

PREVOST

INFORMATION DE MAINTENANCE

IM15-56

DATE: NOVEMBRE 2015 SECTION: 23 - Accessoires

SUJET: PROBLÈME DE FONCTIONNEMENT DU PARE-SOLEIL ÉLECTRIQUE DROIT SUR VÉHICULES

US07

REMARQUE IMPORTANTE

Cette modification est recommandée par Prevost dans le but d'améliorer les performances de votre véhicule. Noter par contre, qu'aucun remboursement ne sera accordé pour l'exécution de cette modification.

APPLICATION

Modèle VIN	VIN. RECONSTRUCTION OF CAMERICA STATE OF CAMERIC
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Véhicules conformes à la norme EPA US07 équipés de commandes des pare-soleils sur le volant

DESCRIPTION

Sur les véhicules mentionnés ci-haut, s'il arrivait que le pare-soleil électrique situé du côté droit du véhicule cesse de fonctionner sans que ce soit dû à un problème du mécanisme d'entraînement, effectuer la procédure qui suit.

MATÉRIEL

Pièce No	Description	Qté
-	FIL ÉLECTRIQUE, 14AWG NOIR	Environ 3 pi.
-	GAINE THERMORÉTRACTABLE	3 po.
563296	CHEVILLE DE CONTACT FEMELLE 14GA, YAZAKI #7116412102	1

MARCHE À SUIVRE

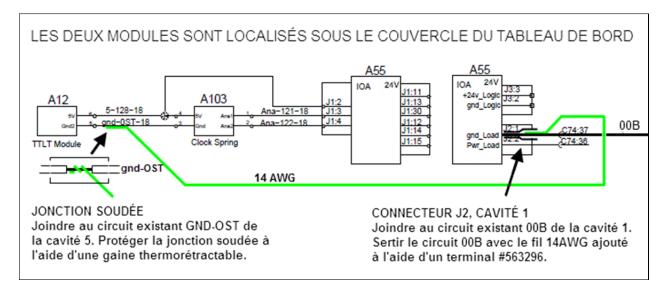


DANGER

Stationner le véhicule de façon sécuritaire, appliquer le frein de stationnement, arrêter le moteur. Avant de travailler sur le véhicule, placer le commutateur d'allumage à la position OFF et déclencher les disjoncteurs principaux équipés d'un dispositif de déclenchement manuel. Sur les véhicules de type Commuter, placer le commutateur principal d'alimentation (master cut-out) à la position OFF.

Correctif: Ajouter un fil 14AWG noir (circuit de mise à la masse) entre le module multiplex A55 (connecteur J2, cavité no.1) et le module du panneau des instruments (telltale module) A12 (cavité no.5).

- 1. Retirer le couvercle du tableau de bord.
- Au module A55, la cavité no.1 est occupée par le circuit 00B. Retirer le circuit 00B du connecteur et couper son terminal.



- Joindre le fil 14AWG au circuit 00B. Sertir les deux circuits dans un terminal #563296 (YAZAKI #7116412102, 6.3 System), puis réinstaller le nouveau terminal dans la cavité no.1. (Consulter la documention Yazaki jointe).
- 4. Au module A12, sans couper le fil, dégager un bout de la gaine du circuit **gnd-OST** et y souder l'autre extrémité du fil 14AWG. Couvrir cette jonction avec de la gaine thermo-rétractable pour la protéger.
- 5. Fixer le nouveau fil aux autres câblages avec des attaches en nylon.
- 6. Réinstaller le couvercle du tableau de bord puis tester le fonctionnement du pare-soleil.

DISPOSITION DES PIÈCES

Rebuter selon les règlements environnementaux applicables (mun./prov./féd.).



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Handling Manual

For

YESC Connector

2.8 System, 6.3 System and

Hybrid System

<Note>

Please be informed that the contents in this handling manual may be revised without notice.

YAZAKI PARTS CO., LTD YAZAKI CORPORATION AUG.01.2001

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1. INTRODUCTION

THIS HANDLING MANUAL IS PREPARED FOR WIRING HARNESS SUPPLIERS, VEHICLE MANUFACTURERS, ETC.

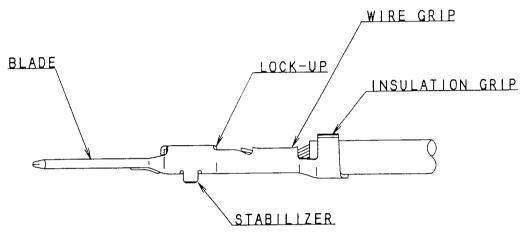
REGARDING THE HANDLING OF 1.5 SYSTEM CONNECTOR, PLEASE REFER TO THE HANDLING MANUAL FOR 1.5 SYSTEM CONNECTOR (YESC-15-239).

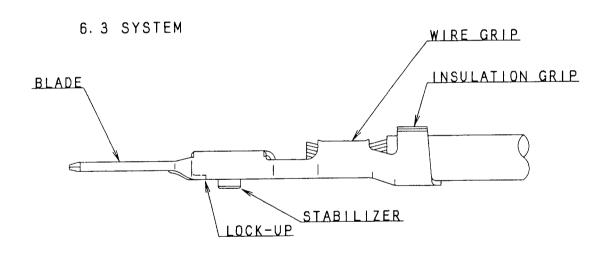
<NOTE>

THIS HANDLING MANUAL MAY BE SUBJECT TO REVISION WITHOUT ANY NOTICE TO THE CUSTOMERS.

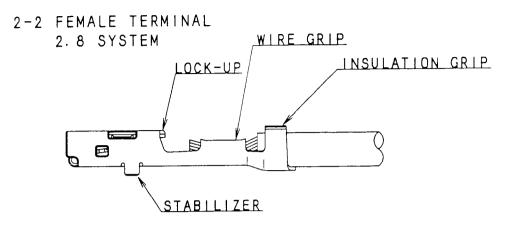
2. DESCRIPTION OF PART NAMES AND FUNCTIONS OF TERMINALS, HOUSINGS AND FRONT HOLDERS

2-1 MALE TERMINAL 2.8 SYSTEM

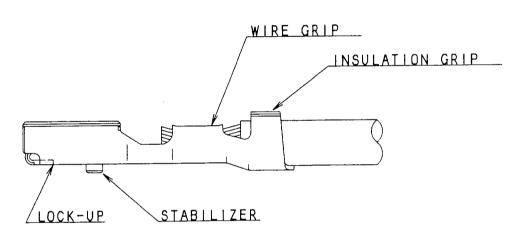




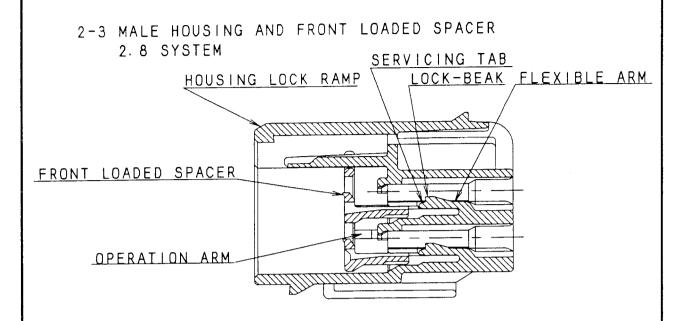
PART NAME	FUNCTION		
BLADE	CONTACT WITH FEMALE TERMINAL		
LOCK-UP	LOCK WITH HOUSING		
STABILIZER	PREVENTION OF RATTLE AND WRONG SIDE INSERTION		
WIRE GRIP	CONDUCTOR CRIMPING		
INSULATION GRIP	INSULATION CRIMPING		

