







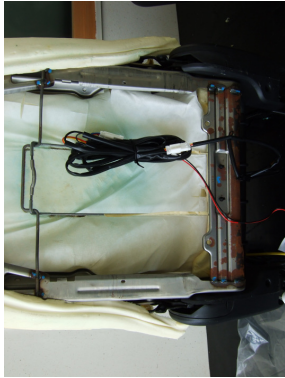
KIYO AWHL Workshop Manual Seat Heating System

1. Complete System Components: AWHL (Hi/Low type)			
Complete System Picture (AWHL)		s.no	Part Name
		1	Heating Element for Seat_Cushion
		2	Heating Element for Seat_Back
		3	Switch kit
		4	Wiring Harness
AWHL Switch (Hi/Low)		<ul style="list-style-type: none">• Siso Type, 2 color LED Switch• Hi / Off / Low Control Switch• Low : Green color LED• Hi : Red color LED• Application Hole Cutter : Diameter 20mm 	


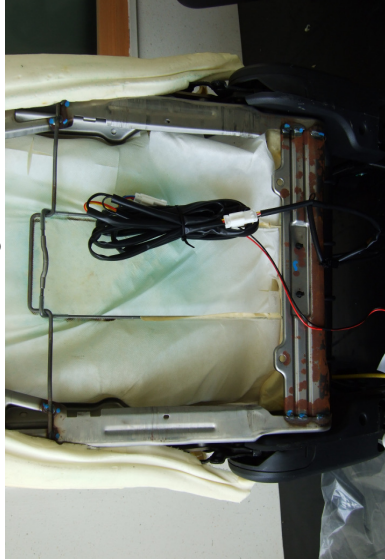
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2. Heating Mat Application	Application Manual	Reference Picture
	<ul style="list-style-type: none"> ● Tools : Nipper, Knife, Air Tools, Long Nose Tool, Scissor, Hog Ring Tool, Hole Cutter (Dia.23mm) ● Detach the seats assembly from vehicles. ● Detach the seat covering. ● Detach the Cushion Pad(Foam) and Back Pad(Foam) from the seats. ● Attention airbag sensors (If applicable the seats) not to occur electric breaking wires. ● Peel off the both side tape of the heating mats. ● Attach the peel_off_heating mats on the Cushion Pad and Back Pad. ● <u>Heating mat for cushion is consists on all black wires.</u> 	<p><u>Peel off the both side tape of the heating mats</u></p>  <p><u>Attach the heating mats on the Cushion Pad and Back Pad</u></p> 

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3. Heating Mat Wiring	Application Manual	Reference Picture
<ul style="list-style-type: none">● All wiring harness can be fitted on right terminal and housing as prepared package.● <u>Heating mat for cushion is consists on all black wires.</u> And then sensors and thermostat can be installed on seat back position to right control the designed temperature.● All wiring harness is not to contact with other components and sharp edges.● All wiring harness is to be fixed and arranged using ties and/or bands not to occur vibration and noise issues running the vehicles.● After finish the heating mat attach work and wiring works, assembly the pads and seat covering..	<p><u>Heating Mat Wiring Complete Components</u></p>  <p><u>Heating Mat Cushion : All Black wire</u></p>  <p><u>Seat Heating Mat Wiring View</u></p> 	



KIYO AWHL Workshop Manual Seat Heating System

4. Main Wiring and Switch Application	Application Manual	Reference Picture
<ul style="list-style-type: none">● Review the switch application position and discuss with customers for the switch application position.● Detach the components of switch application (ex: Center Console or Seat Side Cover or Gear Box Cover or Instrument Panel or some place for application)● The main power take off from cigar jack electric lines.● Red wire is the plus wire and black wire is the earth wire.● In case of Hi/Off/Low type heaters (Model : AWHL), there are three wires including illuminated switch function.(Red, Black and White wire)● The white wire is to be connected illuminated(tail) lamp wire on the vehicle wiring.● All wiring to be connected and rigid fixed to avoid vibration and noise problem on running vehicles.● Marking the position center of the switch application and drilling the hole (diameter 20mm) using hole cutter.● The Switch is inserted from outside to inside and press the switch kit to fix.● Connect the switch wiring to the main wires.(Just connect the terminal and housing as prepared package)● Main wiring route must be located under the seat and floor covering.● Please attention all wiring must avoid sharp edged area, seat bolting area and somewhere to can occur electric problem.● After finish the wiring works, application the panel (or cover) of switch attached on the right position.● Check and Inspection for all functions and switch operation and assemble complete seat.	<p><u>Main Wiring Power Take Off from Cigar Jack Electric Line</u></p> <p>Red wires : Plus wiring, Black wires : Minus wiring White wires : Tail (illuminated) light wiring</p>  <p style="text-align: center;"><u>Seat Heater Wiring Rear View</u></p> 	

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5. Finished reference pictures	
Complete Seat	Complete Switch Application
	<div></div> <p>Switch Application Position is different based on vehicles. So the application engineer must review the position before application works and need to discuss with customer for the switch positions.</p> <p><u>Possible Switch Application Position :</u></p> <p>For the front seats (Driver and Passenger seats) :</p> <p>Center Console, Gear Box Cover, Seat Side Cover, Instrument Panel, etc</p> <p>For the rear seats :</p> <p>Center Console, Gear Box Cover, Seat Side Cover, Pillar Covers, etc</p>

KIYO AWHL User’s Manual for Seat Heating System

1. Switch Operating	Description	Picture
		<div data-bbox="391 132 828 1971"> <p data-bbox="391 132 430 1971">< Hi Mode Operating : Red LED ></p>  </div> <div data-bbox="828 132 1338 1971"> <p data-bbox="828 132 868 1971">SUV : Carnival (Kia)_Rear Seats</p> <p data-bbox="868 132 909 1971">< Low Mode Operating : Green LED ></p>  </div>
<ul style="list-style-type: none"> • AWHL system is 3_mode operating system. 	<p>Upper position : Hi Mode : Red color : Control temperature 45 degree</p> <p>Center position : Off Mode : No color</p> <p>Lower position : Low Mode : Green color : Control temperature 35 degree</p>	
<ul style="list-style-type: none"> • Users can choice the heating temperature Hi Mode or Low Mode. 		
<ul style="list-style-type: none"> • Control temperature means just system control temperature not seat surface temperature. 		
<ul style="list-style-type: none"> • Seat surface temperature not exactly same as control temperature because the seat surface temperature depend on seat covering materials, passengers' cloth and various factors. 		
<ul style="list-style-type: none"> • Usually users can choice Hi Mode first of cooled vehicle condition and change to Low Mode after warming the seats. 		