

# Harness Repair Kit

(Part # J-47606)



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## PRECAUTIONS

- (1) Wear protective clothing, including a cap, protective goggles, and protective shoes during operation.
- (2) Remove contamination (including dirt and corrosion) before terminal pin removal, installation, or disassembly.
- (3) Keep the parts disassembled in order and protect them from dust or dirt.
- (4) Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.
- (5) Use caution when working on a vehicle that has been running since some vehicle components will be very hot to the touch.
- (6) Be sure to tighten fasteners such as bolts and nuts to the specified torque described on the service manual if applicable.
- (7) Before disconnecting electrical connectors of sensors, be sure to disconnect the ground cable from battery.
- (8) All removed parts, if to be reused, should be reinstalled in the original positions and directions.
- (9) Bolts, nuts, and washers should be replaced with new ones as required.
- (10) Be sure to protect the vehicle from dirt and damage.
- (11) Do not apply rotational torque to pin removal tools. Such torque will damage or break the tool itself.

## COMPONENT LIST

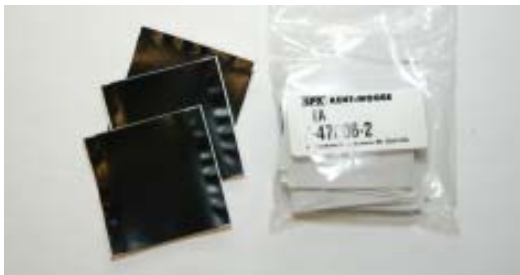
Joint piece (Small size): RK-JFA-001



Joint piece (Large size): RK-JFA-002



Insulation adhesive: RK-BFA-003



Repair terminal: RK-TFA-015 (Gilded Terminal)



Repair terminal: RK-TFA-019



Repair terminal: RK-TFA-020



Repair terminal: RK-TFA-021



Repair terminal: RK-TFA-022



Repair terminal: RK-TFA-023



Repair terminal: RK-TFA-024 (Gilded terminal)



Repair terminal: RK-TFA-025



Repair terminal: RK-TFA-026



Repair terminal: RK-TFA-028



Repair terminal: RK-TFA-043



### Terminal lock release tools:

Removal Tool No. 5 (J-47606-5)



Removal Tool No. 6 (J-47606-6)



Removal Tool No. 7 (J-47606-7)



Removal Tool No. 8 (15315247)



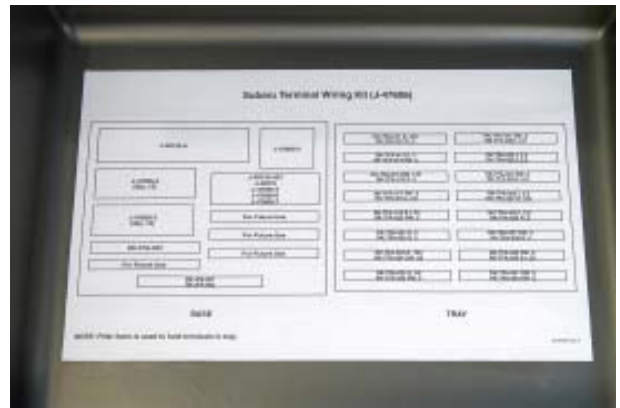
Removal Tool No. 9 (J-42019)



Terminal crimpers



Kit locator guide



Heat shrink tubing (J-47606-3)



Upper tray



Heat shrink tubing (J-47606-4)



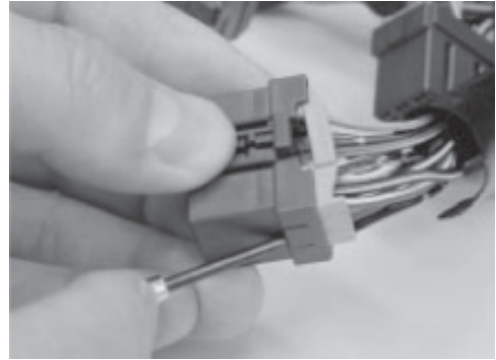
Upper and lower trays



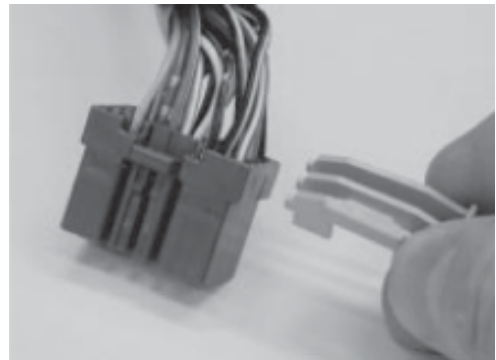
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## REPAIR EXAMPLE

