ATTENTION:

GENERAL MANAGER ❑
PARTS MANAGER ❑
CLAIMS PERSONNEL ❑
SERVICE MANAGER ❑

IMPORTANT - All Service Personnel Should Read and Initial in the boxes provided, right.

SUBARU

QUALITY DRIVEN® SERVICE

SERVICE INFORMATION BULLETIN

APPLICABILITY: All Models

NUMBER: 14-31-25

DATE: 03/31/25

SUBJECT: Terminal Pin Servicing Kits

INTRODUCTION:

This Service Information Bulletin announces availability of a User Guide and an informative video to supplement the recent releases to retailers of the SOA321152 and SOA321153 Terminal Test Kits. Links to each are supplied below. Thanks again to our friends at the Six Star Garage team of Subaru Canada, Inc. for their efforts in putting these reference materials together!

IMAGE	TOOL NAME	PART NUMBER
	TERMINAL TEST KIT A	SOA321152
	TERMINAL TEST KIT B	SOA321153

CAUTION: VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.

Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition.

Subaru of America, Inc. is ISO 14001 Compliant

ISO 14001 is the international standard for excellence in Environmental Management Systems. Please recycle or dispose of automotive products in a manner that is friendly to our environment and in accordance with all local, state and federal laws and regulations.

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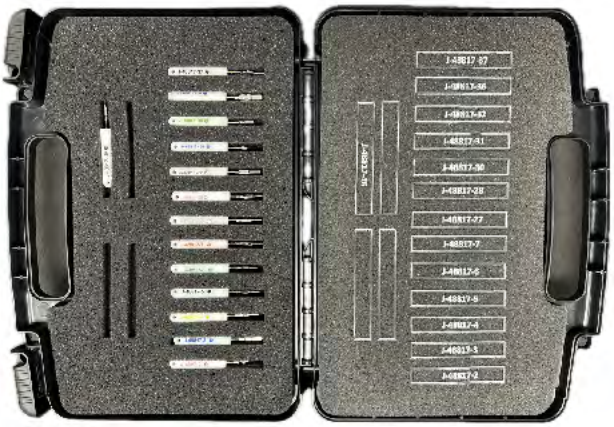
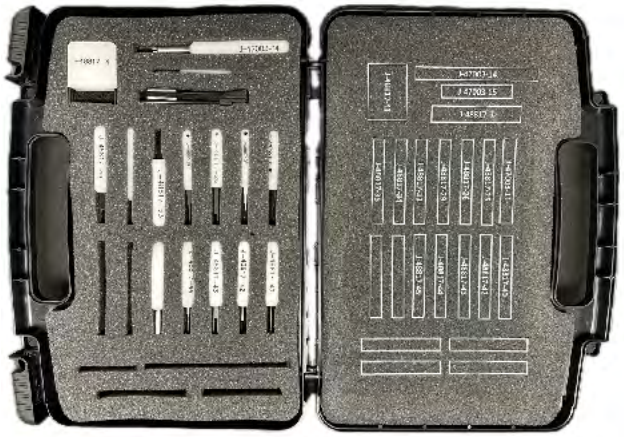
KIT CONTENTS:

TEST KIT A (SOA321152) includes 14 different, Pin Drag / Fitment testing tools. Additional kits ("A" or "B") can be ordered directly from the SST website https://subaru.service-solutions.com. The tools are spring loaded for an accurate "Go/No-Go" decision on pin tension and fitment.



TEST KIT B (SOA321153) includes 16 release tools for assorted connectors. Also included is PN J-48817-1 which is a multi-tool with an additional 16 different release tools insuring Technicians have access to the correct tool required to disassemble most connector styles.



TERMINAL PIN-FIT TEST:

Have you ever inspected a connector for continuity and noticed that despite it being connected, there's still measurable resistance or an intermittent circuit connection condition? The tools supplied in SOA321152 are specifically designed to test for loose or enlarged contact springs within connector terminals. The spread terminal gauges provide a quick "Go/No-Go" assessment for checking female terminal spread. Using a spring-action probe, the gauge indicates whether a terminal is properly seated or loose.

