Part Number: PT738-48200

Kit Contents

Item #	Quantity Reqd.	Description
1	1	Crossbar Assembly - Front
2	1	Crossbar Assembly - Rear
3	2	Front Stanchion Covers
4	2	Rear Stanchion Covers
5	1	Hardware Kit

Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	1	T40 22N-m Torque Wrench
2	1	T30 9N-m Torque Wrench
3	1	4 Pouch Poly Storage Bag
4	1	Care Card

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1	1	Trim Removal Tool

Conflicts

None

Recommended Tools

Personal & Vehicle Protection	Notes
Safety Glasses	
Safety Gloves	
Vehicle Surface Protection	Vehicle Cover for Paint Protection Wrist & Belt Buckle Protection
Special Tools	**Notes**
Plastic Trim Removal Tool	Not Supplied in Kit
Installation Tools	**Notes**
22N-m T40 Torque Wrench	Supplied With Kit
9N-m T30 Torque Wrench	Supplied With Kit
Special Chemicals	**Notes**
None	

General Applicability

MY24 Grand Highlander (with Side Rails)

Recommended Sequence of Application

Item #	Accessory
1	
2	
3	
4	

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	1	PT738-48200-CV Cover Kit
2	1	PT738-48200-SK Torque Tool(s)

Legend

STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with.

OPERATOR SAFETY: Use caution to avoid risk of injury.

CAUTION: A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.

TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process.

REVISION MARK: This mark highlights a change in installation with respect to previous issue.

SAFETY TORQUE: This mark indicates that torque is related to safety.

REGULATORY MARK: This mark indicates the component is related to regulatory compliance

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Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

Please see your Toyota dealer for a copy of this document.

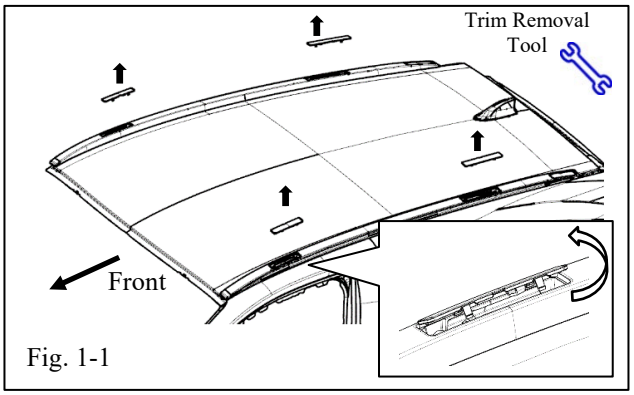


Fig. 1-1

1. Remove Vehicle Side Rail Covers

(a) Use a plastic trim removal tool to pry up and remove side rail covers – 4 places (Fig. 1-1).

(b) Place covers in the four-pouch sealable poly bag provided, to protect and store the covers for future use.

NOTE: The torque wrenches should also be stored with the side rail covers in the vehicle glove box or center console if space is limited.

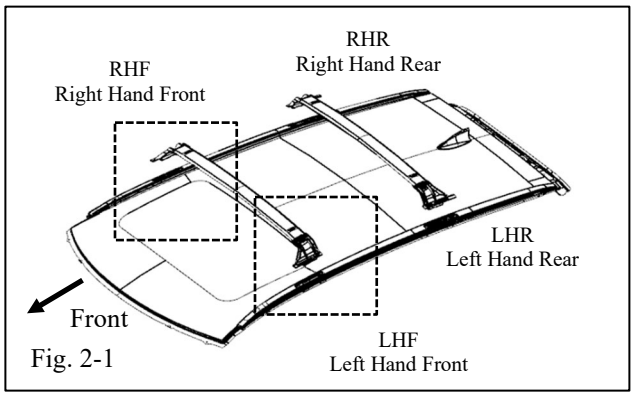


Fig. 2-1

2. Install Front / Rear Crossbar Assemblies

NOTE: Ensure painted vehicle surface are protected during installation (Fig. 2-1).

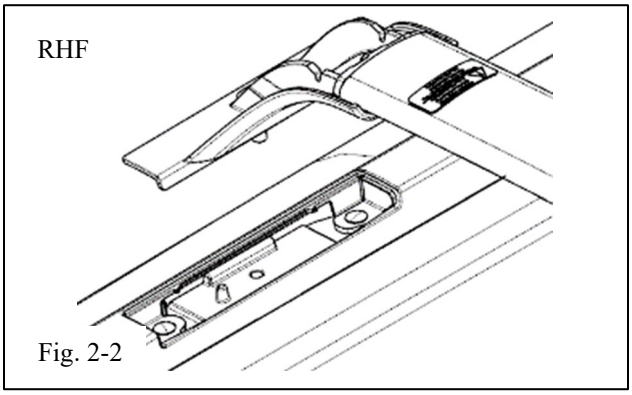


Fig. 2-2

(a) Lower the right-hand front (RHF) stanchion into the passenger side front side rail opening ensuring the vehicle mounting bracket locating pin is aligned with the locating hole in the bottom of the stanchion (Fig. 2-2)

