



TRAIL-GEARTM

Off Road Supply

Twin Stick Top Shift, 107500-1-Kit



KIT Contents:

Twin Stick O-Ring	2.0
Twin Stick Shift Base	1.0
Twin Stick Shift Key	2.0
Twin Stick Lever L	1.0
Twin Stick Lever R	1.0
Twin Stick Spring Pin	2.0
Twin Stick Vent	1.0
Gasket, T-Case Shifter	1.0
Shift Knob 2WD/4WD	1.0
Shift Knob, 4.70	1.0

Suggested Tools:

12mm Ratchet
6mm Allen Wrench
Long Pin Punch
Parts Magnet
Hammer
Needle Nose Pliers

If you have any questions during the installation of your shifter, please call us for assistance at 559-252-4950.

Before Installation:

Remove the transfer case from the vehicle. *Note* that if you have a dual case, it will need to be separated from the front case.



Step 1

Place the case on a bench and remove the four bolts on the shifter with the base and gasket using a 12mm ratchet.



Step 2
Remove the detent plug on the drivers side of the t-case using a 6mm allen wrench.



Step 3
Using a magnetized long pin punch, remove the detent spring. If a magnetized pin punch is not available, roll the t-case over for the spring to slide out of the hole.



Step 4
Using a magnetized long pin punch remove the detent ball.



Step 5
Slide the drivers side shift rail forward until it stops. Insert a magnet under the shift rail to catch the roll pin.



Step 6
With the magnet in position under the shift rail, tap out the roll pin with a punch.



Step 7
Using needle nose pliers, remove the roll pin from the magnet. If the pin falls into the case, roll the case over and remove it.



Step 8
Hold the shift fork in place with needle nose pliers. With a long pin punch, start sliding the shift rail out.



Step 9
Still holding the needle nose pliers in place slide the shift rail out completely.



Step 10
Using a magnetized long pin punch remove the interlock pin from the transfer case.

Reassembly:



Note

When reinstalling, *note* the orientation of the shift rail. If the shift rail is inserted into the t-case incorrectly, the t-case will not shift properly. The three grooves on the shift rail should be facing out with the one groove on the opposite side facing in.

Step 11
Using the needle nose pliers, hold the shift fork in place while sliding the shift rail into position. Be sure to maintain the proper orientation of the shift rail (see note above).





Step 12
Align the shift rail hole and the shift fork hole with each other using a long pin punch.



Step 13
Once aligned, remove the pin punch and insert the roll pin using the needle nose pliers.



Step 14
Firmly tap in the roll pin until it is nearly flush.



Step 15
Turn the t-case over. Drop the detent ball into the hole.



Step 16
Drop the detent ball spring into the same hole.



Step 17
Insert the detent plug into the hole using a 6mm allen wrench. Turn the t-case back over.

Step 18

Using the original shifter base bolts, install the new gasket and twin shifter on the top of the t-case. Torque the bolts to 8-11 ft./lbs. with a 12mm ratchet.



Step 19

When re-installing the t-case into the truck, make sure to sufficiently clearance the transmission tunnel, seats, or anything else that may come in contact with the shifter. Failure to do so may result in contact with the shift levers and can cause the shifter base to crack or break.



These instructions are designed as a general installation guide. Installation of many Trail-Gear Products require specialized skills such as metal fabrication, welding and mechanical trouble shooting. If you have any questions or are unsure about how to proceed, please contact our shop at 559-252-4950 or seek help from a competent fabricator. Using fabrication tools such as welders, torches and grinders can cause serious bodily harm and death. Please operate equipment carefully and observe proper safety procedures.

Rock crawling and off-road driving are inherently dangerous activities. Some modifications will adversely affect the on-road handling characteristics of your vehicle. All products sold by Trail-Gear Inc are sold for off road use only. Any other use or application is the responsibility of the purchaser and/or user. Some modifications and installation of certain aftermarket parts may under certain circumstances void your original dealer warranty. Modification of your vehicle may create dangerous conditions, which could cause roll-overs resulting in serious bodily injury or death. Buyers and users of these products hereby expressly assume all risks associated with any such modifications and use.