No	Trouble condition	Power source terminal inspection (k)	Ground terminal inspection (a)	Output terminal inspection			Input terminal inspection						Result		
				(d)	(e)	(f)	(c)	(i)	(h)	(b)	(g)	(1)	O K (All of them)	N G (At least one of them)	
ST-①	Starter motor cannot operate —Except alarm phase (Operation chart step (1)(2)(3) & (5)) ● Ignition switch ST	H	O	X	O	X	O	H *11 L *12	O	H	H	H	H	Faulty main control AMP	Faulty sub-control AMP
ST-②	Starter motor can operate —Alarm phase (Operation chart step (4)) ● Ignition switch ST ● Alarm phase	H	O	X	O	X	H *13	O	L	L	L	L	H		
RES	Reset cannot be performed —Reset	H	O	O	O	O	L *14	O	H *15	L	H *16	H			

*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

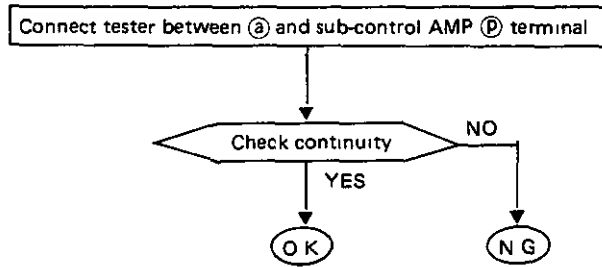
*15 When power door lock system unlocks

*16 Ignition switch ACC, ON or ST

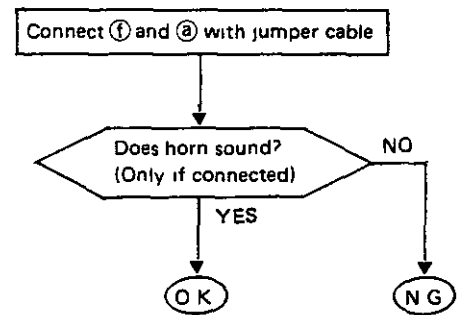
BODY END AND DOOR

Theft Warning System (Cont'd)

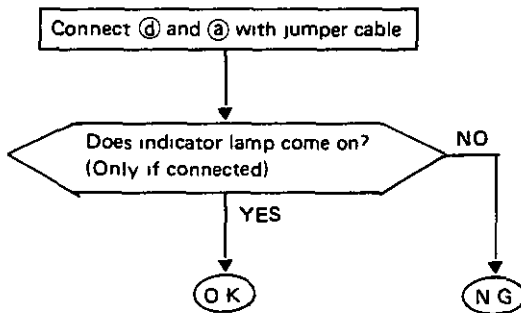
• **(a)** terminal inspection



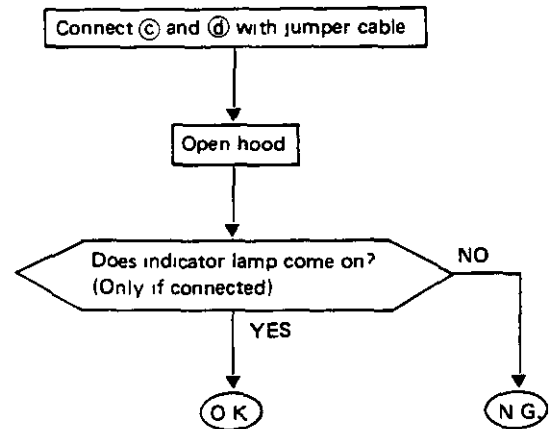
• **(f)** terminal inspection



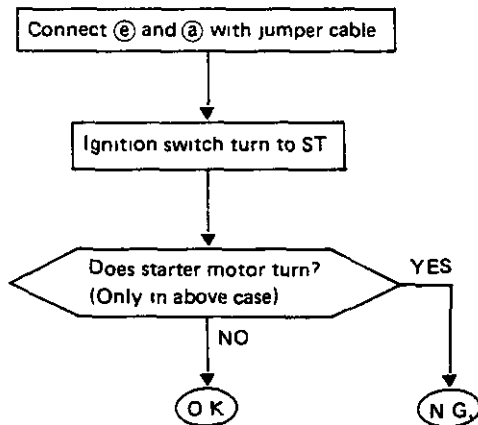
• **(d)** terminal inspection



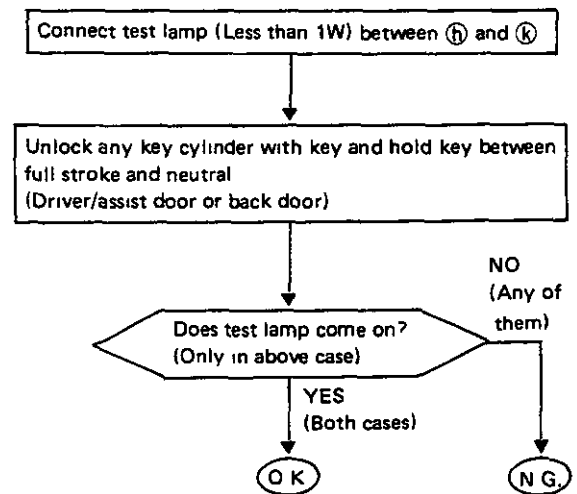
• **(i)** terminal inspection



• **(e)** terminal inspection



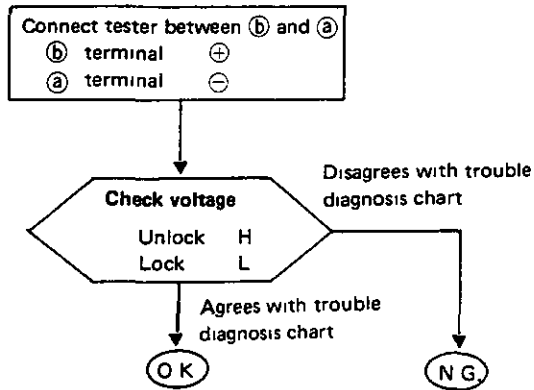
• **(h)** terminal inspection



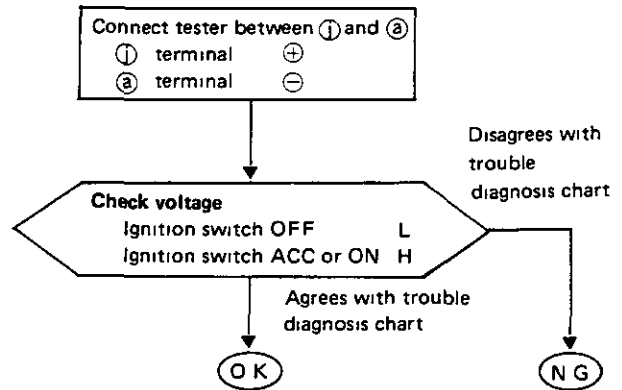
BODY END AND DOOR

Theft Warning System (Cont'd)

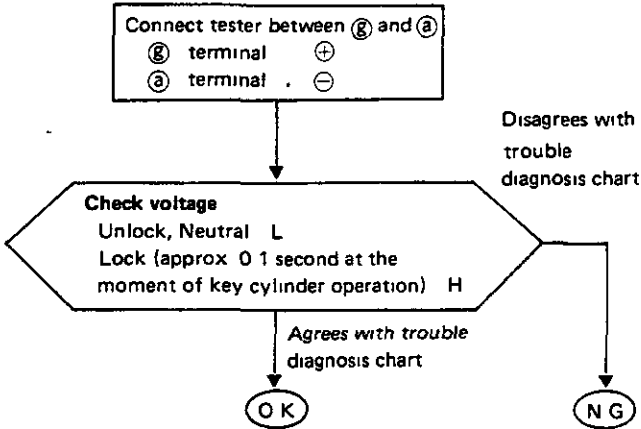
ⓑ terminal inspection



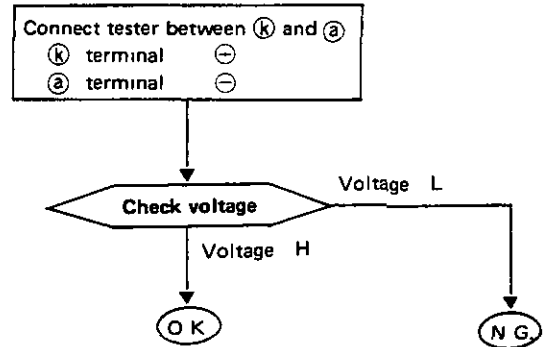
ⓓ terminal inspection



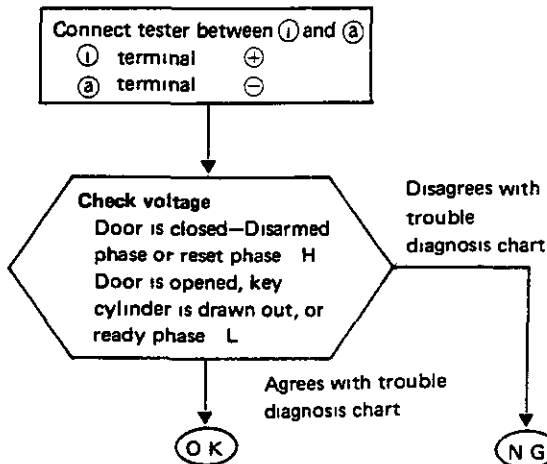
ⓖ terminal inspection



Ⓚ terminal inspection

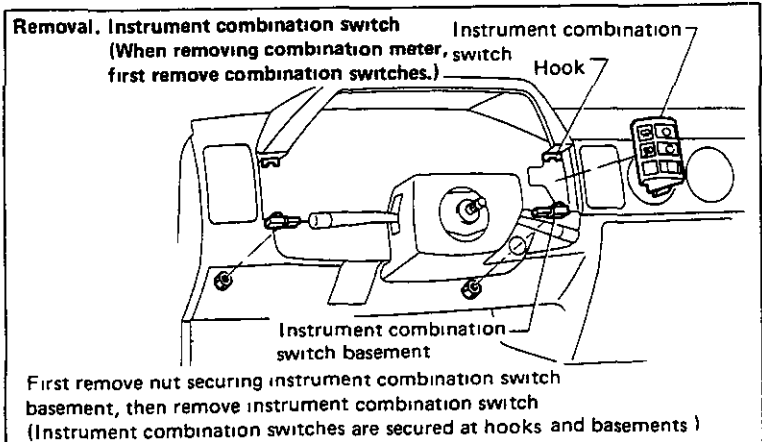
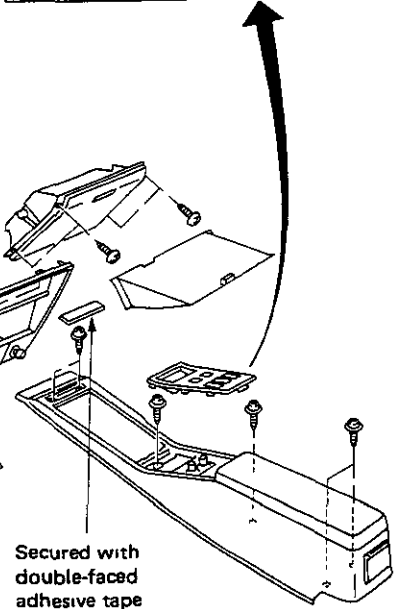
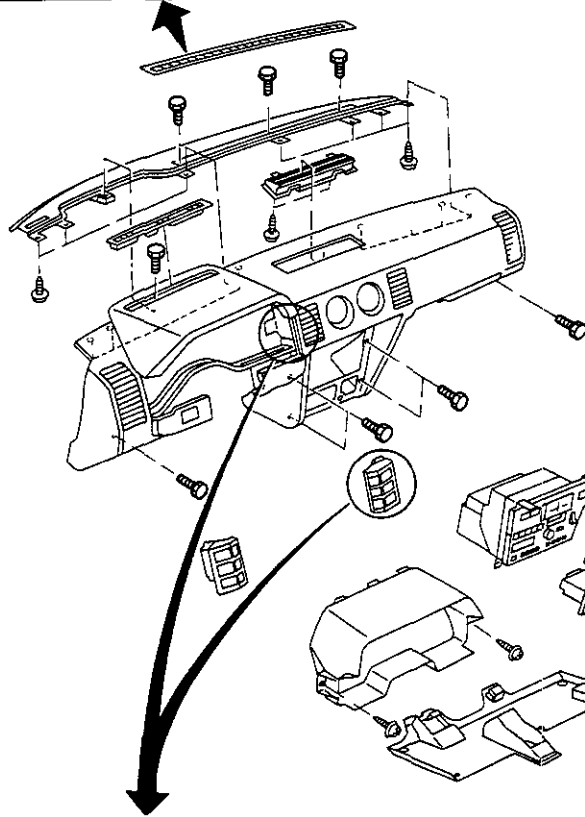
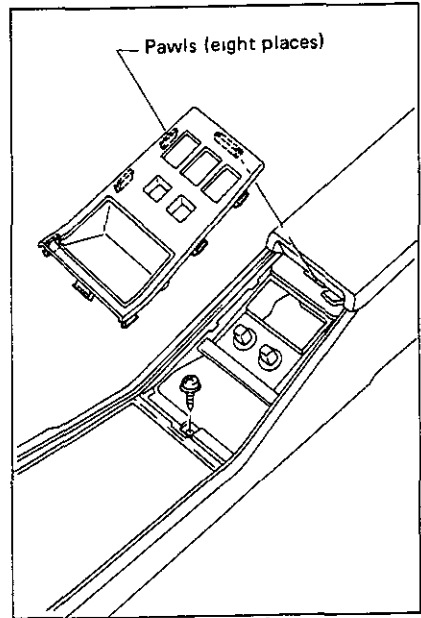
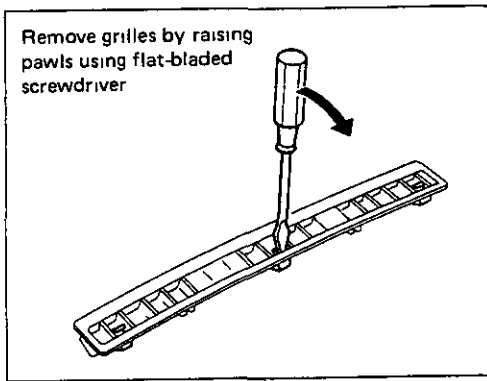


