

## P/N 12628HKR

#### GM 1967-69 F-Body/1968-72 X-Body LS Swap Powerglide\*/TH350\*/7004R\* Transmission Adapter Kit

\*Requires the use of a Hooker 12625HKR 4L60-4L75 transmission crossmember

P/N 12650HKR

### TH400 / 2004R Transmission Mount Spacer Block Kit

#### Installation Instructions 199R10685

<u>Thank you for choosing to use Hooker™ products</u> as part of your engine/transmission swap project. These products are designed as part of the most comprehensively engineered systems of mounting components, headers, and exhaust systems available for LS engine swaps. Hooker™ LS swap systems are designed to decrease your total swap installation effort and cost while increasing the engineered quality of your vehicle and compatibility of these components with other popular aftermarket components.

# **IMPORTANT DESIGN AND PRE-INSTALLATION INFORMATION:**

These components have been designed for use in multiple Hooker LS engine swap system applications. They have been CAD designed and FEA validated to provide optimized strength and fitment geometry for each application they are called out to be used with.

Installation of these products requires the use of an **Energy Suspension™ 3-1158** poly mount, a **Prothane™ 7-1604** poly mount, or an **Anchor™ 2268** rubber transmission mount for as-designed installation geometry to be achieved.

Use of the 12628HKR adapter kit with a 12625HKR 4L60-4L70 crossmember to install a Powerglide, TH350 or 700R4 transmission into an LS swapped GM 1<sup>st</sup>-gen F-body/3<sup>rd</sup>-gen F-body (using Hooker 12618HKR LS swap engine brackets only) requires modifications (cutting and welding) be performed on the 12625HKR crossmember to complete the installation. The increased exhaust passage and ground clearance gained by using the 12625HKR crossmember as part of your LS swap project will more than justify the extra effort required for this operation.

Use of the 12650HKR spacer block kit with a 12626HKR T56 crossmember to install a 2004R transmission into an LS swapped GM 1<sup>st</sup>-gen F-body/3<sup>rd</sup>-gen X-body (using Hooker 12618HKR LS swap engine brackets only) requires slight modification/welding to be done to the 12626HKR crossmember to fit around the case and pan of a 2004R transmission. The steel gusset bracket included within the 12650HKR kit is intended for this purpose and its use is outlined in these instructions. The increased exhaust passage and ground clearance gained by using the 12626HKR crossmember as part of your LS swap project will more than justify the extra effort required for this operation.

Use of the 12650HKR spacer block kit with any other Hooker transmission crossmember to install a 2004R or TH400 transmission will not require any modifications to be done to the crossmember, or the use of the steel gusset bracket included in the 12650HKR adapter kit.

These instructions are intended to supplement the basic installation steps outlined in various Hooker transmission crossmember instruction sheets that call out the use of these parts.

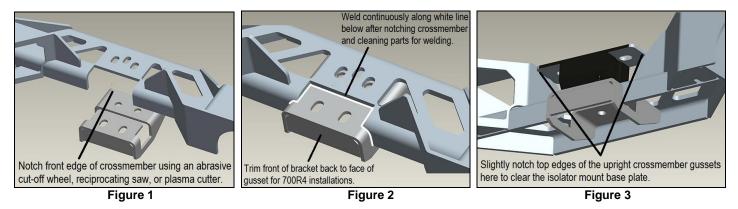
# **INSTALLATION OF 12628HKR**

1. Check that the hardware package includes the following:

Γ	Qty.	Description	Qty.	Description
	1	Adapter Bracket Assembly	2	7/16" Nuts
	2	7/16" Bolts		

- 2. Cut a notch as wide as the 12628HKR bracket into the front of the 12625HKR crossmember. Place the notch in the center of the crossmember and cut it back 1-1/8" from the face of the crossbeam front flange (**Figure 1**).
- 3. Attach the bracket to the crossmember placing the supplied bolts and nuts in the holes that pass through both the bracket and crossmember (Figure 2).
- 4. If you are using this kit to install a 700R4 transmission, trim the front of the bracket off so that it is even with the front edge of the bracket gusset plate (Figure 2) and slightly notch the top edges of the upright crossmember gussets to clear the isolator mount base plate (Figure 3). If you are using this kit to install a Powerglide or TH350, leave the bracket length as-is, as you will be attaching the transmission mount to the forward set of holes in the bracket.

- 5. Once notching/clearancing is complete, clean parts and weld them together using either a MIG or TIG welder (Figure 2) and spotpaint as desired to match.
- 6. Install the crossmember per the instructions contained in its packaging.

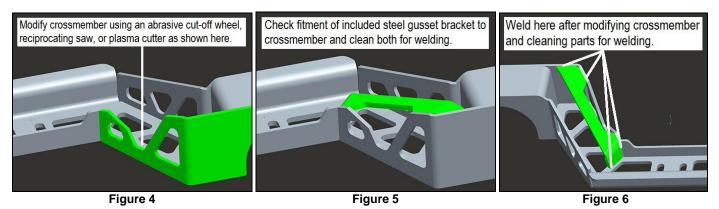


# **INSTALLATION OF 12650HKR**

1. Check that the hardware package includes the following:

Qty.	Description	Qty.	Description
1	Aluminum Spacer Block	2	7/16" Bolts
1	Steel Gusset Bracket	2	7/16" Washers

2. If you are using this spacer block kit to install a 2004R into a GM 1<sup>st</sup>-gen F-body or 3<sup>rd</sup>-gen X-body using the Hooker 12626HKR T56 crossmember, modify/cut the inside left upright wall of the crossmember to match what is shown in **Figures 4** and **5** below. Once modifications are complete, clean parts and weld them together using either a MIG or TIG welder, as indicated in **Figure 6** below and spot-paint as desired to match. Install the crossmember per the instructions contained in its packaging while installing the spacer block included in this kit between the crossmember and transmission isolator. Use the included long fasteners to attach the transmission mount to the crossmember.



3. If you are using this spacer block kit and a Hooker transmission crossmember to install a 2004R or TH400 transmission into any other vehicle besides a GM 1<sup>st</sup>-gen F-body or 3<sup>rd</sup>-gen X-body, do not modify the crossmember in any way. Install the crossmember per the instructions contained in its packaging while installing the spacer block included in this kit between the crossmember and transmission mount. Use the included long fasteners to attach the transmission mount to the crossmember.