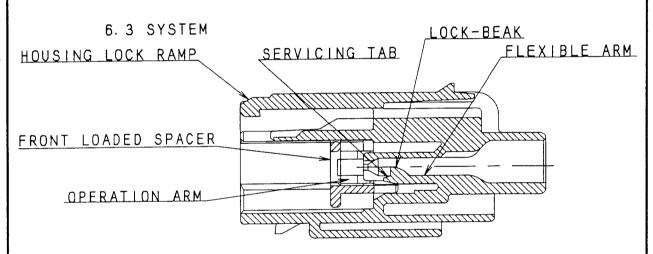


6. 3 SYSTEM

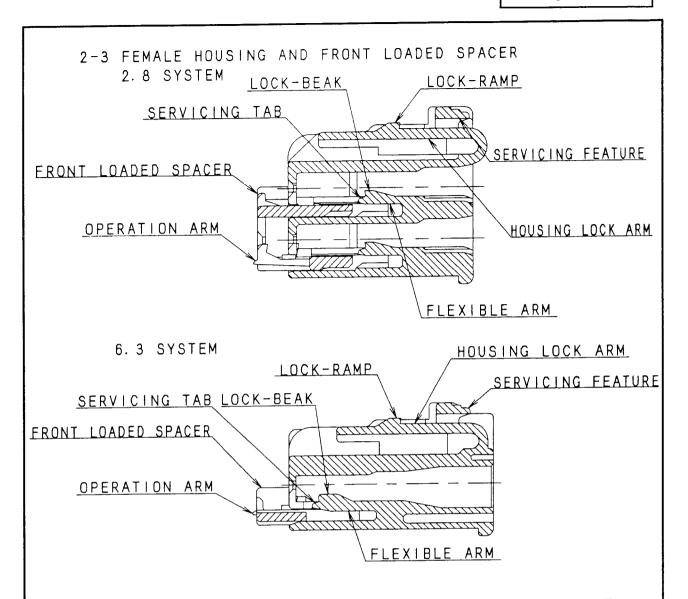


PART NAME	FUNCTION		
LOCK-UP	LOCK WITH HOUSING		
STABILIZER	PREVENTION OF RATTLE AND WRONG SIDE INSERTION		
WIRE GRIP	CONDUCTOR CRIMPING		
INSULATION GRIP	INSULATION CRIMPING		





	PART NAME	FUNCTION	
HOUSING LANCE		TO LOCK WITH MALE TERMINAL	
	SERVICING TAB	TO RELEASE HOUSING LANCE LOCK	
	FLEXIBLE ARM	TO HOLD BEAK AND KEY	
	LOCK-BEAK	TO HOLD TERMINAL	
HOUSING LOCK RAMP		TO LOCK WITH FEMALE HOUSING	
FRONT LOADED SPACER		TERMINAL POSITION ASSURANCE	
	OPERATION ARM	SETTING AND RELEASING OF SECONDARY LOCKING	



PART NAME		FUNCTION
ноц	JSING LANCE	TO LOCK WITH FEMALE TERMINAL
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	FLEXXIBLE ARM	TO HOLD BEAK AND KEY
	LOCK-BEAK	TO HOLD TERMINAL
L(OCKING ARM	TO LOCK WITH MALE HOUSING
	LOCK-RAMP	TO HOLD MALE HOUSING
	SERVICING FEATURE	TO RELEASE HOUSING LOCK
FRONT LOADED SPACER		TERMINAL POSITION ASSURANCE
	OPERATION ARM	SETTING AND RELEASING OF SECONDARY LOCKING

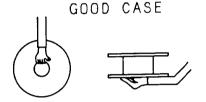
3. PARTS STORAGE AND TRANSPORTATION PRECAUTIONS

THE PARTS MUST BE FREE FROM DEFORMATION AND DAMAGE, ETC. DURING STORAGE AND TRANSPORTATION.

3-1 TERMINAL

FOR STORAGE AND TRANSPORTATION, THE FOLLOWING METHODS MUST BE OBSERVED:

<TRANSPORTATION>



BAD CASE

<STORAGE>

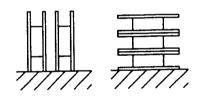
GOOD CASE

VINYL-BAG
(FOR GOLD PLATING TERMINAL)

BOX

*PILE UP TO MAX. 2 BOXES.

BAD CASE (UNCOVERED STORAGE)

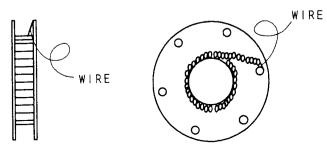


3-2 HOUSING ETC.

STORE THEM IN THE BOX OR VINYL-BAG.

PRECAUTIONARY ITEMS

- 1. THE PARTS MUST BE STORED INDOORS WHERE IT IS NOT HUMID AND NO DIRECT EXPOSURE TO SUNLIGHT.
- 2. THE PARTS MUST NOT BE STORED UNCOVERED WITH BOX OR VINYL-BAG (THEY MUST BE PROTECTED ESPECIALLY FROM WATER, OIL AND DUST.)
- 3. AVOID ANY IMPACTS DURING TRANSPORTATION.
- 4. TERMINALS ARE FASTENED TO THE REEL WITH A WIRE AS SHOWN BELOW TO PREVENT TERMINAL FRAYING.



4. TERMINAL CRIMPING SPECIFICATION:

4-1 CRIMPING STANDARD:

THE FOLLOWING TABLE FOR THE CRIMPING STANDARD IS REFERENCE ONLY.

THEREFORE, CONTACT OUR SALES DEPARTMENT FOR THE OFFICAL CRIMPING STANDARD.

TYPE	YPE TERMINAL		INSUL.	WIRE BARREL		INSULATION BARREL	
	PART NO.	SIZE mm²	STRIP LENGTH	C/H	C/W	C/H	C/W
		0.35	5. 0	1.00 ~ 1.10	1.70 ~ 1.80	1. 95 ~ 2. 15	2. 20 ~ 2. 40
1. 5	7114-4100-02	0. 5	5. 0	1.05 ~ 1.15	1.70 ~ 1.80	2.10 ~ 2.30	2. 20 ~ 2. 40
SYSTEM		0.75	5.0	1. 15 ~ 1. 25	2. 20 ~ 2. 30		2. 55 ~ 2. 75
MALE	7114-4101-02	1.0	5. 0	1. 20 ~ 1. 30	2. 20 ~ 2. 30	2. 55 ~ 2. 75	2. 55 ~ 2. 75
	7114-4104-02	1. 5	5.0	1.00 ~ 1.10	1.70 ~ 1.80		2. 20 ~ 2. 40
		0.35	5.0	0.90 ~ 1.00	1.70 ~ 1.80		
1. 5	7116-4100-02	0.5	5.0	0.95 ~ 1.05	1.70 ~ 1.80		2. 20 ~ 2. 40
SYSTEM	7116 4101 00	0.75	5.0	1.05 ~ 1.15	2.05 ~ 2.15		2. 55 ~ 2. 75
FEMALE	7116-4101-02	1.0	5.0	1. 15 ~ 1. 25		2.40 ~ 2.60	
	7116-4104-02	1. 5	5.0	1.00 ~ 1.10	1.70 ~ 1.80	1. 95 ~ 2. 15	2. 20 ~ 2. 40
	7114-4110-02	0.35	5.0		1.85 ~ 2.05	1.80 ~ 2.00	2. 35 ~ 2. 55
2.8 SYSTEM	/1 4-41 0-02 L	0.5	5.0	1.05 ~ 1.15	1.85 ~ 2.05	2.05 ~ 2.25	
MALE	7114-4111-02	0. 75		1. 15 ~ 1. 25	2. 30 ~ 2. 50	2. 25 ~ 2. 45	3. 15 ~ 3. 35
MALL	/114 4111 02	1.0	5.0		2. 30 ~ 2. 50		
1	7114-4112-02	1.5	5. 0		2. 70 ~ 2. 90		
	7114 4112 02	2. 5		1. 65 ~ 1. 75	2. 70 ~ 2. 90	3. 10 ~ 3. 30	3. 70 ~ 3. 90
2. 8	7116-4110-02	0.35	5.0		1.85 ~ 2.05		
SYSTEM	7110 1110 02	0. 5	5. 0			2.05 ~ 2.25	2. 35 ~ 2. 55 3. 15 ~ 3. 35
FEMALE	7114-4116-02	0. 75	5. 0		2. 30 ~ 2. 50	$\frac{2.25 \sim 2.45}{2.40 \sim 2.60}$	
		1.0	5.0	1. 25 ~ 1. 35	$2.30 \sim 2.50$ $2.70 \sim 2.90$		1
	7116-4112-02	1.5	5.0	 			
		2. 5	5.0			2. 30 ~ 2. 50	
6. 3		0. 5	5.0	1. 25 ~ 1. 35	2. 50 ~ 2. 70	1	3.00 ~ 3.20
SYSTEM	7114-4120-02				$2.50 \sim 2.70$		
MALE		1.0	5. 0 5. 0	1. 60 ~ 1. 70	2. 95 ~ 3. 15		3. 75 ~ 3. 95
	7114-4121-02	1. 5 2. 5	5. 0	1	2. 95 ~ 3. 15	1	3. 75 ~ 3. 95
	7114 4100 00		5. 5		3. 55 ~ 3. 75		
-	7114-4122-02	4.0	5.0	1. 20 ~ 1. 30	2 50 ~ 2 70	2 30 ~ 2 50	3.00 ~ 3.20
6. 3	7110 4100 00		5. 0	1. 25 ~ 1. 35	2. 50 ~ 2. 70		3.00 ~ 3.20
SYSTEM	7116-4120-02		5. 0	1. 35 ~ 1. 45	2. 50 ~ 2. 70		3.00 ~ 3.20
FFEMALE		1.0	5. 0	1. 60 ~ 1. 70	2. 95 ~ 3. 15		3. 75 ~ 3. 95
	7116-4121-02	1. 5 2. 5	5. 0	1. 80 ~ 1. 90		3. 60 ~ 3. 80	
	7116 - 4100 00	4.0	5. 5		3. 55 ~ 3. 75		
	7116-4122-02	1 4. V	10.0	14.10 - 2.20	10.00 0.70	1 1. 10	

