

TSN00874 (NCT08932842) - TERMINAL TEST KIT



Purpose

Kit is used to probe and check terminal pin tension of 12V connections for all vehicle platforms.

Related Tools

TSN00543 (NCT04754727) - TERMINAL DEPINNING TOOL KIT



TSN00557 (NCT04754726) - WIRE HARNESS REPAIR KIT



Additional Resources

Wiring Design Portal User Manual:

[☰ Wiring Design Portal User Manual](#) ARCHIVED

JiT - Ep. 27 - Wiring Design Portal Introduction:

<https://web.microsoftstream.com/video/b818aa2a-691d-486d-bae7-30cf14e5d59f?channelId=c3536d0c-9d57-4182-b523-87e0b0f41a92>

CAUTION!

Failure to select the correct mating terminal size from the test kit can cause permanent damage to the mating terminal. Always double check pin dimensions for your circuit before performing any tests.

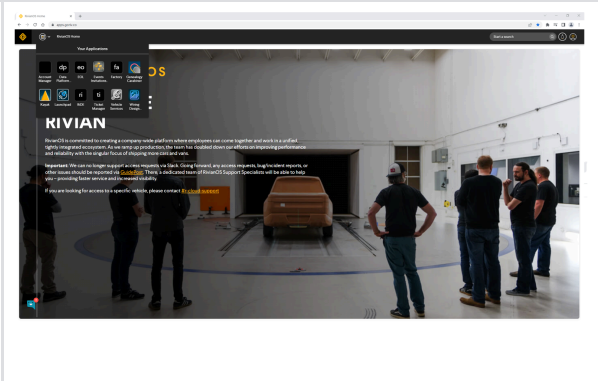
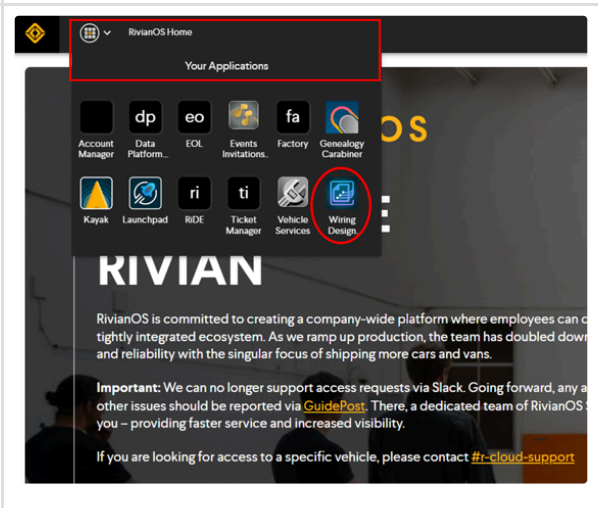
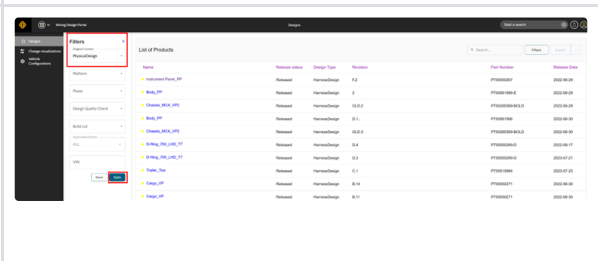
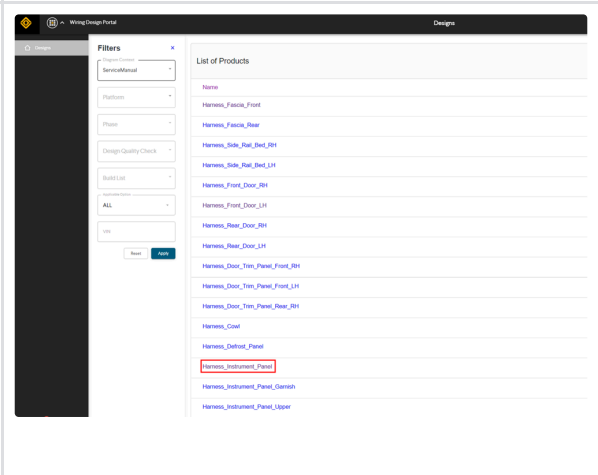
Kit Contents