ⓓ terminal inspection



INSTRUMENT

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



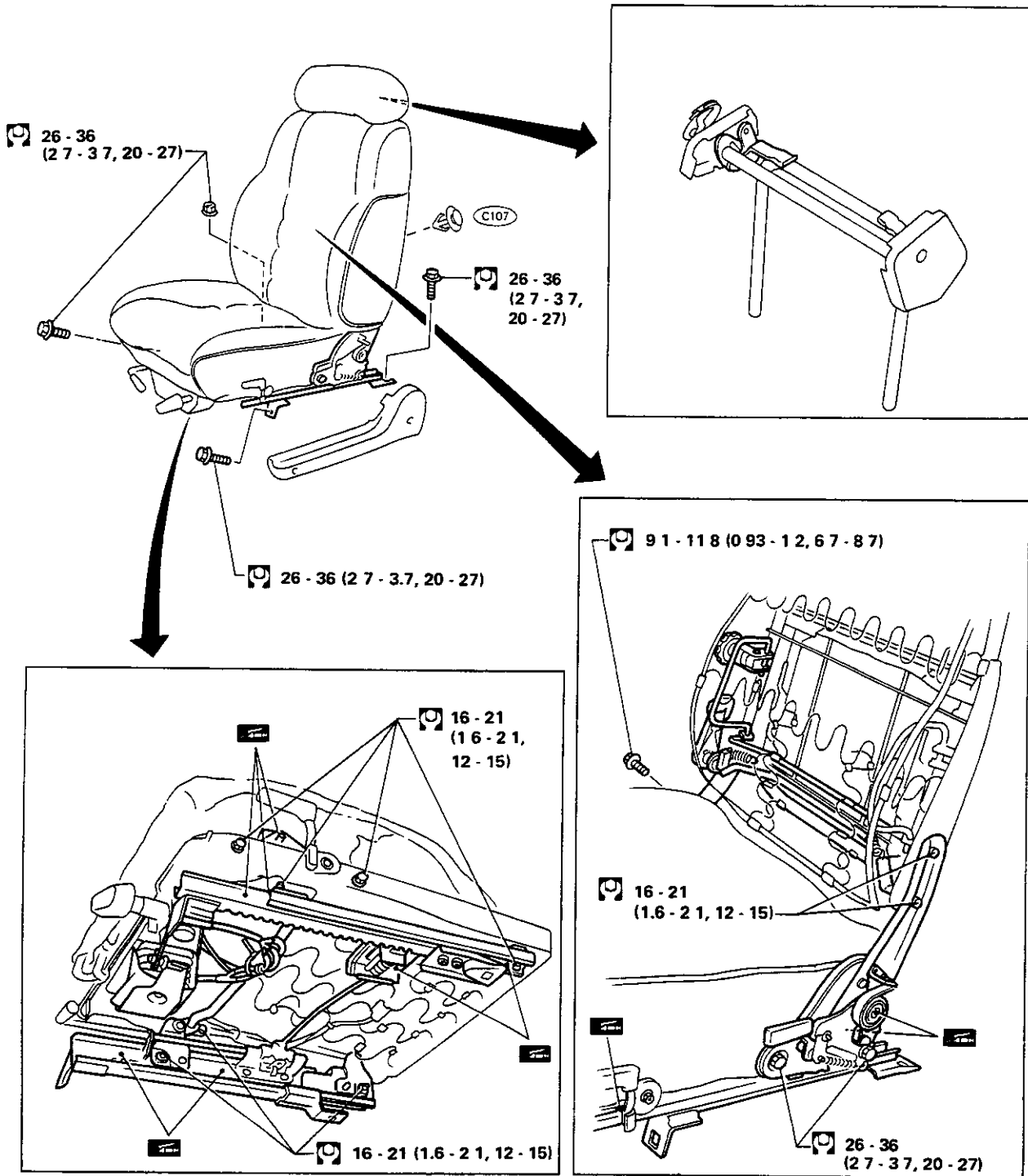
SBF385B

SEAT

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

Front Driver Seat

MANUAL SEAT



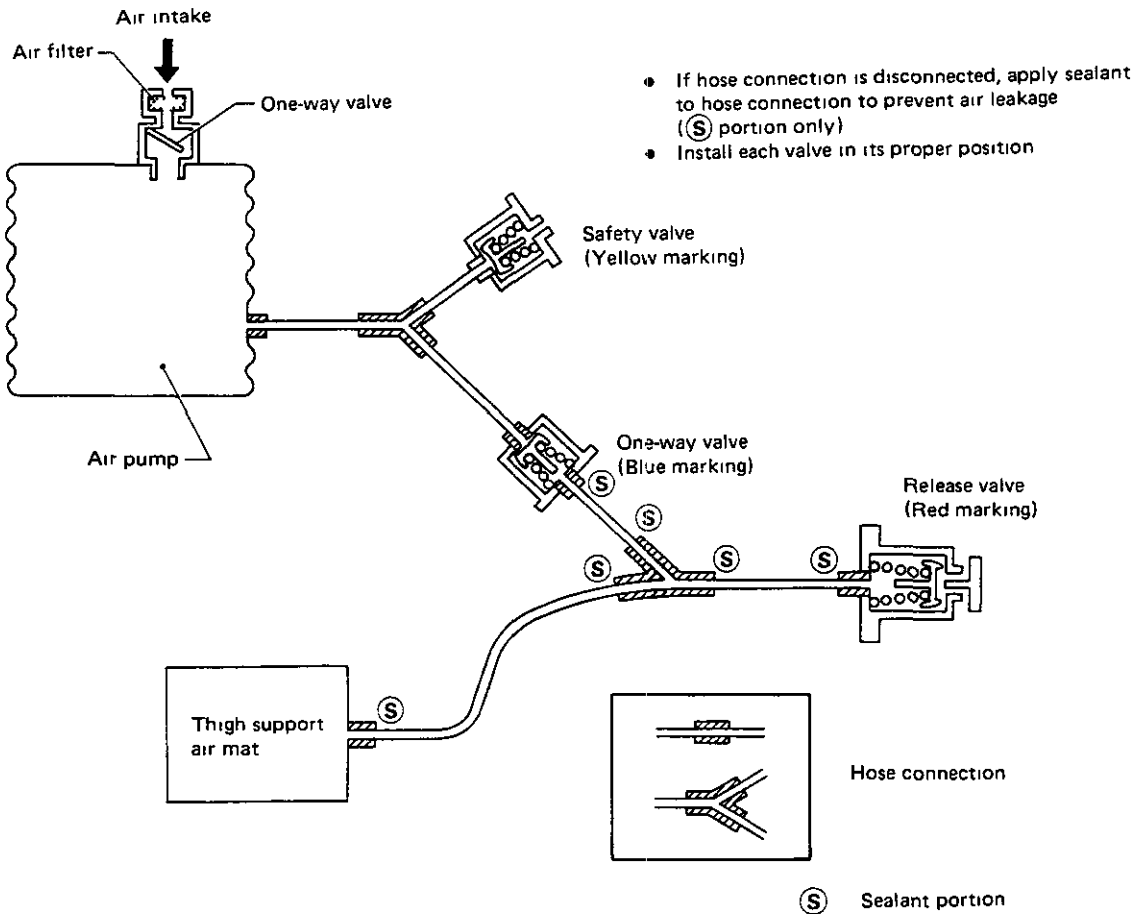
- N m (kg-m, ft-lb)
- Grease up points (Do not apply too much grease as it will drip)

SBF3888

SEAT

Front Driver Seat (Cont'd)

Air diagram

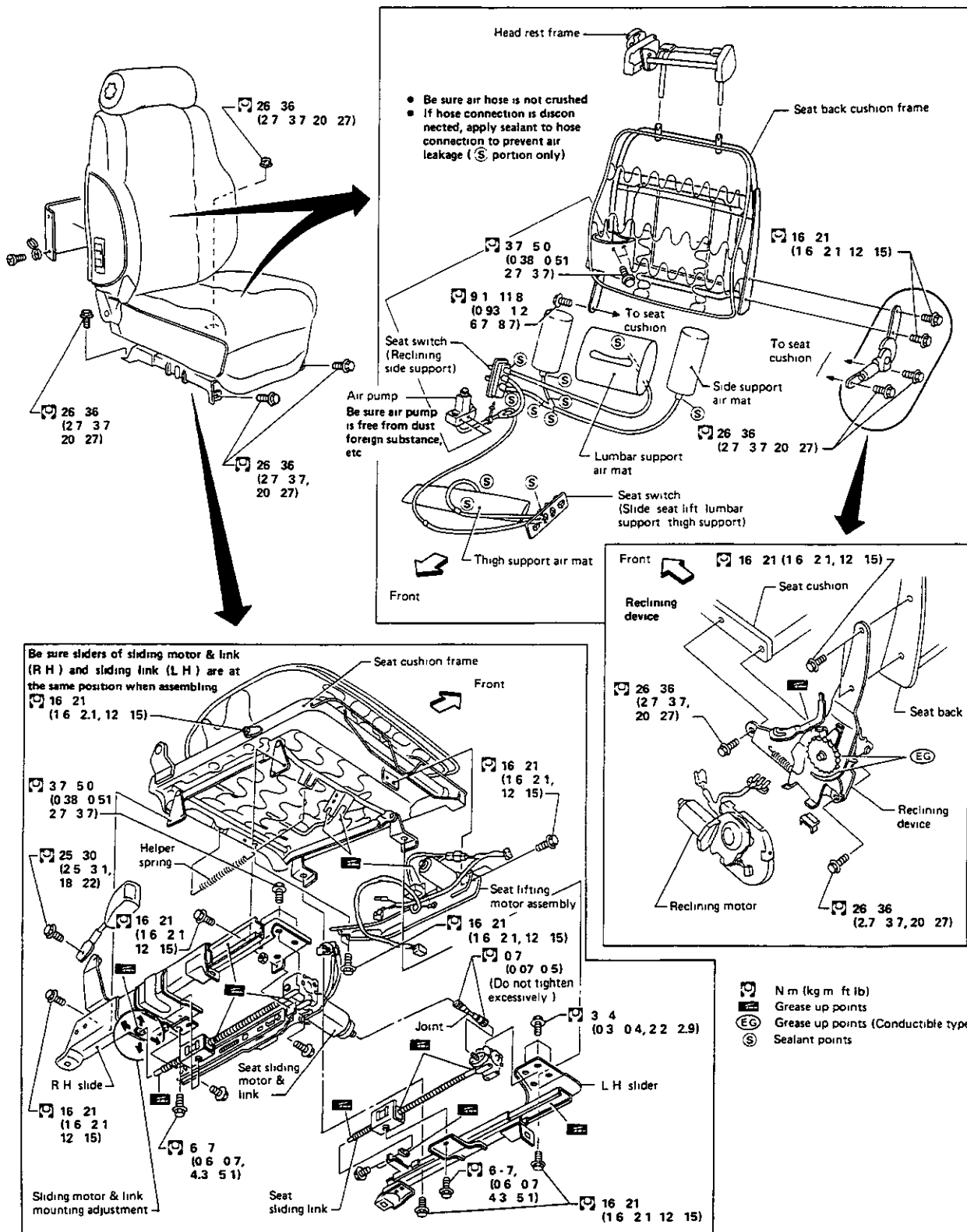


SBF392B

SEAT

Front Driver Seat (Cont'd)

POWER SEAT

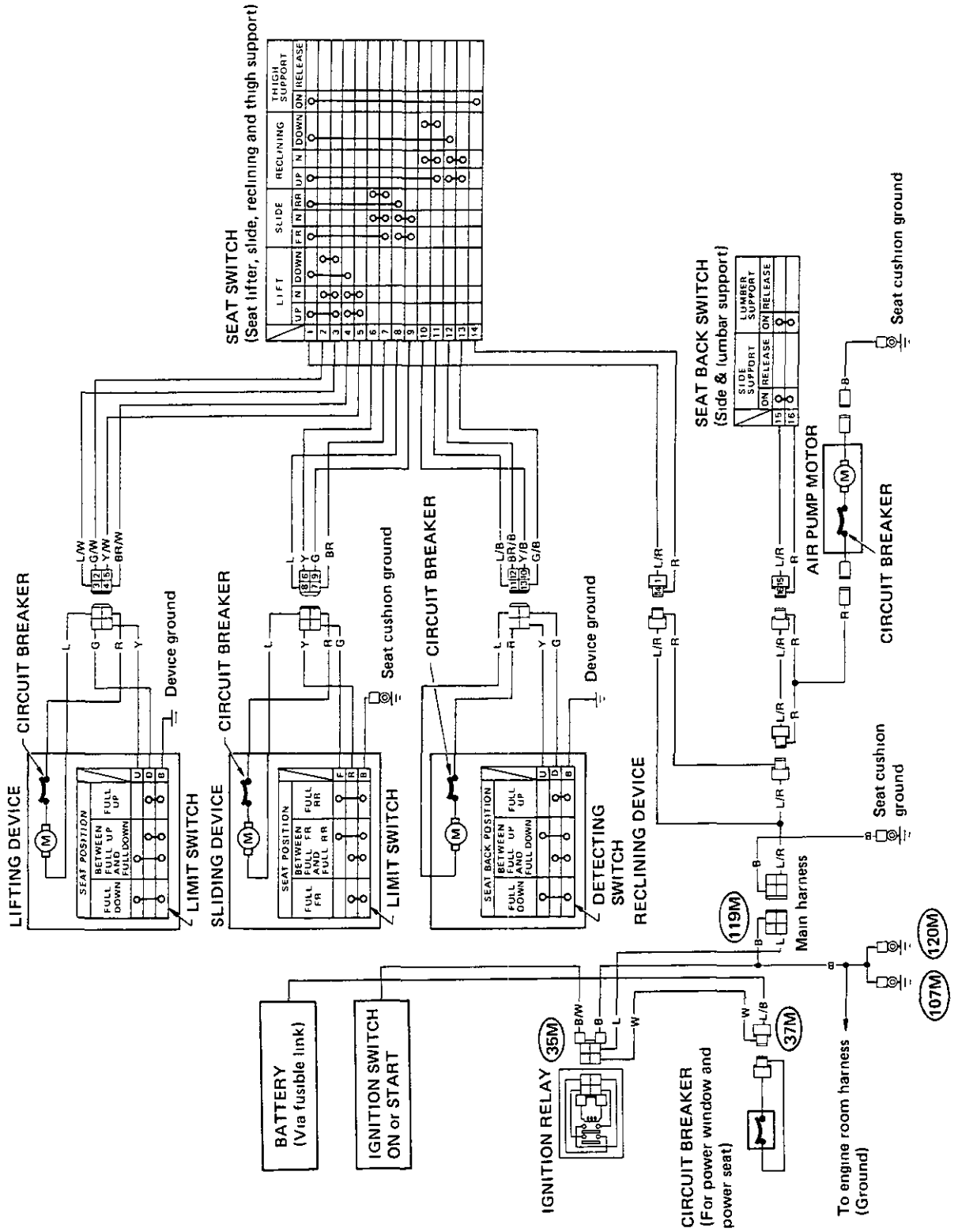


SBF387B

SEAT

Front Driver Seat (Cont'd)