<NOTE>

THE TOLERANCE FOR INSULATION STRIP LENGTH 1S +0.5mm.

4-2 CRIMPING CHECK POINTS AND JUDGEMENT:
WHEN TERMINALS ARE CRIMPED, CARE MUST BE TAKEN ON THE

FOLLOWING ITEMS:

ITEM	CHECK POINT	JUDGEMENT	
INSULATION STRIPPING	CONDUCTOR DIAGONAL CUTTING CONDUCTOR CUT ANY FLAW ON CONDUCTORS INSULATION DIAGONAL CUT ANY DAMAGE ON INSULATION	CORRECT CONDUCTOR CONDUCTOR CUT CONDUCTOR INSULATION INSULATION FLAW DIAGONAL DAMAGE	
CRIMPING OF WIRE GRIP MALE/FEMALE	CONDITION	A	
	ANY CONDUCTOR FLAW		
	BELL-MOUTH	0. 2~0. 8 m m	
	INSULATION CRIMPED BY WIRE BARREL	N G	
	TOP LENGTH OF CONDUCTOR	0. 1~1. 0 mm	
	BURR AND/OR TWIST	Sec. A-A SHOULD NOT PROTRUDE PAST THIS LINE.	

ITEM	CHECK POINT	JUDGEMENT
CRIMPING OF INSUL. GRIP	CORRECT CRIMPING CONDITION	THE END OF INSULATION MUST BE SEEN BETWEEN WIRE AND INSULATION GRIP.
MALE/FEMALE		
	INSULATION FALLS SHORT OF INSULATION GRIP	NG
	WRAP CRIMPING	THE INSULATION GRIP MUST BE WRAPPED.
	CUT OFF LENGTH	<u>0</u> ~0. 3 m m
	DAMAGED INSULATION	INSULATION CRIMP PINCHES AND/OR VISIBLY DEFORMS THE WIRE INSULATION.
		N G
	NO CREASE OF GRIP	N G

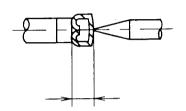
ITEM	CHECK POINT	JUDGEMENT
DEFORMATION BY	TWIST MALE/FEMALE	TWISTED TERMINALS SHOULD BE REJECTED DURING VISUAL CHECKING
CRIMPING		
	BENT UP	THE DEGREE OF BENDING MUST BE 3° OR LESS.
	BENT DOWN	THE DEGREE OF BENDING MUST BE 1° OR LESS.
	BLADE DEFORMATION	DEFORMATION AT POINT C IS NOT ACCEPTABLE.
		C
	BOX MISALIGNMENT MALE/FEMALE	
	BOX DEFORMATION	NG NG
	CRIMP DISCREPANCY MALE/FEMALE	S Z

4-3 MEASUREMENT OF CRIMP HEIGHT AND CRIMP WIDTH:

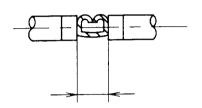
PLEASE MEASURE THE CRIMP HEIGHT AND CRIMP WIDTH USING THE SPECIFIED EQUIPMENT.

FOR THE SPECIFIED EQUIPMENT, PLEASE REFER TO SECTION 4-4.

CRIMP HEIGHT



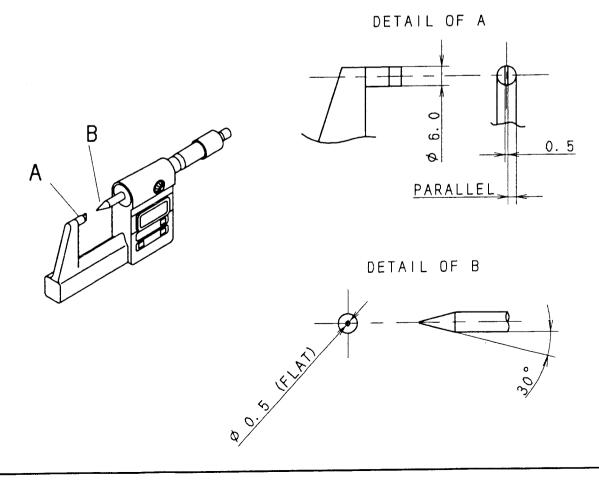
CRIMP WIDTH



4-4 MEASURING EQUIPMENT:

THE MEASURING EQUIPMENT IS A MICROMETER WHICH SATISFIES THE SPECIFICATIONS SHOWN BELOW:

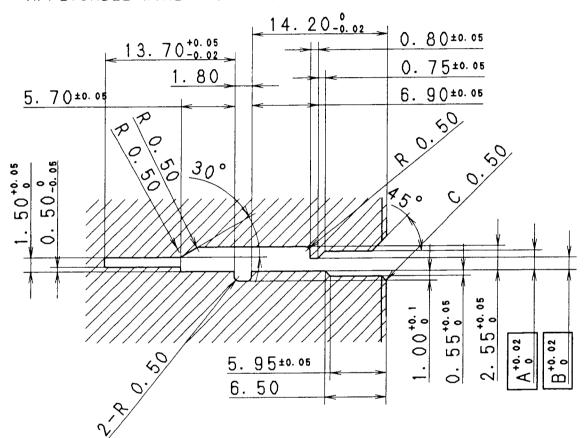
THIS MEASURING EQUIPMENT SHALL BE EQUIPPED WITH A STAND.

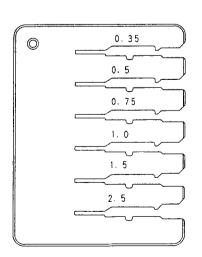


4-5 TERMINAL INSPECTION GAUGE (REFERENCE SPECIFICATIONS)

THE PURPOSE OF THIS GAUGE IS TO ASSURE THE CRIMPED TERMINAL IS WITHIN THE SPECIFIED BEND-UP/BEND-DOWN REQUIREMENTS/TOLERANCES.

<FOR 2.8 SYSTEM MALE>
 APPLICABLE WIRE: WSK-M1L124-A(FORD), STD7613, 111(VOLVO)

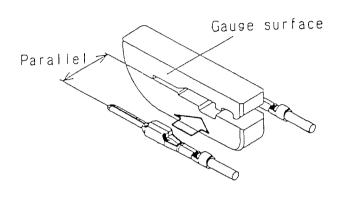




	CRIMP GAUGE VARIABLE		
WIRE SIZE	A	В	
0.35	2.06	1. 31	
0.5	2. 16	1.34	
0.75	2.36	1.50	
1. 0	2. 51	1. 54	
1.5	2.81	1.74	
2. 5	3. 30	1. 94	

METHOD FOR GAUGE USAGE

WHEN THE CRIMPED TERMINAL IS PARALLEL TO THE GAUGE SURFACE. IT MAY BE INSERTED THROUGH THE OPENING.