RIVIAN P/N	QTY	TERMINAL MFG.	TERMINAL MFG. P/N	WIRE GAUGE (AWG)	WIRE COLOR	DESCRIPTION
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TSN00874 -200-A	5	APTIV	35091062	20	YELLOW	1.20mm WIDE, 0.60mm THICK, MALE
TSN00874 -201-A	5	APTIV	35072403	20	YELLOW	1.20mm WIDE, 0.60mm THICK, FEMALE
TSN00874 -202-A	3	TE	6-928918-1	22	DARK GREEN	0.64mm WIDE, 0.64mm THICK, MALE
TSN00874 -203-A	3	TE	5-928999-1	22	DARK GREEN	0.64mm WIDE, 0.64mm THICK, FEMALE
TSN00874 -204-A	3	TE	2109005-3	16	DARK BLUE	1.50mm WIDE, 0.64mm THICK, MALE
TSN00874 -205-A	3	TE	2109006-3	16	DARK BLUE	1.50mm WIDE, 0.64mm THICK, FEMALE
TSN00874 -206-A	5	MOLEX	330001003	22	PURPLE	1.50mm WIDE, 0.80mm THICK, MALE
TSN00874 -207-A	5	MOLEX	330122003	22	PURPLE	1.50mm WIDE, 0.80mm THICK, FEMALE
TSN00874 -208-A	3	SUMITOMO	8100-3804	16	BROWN	2.30mm WIDE, 0.64mm THICK, MALE
TSN00874 -209-A	3	SUMITOMO	8240-0264	16	BROWN	2.30mm WIDE, 0.64mm THICK, FEMALE
TSN00874 -210-A	3	YAZAKI	7114-4152-02	16	ORANGE	2.80mm WIDE, 0.80mm THICK, MALE
TSN00874 -211-A	3	YAZAKI	7116-4152-02	16	ORANGE	2.80mm WIDE, 0.80mm THICK, FEMALE
TSN00874 -212-A	3	TE	1-2236905-1	24	GRAY	0.50mm WIDE, 0.4mm THICK, MALE
TSN00874 -213-A	3	TE	2-1703930-4	24	GRAY	0.50mm WIDE, 0.4mm THICK, FEMALE
TSN00874 -214-A	1	MUELLER ELECTRIC	BU-32101-0 or Equiv.	-	-	ADAPTER -INSULATED BANANA JACK TO STANDARD BANANA PLUG - BLACK
TSN00874 -215-A	1	MUELLER ELECTRIC	BU-32101-2 or Equiv.	-	-	ADAPTER -INSULATED BANANA JACK TO STANDARD BANANA PLUG - RED

Procedure:

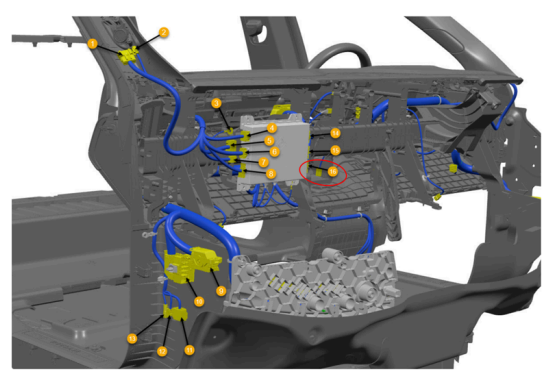
Step	Description	Image
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<p>1</p>	<p>Login to Rivian OS</p> <p>https://apps.goriv.co/</p>																																																							
<p>2</p>	<p>From the applications menu, select “Wiring Design”</p>																																																							
<p>3</p>	<p>From the “Filters” window, use the “Diagram Context” menu to select “Physical Design” and click “Apply”</p>	 <table border="1"> <thead> <tr> <th>Name</th> <th>Region</th> <th>Design Type</th> <th>Revision</th> <th>Part Number</th> <th>Release Date</th> </tr> </thead> <tbody> <tr> <td>Instrument Panel IP</td> <td>Region</td> <td>Hardware</td> <td>1.0</td> <td>PHYS000001</td> <td>2022-09-21</td> </tr> <tr> <td>Body IP</td> <td>Region</td> <td>Hardware</td> <td>1.0</td> <td>PHYS000002</td> <td>2022-09-21</td> </tr> <tr> <td>Instrument Panel IP</td> <td>Region</td> <td>Hardware</td> <td>1.0</td> <td>PHYS000003</td> <td>2022-09-21</td> </tr> <tr> <td>Body IP</td> <td>Region</td> <td>Hardware</td> <td>1.0</td> <td>PHYS000004</td> <td>2022-09-21</td> </tr> <tr> <td>Instrument Panel IP</td> <td>Region</td> <td>Hardware</td> <td>1.0</td> <td>PHYS000005</td> <td>2022-09-21</td> </tr> <tr> <td>Body IP</td> <td>Region</td> <td>Hardware</td> <td>1.0</td> <td>PHYS000006</td> <td>2022-09-21</td> </tr> <tr> <td>Instrument Panel IP</td> <td>Region</td> <td>Hardware</td> <td>1.0</td> <td>PHYS000007</td> <td>2022-09-21</td> </tr> <tr> <td>Body IP</td> <td>Region</td> <td>Hardware</td> <td>1.0</td> <td>PHYS000008</td> <td>2022-09-21</td> </tr> </tbody> </table>	Name	Region	Design Type	Revision	Part Number	Release Date	Instrument Panel IP	Region	Hardware	1.0	PHYS000001	2022-09-21	Body IP	Region	Hardware	1.0	PHYS000002	2022-09-21	Instrument Panel IP	Region	Hardware	1.0	PHYS000003	2022-09-21	Body IP	Region	Hardware	1.0	PHYS000004	2022-09-21	Instrument Panel IP	Region	Hardware	1.0	PHYS000005	2022-09-21	Body IP	Region	Hardware	1.0	PHYS000006	2022-09-21	Instrument Panel IP	Region	Hardware	1.0	PHYS000007	2022-09-21	Body IP	Region	Hardware	1.0	PHYS000008	2022-09-21
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<p>4</p>	<p>Search for the vehicle sub harness that your connector is part of and click the link.</p> <p>Example: Instrument Panel Harness</p>																																																							