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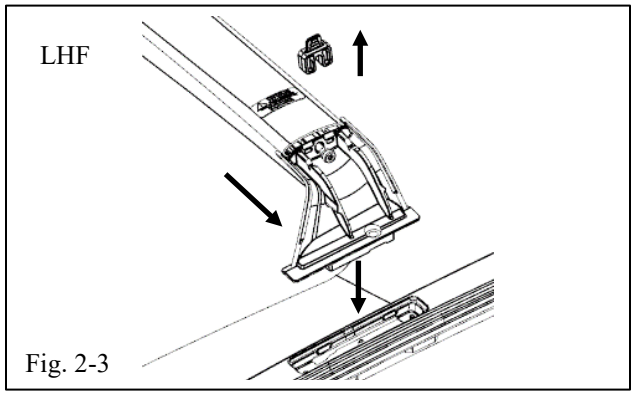


Fig. 2-3

(b) Remove LH plastic crossbar spacer & discard. Loosen LH crossbar bolt if required. Adjust the left-hand front stanchion position and lower it into the driver side front side rail opening ensuring the vehicle mounting bracket locating pin is aligned with the locating hole in the bottom of the stanchion (Fig. 2-3).

3. Secure Crossbars

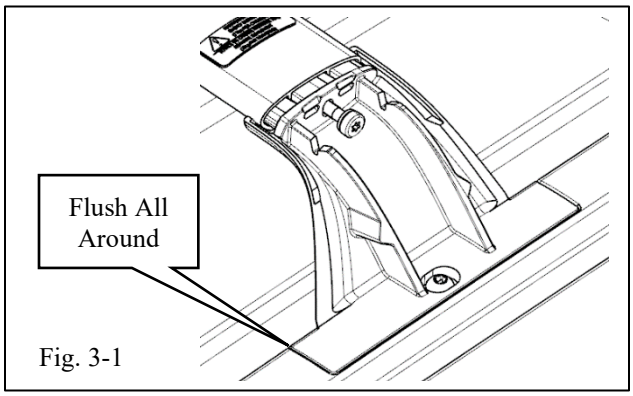


Fig. 3-1

(a) Before tightening mounting fasteners, ensure stanchions are flush to side rail surface all around at all four locations (Fig. 3-1).

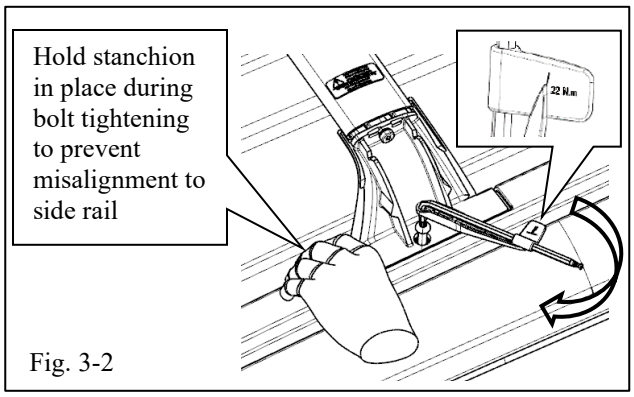


Fig. 3-2

(b) Use T-40 Torx® head wrench supplied with kit, to tighten stanchion bolts by rotating the wrench clockwise until wrench pointer aligns to the mark on the flag. Restrain stanchion from twisting in side rail pocket during bolt tightening (Fig. 3-2).

Torque: 22N-m

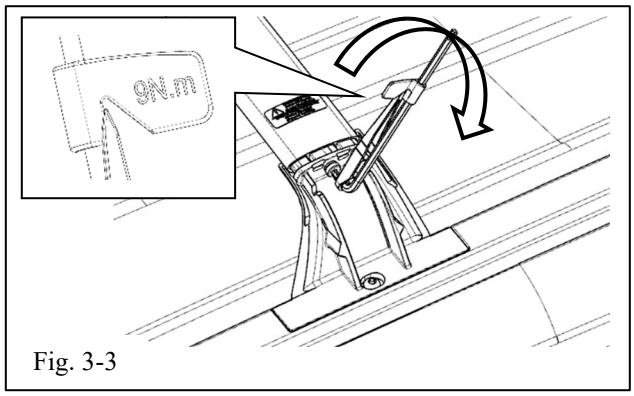


Fig. 3-3

(c) Use T-30 Torx® head wrench supplied with kit, to tighten crossbar bolts by rotating the wrench clockwise until wrench pointer aligns to the mark on the flag. Left hand crossbar fasteners only (Fig. 3-3)

Torque: 9N-m

(d) Repeat steps 2 & 3 for rear crossbar assembly.