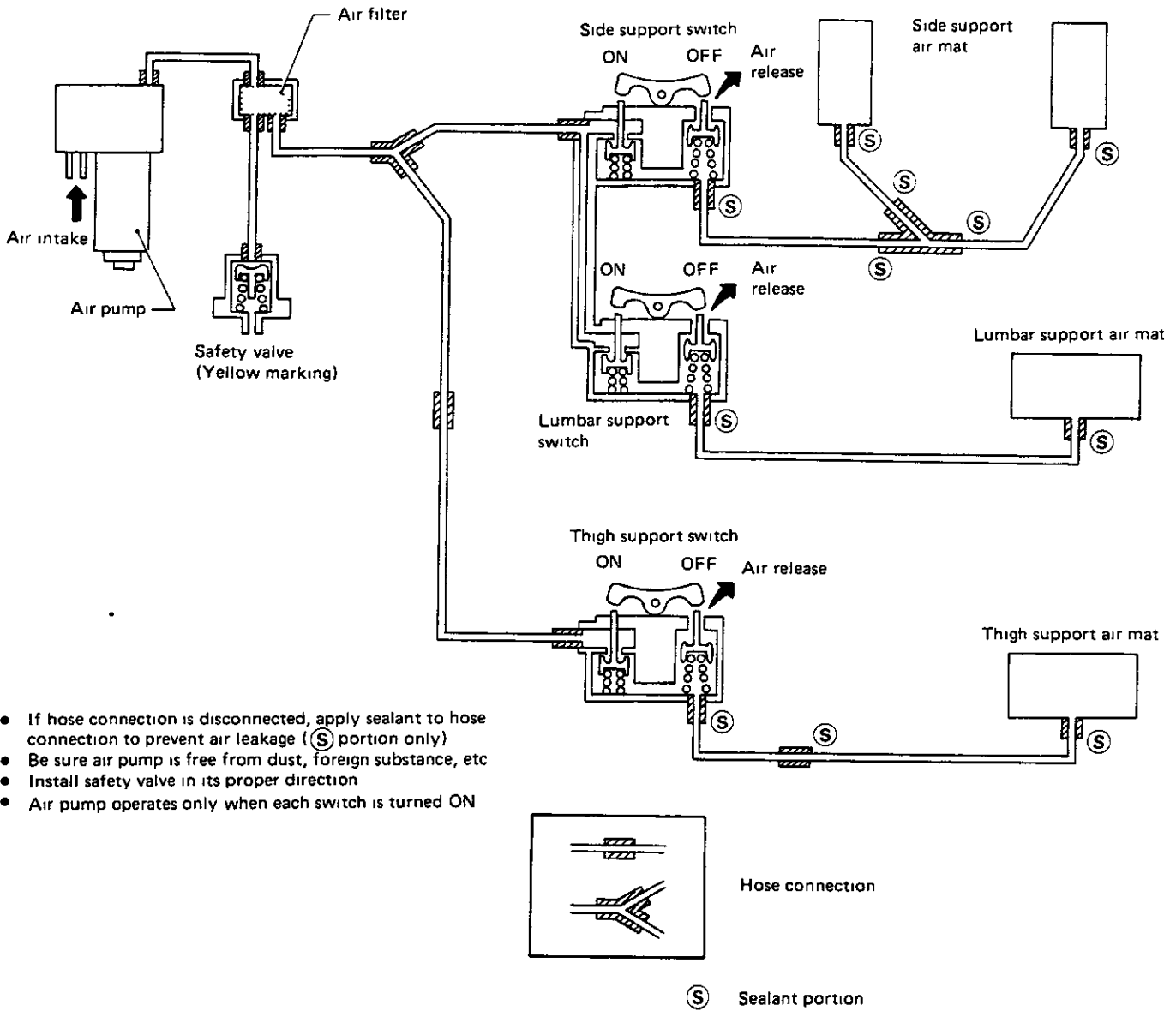
Wiring diagram



SEAT

Front Driver Seat (Cont'd)

Air diagram



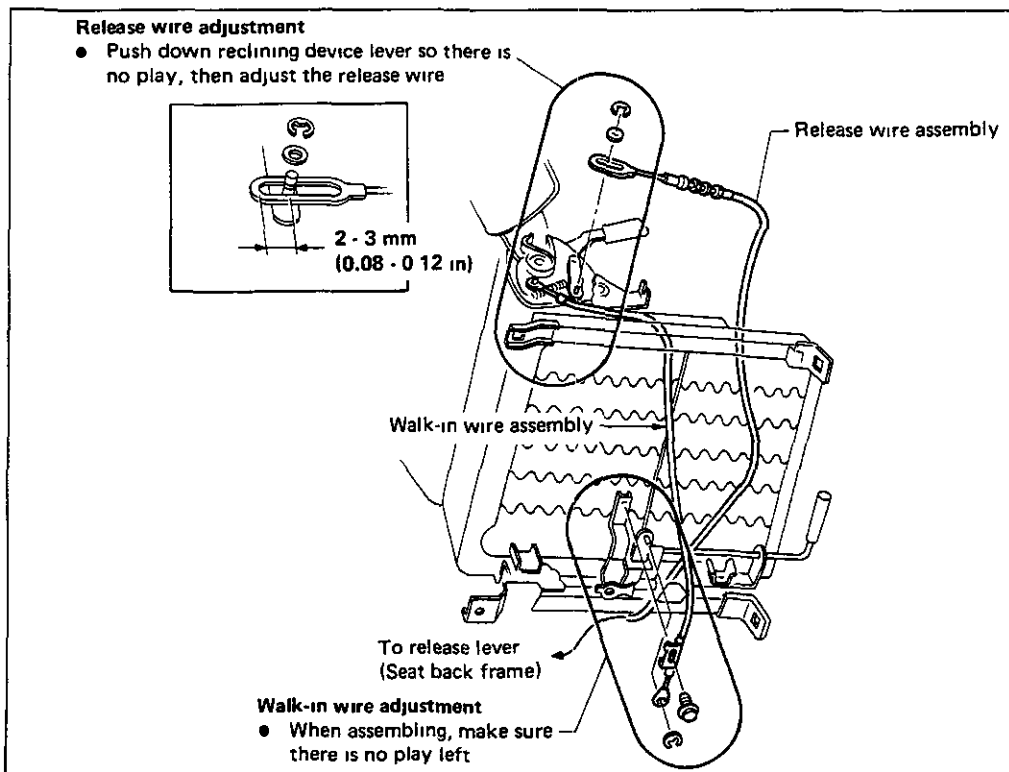
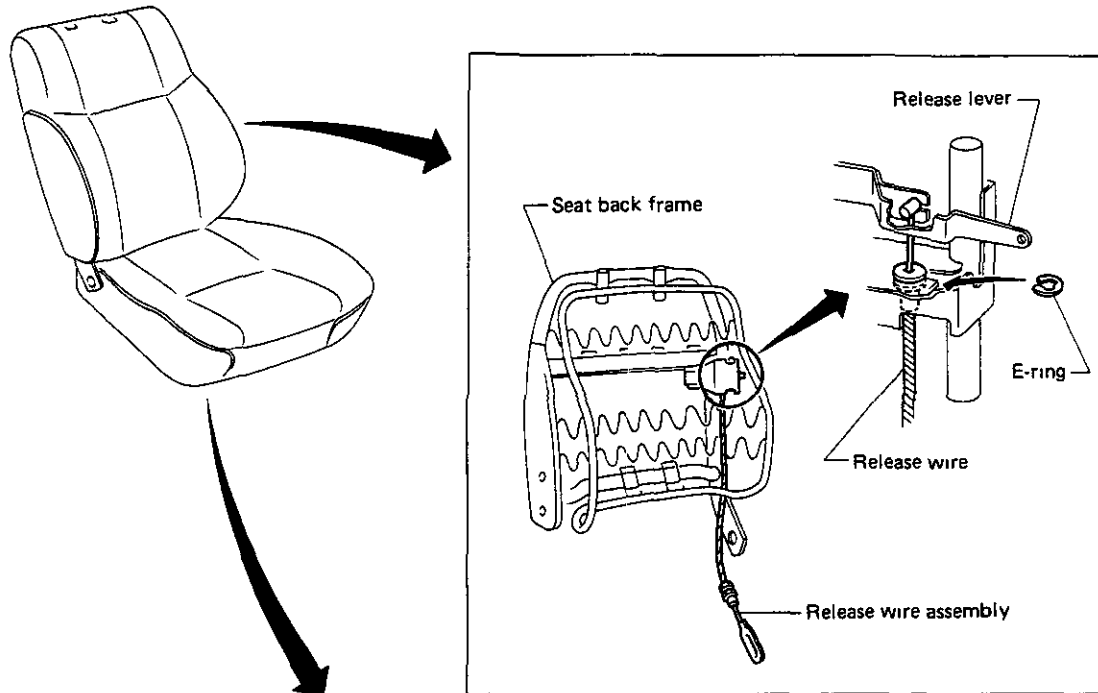
SBF3948

SEAT

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

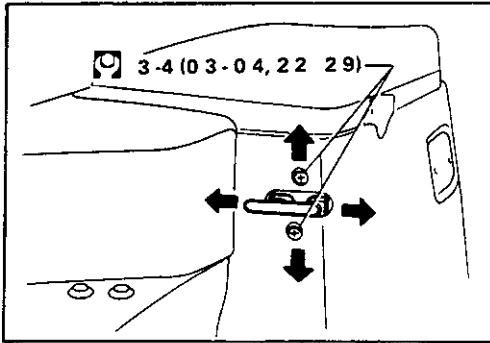


SBF470B

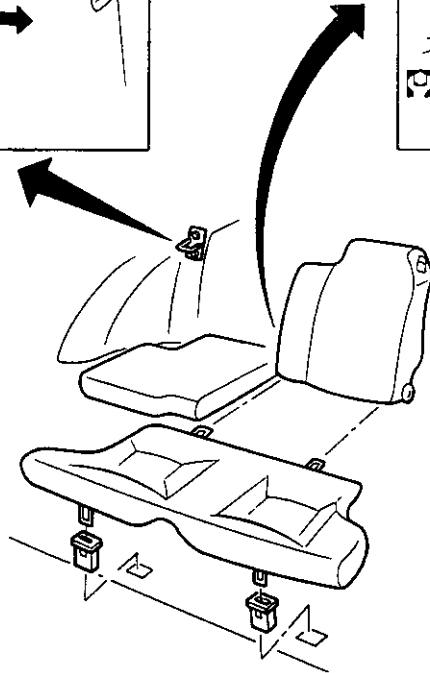
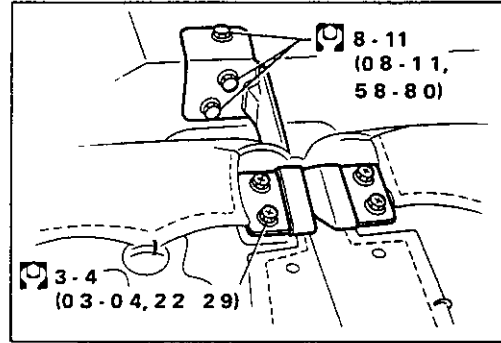
SEAT


Rear Seat

Striker



Seat back hinge



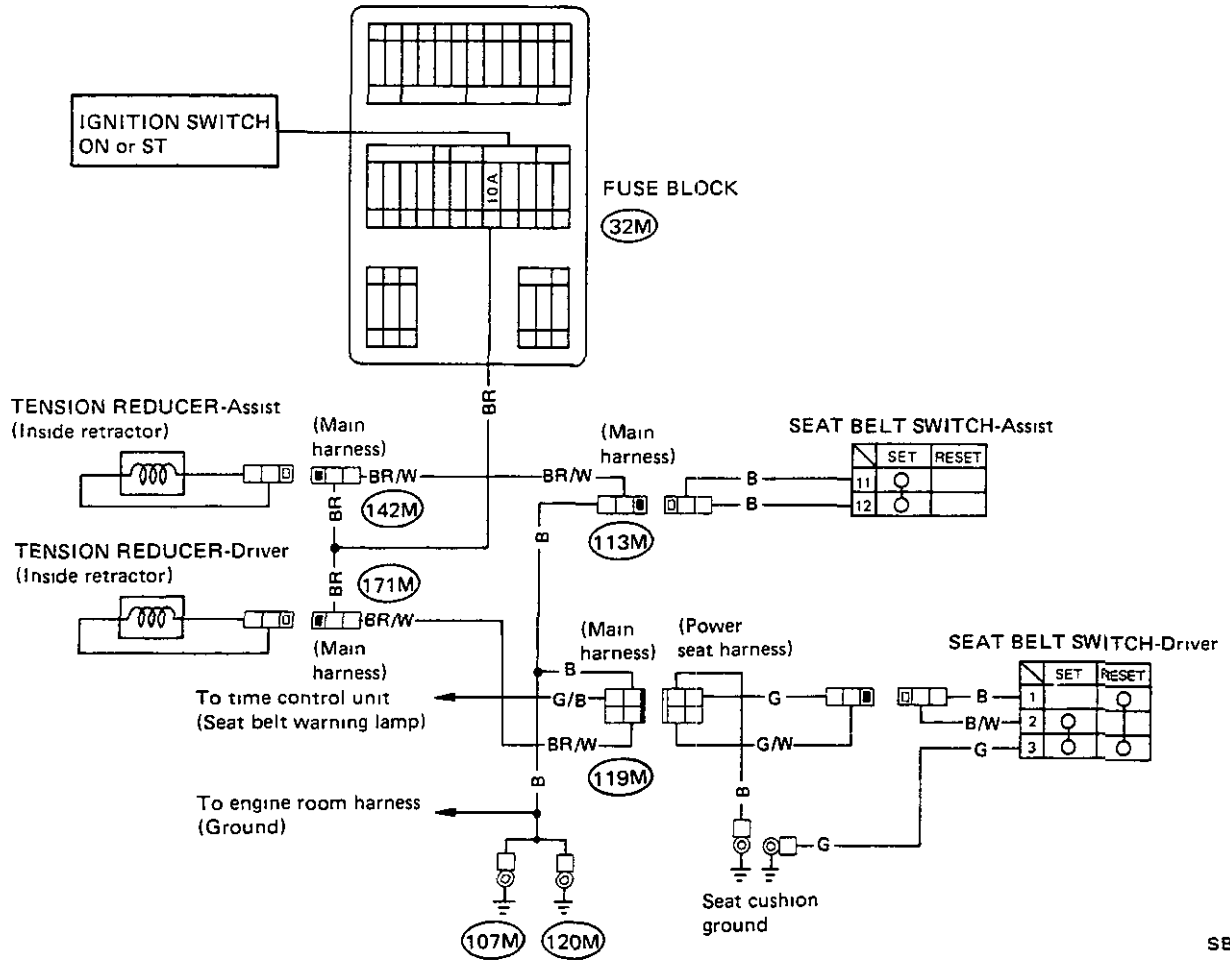
 N m (kg-m, ft-lb)