When testing, carefully select the correct male terminal gauge that fits securely with the female connector. If the gauge inserts easily without resistance from the female contact spring, replace the female terminal as it should compress to create a snug fit when tested with the corresponding terminal gauge.

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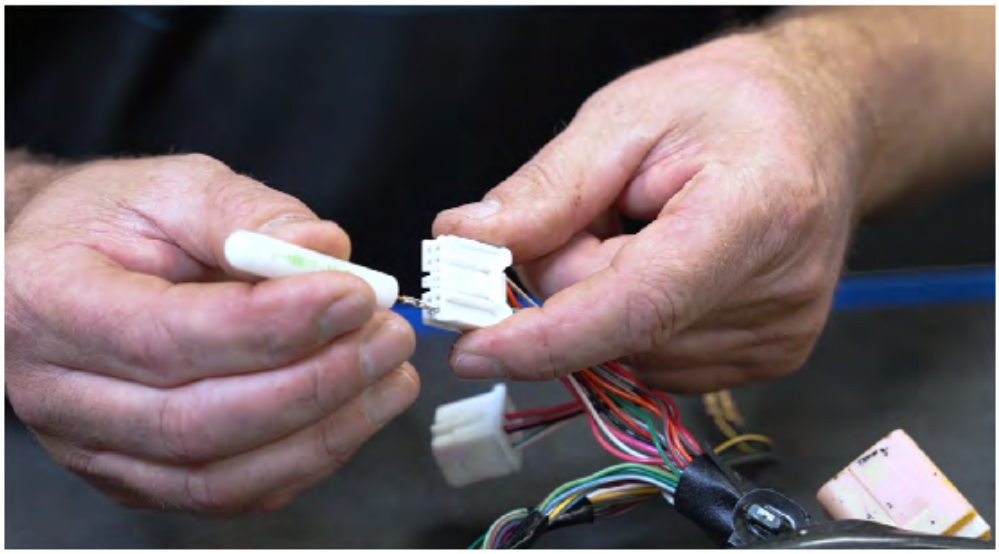
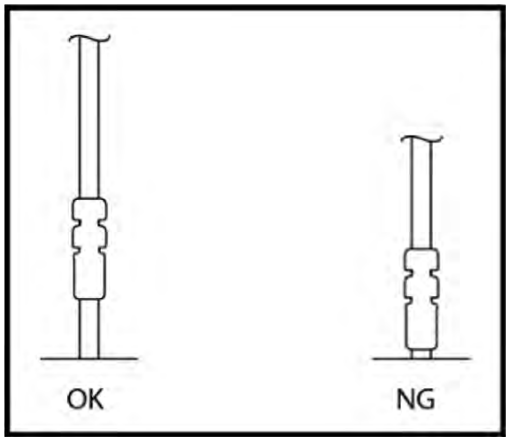
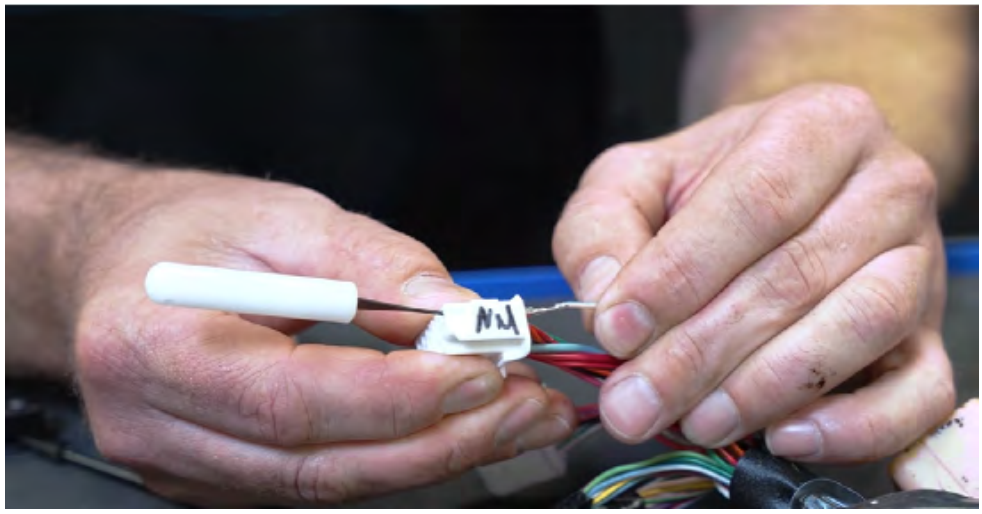
NOTE: NEVER force the test gauge into a female terminal.