EVALUATION CRITERIA

ACCEPTABLE : CRIMPED TERMINATION CAN SMOOTHLY PASS THROUGH GAUGE.

UNACCEPTABLE: CRIMPED TERMINATION IS OBSTRUCTED WHEN GAUGE USAGE IS ATTEMPTED.

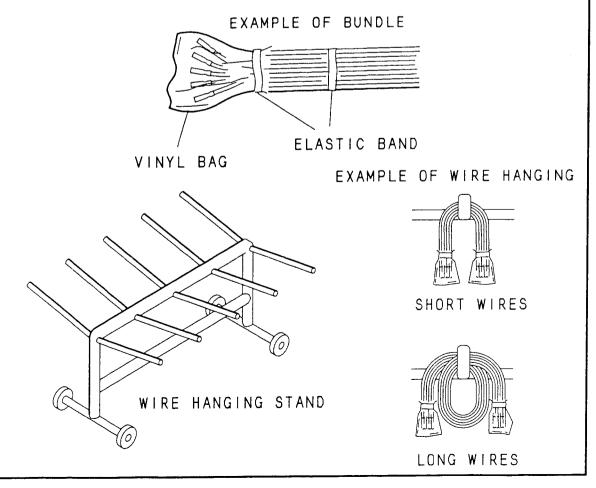
INSPECTION FREQUENCY

CONFORMANCE TO GAUGE INSPECTION IS RECOMMENDED AT THE BEGINNING AND END EACH PRODUCTION LOT.

5. HANDLING OF TERMINAL CRIMPED WIRES:

CARE MUST BE TAKEN ON THE FOLLOWING POINTS WHEN HANDLING TERMINAL CRIMPED WIRES.

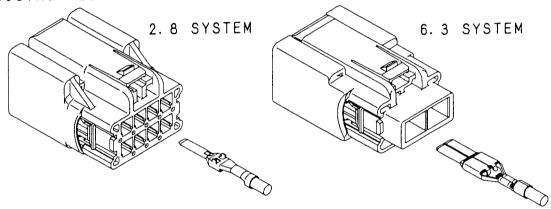
- 1. THE TERMINAL CRIMPED WIRES SHALL BE PREPARED READY FOR SUBSEQUENT USE AND NOT ONLY FOR THE PURPOSE OF STOCK BECAUSE THESE TERMINALS MAY BE DAMAGED (I.E.: BENT, DEFORMATION) EASILY DURING TRANSPORTATION AND STORAGE.
- 2. THE NUMBER OF TERMINAL CRIMPED WIRES PER BUNDLE SHALL BE BETWEEN 50 TO 100 WIRES. BUNDLE THEM WITH ELASTIC-BANDS IN ORDER TO KEEP THEM FROM BECOMING SEPARATED (SEE EXAMPLE BELOW).
- 3. AFTER CRIMPING, THE TERMINALS SHALL BE COVERED WITH A VINYL-BAG FOR PROTECTION (SEE EXAMPLE BELOW). THIS BAG MUST NOT BE REMOVED OR OPENED BEFORE ASSEMBLY.
- 4. A WIRE HANGING STAND OR A BOX WITH A LID SHALL BE USED FOR THE TRANSPORTATION OF THESE TERMINAL CRIMPED WIRES. THE WIRES MUST NOT BE STACKED.
- 5. DURING TRANSPORTATION, THE WIRES MUST NEVER BE THROWN TO THE GROUND OR INTO A BOX. THE BOX CONTAINING THESE WIRES MUST NEVER BE THROWN ABOUT.



6. TERMINAL AND FRONT LOADED SPACER SETTING INSTRUCTIONS AND PRECAUTIONS:

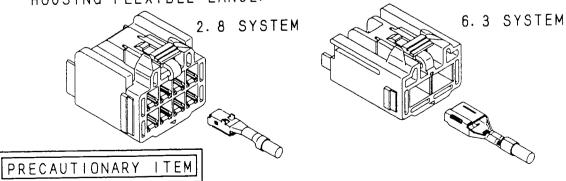
6-1 MALE TERMINAL INSERTION INTO HOUSING:

- 1. AFTER MAKING SURE THAT THE FRONT LOADED SPACER IS ON THE PRIMARY LOCKING POSITION AND THAT THE ORIENTATION OF THE TERMINALS ARE PROPER (REFER TO THE PICTURE BELOW), INSERT THE TERMINALS INTO THE MALE HOUSING.
- 2. INSERT THE TERMINAL UNTIL A CLICKING SOUND IS HEARD FROM THE TERMINAL LOCK-UP LOCKING ONTO THE HOUSING FLEXIBEL LANCE.
- 3. AFTER INSERTION, PULL THE WIRE LIGHTLY TO CHECK IF THE TERMINAL LOCK-UP HAS SECURELY LOCKED ONTO THE HOUSING FLEXIBLE LANCE.



6-2 FEMALE TERMINAL INSERTION INTO HOUSING:

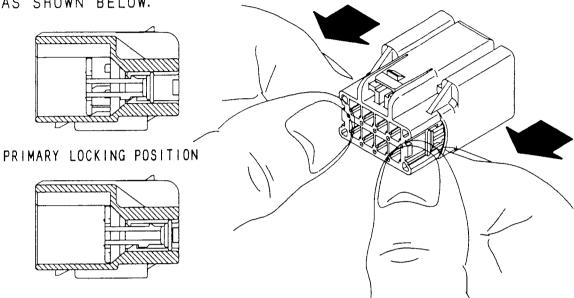
- 1. AFTER MAKING SURE THAT THE FRONT LOADED SPACER IS ON THE PRIMARY LOCKING POSITION AND THAT THE ORIENTATION OF THE TERMINALS ARE PROPER (REFER TO THE PICTURE BELOW), INSERT THE TERMINALS INTO THE FEMALE HOUSING.
- 2. INSERT THE TERMINAL UNTIL A CLICKING SOUND IS HEARD FROM THE TERMINAL LOCK-UP LOCKING ONTO THE HOUSING FLEXIBEL LANCE.
- 3. AFTER INSERTION, PULL THE WIRE LIGHTLY TO CHECK IF THE TERMINAL LOCK-UP HAS SECURELY LOCKED ONTO THE HOUSING FLEXIBLE LANCE.



WHEN THE FRONT LOADED SPACER IS FULLY INSERTED, THE TERMINAL MUST ONLY BE INSERTED INTO THE HOUSING AFTER FIRST RELEASING THE FRONT FOADED SPACER TO THE PRIMARY LOCKING POSITION (SEE FRONT HOLDER RELEASING ON SECTIONS 7-1 & 7-2).

6-3 FRONT LOADED SPACER SETTING FOR MALE CONNECTOR:

PULL THE OPERATION ARM OF THE FRONT LOADED SPACER IN THE DIRECTION OPPOSITE TO TERMINAL INSERTION AND MOVE THE FRONT LOADED SPACER TO THE FULLY INSERTED POSITION AS SHOWN BELOW.

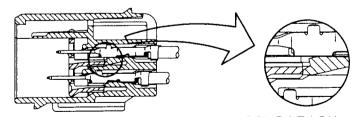


FULLY INSERTED POSITION

PRECAUTIONARY ITEMS

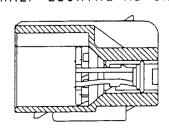
FRONT LOADED SPACER SETTING DIRECTION

- 1. WHEN THE LOCKING FORCE OF THE FRONT LOADED SPACER IS HIGH OR THE FRONT LOADEDE SPACER CANNOT BE EASILY LOCKED, CHECK THE TERMINAL INSERTION AS THE TERMINALS MAY BE INCOMPLETELY INSERTED OR INSERTED IN THE WRONG DIRECTION.
- 2. FORCEFULLY PUSHING THE FRONT LOADED SPACER WHEN TERMINALS ARE INCOMPLETELY INSERTED MAY CAUSE DAMAGE TO THE HOUSING AND/OR THE FRONT LOADED SPACER. THEREFORE, CHECK THE TERMINAL POSITIONS AGAIN BEFORE SETTING THE FRONT LOADED SPACER TO ITS FULLY INSRTED POSITION.