SBF3958

SEAT BELT

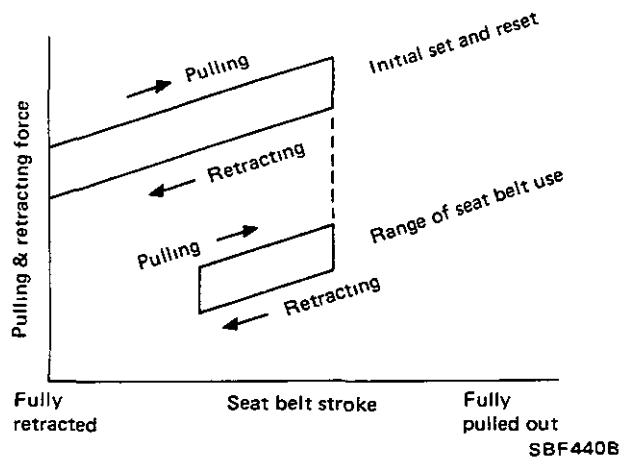
- Refer to MA section for installation of seat belts.
- GLL model has been equipped with seat belts with tension reducer. This unit reduces the force required to pull out seat belt while in use, and lessens pressure on the shoulder and hips for greater comfort

TENSION REDUCER WIRING DIAGRAM



SBF439B

TENSION REDUCE OPERATION



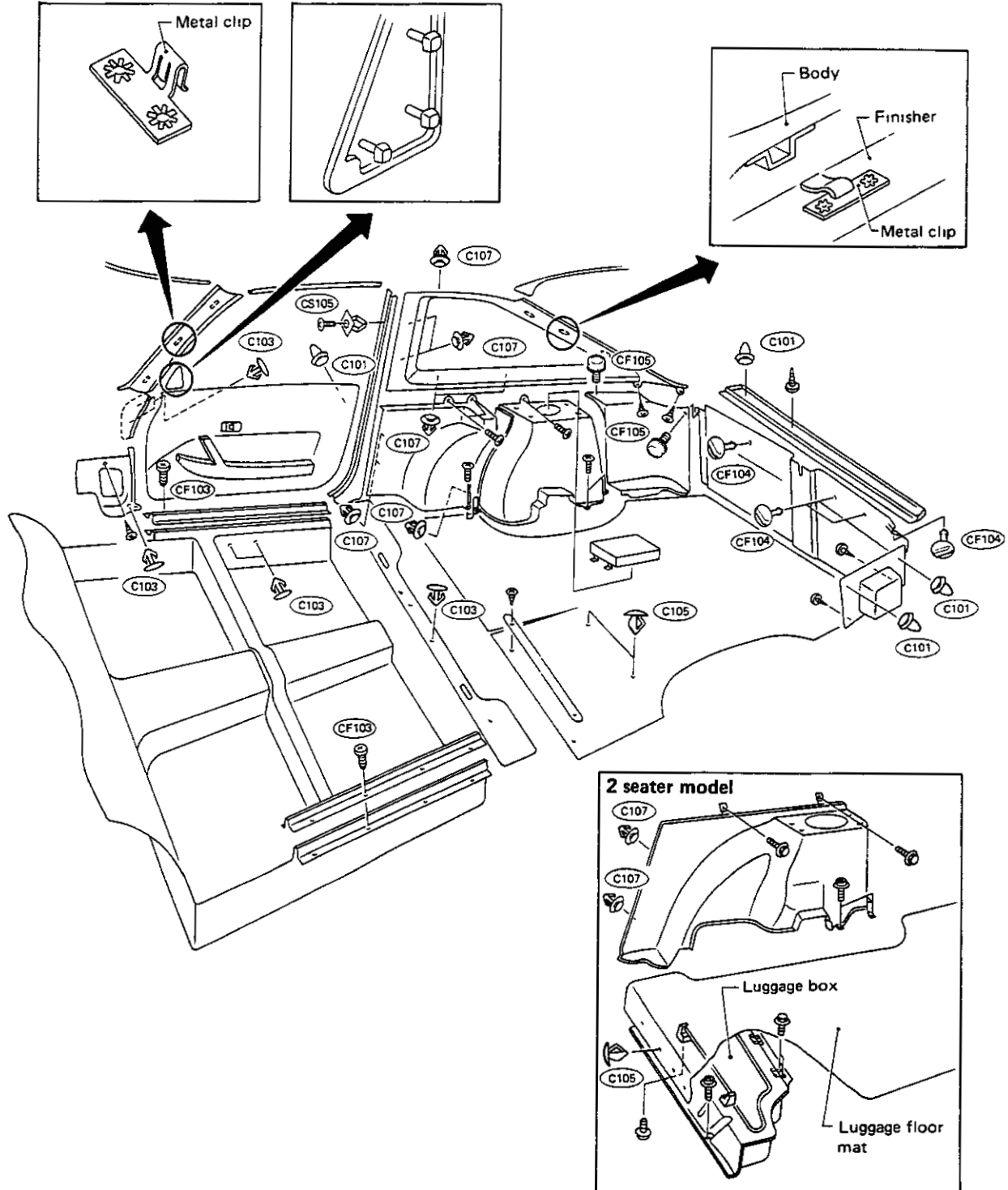
SBF440B

TRIM AND MOLDING

- 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



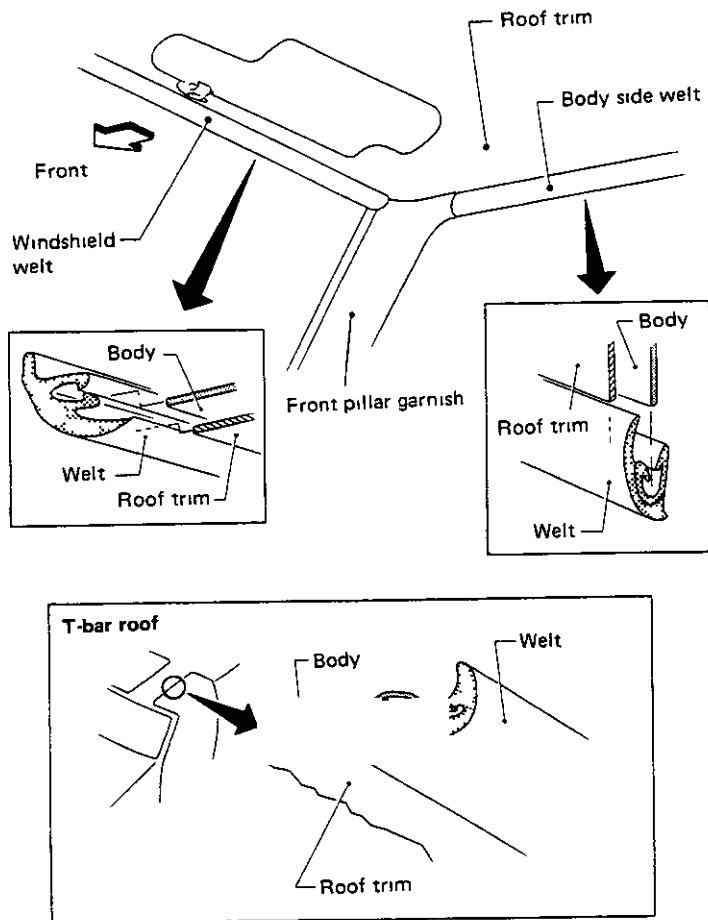
SBF383B

TRIM AND MOLDING

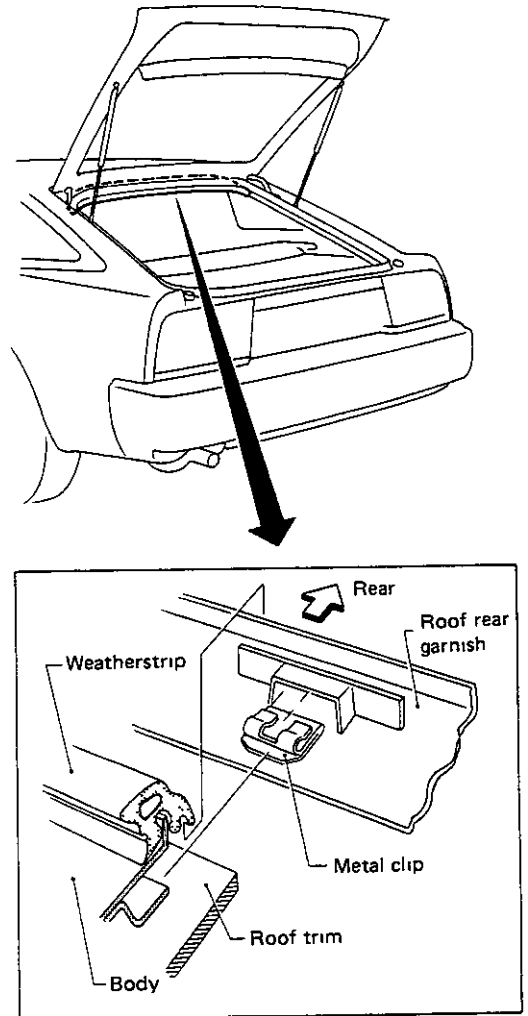
Inside Trim (Cont'd)

ROOF TRIM

Front portion



Rear portion

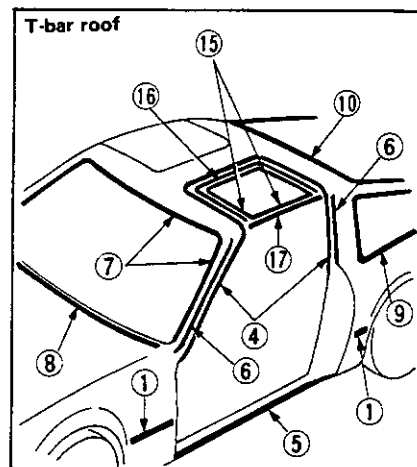
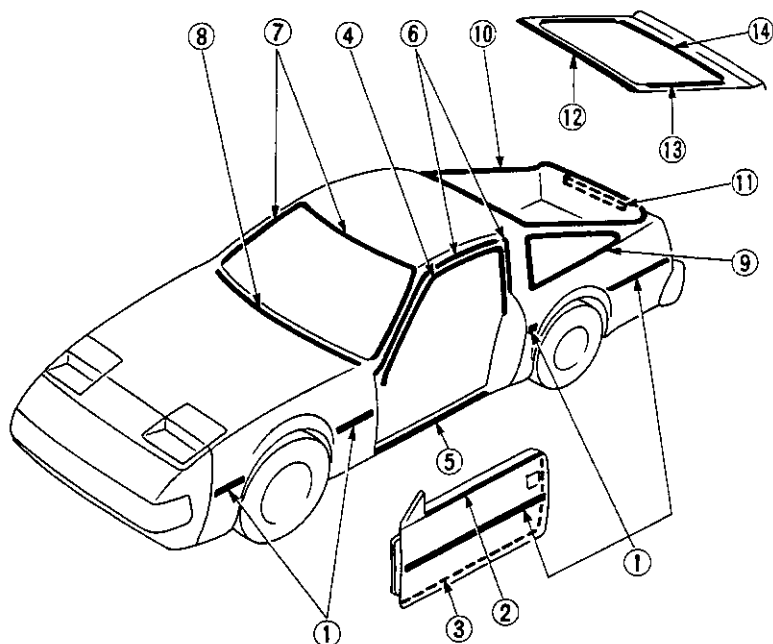


SBF384B

TRIM AND MOLDING

Exterior

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



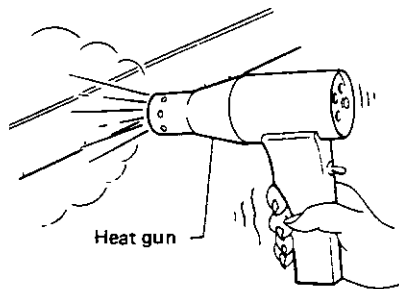
SBF386B

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



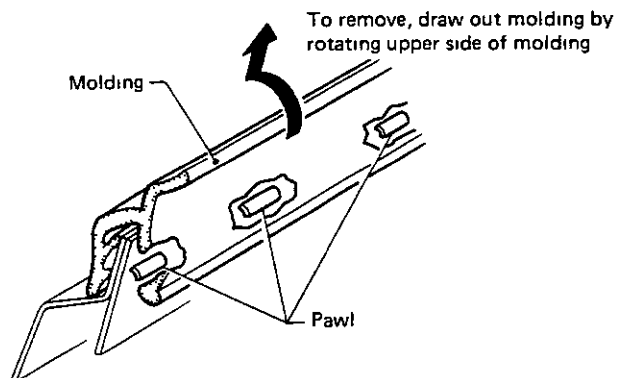
SBF455A

- 2 Raise end of molding and, while cutting off bonding agent, detach molding.

● Installation

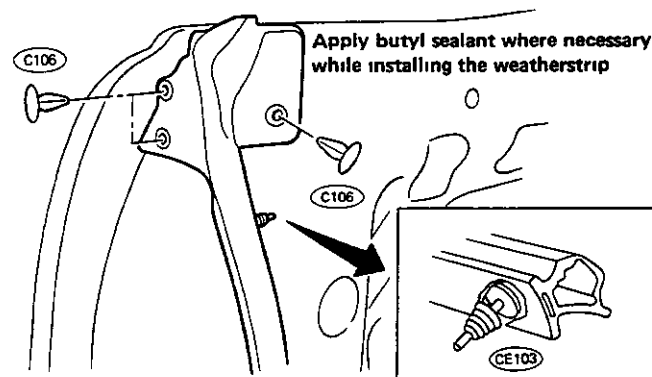
- 1 Remove all traces of bonding agent from body panel. Then clean contact face of body.
- 2 Heat body panel and molding to 30 to 40°C (86 to 104°F) with a heat gun. Then install molding

② Door molding



SBF397B

③, ④ Door weatherstrip and body side weatherstrip



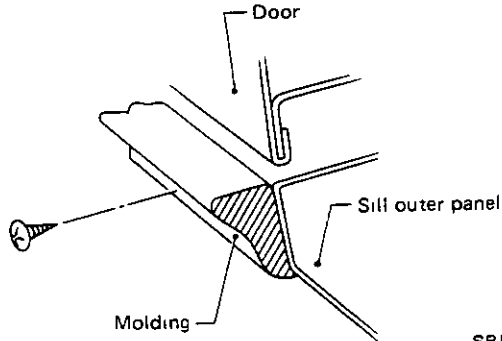
SBF398B

TRIM AND MOLDING

Exterior (Cont'd)