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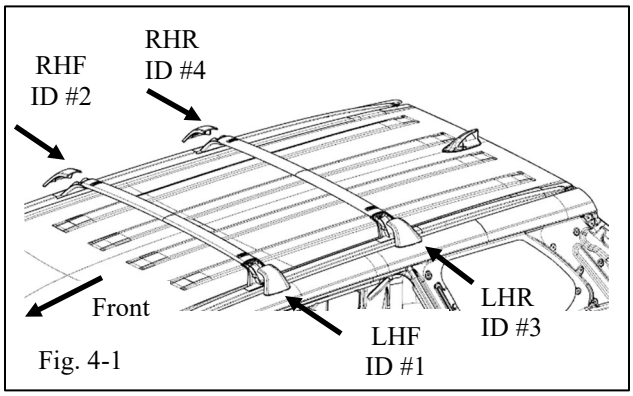


Fig. 4-1

4. Install Crossbar Covers

(a) Before attaching covers to stanchions, ensure covers are matched to the associated stanchion (Fig. 4-1).

FR LH Cover to FR LH Stanchion (Cover ID #1)
FR RH Cover to FR RH Stanchion (Cover ID #2)
RR LH Cover to RR LH Stanchion (Cover ID #3)
RR RH Cover to RR RH Stanchion (Cover ID #4)

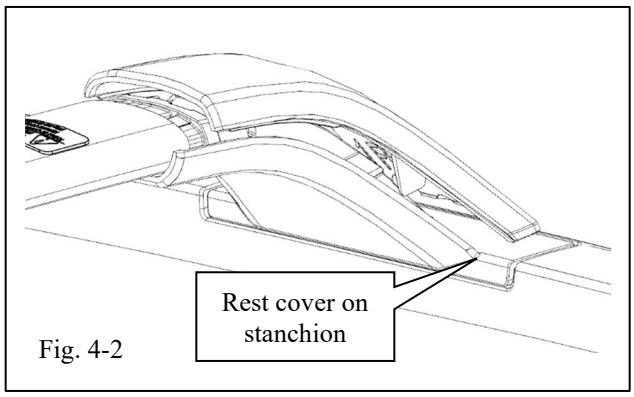


Fig. 4-2

(b) Align cover with stanchion in the vehicle fore /aft direction. Place the bottom of the cover on the lower stanchion surface. Slide cover in the cross-car direction ensuring the lower cover clips engage the stanchion clip features (Fig. 4-2).

NOTE: Potential hand pinch point possible when engaging the cover with the stanchion. Please ensure installer hand is safe and will not be pinched during install of covers.

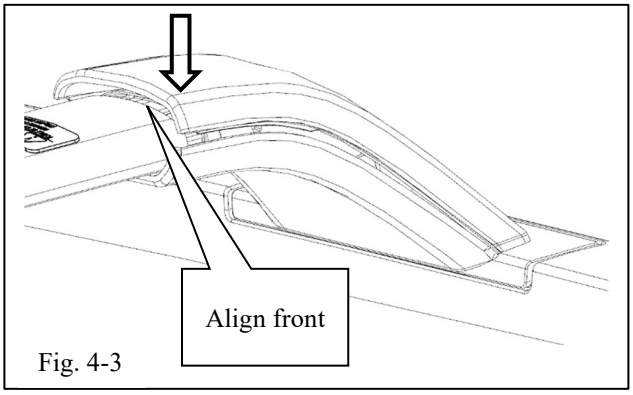


Fig. 4-3

(c) Once the cover is positioned as far against the stanchion as it will go, press the cover down into its final installation position (Fig. 4-3).

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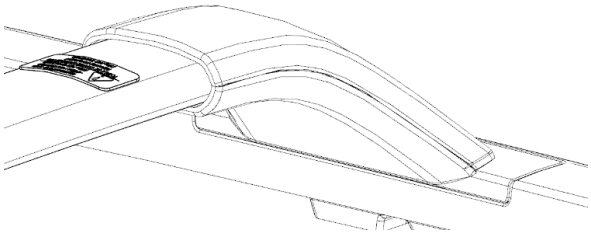


Fig. 4-4

(d) Ensure the cover is fully seated and flush to the stanchion surface all around (Fig. 4-4).

(e) Repeat step 4) for all remaining covers.

Check:	Look For:
Accessory Function Checks	
☐ Verify parts:	Removed items have been discarded & replaced items are in place
☐ Ensure the crossbars are secure and in the correct position.	Stanchion base is flush to side rail surface.
☐ Side rail covers, torque tool and users guide.	Indicated items are stored in the glove box or center console is space is limited for future use.
☐ Crossbar cover engagement.	Ensure covers are fully seated on stanchions.
☐ Load labels.	Ensure load labels are legible (both sides). Max. Indicated load is 154lbs. (70kg).
Vehicle Function Checks	
☐	
Vehicle Appearance Check	
☐ After accessory installation and removal of protective cover(s) perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMNA Accessory Quality Shipping Standard.)
	Ensure no damage has occurred to crossbars during the installation process.

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