

## FORD C-4 300M TO ATLAS TRANSFER CASE- SHORT

### KIT CONSISTS OF:

| No. | Qty   | Part No. | Description                 |
|-----|-------|----------|-----------------------------|
| 1.  | 1     | 51-2902  | C-4 ADAPTER PLATE           |
| 2.  | 1     | 51-9210  | MODIFIED 51-9200 ADAPTER    |
| 3.  | 1     | 52-2905  | C-4 OUTPUT SHAFT- 27 SPLINE |
| 4.  | 1 KIT | 716055   | CROSSMEMBER KIT             |
| 5.  | 1     | 716061   | C4 VENT                     |
| 6.  | 4     | 723147   | 5/16"-18 x 1" F.H.C.S.      |
| 7.  | 5     | 723701   | 3/8"-16 NUT                 |
| 8.  | 6     | 723705   | 3/8"-24 NUT                 |
| 9.  | 5     | 723714   | 3/8"-16 x 1.5" STUD         |
| 10. | 6     | 723731   | 3/8"-16 x 1" S.H.C.S.       |
| 11. | 11    | 911003   | 3/8" INTERNAL STAR WASHER   |

### Kit Note:

The adapter overall length is 2.9" long.

### GENERAL INFORMATION:

*The output shaft included in this kit must be installed into a custom built, fully manual C-4 transmission. The length of this kit does not leave any space for the governor assembly; therefore, it must be used with a manual valve body. Additionally, the governor housing needs a lathe modification and a mill/drill press modification.*

### INSTRUCTIONS:

1. Have a transmission shop build the fully manual C-4 with the 52-2905 output shaft.
2. Give the governor casting to a qualified machinist to turn the part down to the desired thickness of 0.530" +/- 0.005". This can be seen below in the picture. The second modification is to countersink the four 5/16" bolt holes until the included 5/16"-18 flat head cap screws sit flush with the surface.



**GOVERNOR HOUSING:**  
*To the left is the unmodified housing. To the right is the housing after it has been machined down to the correct thickness of 0.530" +/- 0.005".*



**SPECIAL NOTE:** The components packaged in this kit have been assembled and machined for specific type of conversions. Modifications to any of the components will void any possible warranty or return privileges. If you do not fully understand modifications or changes that will be required to complete your conversion, we strongly recommend that you contact our sales department for more information. This instruction sheet is only to be used for the assembly of Advance Adapter components. We recommend that a service manual pertaining to your vehicle be obtained for specific torque values, wiring diagrams and other related equipment. These manuals are normally available at automotive dealerships and parts stores.

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- The dowel pin must be shortened to 1.40" so that it is flush with the shortened governor housing.



*Shortened governor housing and dowel pin.*

- Place the governor housing over the park gear into the transmission case. Insert the dowel pin through the governor housing, park spring and the park arm. Secure the governor housing with the included 5/16"-18 flat head cap screws and torque to factory specs.
- Put a dab of silicone on the tip of each of the 3/8"-16 x 1.5" studs and Loctite on the threads. Thread them into the adapter plate until they are just below, flush with the back side.
- Press the included C-4 breather (#716061) into the adapter plate (51-2902).



*The 51-2902 plate after installing studs.*

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7. Apply a thin film of silicone to the back flange of the C4 transmission and using a mallet, tap the 51-2902 plate over the governor housing. Fasten with the 3/8"-16 socket head cap screws. Torque to factory specs.



8. Check operation of the transmission park gear. Verify that the transmission will shift in and out of park without any binding. **If you encounter any problems, do not proceed.** Remove the plate and find and eliminate the interference. If you should need further assistance, please call us at 1-800-350-2223.

9. Apply a thin film of silicone to the 51-9201 casting that mates to the adapter plate. Slide 51-9201 aluminum adapter over the studs and lightly tap into place with a mallet. Install star washers and nuts.

10. Prepare the transfer case for the installation by threading P/N #302069 studs (included with the Atlas transfer case.) into the transfer case input ring.

11. Pre-assemble the P/N 716055 crossmember mount according to the instructions included with that kit.

12. Insert the transfer case studs into the adapter until the studs just begin to protrude through the adapter. Slide the crossmember mount into place and over the transfer case studs. Push the transfer case the remaining distance so that it is completely seated into the adapter. Install the star washers and the 3/8"-24 nuts.



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*The assembled kit looking from the top.*



*The assembled kit looking from the bottom.*

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