INCOMPLETE INSERTION CONDITION

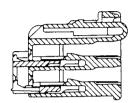
3. AFTER SETTING THE FRONT LOADED SPACER, CHECK ITS LOCKING CONDITION TO AVOID HALF LOCKING AS SHOWN BELOW.



INCORRECT CONDITION

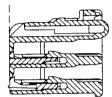
6-4 FRONT LOADED SPACER SETTING FOR FEMALE CONNECTOR:

PRESS DOWN THE OPERATION ARM OF THE FRONT LOADED SPACER FIRST THEN PUSH THE FRONT LOADED SPACER TO ITS FALLY INSERTED POSITION WHILE RELEASING THE OPERATION ARM AS SHOWN BELOW.

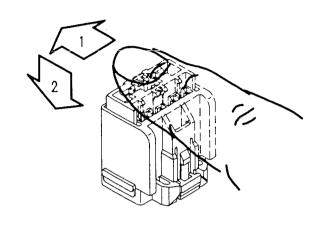


PRIMARY LOCKING POSITION

SAME PLANE



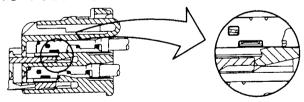
SECONDARY LOCKING POSITION



FRONT HOLDER SETTING ORDER

PRECAUTIONARY ITEMS

- 1. WHEN THE LOCKING FORCE OF THE FRONT LOADED SPACER IS HIGH OR THE FRONT LOADED SPAECR CANNOT BE EASILY LOCKED, CHECK THE TERMINAL INSERTION AS THE TERMINALS MAY BE INCOMPLETELY INSERTED OR INSERTED IN THE WRONG DIRECTION.
- 2. FORCEFULLY PUSHING THE FRONT LOADED SPACER WHEN TERMINALS ARE INCOMPLETELY INSERTED MAY CAUSE DAMAGE TO THE HOUSING AND/OR THE FRONT LOADED SPACER. THEREFORE, CHECK THE TERMINAL POSITIONS AGAIN BEFORE SETTING THE FRONT LOADED SPACER TO ITS FULLY INSERTED POSITION.



INCOMPLETE INSERTION CONDITION

- 3. AFTER SETTING THE FRONT LOADED SPCER, CHECK ITS LOCKING CONDITION TO AVOID HALF LOCKING AND ENSURE THAT THE FRONT LOADED SPACER IS SECURELY LOCKED BY CHECKING IF THE FRONT LOADED SPACER IS ON THE SAME PLANE AS THE FEMALE HOUSING MATING FACE AS SHOWN ABOVE.
- 4. DO NOT PUSH THE FRONT HOLDER WITHOUT RELEASING THE LOCKING BETWEEN THE HOUSING AND THE FRONT HOLDER VIA THE OPERATION ARM BECAUSE THE LOCKING SYSTEM CAN BE DAMAGED AND IMPAIR THE FRONT LOADED SPACER'S NORMAL OPERATING FUNCTION.

7. TERMINAL AND FRONT LOADED SPACER REMOVAL INSTRUCTIONS AND PRECAUTIONS:

WHEN IT IS NECESSARY TO REMOVE A TERMINAL, THE FOLLOWING PRECAUTIONS MUST BE TAKEN.

ALSO, THE TERMINALS MUST NOT BE ABLE TO BE RELEASED UNINTENTIONALLY.

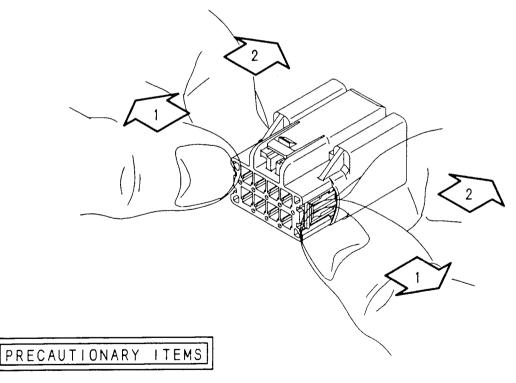
7-1 FRONT LOADED SPACER REMOVAL FOR MALE CONNECTOR:

THE PROPER METHOD OF MOVING THE FRONT LOADED SPACER TO ITS PRIMARY LOCKING POSITION IS AS FOLLOWS:

<NOTE>

THE METHOD OF FRONT LOADED SPACER RESETTING IS AS REFERRED TO IN SECTION 6-3.

- 1. RELEASE THE LOCK BY PULLING THE OPERATION ARMS OF THE SPACER OUTWARD.
- 2. WHILE HOLDING THE OPERATION ARMS OF THE SPACER, MOVE THE SPACER TO ITS PRIMARY LOCKING POSITION.



- 1. DO NOT PULL THE SPACER'S OPERATION ARMS OUTWARD EXCESSIVELY BECAUSE IT IS FEARED THAT THE OPERATION ARMS MIGHT BE DAMAGED.
- 2. MAKE SURE THAT THE FRONT HOLDER IS PROPERLY IN ITS PRIMARY LOCKING POSITION BEFORE ATTEMPTING TO REMOVE A TERMINAL.

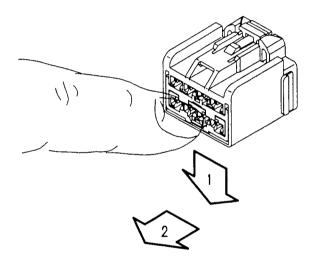
7-2 FRONT LOADED SPACER REMOVAL FOR FEMALE CONNECTOR:

THE PROPER METHOD OF MOVING THE SPACER TO ITS PRIMARY LOCKING POSITION IS AS FOLLOWS:

<NOTE>

THE METHOD OF FRONT LOADED SPACER RESETTING IS AS REFERRED TO IN SECTION 6-4.

- 1. RELEASE THE LOCK BY PRESSING DOWN THE OPERATION ARM OF THE SPACER.
- 2. PULL OUT THE SPACER TO ITS PRIMARY LOCKING POSITION WHILE RELEASING THE PRESSURE ON THE OPERATION ARM.



PRECAUTIONARY ITEM

LIGHTLY PRESS DOWN ON THE OPERATION ARM; TOO MUCH PRESSURE ON IT MIGHT CAUSE PERMANENT DEFORMATION.

7-3 TERMINAL REMOVAL:

THE TERMINAL REMOVAL OPERATION MUST NOT BE ATTEMPTED BY A NON-SPECIALIST WHO HAS NOT BEEN TRAINED FOR THIS OPERATION.

THE TOOL TO BE USED FOR THIS OPERATION IS SPECIFIED IN SECTION 7-3.

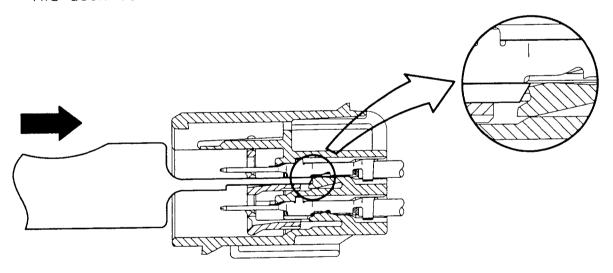
THIS OPERATION SHOULD ONLY BE CARRIED OUT USING THE PROPER REMOVAL TOOL, PRECISION SCREWDRIVERS MUST NOT BE USED.

THE PROPER METHOD OF REMOVING THE TERMINALS FROM THE HOUSING IS AS FOLLOWS:

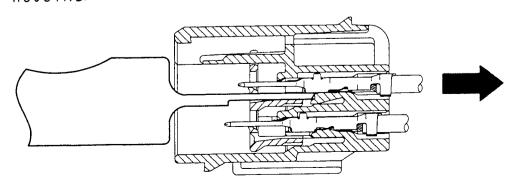
7-3-1 MALE TERMINAL FOR 2.8 SYSTEM:

1. PUSH THE WIRE LIGHTLY IN THE DIRECTION OF TERMINAL INSERTION THEN INSERT THE REMOVAL TOOL BETWEEN THE TERMINAL AND THE HOUSING LANCE ALONG THE GUIDE HOLE OF THE FRONT LOADED SPACER AFTER ASSURING THE ORIENTATION OF THE REMOVAL TOOL.