If the pin on the tool slides into the connector without compressing the internal spring, the fitment is likely insufficient for good contact. NOTE: The spread terminal test gauges were designed to check the female terminal contact to the male terminal. Using another device for this purpose may loosen or damage the female terminal connector contacts.



REMOVING PINS FROM THE CONNECTOR



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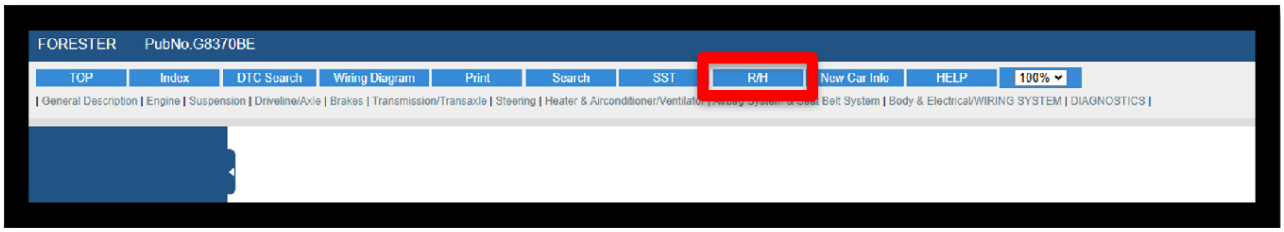
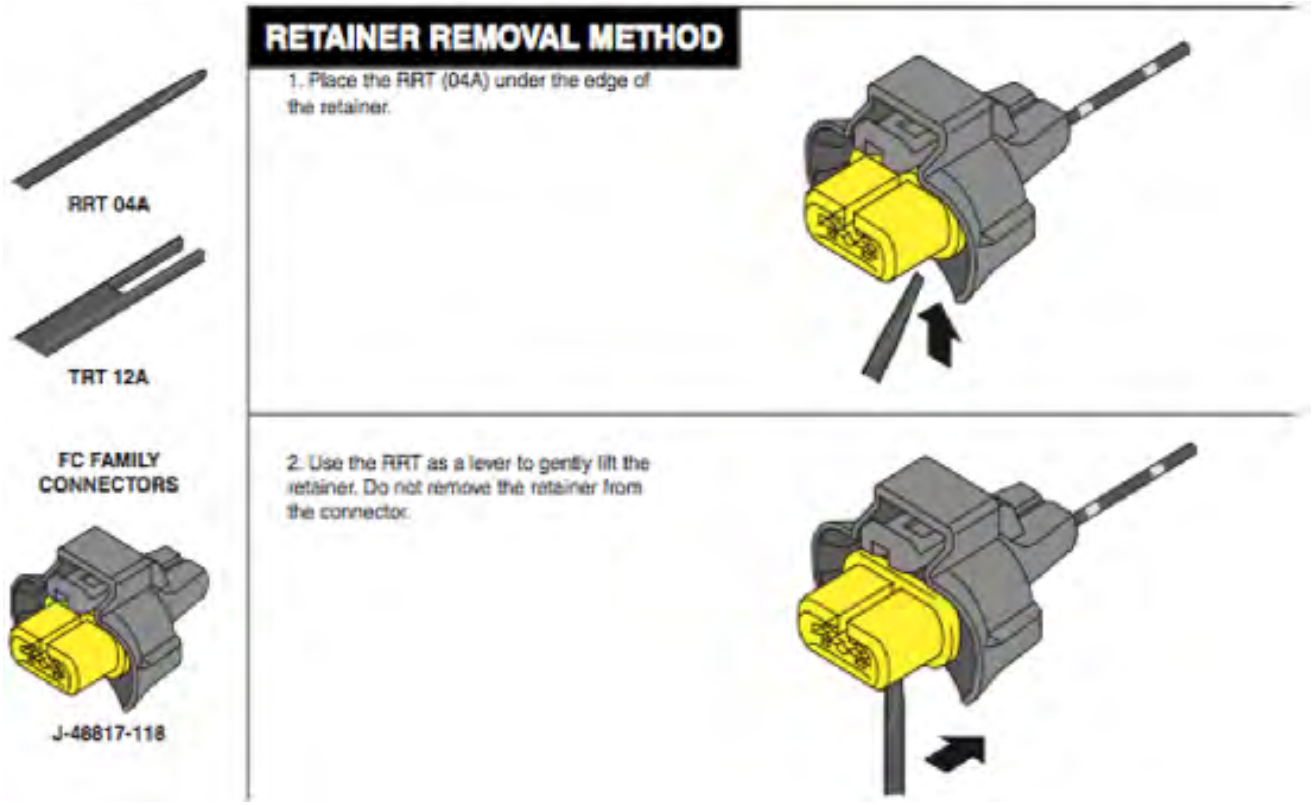
Releasing Pins:

TEST KIT B (SOA321153) contains a release tool for a large variety of terminals found in Subaru vehicles. If a wiring repair is required, always refer to the applicable Service Manual section “R/H” covering wiring harness repair.



When releasing pins, it is IMPORTANT to identify how the connector locks the pin in place. Most connectors have a retainer that must be released before attempting to release the pin. This varies by connector and should only be attempted if the release can be done without damaging the connector.



Once the terminal retainer is removed, the terminal can be released from the connector for adjustment or replacement. Subaru only recommends this method for terminals listed in the Service Manual as replaceable. Connectors not listed are not available and harness replacement must be performed.

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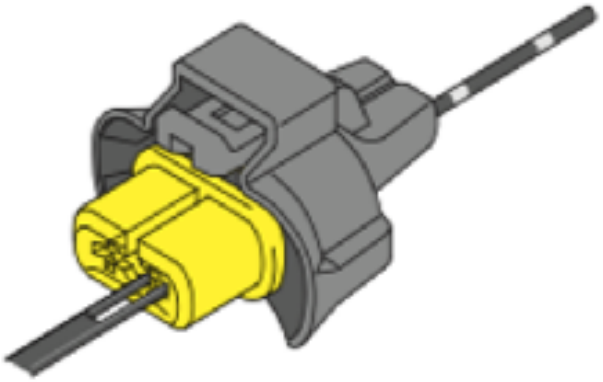
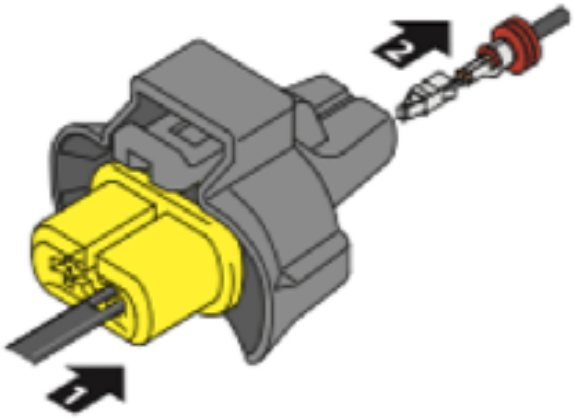
TERMINAL REMOVAL METHOD

1. Insert the TRT (12A) straight into the slots on the face of the connector on both sides of the terminal.

NOTE: Locking tabs are part of terminal.



2. Press the TRT into the slots to release the locking tabs and then pull the wire out slowly.



PIN DRAG AJUSTMENT

Pins within an electrical connector use tension to create a solid, low resistance electrical connection. It is possible for poor pin fitment or insufficient tension to cause many types of electrical concerns. These concerns can often be internment and difficult to diagnose. All types of harness connectors can experience pin fitment problems, particularly if a connector has been disconnected and reconnected multiple times. Resistance testing of a circuit and the split-half technique are simple techniques which can expedite locating the source of a poor fitment. If prior repair and / or diagnostic work has been performed where the harness or connectors have been disconnected or removed more than once, reduced pin tension and the resulting fitment issues may be the root cause of the issue.

Harness pin tension can be adjusted. When poor pin fitment is confirmed using these Subaru terminal test kits, CAREFULLY remove the affected pin(s) one at a time using the proper tool and adjust their tension. In a case where more than one pin in a connector is identified, it is strongly recommended to address one connection at a time to keep from mixing up locations during reassembly. See the illustration below.

