



For 2008-2018 Toyota Highlander Gas & Hybrid (Cutting required)

Installation Instructions for IA20SBB9B by APS Auto Parts Specialist Inc.

Application: For 2008-2018 Toyota Highlander Gas & Hybrid (Cutting required)

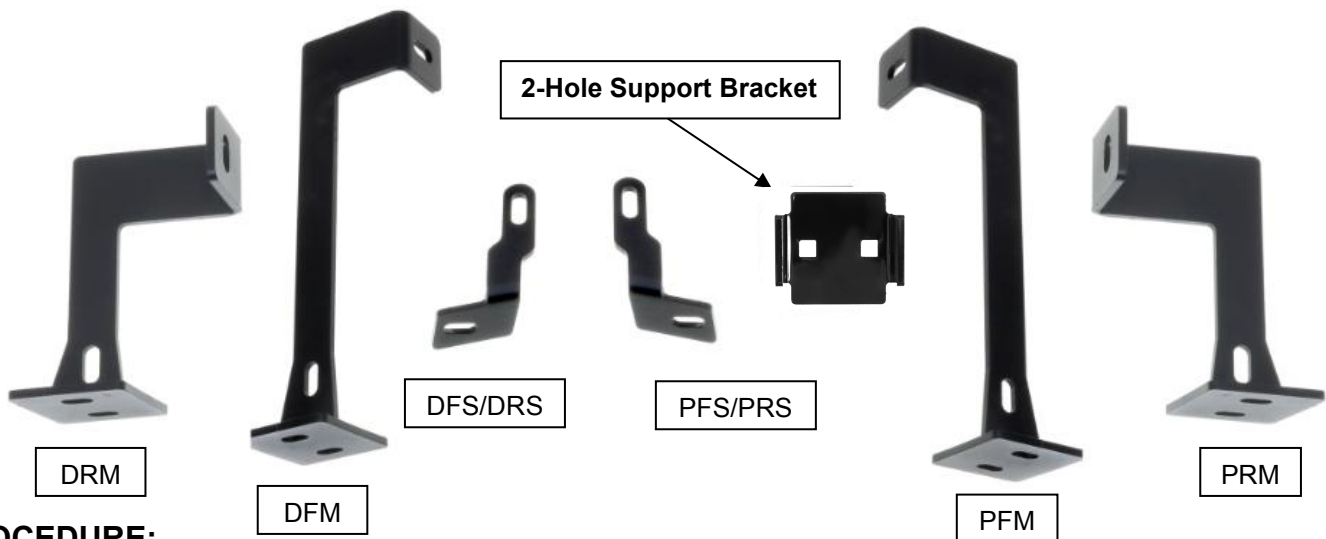
Estimated Time: 1 to 2 hours



The instruction here is for your reference only. We strongly recommend the professional installer for best result. We are not responsible for any damage caused by the installation. Thank you for choosing our product!

PARTS LIST:

Item	QTY	Description	Item	QTY	Description
#1	2	Driver/ Passenger Side Bar	#11	2	M12 Lock Washers
#2	1	Driver Front Mounting Bracket (DFM)	#12	2	M12 Hex Nuts
#3	1	Passenger Front Mounting Bracket (PFM)	#13	6	M10 Nut Plates
#4	1	Driver Rear Mounting Bracket(DRM)	#14	8	M10X1.5-30 Hex Bolts
#5	1	Passenger Rear Mounting Bracket(PRM)	#15	2	M10X1.5-20 Hex Bolts
#6	2	Driver Front Support Bracket(DFS/DRS)	#16	2	M10 Internal Tooth Lock Washer
#7	2	Passenger Front Support Bracket(PFS/PRS)	#17	30	M10 Flat Washers
#8	4	2-Hole Support Bracket	#18	16	M10 Lock Washers
#9	2	M12 x 50 Bolt Plates	#19	16	M10 Hex Nuts
#10	2	M12 Flat Washers	#20	8	M10X1.5-75 Carriage Bolts



PROCEDURE:

1. Verify all parts are present. Read instructions completely before beginning. It is strongly recommended to install the Sure Grip Gap Strip for these vehicle applications.
2. Remove rubber plugs from rear mounting locations. Thread M10X30 hex head bolt through M10 Nut Plate nut. Insert assembled M10 bolt plate and M12 bolt plate as shown. **SEE FIGURE1.**
3. Attach support brace and rear bracket to bolt plates.
4. Attach support brace to the rear brackets using M10 fasteners as shown. **SEE FIGURE 1.**
5. Assemble support brace as shown in **figure 2** leaving fasteners very loose.
NOTE: Protruding end of bridge nut must face up.
6. Remove rubber plugs from front mounting locations. Thread M10 hex head bolt through M10 nut Plate. Insert assembled M10 bolt plate into inner hole and slide the nut plate of the support brace assembly into outer hole. Be sure to keep the M10 Bolt Plate assembled so as to not lose M10 nut Plate in rocker panel.
7. Attach front bracket to bolt plate and then to support brace using M10 fasteners. **SEE FIGURE 3.**
8. Select the Driver Side Bar. Slip (2) M10X1.5-75 Carriage Bolts into each 2-Hole Support Brackets ,and insert the 2-Hole support bracket into the Driver Side Bar.(**Fig 4**). Carefully position the Bar onto the (4) Mounting Brackets. **IMPORTANT:** Do not slide the Bar on the Brackets or damage to the finish may result. Attach the Driver Side Bar to the Mounting Brackets with (2) M10 Hex Nuts,(2)10mm lock washers and (2)10mm flat washers, (**Fig 5**). Do not tighten hardware.

9. Level and adjust the Bar properly and tighten all hardware. **NOTE: Torque all M10 X1.5-75 Carriage Bolts to 22~25 lb-ft. Don't over tighten, or the aluminum square bars will be damaged by the brackets.**

10. Repeat Step 2-9 for the other side installation. Installation completed!!! (See Fig 6)

11. Do periodic inspections to the installation to make sure that all hardware is secure and tight.

Products have a high quality finish that must be cared for like any other exposed finish on the vehicle. Protect the finish with a non-abrasive automotive wax, (e.g. Pure Carnauba) on a regular basis. The use of any soap, polish or wax that contains an abrasive is detrimental, as the compounds scratch the finish and open it to corrosion.

Driver/Passenger Side Installation Pictured