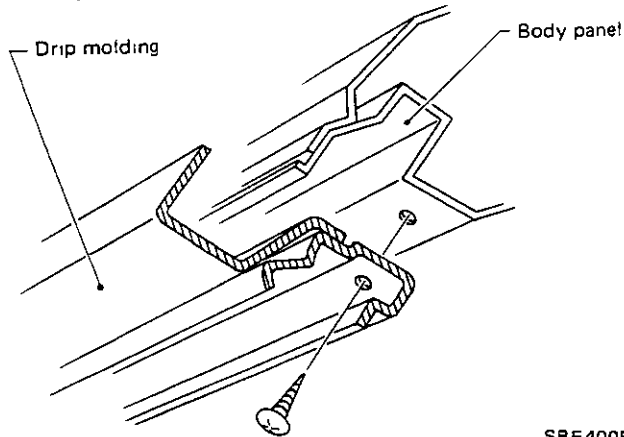
⑤ Sill molding

- 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



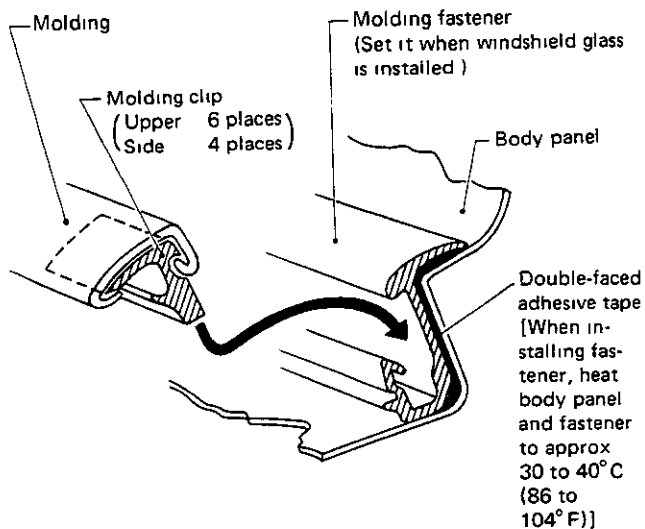
SBF399B

⑥ Drip molding



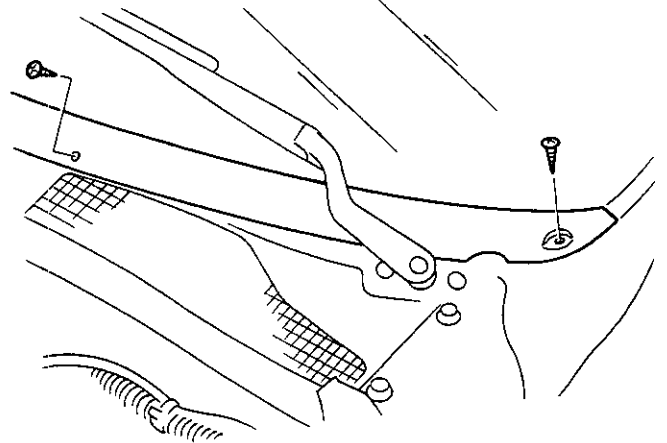
SBF400B

⑦ Windshield upper & side molding



SBF401B

⑧ Windshield lower molding



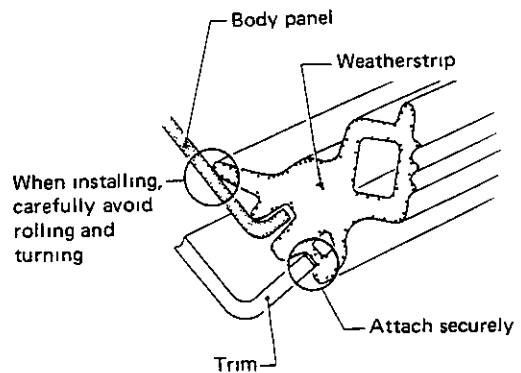
SBF402B

⑨ Side window molding

Refer to Side Window

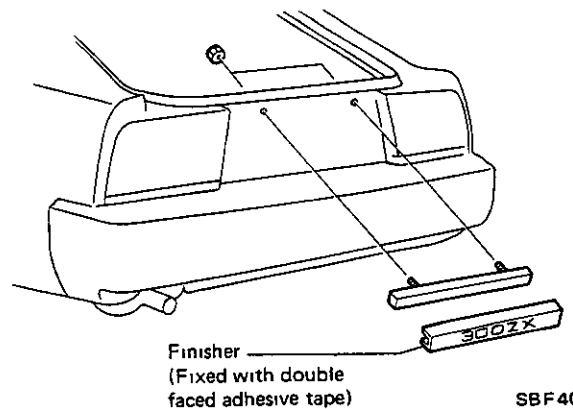
⑩ Back door weatherstrip

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



SBF403B

⑪ Rear panel outer finisher

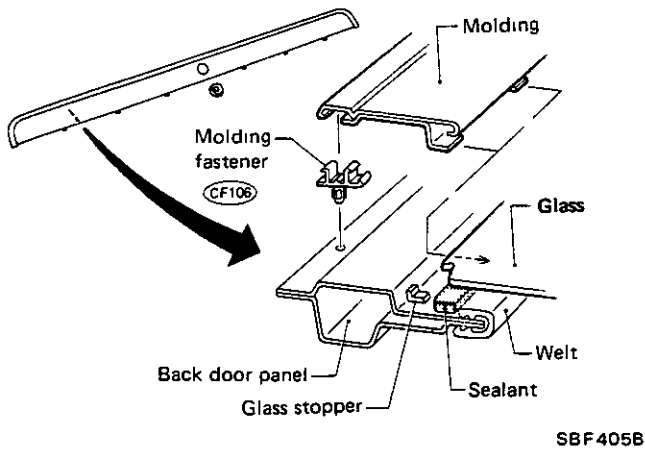


SBF404B

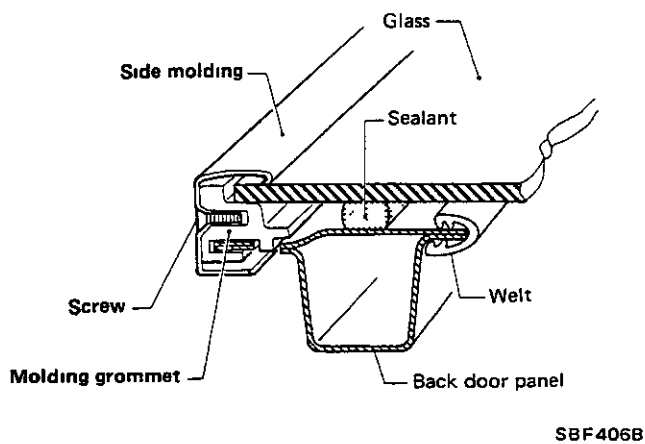
TRIM AND MOLDING

Exterior (Cont'd)

12 Back door upper molding

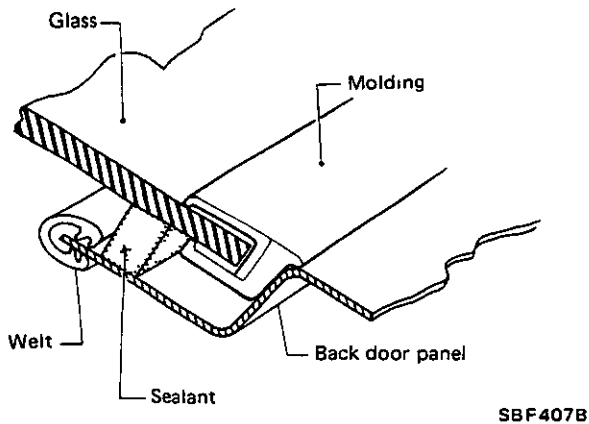


13 Back door side molding



14 Back door lower molding

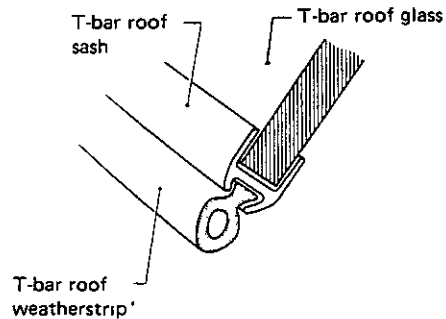
- Attach the molding to the glass before installing the glass.



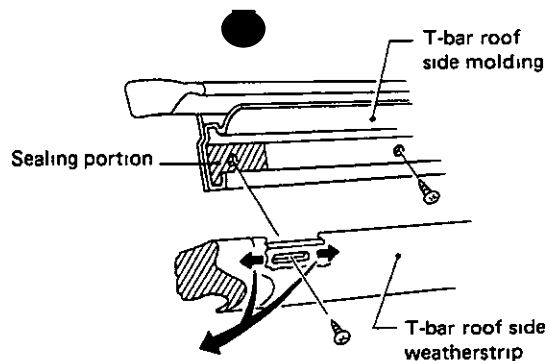
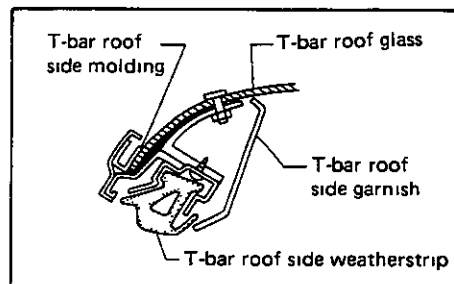
15 T-bar roof sash and T-bar roof side molding

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 T-bar roof glass assembly

16 T-bar roof weatherstrip



17 T-bar roof side weatherstrip



Always adjust if it is not sufficiently watertight

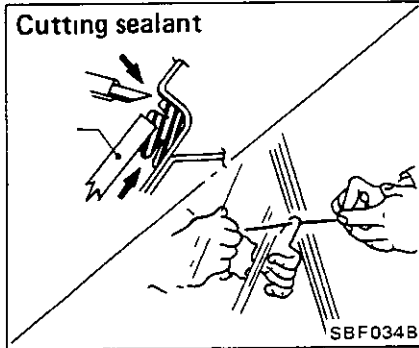
SBF436B

WINDSHIELD AND WINDOWS

Windshield

REMOVAL

After removing moldings, remove glass



CAUTION

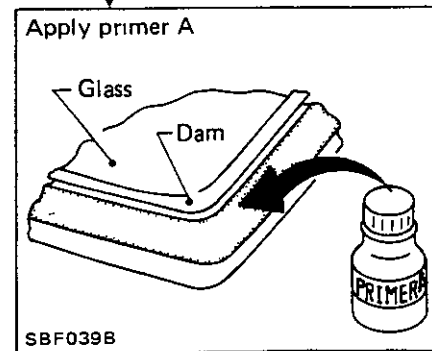
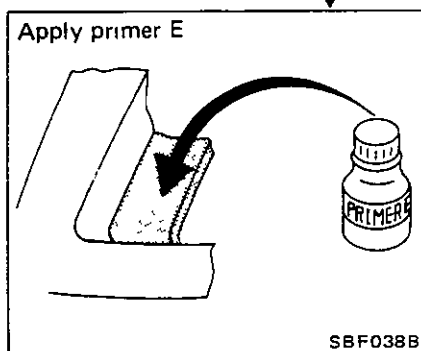
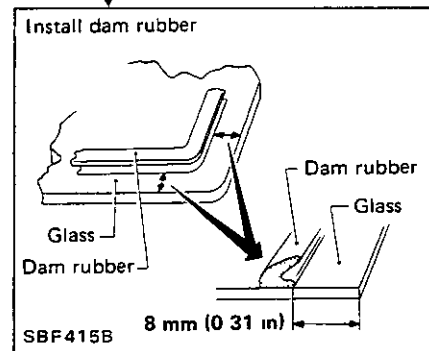
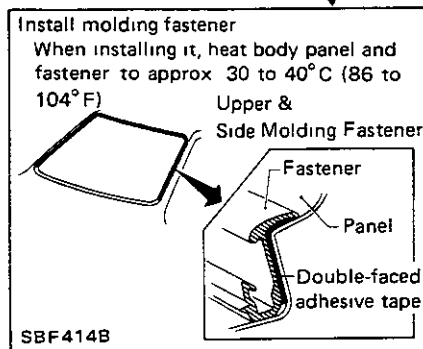
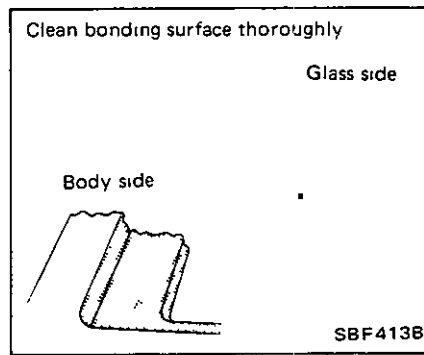
Be careful not to scratch glass when removing

INSTALLATION

- Use genuine Nissan Sealant kit or equivalent. Follow instructions furnished with it.
- 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.

WARNING

Keep heat or open flames away as Primers are flammable



CAUTION

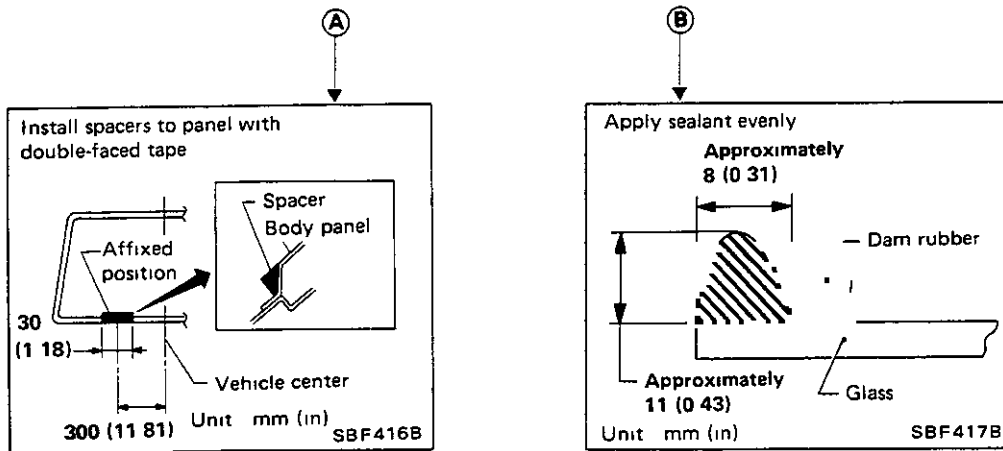
Allow Primers to dry for 10 to 15 minutes before proceeding to the next step

CAUTION.

Do not apply Primer A to windshield opening flanges

WINDSHIELD AND WINDOWS

Windshield (Cont'd)



CAUTION

Windshield glass should be installed within 15 minutes of applying sealant. Sealant starts to harden 15 minutes after it is applied.