5

Use the diagram and corresponding table to identify the connector ID.

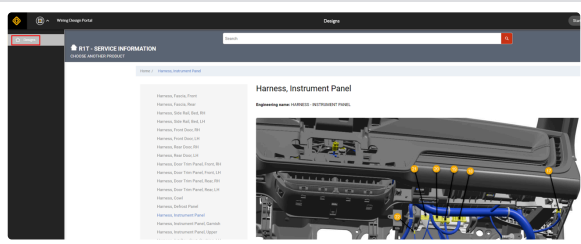
Example:
 Callout: 16
 Connector ID: E100_J12A



Callout	Connector
1	V254
2	V320C
3	E001_GND
4	E100_J1
5	E001_J10
6	E100_J6
7	E001_J20
8	E100_J11
9	X464
10	Y462
11	X410
12	X413E
13	X414C
14	E100_J3
15	E100_J12B
16	E100_J12A

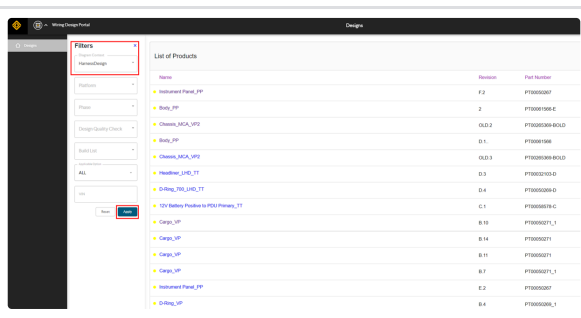
6

Use the “Designs” button in the top left corner to go to the Wiring Design Portal home page.



7

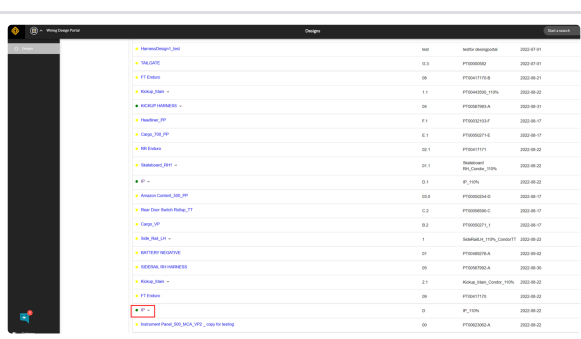
From the “Filters” window, change the “Diagram Context” to “Harness Design” and click “Apply”