PUSH THE REMOVAL TOOL LIGHTLY TO RELEASE THE LOCK BETWEEN THE LOCK BEAK AND THE TERMINAL LOCK-UP.



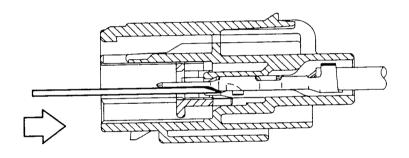
2. THEN PULL THE WIRE LIGHTLY TO REMOVE THE TERMINAL FROM THE HOUSING.



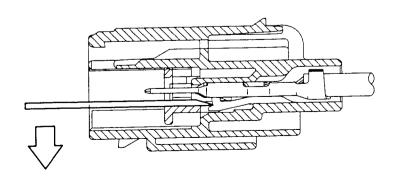
- 1. WHEN THE TERMINAL CANNOT BE RELEASED BY PULLING THE WIRE LIGHTLY, THE REMOVAL OPERATION DISCUSSED ON THE PREVIOUS PAGE MUST BE REPEATED.
- 2. CHECK THE TERMINAL AND/OR HOUSING FOR ANY DEFORMATION. IF ANY DEFORMATION IS FOUND, THEY MUST NOT BE REWORKED BUT REPLACED WITH NEW ONES.

7-3-2 MALE TERMINAL FOR 6.3 SYSTEM:

1. PUSH THE WIRE LIGHTLY IN THE DIRECTION OF TERMINAL INSERTION THEN INSERT THE REMOVAL TOOL BETWEEN THE TERMINAL AND THE HOUSING LANCE ALONG THE GUIDE HOLE OF THE FRONT LOADED SPACER AFTER ASSURING THE ORIENTATION OF THE REMOVAL TOOL.



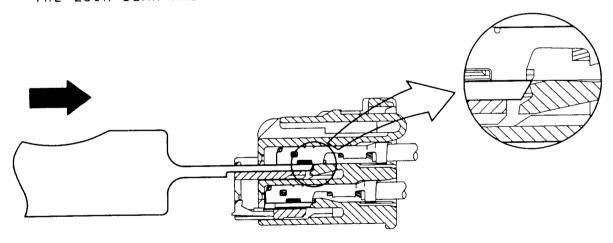
2. RELEASE THE LOCK BETWEEN THE LOCK BEAK AND THE TERMINAL LOCK-UP BY TURNING THE REMOVAL TOOL IN THE DIRECTION SHOWN IN THE DRAWING BELOW. THEN PULL THE WIRE LIGHTLY TO REMOVE THE TERMINAL FROM THE HOUSING.



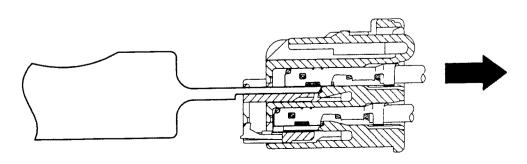
- 1. WHEN THE TERMINAL CANNOT BE RELEASED BY PULLING THE WIRE LIGHTLY, THE REMOVAL OPERATION DISCUSSED ON THE PREVIOUS PAGE MUST BE REPEATED.
- 2. CHECK THE TERMINAL AND/OR HOUSING FOR ANY DEFORMATION. IF ANY DEFORMATION IS FOUND, THEY MUST NOT BE REWORKED BUT REPLACED WITH NEW ONES.
- 3. WHEN REMOVING A TERMINAL, THE BLADE MUST NEVER BE DEFORMED BY THE REMOVAL TOOL. IF ANY TERMINAL IS DEFORMED, IT MUST NOT BE REWORKED BUT REPLACED WITH A NEW ONE.

7-3-3 FEMALE TERMINAL FOR 2.8 SYSTEM:

1. PUSH THE WIRE LIGHTLY IN THE DIRECTION OF TERMINAL INSERTION THEN INSERT THE REMOVAL TOOL BETWEEN THE TERMINAL AND THE HOUSING LANCE ALONG THE GUIDE HOLE OF THE FRONT LOADED SPACER AFTER ASSURING THE ORIENTATION OF THE REMOVAL TOOL. PUSH THE REMOVAL TOOL LIGHTLY TO RELEASE THE LOCK BETWEEN THE LOCK BEAK AND THE TERMINAL LOCK-UP.



2. THEN PULL THE WIRE LIGHTLY TO REMOVE THE TERMINAL FROM THE HOUSING.

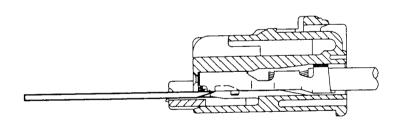


- 1. WHEN THE TERMINAL CANNOT BE RELEASED BY PULLING THE WIRE LIGHTLY, THE REMOVAL OPERATION DISCUSSED ON THE PREVIOUS PAGE MUST BE REPEATED.
- 2. CHECK THE TERMINAL AND/OR HOUSING FOR ANY DEFORMATION. IF ANY DEFORMATION IS FOUND, THEY MUST NOT BE REWORKED BUT REPLACED WITH NEW ONES.
- 3. WHEN REMOVING THE FEMALE TERMINAL, THE REMOVAL TOOL MUST NEVER BE INSERTED INTO THE CONTACT AREA WITH THE MALE TERMINAL.

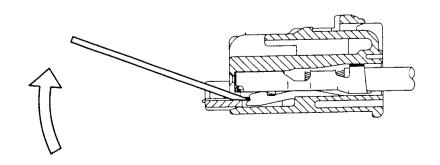
IF THE REMOVAL TOOL IS INSERTED INTO THE CONTACT AREA BY MISTAKE, THE TERMINAL MUST BE CHANGED WITH A NEW ONE REGARDLESS OF HOW FAR THE REMOVAL TOOL WAS INSERTED INTO THE CONTACT AREA.

7-3-4 FEMALE TERMINAL FOR 6.3 SYSTEM:

1. PUSH THE WIRE LIGHTLY IN THE DIRECTION OF TERMINAL INSERTION THEN INSERT THE REMOVAL TOOL BETWEEN THE TERMINAL AND THE HOUSING LANCE ALONG THE GUIDE HOLE OF THE FRONT LOADED SPACER AFTER ASSURING THE ORIENTATION OF THE REMOVAL TOOL.



2. RELEASE THE LOCK BETWEEN THE LOCK BEAK AND THE TERMINAL LOCK-UP BY TURNING THE REMOVAL TOOL IN THE DIRECTION SHOWN IN THE DRAWING BELOW. THEN PULL THE WIRE LIGHTLY TO REMOVE THE TERMINAL FROM THE HOUSING.

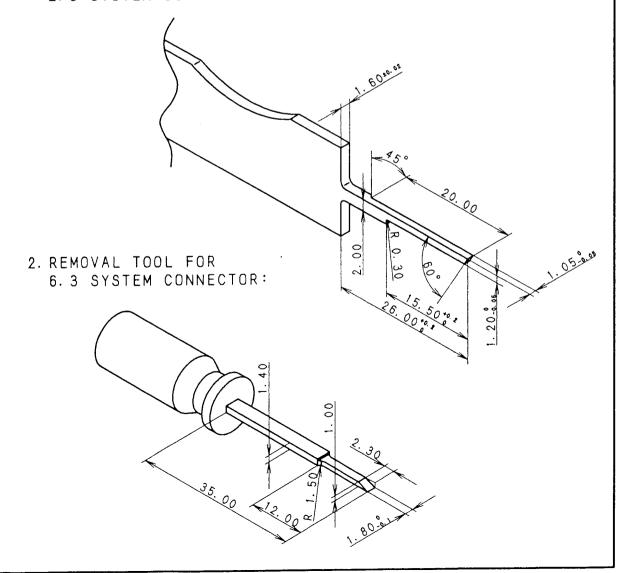


- 1. WHEN THE TERMINAL CANNOT BE RELEASED BY PULLING THE WIRE LIGHTLY, THE REMOVAL OPERATION DISCUSSED ON THE PREVIOUS PAGE MUST BE REPEATED.
- 2. CHECK THE TERMINAL AND/OR HOUSING FOR ANY DEFORMATION. IF ANY DEFORMATION IS FOUND, THEY MUST NOT BE REWORKED BUT REPLACED WITH NEW ONES.
- 3. WHEN REMOVING THE FEMALE TERMINAL, THE REMOVAL TOOL MUST NEVER BE INSERTED INTO THE CONTACT AREA WITH THE MALE TERMINAL.