Set glass in position and press glass lightly and evenly

Set moldings

Check for water leakage

Install molding

Reference Period required for sealant to dry to desired hardness

Unit days

Temperature °C (°F)	Relative humidity %		
	90	50	25
25 (77)	1 6	2 9	6 1
5 (41)	3 5	9 1	15 0

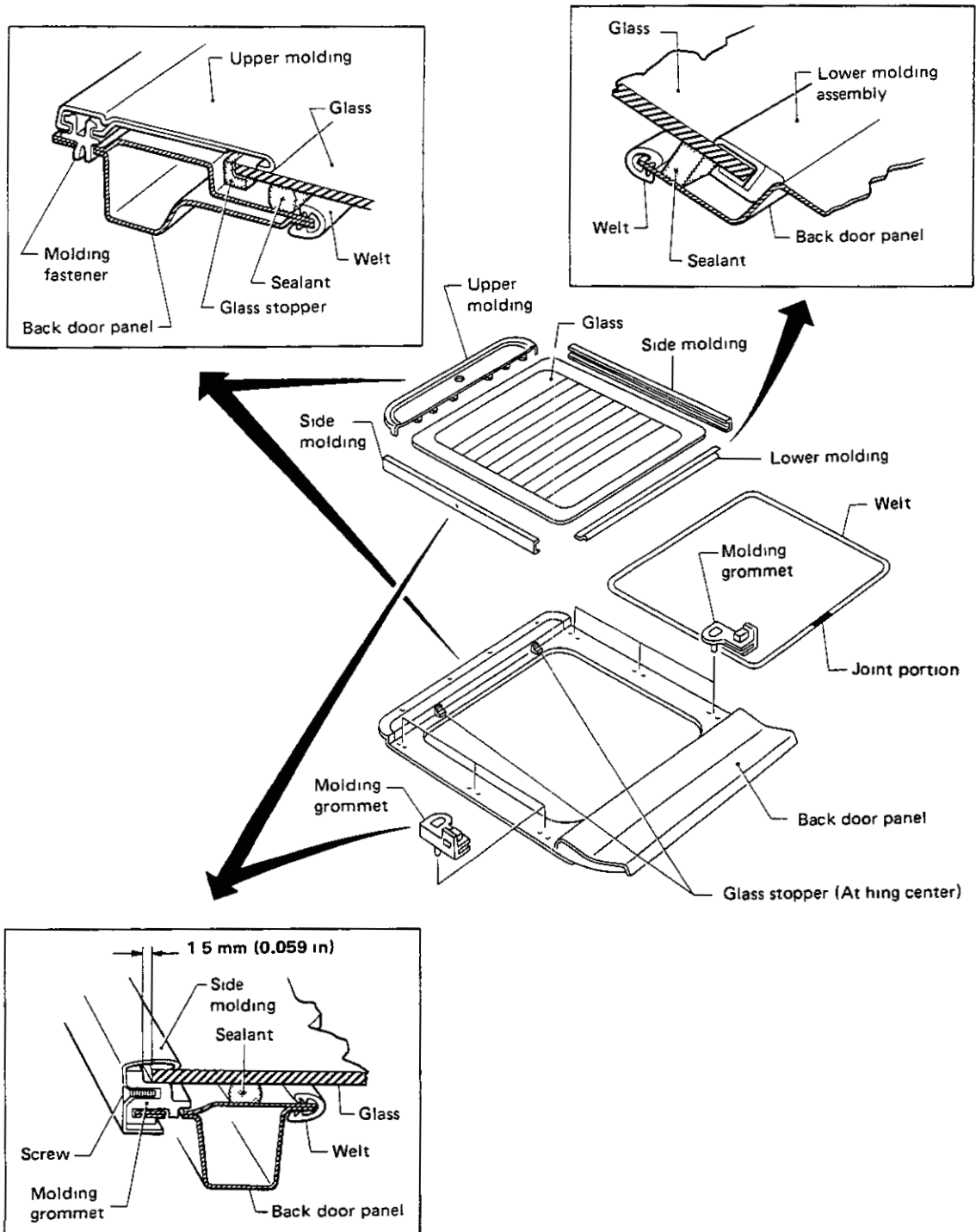
CAUTION:

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

WINDSHIELD AND WINDOWS

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.

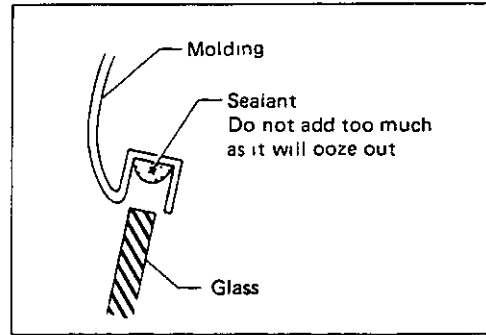


SBF419B

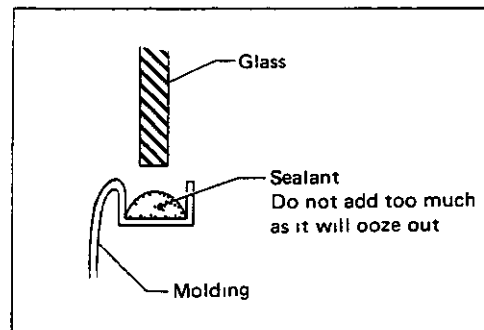
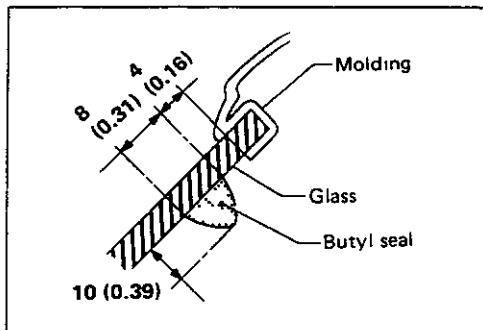
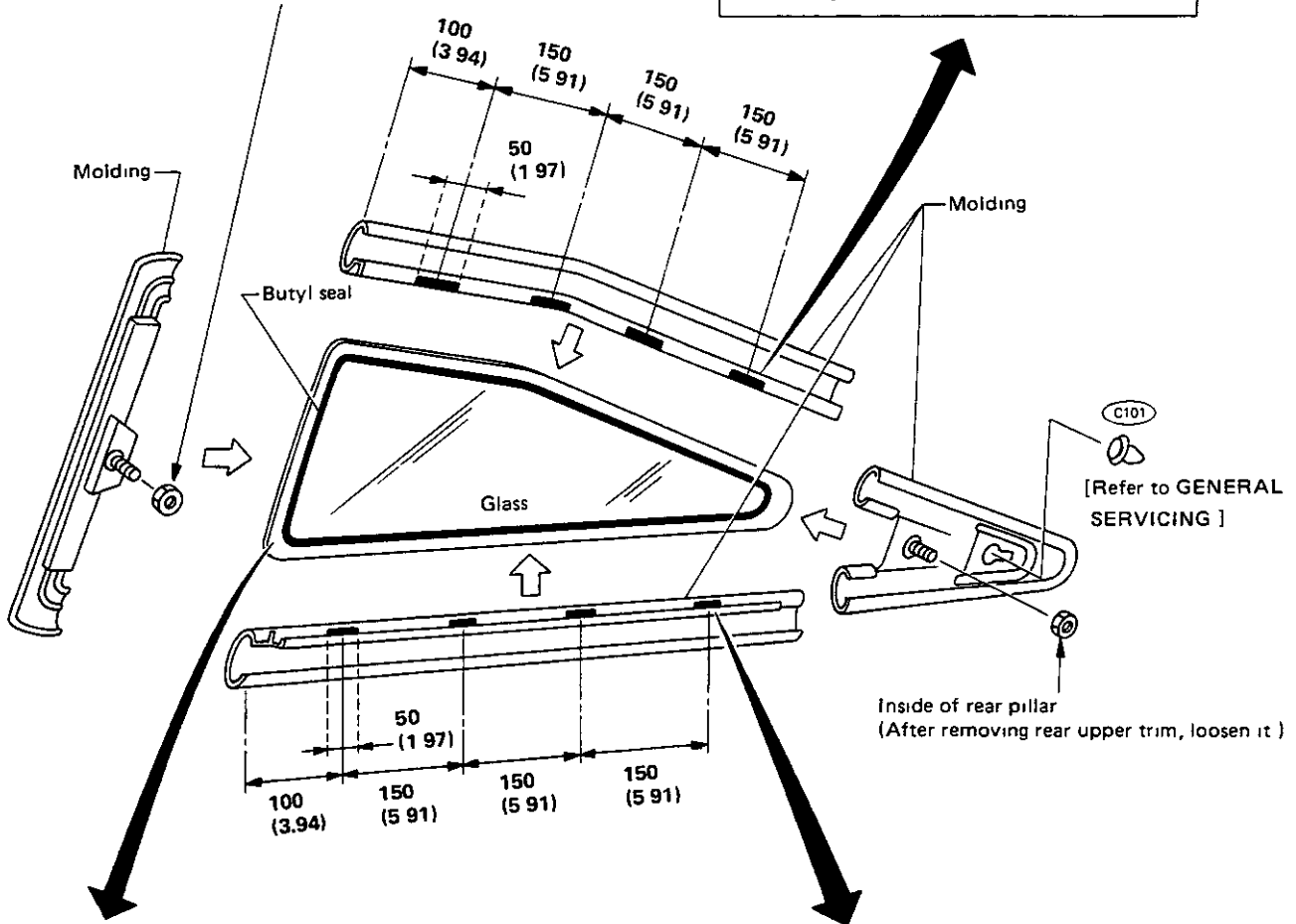
WINDSHIELD AND WINDOWS

Side Window

- When installing glass, assemble molding to glass, then install glass with butyl seal and nuts



Inside of center pillar
(After removing rear upper trim, loosen it)



Unit mm (in)

SBF418B

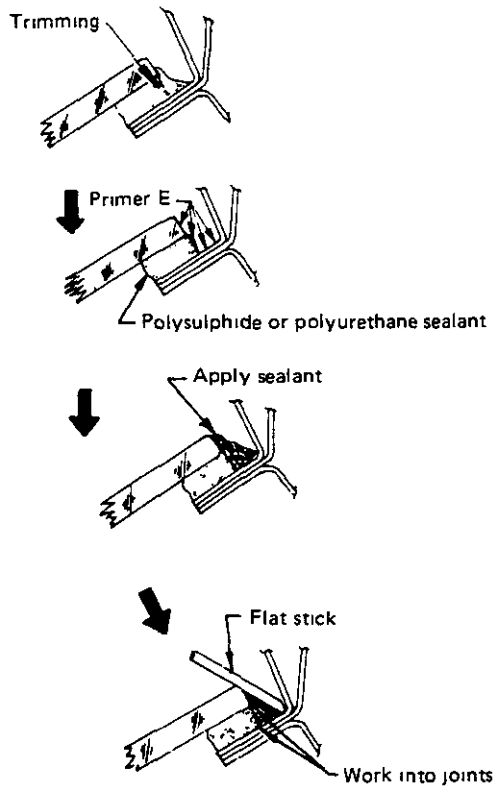
WINDSHIELD AND WINDOWS

Repairing Leaks

Leaks can be repaired without removing and re-installing 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

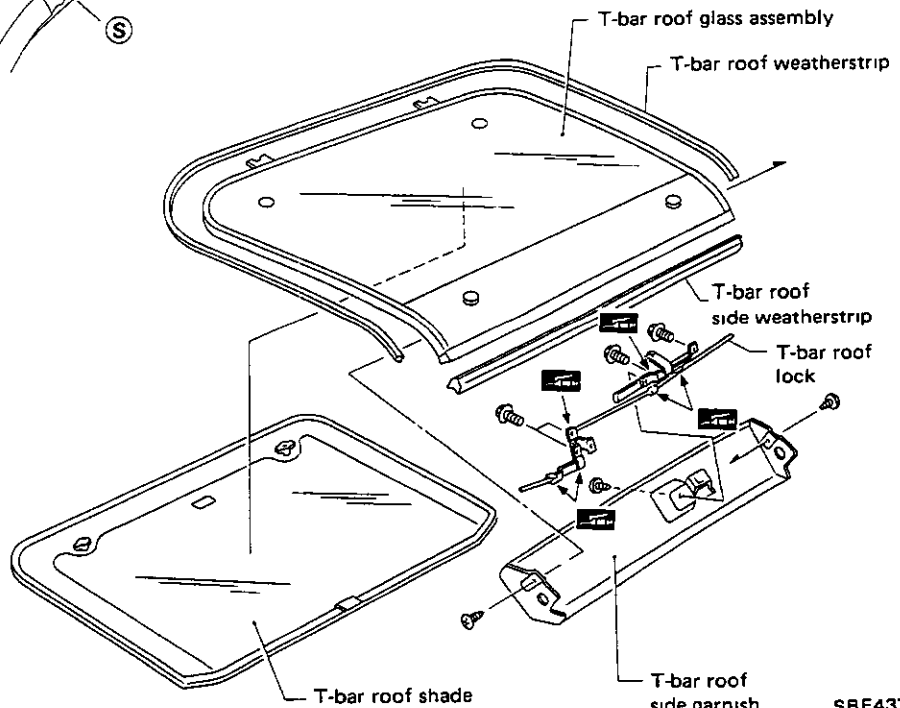
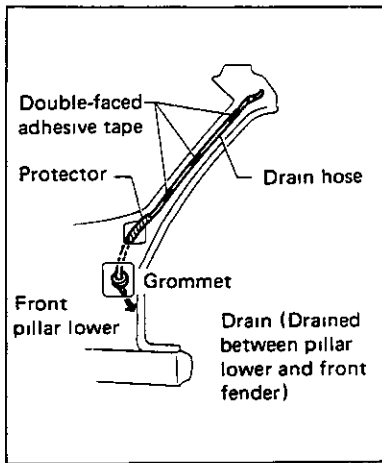
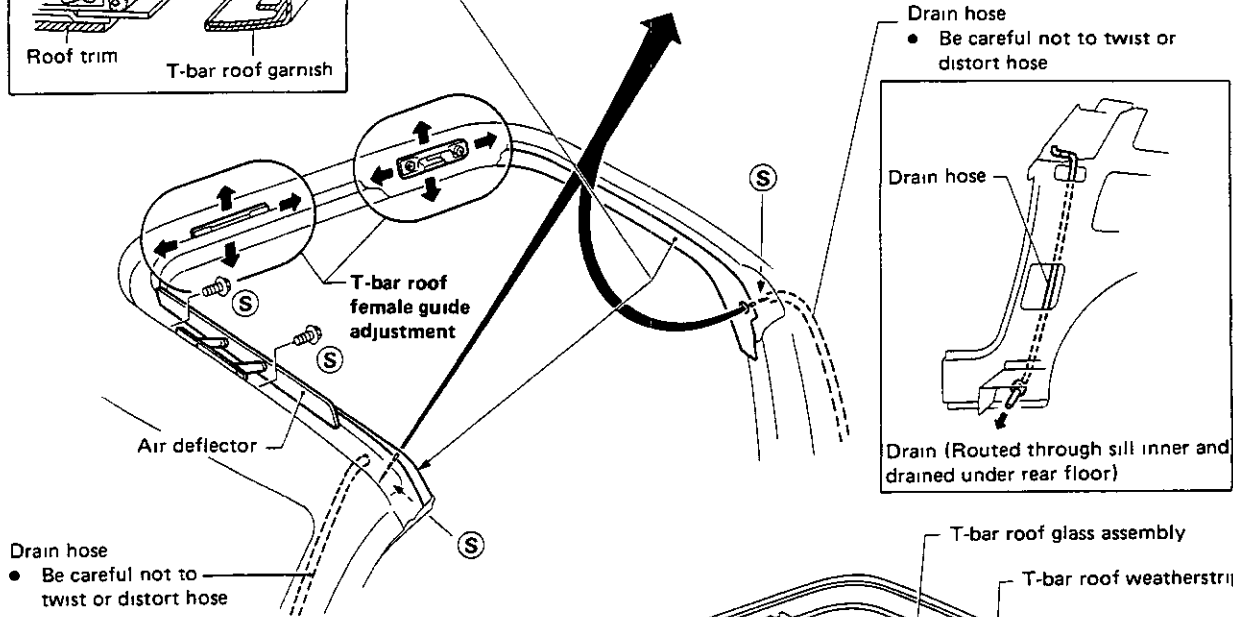
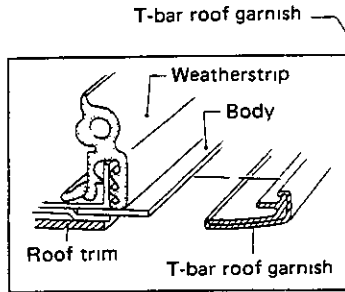
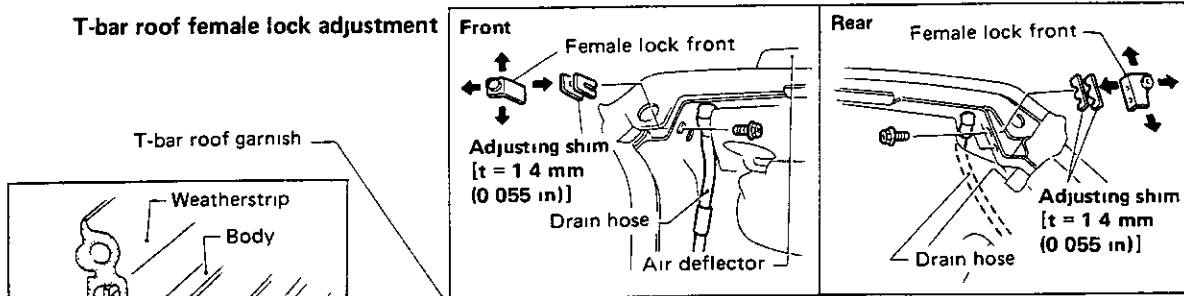