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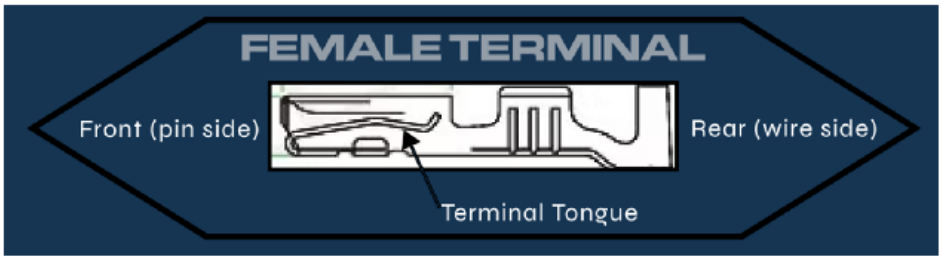
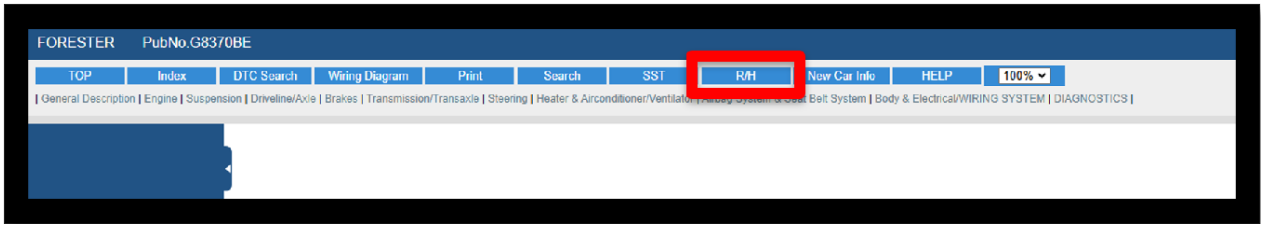


Using a small pick or adjustment tool, you can adjust the terminal spring or tongue depending on the connector type to increase the drag.

NOTE: Not all pins can be adjusted. It is important to be EXTREMLY CAREFUL when adjusting pins. They are very delicate. When the pin is too small to be adjusted or there is no access to the spring or tongue. You will need to replace the harness or pigtail. It is recommended to practice on a replacement pigtail before working on the vehicle's harnesses.

Tension should be checked again after adjustment with the appropriate pin fitment tool from the SOA321152 Kit. If the tension is not improved after adjustment, it will be necessary to replace the harness or perform a wiring repair with a pigtail and connector where allowed. Only repair harnesses as listed in the R/H section on the Service Manual specific to the vehicle you are working on.

CAUTION: Subaru ONLY approves harness repair for connectors specifically listed in the Service Manual. For electrical concerns where the connector is not listed in the harness repair section of the Service Manual the complete harness must be replaced. Wiring repair should not be performed without following the Guide in the Service Manual under "R/H" and is vehicle specific. The tools provided in the kits listed are to improve diagnostics.



LINK TO THE VIDEO:

Pin Fitment Tool Usage Video

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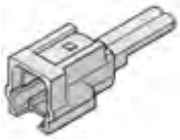
EXAMPLES OF CONNECTORS AND APPLICABLE TOOLS:

CONNECTOR PICTURE	CONNECTOR APPLICATION	RETAINER PICK TOOL	TERMINAL PICK TOOL	SPREAD TERMMINAL GAUGE
	ALTERNATOR	02A	01A	J-48817-3
	OIL LEVEL SENSOR / KNOCK SENSOR	04A	11A	J-48817-3
	COOLING FAN	03A	11A	J-48817-3
	HORN	02A	01A	J-48817-3
	FRONT ABS WHEEL SPEED SENSOR	J-47003-11	11A	NA

IMPORTANT REMINDERS:

- SOA strongly discourages the printing and/or local storage of service information as previously released information and electronic publications may be updated at any time.
- Always check for any open recalls or campaigns anytime a vehicle is in for servicing.
- Always refer to STIS for the latest service information before performing any repairs.