

ATLAS 4 SPEED PLANETARY CABLE SHIFTER

KIT CONSISTS OF:

No.	Qty	Part No.	Description
1	1	302061	STICKER- ATLAS SHIFT KNOB
2	1	302083	KNOB- SHIFTR KNOB
3	1	303121	NUT-1/2-13 HX JAM BLACK ZINC
4	2	303305	BARREL- ATLAS SHIFTER CABLE
5	1	303309-2	CABLE-ATLAS SHIFTER 48" LENGTH 1" TRAVEL
6	1	303313	ROD END- FEMALE 1/4"-28
7	1	303341	BOLT- 1/4"-28 X 5/8" B.H.C.S.
8	1	305501	BRACKET- ATLAS 4SP CABLE MOUNT
9	2	340551	BUSHING- CABLE SHIFTER
10	1	340600	HOUSING- ATLAS 4SP CABLE SHIFTER
11	1	340601	PLATE- ATLAS 4SP SHIFTER HSG MNT
12	1	340602	RING- ATLAS SHIFT BOOT SINGLE STICK
13	1	340605	BOOT- SINGLE STICK
14	1	340607AA	STICKER- 4SP REDUCTION
15	2	340610	RETAINER- ATLAS CABLE SHIFTER BARREL
16	1	340611	LEVER- ATLAS 4SP CABLE SHIFTER
17	1	340613	1/4-28 Ball joint
18	1	340614	CLEVIS PIN
19	2	340615	BOLT- 1/4"-20 X 5/8" B.H.C.S.
20	1	340616	Cotter pin 3/32x 1 zinc
21	5	302453	1/4"-20 X 1" FHS
22	2	722514	NYLON LOCKNUT 1/4"-20 Z
23	1	722523	1/4" USS FLAT WASHER PLTD.
24	4	722546	SCREW-TEK, HEX SELF DRILLING W/NEO #10- 16 X 1"
25	3	723730	S.H.C.S. 3/8"-16 X 1-1/4" (NEW BOLTS FOR ATLAS SHIFT BASE WHEN 305501 IS INSTALLED.)

SPECIAL NOTE:

We do not recommend flat towing vehicles with the Atlas 4 speed because of the planetary housing bearings and the additional needle bearing used in the Atlas. If you must flat tow your vehicle, than we recommend the drive shafts must be removed.

Note: we offer a reverse reduction sticker P/N 340608

Note: P/N 305501 gets installed over the Atlas shift rails before the aluminum twin stick base is installed. When installing this bracket the Atlas must be shifted in low range (both rails into the case) for clearance when installing the 305501 bracket on the planetary housing..

NOTE ON SHIFTING: The planetary reduction portion of this box is a non-synchronized unit. *YOU MUST COME TO A COMPLETE STOP BEFORE SHIFTING THE PLANETARY.*

Manual Transmission Shifting Procedure: Stop vehicle. Shift planetary. If shift is unsuccessful, feather the clutch as you pull on the shift lever. The unit will slide easily into gear.

Automatic Transmission Shifting Procedure: Stop vehicle. Shift transmission to Neutral. Quickly shift the planetary lever. (If you pause, the transmission output shaft will accelerate while the planetary is between gears.) If the shift is not immediately successful, shut off the engine while still in neutral. Once engine is shut off, complete the shift. Then restart engine in neutral.

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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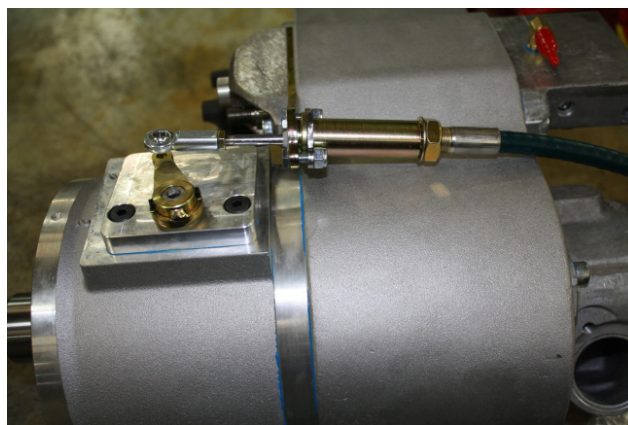
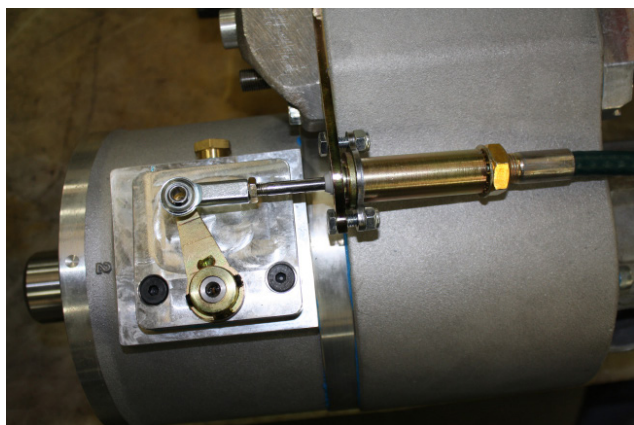
CABLE ADJUSTMENT:

1. Move the handle back and forth within the shifter body to the ends of its travel. Verify that the handle does not contact either side of the shifter body. If it does not, proceed to step 2. If the handle is contacting the shifter body, loosen the button head set screws and the barrel jam nut. Rotate the barrel independently to adjust the handle position. Recheck for interference and repeat as necessary.
2. Move the shift knob so it bottoms out toward the shift cable. This is the low range position. Move the Pivot lever (shown in the photo) to the low range position. Adjust so the hole in the heim joint is behind the tapped hole in the lever by threading cable/shifter assembly in or out of the cable bracket.
3. Move the shift knob to the other end of its travel. Using the pivot lever, shift the planetary assembly to high range. Check that the hole in the heim joint is forward of the tapped hole in the lever. Adjust as necessary by the method in step 2. Repeat steps 2 & 3 until the pivot lever travel is centered within the cable shifter travel. Adjustment is complete.
4. Thread the 1/4"-28 x 5/8" Button Head Cap Screw (P/N 303341) through the heim joint into the pivot lever.

OIL FILLING:

After installing the sight tube per the instructions in the Atlas manual, add 2-1/2 quarts of included oil while still on the bench. We have found this to be easier while the unit is still out of the vehicle.

NOTE: We have included 3 quarts of oil with the new Atlas 4 speed transfer case. The new 4 speed should only be filled with 2-1/2 quarts of the 3 provided. If all three quarts are used it will cause the Atlas to vent out the extra fluid.



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IN VEHICLE ASSEMBLY:

1. Install the Atlas into the vehicle as per the instructions in the Atlas manual.
2. Route the cable so that it does not interfere with the driveshafts or other moving components. Also try to keep the cable away from the exhaust as much as possible.
3. Locate a open area on your floorboard for the new cable shifter.
4. Take P/N 340601 mount plate, and use it as a template to modify the floorboard for the mounting holes and shift handle access. *Note:* The floor board just needs three holes drilled and a small oval slot for the handle.
5. Slip the cable shift handle up through the new slot in the floorboard, and use the mount plate to retain the shifter housing. The floorboard should be sandwiched between our shifter housing and our mount plate.
6. Install the boot ring into the boot and use the two self tapping screws (front and back) to retain it to the mounting plate. Install the jam nut and knob.



ABOVE: THE STANDARD ATLAS SHIFTERS
MOUNTED BEHIND THE PLANETARY CABLE
SHIFTER IN A DODGE 2500.

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