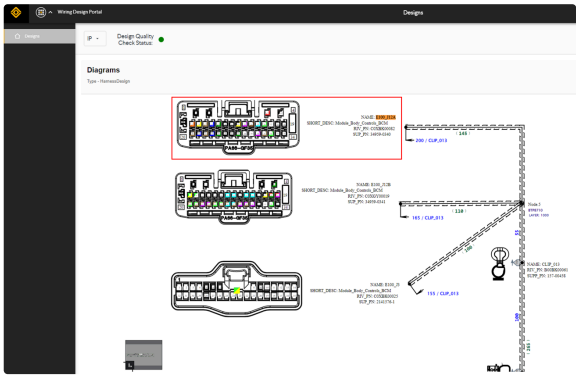
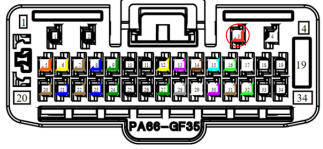
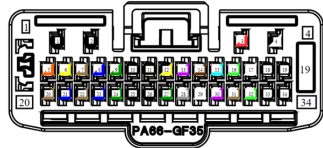
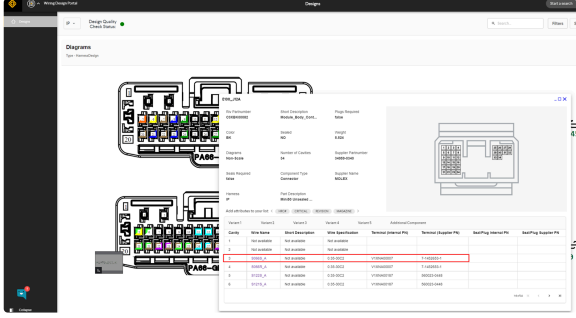
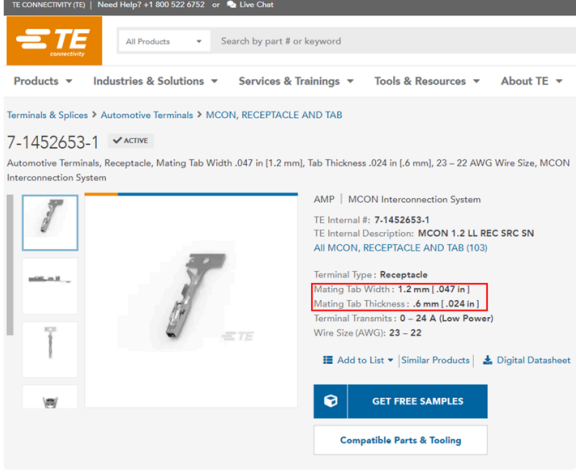


8

Search for the vehicle sub harness that your connector is part of and click the link.

Example: Instrument Panel Harness



<p>9</p> <p>Search the schematic for your connector ID using ctrl+F</p> <p>Example: E100_J12A</p>	
<p>10</p> <p>Use the connector diagram to identify the cavity number of the circuit you are diagnosing.</p> <p>Example: Position # 3</p>	 <p>NAME: E100_J12A SHORT_DESC: Module_Body_Controls_BCM RIV_PN: COXBR00082 SUP_PN: 34959-0340</p>
<p>11</p> <p>Double click on the "Name" to bring up connector details.</p>	 <p>NAME: E100_J12A SHORT_DESC: Module_Body_Controls_BCM RIV_PN: COXBR00082 SUP_PN: 34959-0340</p>
<p>12</p> <p>Use the tables to find the manufacturer and part number for the terminal you want to test.</p> <p>Example:</p> <p>Manufacturer: TE</p> <p>Manufacturer Part Number: 7-1452653-1</p>	
<p>13</p> <p>Use the manufacturers website to identify the terminal size through tables or drawings.</p>	 <p>TE CONNECTIVITY (TE) Need Help? +1 800 522 6752 or Live Chat</p> <p>All Products Search by part # or keyword</p> <p>Products Industries & Solutions Services & Trainings Tools & Resources About TE</p> <p>Terminals & Splices > Automotive Terminals > MCON, RECEPTACLE AND TAB</p> <p>7-1452653-1 ACTIVE</p> <p>Automotive Terminals, Receptacle, Mating Tab Width .047 in [1.2 mm], Tab Thickness .024 in [.6 mm], 23 – 22 AWG Wire Size, MCON Interconnection System</p> <p>AMP MCON Interconnection System TE Internal #: 7-1452653-1 TE Internal Description: MCON 1.2 LL REC SRC SN All MCON, RECEPTACLE AND TAB (103)</p> <p>Terminal Type: Receptacle Mating Tab Width: 1.2 mm [.047 in] Mating Tab Thickness: .6 mm [.024 in] Terminal Transmits: 0 – 24 A (Low Power) Wire Size (AWG): 23 – 22</p> <p>Add to List Similar Products Digital Datasheet</p> <p>GET FREE SAMPLES</p> <p>Compatible Parts & Tooling</p>

14

Pick the corresponding terminal size from the test kit.