IF THE REMOVAL TOOL IS INSERTED INTO THE CONTACT AREA BY MISTAKE. THE TERMINAL MUST BE CHANGED WITH A NEW ONE REGARDLESS OF HOW FAR THE REMOVAL TOOL WAS INSERTED INTO THE CONTACT AREA.

7-4 SHAPE OF REMOVAL TOOLS:

1. REMOVAL TOOL FOR 2.8 SYSTEM CONNECTOR:



8. MALE CONNECTOR TERMINAL ALIGNMENT INSPECTION

THE PURPOSE OF THIS GAUGE IS TO ASSURE THE MALE CONNECTOR TERMINAL ALIGNMENT.

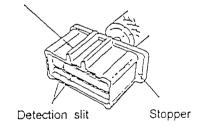
NO.	PART NO.	DRAWING OF GAUGE	REMARKS
1	7282-5621-40	PAGE 28 OF 34	
2	7282-5622-40		COMMON WITH GAUGES
3	7282-5623-60	PAGE 28 OF 34	
4	7282-5623-30	PAGE 20 OF 34	
5	7282-5624-90		
6	7282-5625-40	PAGE 29 OF 34	

NOTE) HANDLING OF GAUGE CONSIDERED,
GAUGE WEIGHT SHALL BE 1500 OR UNDER.

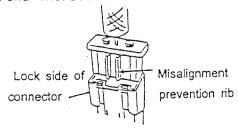
8-1 INSPECTION METHOD

1) CONFIRM THE COMBINATION OF GAUGES AND CONNECTORS.





- 2) BEFORE INSERTING THE GAUGE, INSPECT VISUALLY THAT NO ABNORMALITY EXISTS ON TERMINAL ALIGNMENT.
 - 1. WARP WIRES UP AND DOWN AND INSPECT TERMINAL ALIGNMENT.
 - 2. FOR THE TERMINAL ON WHICH ABNORMALITY IS DETECTED BY VISUAL INSPECTION. REPLACE IT BEFORE INSPECTION WITH GAUGE.



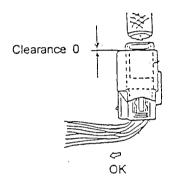
Gauge insertion direction

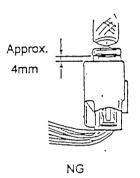
3) INSERT THE GAUGE INTO THE CONNECTOR HOOD.

CONFIRM THE PROPER POSITION OF THE GAUGE.
BEND THE WIRE TO THE LOCK SIDE FOR BEING TERMINAL TIPDOWN.
INSERT THE GAUGE ALONG THE INSIDE BOTTOM SURFACE OF THE HOOD.
CONFIRM THE GAUGE CAN BE FULLY INSERTED WITH THE FORCE
EQUIVALENT TO THE WEIGHT OF THE GAUGE ITSELF.

NOTE

IF THE TERMINAL ALIGNMENT IS NOT ACCETABLE. THE GAUGE INTERFERES WITH THE TERMINAL AND STOP AT THE POSITION REMAINING APPROX 4mm FROM THE END OF THE HOOD.
IN CASE OF THAT, DO NOT PUSH THE GAUGE.

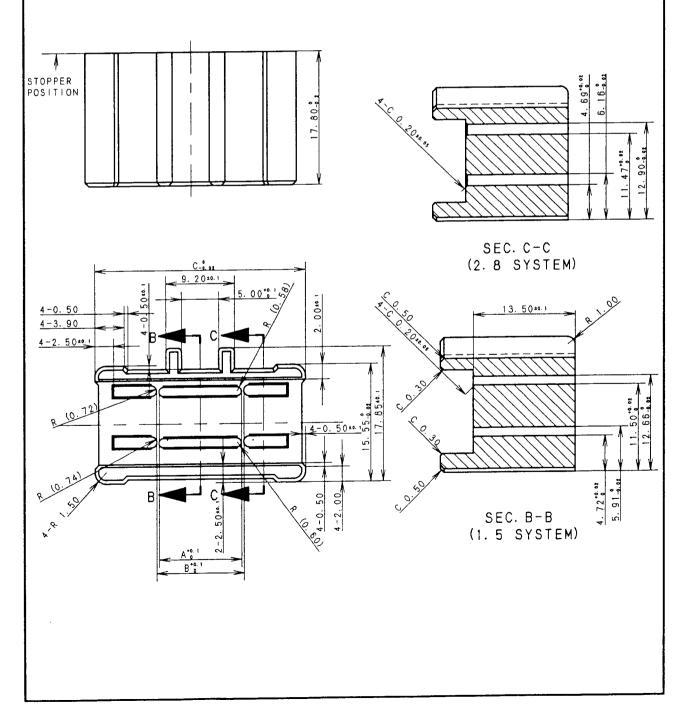


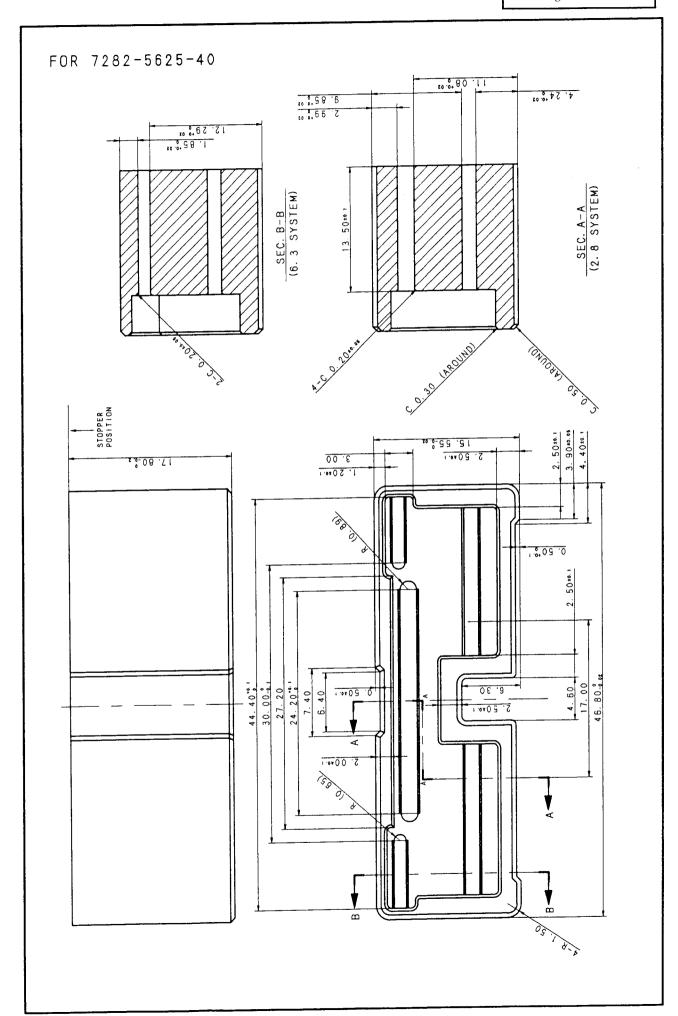


4) REMOVE THE GAUGE TO REINSPECT THE TERMINALS ALIGNMENT.

8-2 DRAWING OF GAUGE

NO.	PART NO.	Α	В	С
1	7282-5621-40	11.10	11.80	28.20
2	7282-5622-40			
3	7282-5623-60	10 10	18.80	35. 20
4	7282-5623-30	18.10	10.00	33.20
5	7282-5624-90			





9. PRECAUTIONS DURING WIRING HARNESS (W/H) INSTALLATION INTO THE VEHICLE:

9-1 INSTALLATION INTO THE VEHICLE:

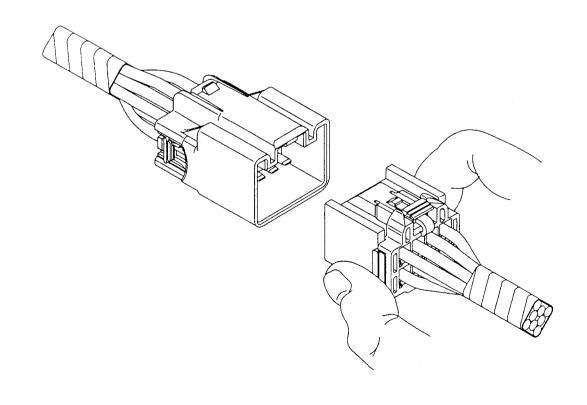
IF THE CONNECTORS ARE PASSED THROUGH A HOLE FOR INSTALLATION, THE CONNECTOR MUST NOT BE PULLED BY FORCE IN ORDER TO AVOID ANY DAMAGE.

