

Telephone: (800) 350-2223 Fax: (805) 238-4201 PAGE 1 OF 5 Page Rev. Date: 08-17-20

P/N: 303018RA

SINGLE STICK ATLAS SHIFTER RIGHT DROP

KIT CONSISTS OF:

No.	Qty	Part No.	<u>Description</u>
1	1	302200	CABLE-ATLAS SHIFTER 62 LENGTH 1 TRAVEL
2	1	302201	U-BOLT 5/16 -24
3	2	302203	ROD END-FEMALE 5/16 RH
4	4	302204	NUT- 5/16 -24 THIN NYLOCK GRD2
5	2	302205	PIN CLEVIS 3/8 X 1.25 HARDEND
6	2	302206	PIN HAIRPIN COTTER COATED
7	1	302207	BOLT 5/16 -24 X 1.25 H.H.C.S. GRD 5
8	1	302208	KNOB- NAVISTAR ATLAS SINGLE LEVER
9	1	302220	LEVER- SINGLE STICK SHIFTER
10	1	302221	HOUSING- ATLAS SINGLE STICK SHIFTER
11	1	302223-RH	BRACKET- RH CABLE MOUNT SINGLE STICK
12	2	302224	BRACKET- ATLAS SHIFT RAIL ACTUATOR
13	2	303055	ROD END- ATLAS SHIFT RAIL
14	2	303081	BUSHING- IGUS 1/2 X 1/2
15	2	303312	BUSHING- IGUS 3/8
16	1	340602	BOOT RING- ATLAS SINGLE STICK
17	1	340605	BOOT- SINGLE STICK
18	4	722546	SCREW-TEK HEX SELF DRILLING W/NEO #10- 16 X 1
19	1	723158	5/16-24 X 1" SFHCS G5 ZS
20	1	723703	NUT 3/8 -16 NYLOCK G5 PLT
21	3	723731	BOLT 3/8 -16 X 1.00" SHCS ZINC
22	1	723735	WASHER 3/8 SAE FLAT PLT
23	1	723773	SCREW 1/2 X 2 HEX SOCKET HEAD SHOULDER SCREW

Note; This shifter kit should be used with an Atlas case built for the single stick shifter. The standard built Atlas can work with this kit, however, it may be hard shifting.



Paso Robles, CA 93447

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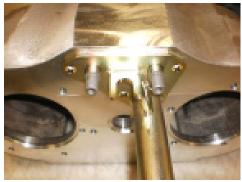
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The single stick shifter can be used on all new Atlas transfer cases as well as retrofitted to any older Atlas transfer case units. When retrofitting the single stick to an older case, the old transfer case linkage must be removed. This would include the twin stick base mount that bolts to the case with the 3 S.H.C.S. Once the old linkage is removed, the front of the case should be cleaned.

The new cable mount will slide over the Atlas shifter rails and bolt to the case using the 3 new 3/8"-16 x 1" S.H.C.S. These bolts should be install with a small amount of RTV silicone on the threads to prevent any oil leaking from the transfer case. The bolts need to be



torqued to 35 ft.-lbs. *NOTE:* We manufacture two of these cable mounts, one for a left drop case and one for a right drop case. The mount will only fit the case drop it was designed for.





The new brass shift rail ends need to be threaded onto the shift rails. The Igus bushings should be install prior to threading them to the shift rails. Install the brass completely onto the shift rail and then back it off two complete turns, the Igus bushing to be located towards the top of the transfer case.









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The actuators do have a slotted hole on one side. Make sure that these are bolted together symmetrical. Use the thin lock nut to secure.





Assemble the shift actuator bracket onto the brass rod end with the slotted portion going on the shift rail closest to the transmission input side of the transfer case.

With the shift actuator assembled onto the brass rod ends, insert the 3/8" clevis pins and secure with

the two supplied cotter pins.



Loosely assemble supplied heim onto the 5/16"-24 cable threads. NOTE: The cable only mounts to the transfer case in one direction. Inspect the cable and find the end with a grove on in. The opposite end has a threaded section for mounting to the handle. Connect the groved end to the Heim joint. Attach the cable onto cable mounting bracket with supply U-bolt and 5/16"-24 thin locknuts.







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Adjust the heim so that it travels approximately 1/8" past the 4L position and secure using jam nut. Attach heim to actuator bracket using supplied 302207 bolt and thin locknut.

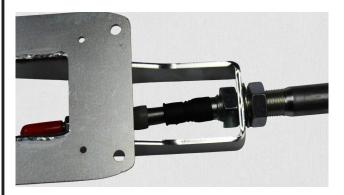
Assemble the Igus bushings into the handle pivot bore if not installed. Slide the handle into the shifter box and use the shoulder bolt lock nut and one flat washer to secure.

On our older design shifter box: Remove one of the 1" cable nuts from the cable and discard leaving the star washer and one nut on the cable. Install the cable retainer and then the cable barrel onto the cable; thread on fully. Use the 2 button head bolts to secure the cable barrel and cable to the shifter box. Install the second heim joint as far as the threads allow and jam nut it in place.



On our new design shifter box: Remove one of the 1" cable nuts from the cable and insert the cable into the hole of the shifter box. Re-install the

nut and start with the cable centered on the new box. Install the second heim joint as far as the threads allow and jam nut it in place. Bolt the heim joint to the handle. The handle will need to at a 90 degree angle from the shift box top plate, adjustment sould be done by adjusting the the large cable nuts.



After attachment to cable shifter housing, cycle though all shift points and adjust if shift lever hits the inside of the shifter housing.





Install boot retaining ring into supplied shifter boot. Attach shifter housing to vehicle floor using supplied 1/4" fasteners. Attach shifter boot to shifter housing using (4) supplied self tapping screws. Install shift knob jam nut and shift knob.



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