SBF182B

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.

T-bar roof female lock adjustment



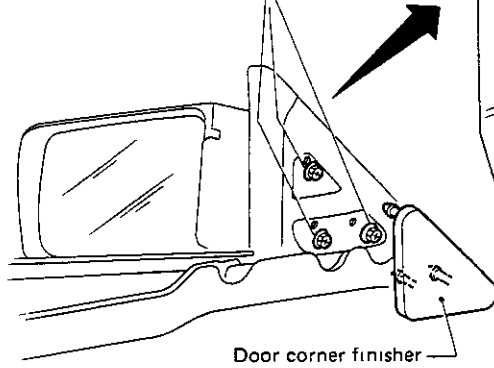
Grease up point
 Sealant point

SBF437B

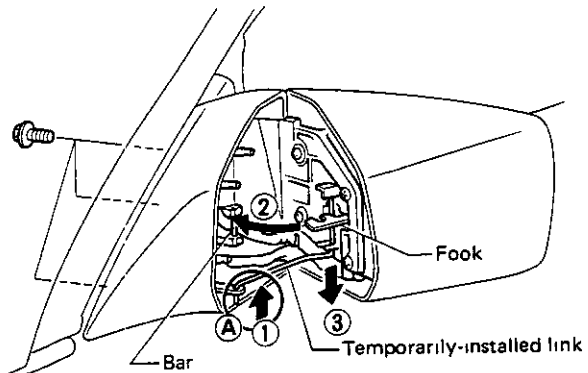
MIRROR

Door Mirror

23 30 N m
(0 23 - 0 31 kg-m, 1 7 - 2 2 ft-lb)



Initial setting



Procedure

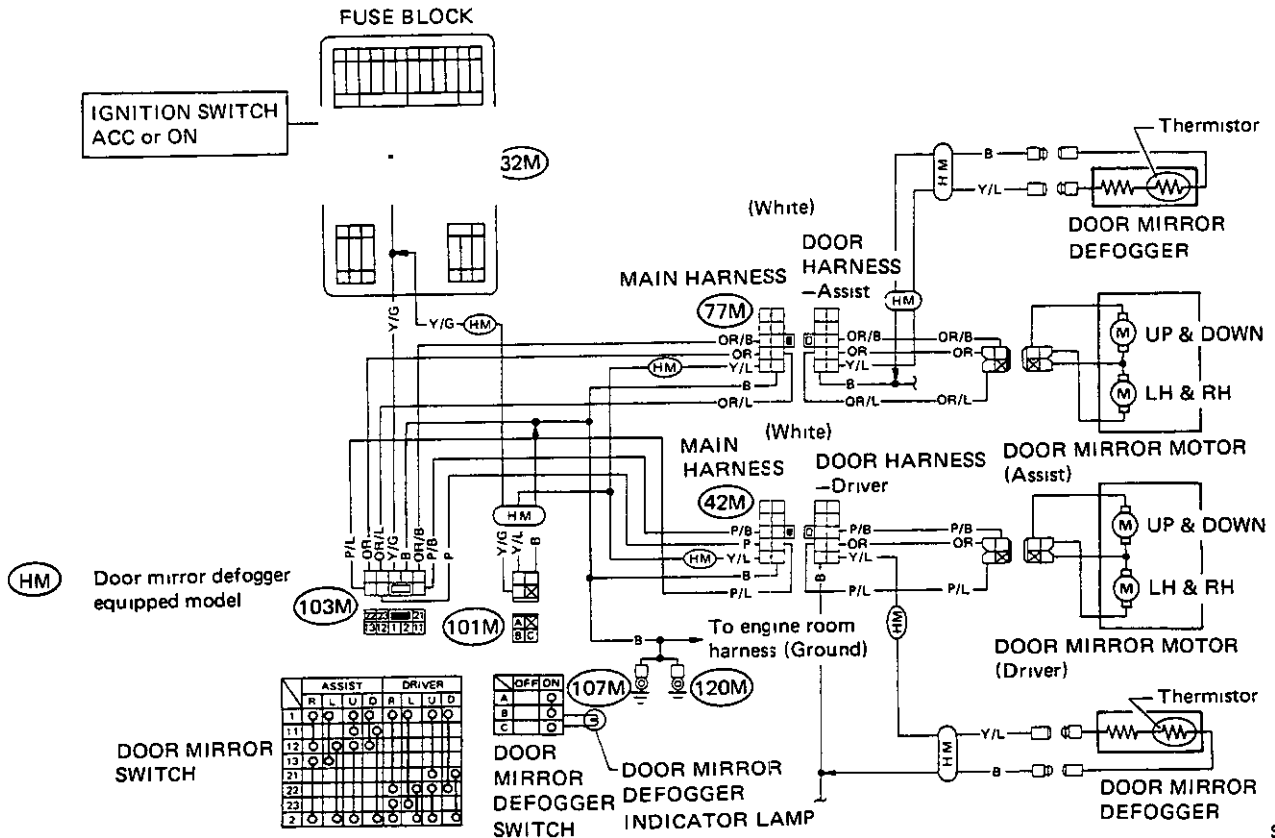
- ① After installing mirror base to door, remove portion **A** of temporarily-installed link
- ② Hook the bar with the hook and make sure it is hooked securely
- ③ Tilt mirror body backward and while holding mirror, remove temporarily-installed link

CAUTION

Never remove temporarily-installed link from mirror body, before hooking the bar with the hook

SBF434B

ELECTRICAL REMOTE CONTROL DOOR MIRROR/WIRING DIAGRAM

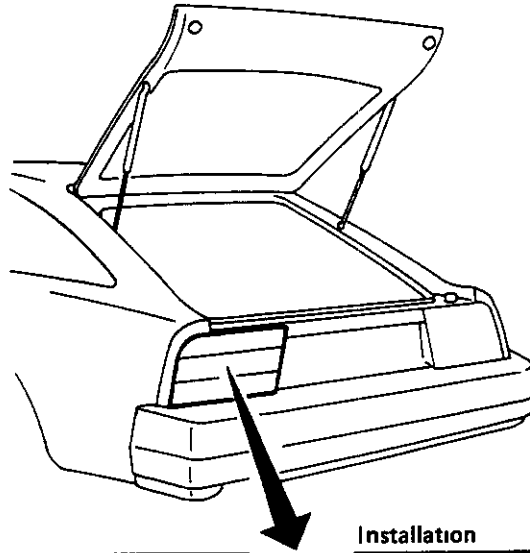


SBF410B

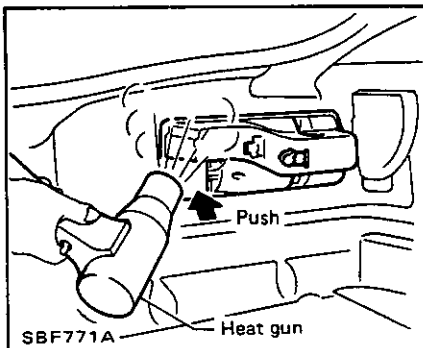
REAR COMBINATION LAMP

Removal and Installation

- Rear combination lamps are installed with nuts and butyl sealant.

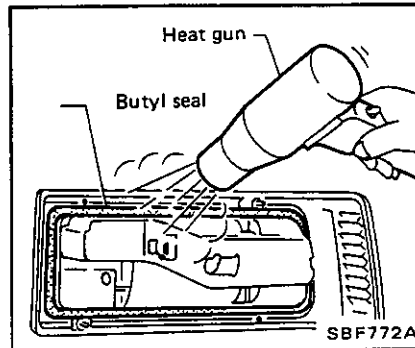


Removal



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

Installation



- 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

BODY ALIGNMENT

- 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".

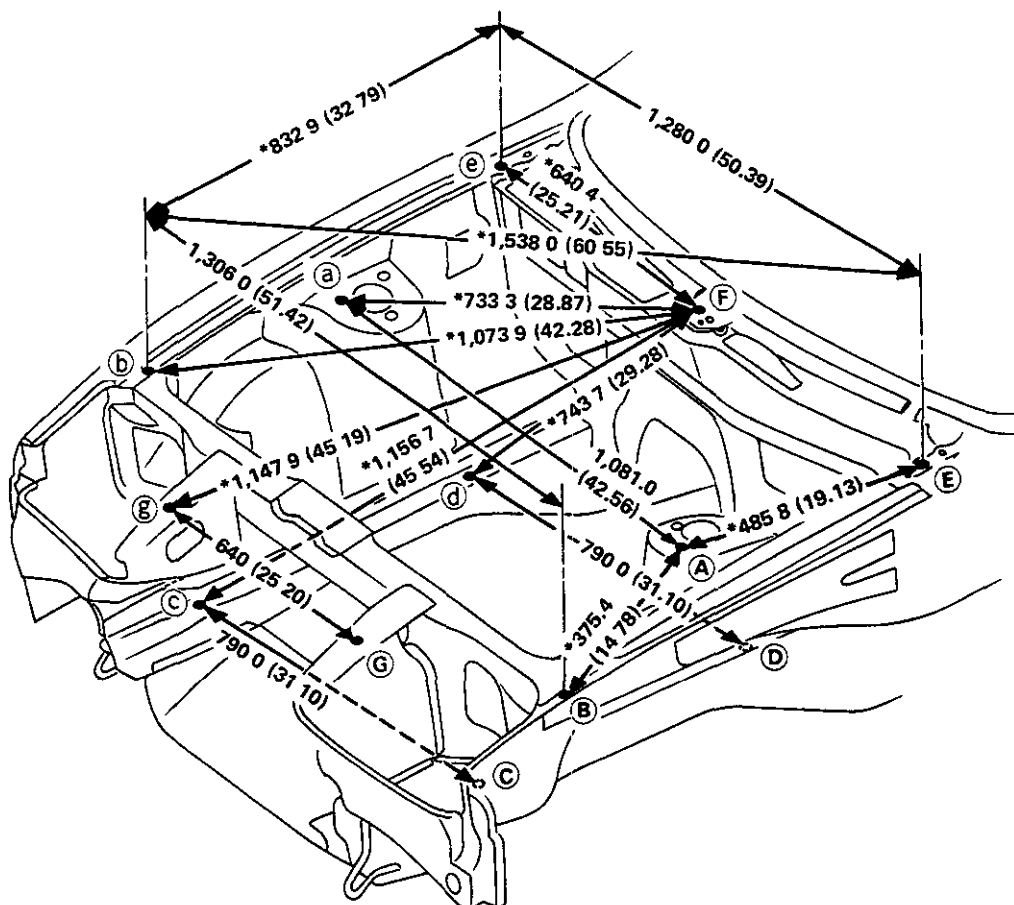
Dimension lines: "x" line – Center line of vehicle

"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



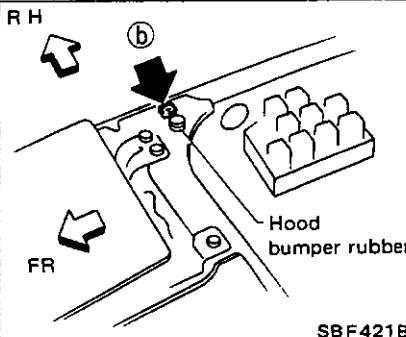
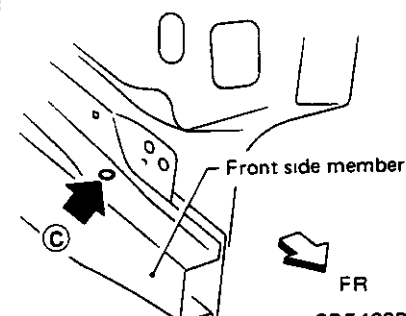
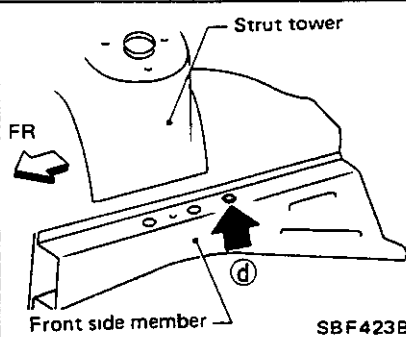
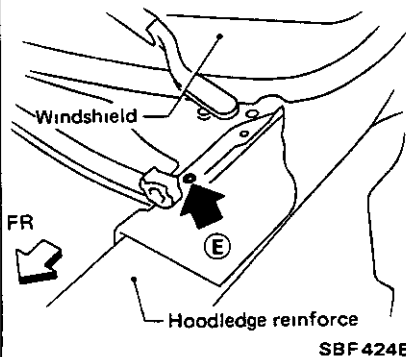
Unit mm (in)