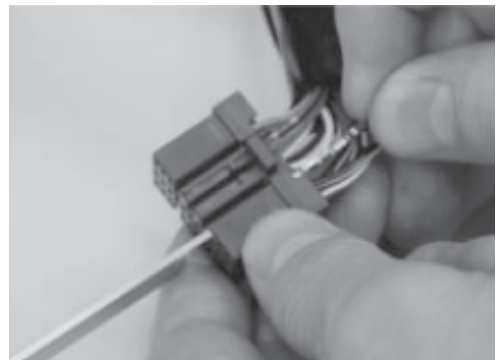
1. Using a thin screw driver, push up the double locking piece on the connector.



2. Remove the locking piece from the connector.



3. Insert the terminal pick release tool into the terminal hole and pull the terminal out.



4. Cut the defective terminal from the harness.





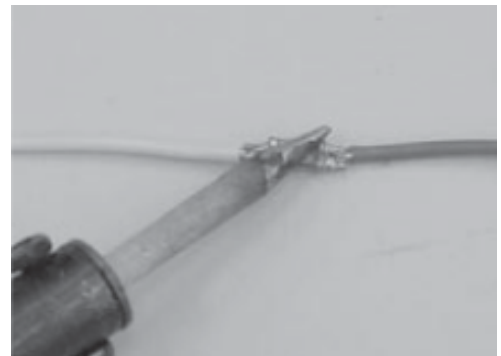
5. Using a pair of wire strippers, remove 10mm of insulation from the original harness.



6. Crimp the original harness and the repair harness with a joint piece (RK-JFA-001 or RK-JFA-002) using the terminal crimpers.



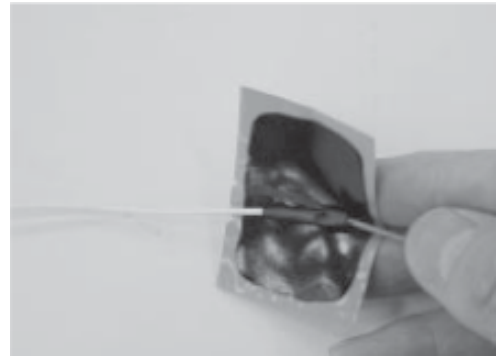
7. Solder is applied to complete the joint.



8. Wrap insulation tape around the joint of the two harnesses.



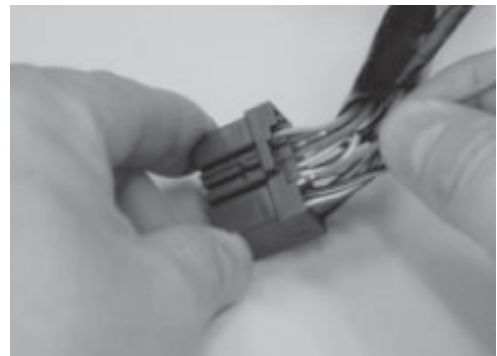
9. If the joint is installed in a location of moisture, humidity, and/or dust, apply a piece of waterproof adhesive around the joint (RK-BFA-003).



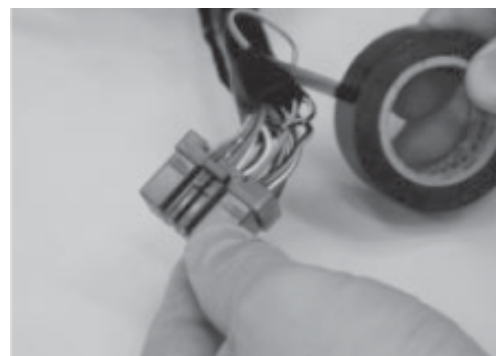
10. Wrap insulation tape over the adhesive.