9-2 CONNECTOR MATING:

MATE THE CONNECTORS WITHOUT WRENCHING AFTER THE MATING DIRECTION HAS BEEN CHECKED. (REFER TO THE FOLLOWING)

PRECAUTIONARY ITEM

THE KEY OF THE LOCKING ARM MUST NEVER BE PRESSED DOWN DURING CONNECTION.

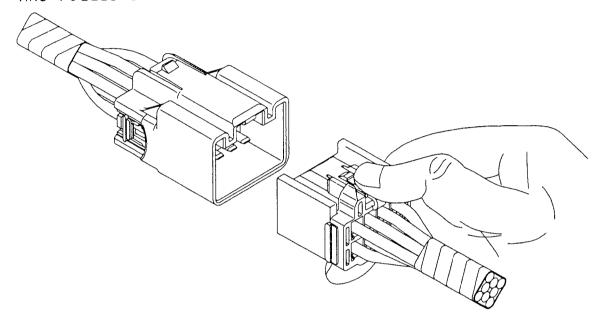


9-3 CONNECTOR REMOVAL:

REMOVE/SEPARATE THE CONNECTORS BY PRESSING DOWN THE KEY OF THE LOCKING ARM.

PRECAUTIONARY ITEM

DURING THE REMOVAL OPERATION, THE WIRES MUST NOT BE HELD AND PULLED BY FORCE.



10. PRECAUTIONS DURING COMPLETED VEHICLE INSPECTION:

10-1 CONNECTOR REMOVAL:

REFER TO SECTION 9-3.

10-2 CONNECTOR MATING:

REFER TO SECTION 9-2.

11. PRECAUTIONS DURING DEALER'S SERVICE:

11-1 CONNECTOR REMOVAL:

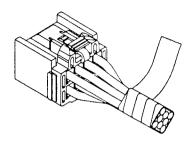
REFER TO SECTION 9-3.

11-2 CONNECTOR MATING:

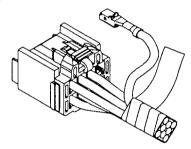
REFER TO SECTION 9-2.

11-3 CONNECTOR REPAIRING:

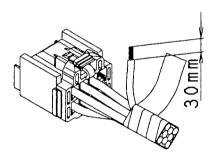
1. STRIP OFF THE TAPE OF THE W/H TO AN ADEQUATE LENGTH.



2. MOVE THE FRONT HOLDER TO ITS PRIMARY LOCKING POSITION THEN DRAW OUT THE TERMINAL TO BE REPAIRED. FOR THE FRONT LOADED SPACER AND TERMINAL REMOVAL METHOD, REFER TO SECTION 7.



3. CUT THE WIRE OF THE TERMINAL TO BE REPLACED. STRIP OFF ABOUT 30mm OF THE WIRE INSULATION.



4. CONNECT A LEAD WIRE WITH A TERMINAL TO THE STRIPPED WIRE AS SHOWN BELOW THEN SOLDER THE POINT OF CONNECTION.

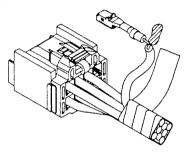
PRECAUTIONARY ITEM

A LEAD WIRE WITH A TERMINAL MUST BE USED TO REPLACE THE PART.

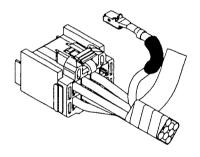
5. CUT THE ENDS OF BOTH WIRES THEN COVER THE POINT OF CONNECTION WITH A SEALING MATERIAL, ETC. AS SHOWN BELOW.

PRECAUTIONARY ITEM

THIS OPERATION MUST BE CARRIED OUT TO PROTECT THE WIRES FROM OXIDIZATION, ETC.



6. PUT A VINYL TUBE ON THE CONNECTION THEN TAPE IT OVER.

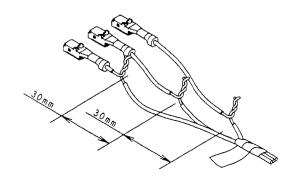


- 7. INSERT THE NEW TERMINAL INTO THE HOUSING THEN RESET THE FRONT HOLDER TO ITS SECONDARY LOCKING POSITION. FOR THE TERMINAL AND FRONT HOLDER RESETTING METHODS, REFER TO SECTION 6.
- 8. THE STRIPPED TAPE OF W/H IS WRAPPED AGAIN.

PRECAUTIONARY ITEM

AT THIS TIME, THE REPAIRED CONNECTION POINT MUST BE INCLUDED IN THIS TAPE WRAPPING.

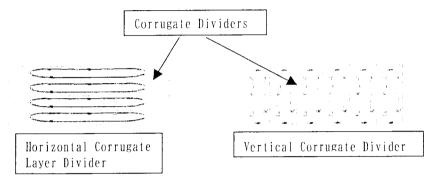
9. IF THERE ARE MORE THAN ONE RECONNECTION POINTS PER CONNECTOR, THE DISTANCE BETWEEN THESE CONNECTED POINTS MUST BE AT LEAST 30mm AS SHOWN BELOW.



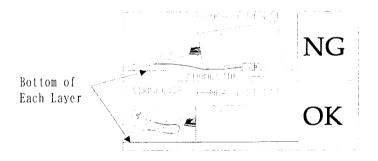
12. Notice for Packing of Wire Harness

As with many plastic parts the connector may be damaged if external force is applied to the connector during transportation or storage. To prevent damages, please take the following actions as well as the standard packaging and handling procedures:

When packing wire harness in layers, please use paper corrugate/corrugate dividers for each layer, including layer dividers, vertical dividers, internal supports, and partitions to equally distribute weights of upper-layer harnesses from being unequally applied to the lower-layer harnesses, as shown below.



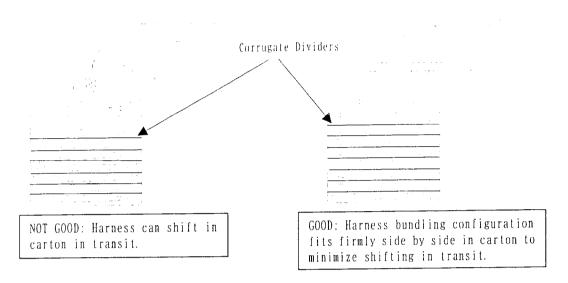
Junction block, relay box, protectors, brackets, and any heavy and/or bulky item must be placed on the bottom of the carton or the divider to prevent weight of such item from being applied to the connector as shown below.



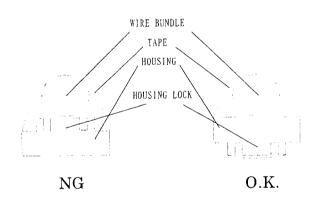
The connector must be positioned outside or in the center of the harness bundle, to prevent the weight of the harness from being applied to the connector

Sample harness sketch. Place connectors inside and outside of bundled W/H to protect connectors from weight of the W/H.

Wire harness bundle size must fit the carton to prevent shifting of wire harness during transportation or storage. See below illustration.



If the connector housing is 'taped back' on the wire harness bundle, assure that the housing lock or other flexible member of the connector is positioned away from the wire harness bundle. See reference illustration below.



Extra care must be taken to prevent wire harnesses tangling which causes damages to the connector when the wire harness is removed from the carton at the vehicle assembly.

After transportation or storage, the connector must be checked for damages.

YAZAKI SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM MISUSE OR FAILURE TO FOLLOW THE ABOVE INSTRUCTIONS