SBF420B

BODY ALIGNMENT

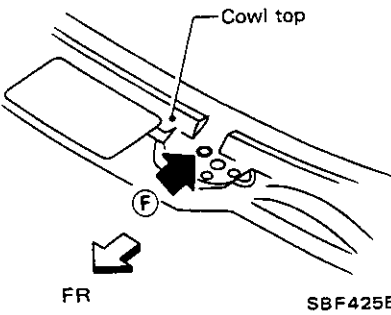
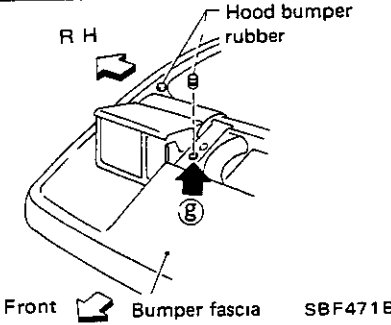
Engine Compartment (Cont'd)

MEASUREMENT POINTS

Points	Hole dia mm (in)	Detailed points	Coordinates mm (in)		
			"x"	"y"	"z"
(A) (a)	12 (0 47)	Hole for front suspension upper mounting (Outside front hole)	540 5 (21 28)	26 8 (1 055)	919 0 (36 18)
(B) (b)	9 (0 35)	 <p>Hole for fixing front fender</p> <p>SBF421B</p>	653 0 (25 71)	-325 0 (-12 80)	852 0 (33 54)
(C) (c)	5 4 (0 213)	 <p>Hole for fixing harness clip at upperside of front side member</p> <p>SBF422B</p>	395 0 (15 55)	-460 0 (-18 11)	490 0 (19 29)
(D) (d)	8 (0 31)	 <p>Hole for fixing harness clip at upperside of front side member</p> <p>SBF423B</p>	395 0 (15 55)	100 0 (3 94)	490 0 (19 29)
(E) (e)	11 (0 43)	 <p>Hole for mounting hood hinge</p> <p>SBF424B</p>	640 0 (25 20)	500 0 (19 69)	966 0 (38 03)

BODY ALIGNMENT

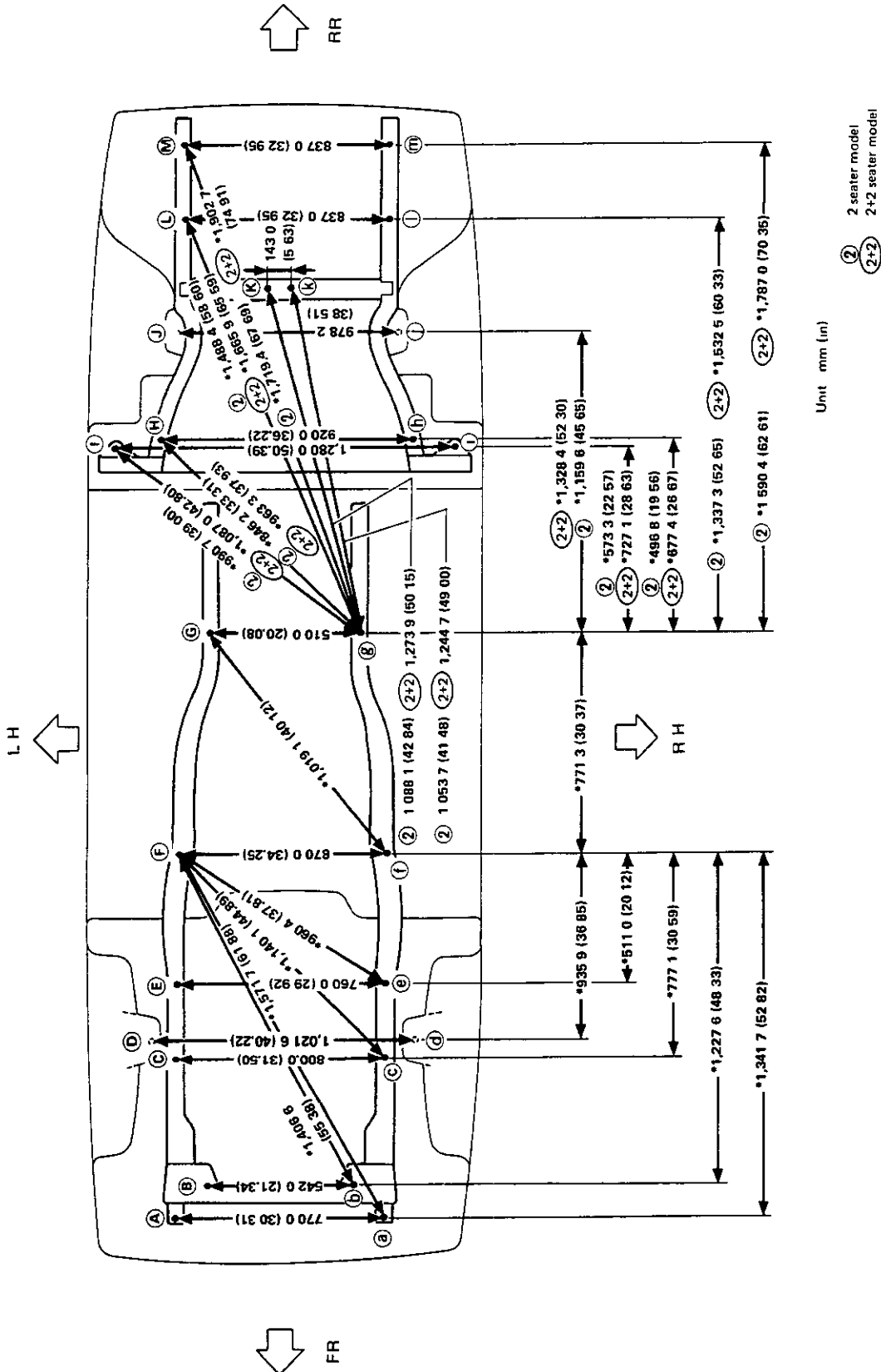
Engine Compartment (Cont'd)

Points	Hole dia mm (in)	Detailed points		Coordinates mm (in)		
				"x"	"y"	"z"
Ⓕ	7 (0 28)	 <p>Cowl top</p> <p>FR</p> <p>SBF425B</p>	Hole for mounting wiper pivot	0 0 (0)	520 8 (20 50)	959 0 (37 76)
Ⓖ Ⓖ	16 (0 63)	 <p>R H</p> <p>Hood bumper rubber</p> <p>Front</p> <p>Bumper fascia</p> <p>SBF471B</p>	Hole for mounting hood bumper rubber on headlamp side housing	320 0 (12 60)	-566 1 (-22 29)	774 8 (30 50)

BODY ALIGNMENT

Underbody

MEASUREMENT

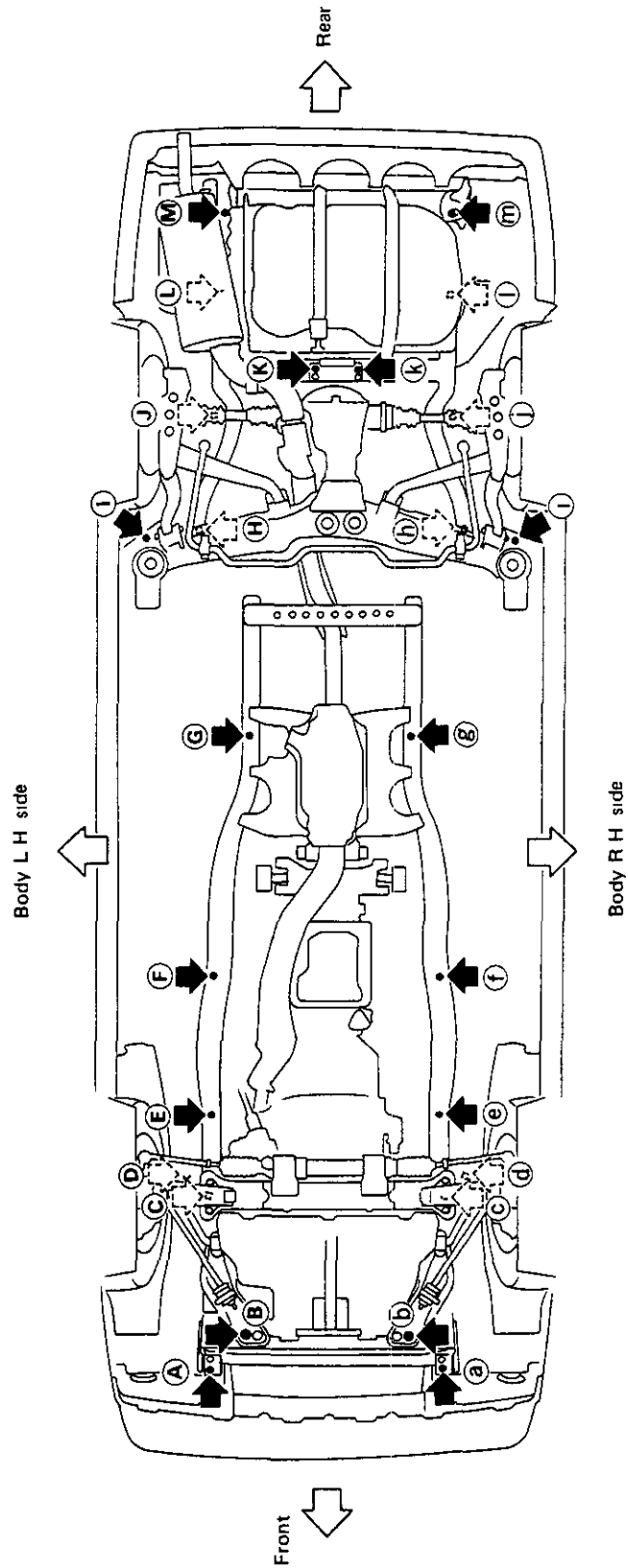


SBF426B

BODY ALIGNMENT

Underbody (Cont'd)



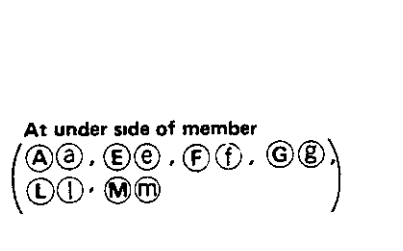
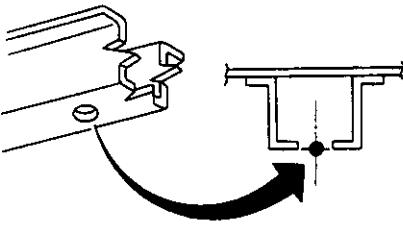
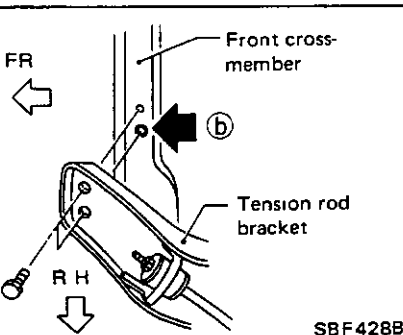
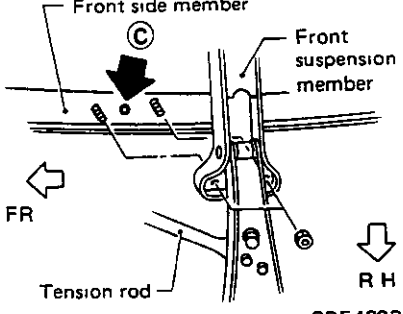
MEASUREMENT POINTS



SBF433B

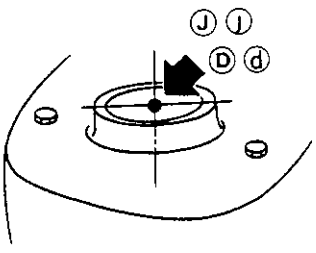
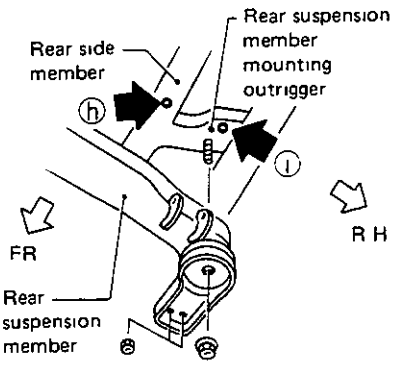
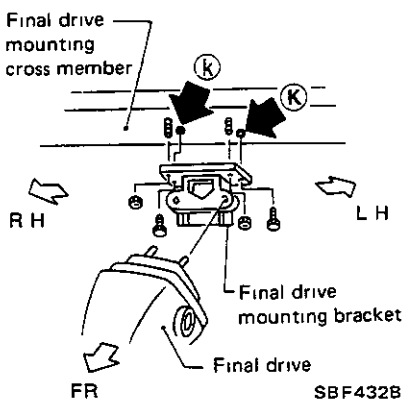
BODY ALIGNMENT

Underbody (Cont'd)

Points	Hole dia mm (in)	Detailed points	Coordinates mm (in)			
			"x"	"y"	"z"	
(A) (a)	13 (0 51)		385 0 (15 16)	-585 0 (-23 03)	388 0 (15 28)	
(E) (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)
(G) (g)	13 (0 51)			255 0 (10 04)	1,500 0 (59 06)	261 0 (10 28)
(L) (l)	13 (0 51)	<p>At under side of member (A a, E e, F f, G g, L l, M m)</p> 	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)	
(M) (m)	15 (0 59)	 <p>SBF427B</p>	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)	 <p>FR RH</p> <p>Front cross- member</p> <p>Tension rod bracket</p> <p>SBF428B</p>	271 0 (10 67)	-465.0 (-18 31)	325 5 (12 81)	
(C) (c)	16 (0 63)	 <p>FR RH</p> <p>Front side member</p> <p>Front suspension member</p> <p>Tension rod</p> <p>SBF429B</p>	400 0 (15 75)	-10 0 (-0 394)	422 0 (16.61)	

BODY ALIGNMENT

Underbody (Cont'd)

Points	Hole dia mm (in)	Detailed points	Coordinates mm (in)			
			"x"	"y"	"z"	
Ⓓ Ⓓ	82.3 (3.240)	 <p>SBF430B</p>	Front suspension upper mounting	510.8 (20.11)	80.0 (3.150)	912.6 (35.93)
Ⓙ Ⓛ	54 (2.13)		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)
Ⓜ Ⓜ	15 (0.59)	 <p>SBF431B</p>	Hole for locating on underside of member	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)
Ⓨ Ⓨ	13 (0.51)			640.0 (25.20)	2 seater model 1,900.0 (74.80) 2+2 seater model 2,100.0 (82.68)	404.0 (15.91)
Ⓚ	15 (0.59)	 <p>SBF432B</p>	Hole for mounting final drive on underside of final drive mounting crossmember	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)
Ⓚ				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)