11. Insert the terminal into the terminal hole of the connector until it stops completely.



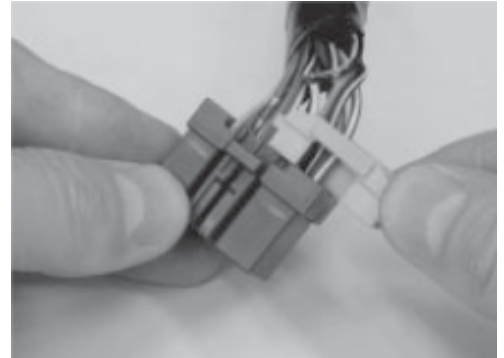
12. Fasten the repair harness on the original harness with insulation tape.



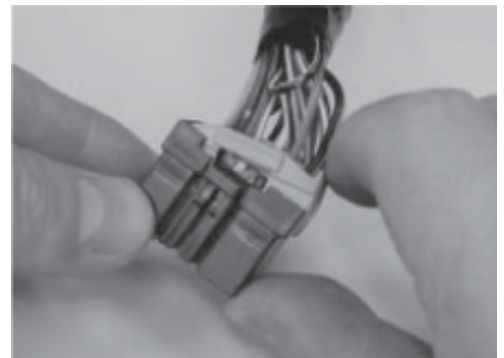
13. Confirm that harness is not kinked or wound excessively.



14. Reinstall the double locking piece to the connector.



15. Push down the side of the locking piece until it locks completely.

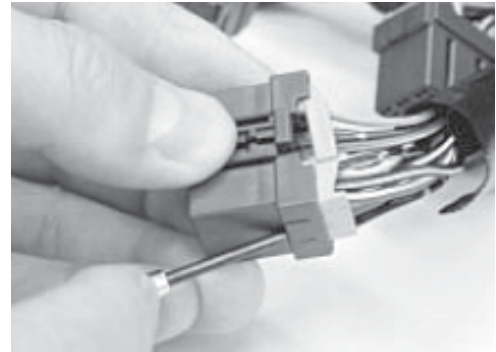


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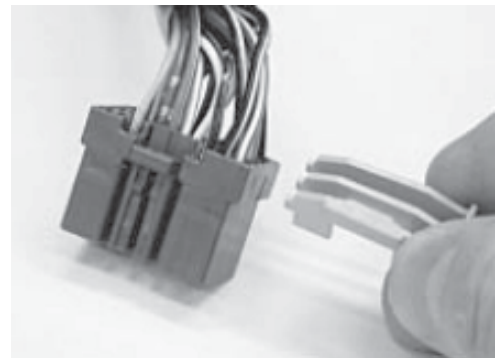
## TERMINAL LOCK RELEASE MANUAL

### Manual No. RM-5

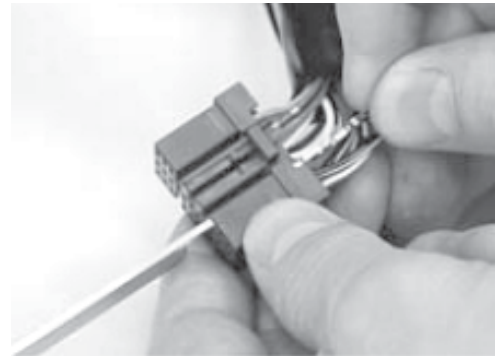
1) Release the lock on the connector.



2) Remove the locking piece from the connector.



3) Using the appropriate terminal pick release tool, remove the defective terminal.

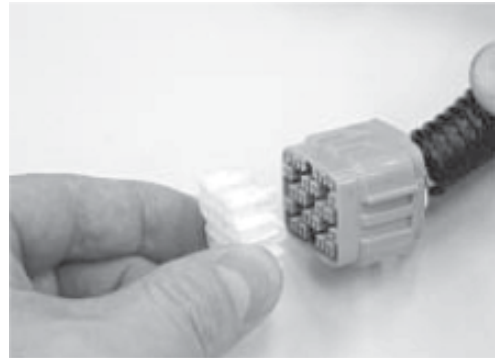


**Manual No. RM-9**

1) Release the lock on the connector.



2) Remove the locking piece from the connector.



## TERMINAL ADAPTATION TABLE

SPX Tool No.	Part No.	Parts Name
GM 12085271-C	RK-JFA-001	Joint piece - S
GM 12085271-B	RK-JFA-002	Joint piece - M
	RK-BFA-003	Insulation adhesive

SPX Tool No.	Removal Tool	Part No.	Wire	Wire Color
DELPHI 15315247	No8	RK-TFA-011	1.25	B
DELPHI 15315247	No8	RK-TFA-012	0.5	R
J47606-6	No6	RK-TFA-013	0.5	R
J47606-6	No6	RK-TFA-014	0.5	R/W
J-42019	No9	RK-TFA-015	1.25	B/W
DELPHI 15315247	No8	RK-TFA-016	0.5	R
DELPHI 15315247	No8	RK-TFA-017	0.5	R/W
DELPHI 15315247	No8	RK-TFA-018	2	L
DELPHI 15315247	No8	RK-TFA-019	1.25	B
DELPHI 15315247	No8	RK-TFA-020	0.5	R/W
DELPHI 15315247	No8	RK-TFA-021	0.5	R
J47606-6	No6	RK-TFA-022	0.5	R
J47606-5	No5	RK-TFA-023	1.25	B
J47606-5	No5	RK-TFA-024	0.85	G/W
J47606-5	No5	RK-TFA-025	0.85	G
DELPHI 15315247	No8	RK-TFA-026	0.5	R/W
DELPHI 15315247	No8	RK-TFA-027	0.5	R/W
DELPHI 15315247	No8	RK-TFA-028	2	L
DELPHI 15315247	No8	RK-TFA-029	2	L
J47606-7	No7	RK-TFA-030	2	L
DELPHI 15315247	No8	RK-TFA-031	0.5	R/W
DELPHI 15315247	No8	RK-TFA-032	2	L
DELPHI 15315247	No8	RK-TFA-033	2	L
J47606-7	No7	RK-TFA-034	1.25	B
DELPHI 15315247	No8	RK-TFA-035	2	L
DELPHI 15315247	No8	RK-TFA-036	0.5	R
DELPHI 15315247	No8	RK-TFA-037	0.5	R/W
DELPHI 15315247	No8	RK-TFA-038	0.5	R
DELPHI 15315247	No8	RK-TFA-039	0.5	R/W
DELPHI 15315247	No8	RK-TFA-040	1.25	B
DELPHI 15315247	No8	RK-TFA-041	0.5	R/W
J47606-7	No7	RK-TFA-042	0.5	R/W
DELPHI 15315247	No8	RK-TFA-043	1.25	B

# EXAMPLE

## Harness Repair Kit

WIRING SYSTEM

Connector No.	Adaptive repair kit	Terminal No.	Harness repair kit No.
B280 (2.5 L Non-turbo and 2.5 L Non-turbo (U5) model)	<p style="text-align: center;">WI-07639</p>	1, 8, 21, 22	TFA-023
		3 — 7, 10 — 12, 14, 16, 19, 20, 25 — 27, 30	TFA-025
		2, 9, 13, 15, 17, 18, 23, 24, 28, 29	Not available
B280 (3.0 L model)	<p style="text-align: center;">WI-07640</p>	1, 8, 21, 22	TFA-023
3 — 7, 11, 12, 14, 16, 18 — 20, 25 — 28, 30		TFA-025	
2, 9, 10, 13, 15, 17, 23, 24, 29		Not available	
B280 (2.5 L Turbo model)			
B281 (2.5 L Non-turbo and 2.5 L Non-turbo (U5) model)	<p style="text-align: center;">WI-07641</p>	1, 2, 8, 9	TFA-023
		3 — 7, 10, 11, 13, 15 — 19, 23, 25 — 28	TFA-025
		12, 14, 20 — 22, 24	Not available
B281 (3.0 L model)	<p style="text-align: center;">WI-07642</p>	1, 2, 8, 9, 20, 21	TFA-023
3 — 7, 10, 11, 13, 15 — 19, 23, 25 — 28		TFA-025	
12, 14, 22, 24		Not available	
B281 (2.5 L Turbo model)			