



TRAIL-GEARTM

Off Road Supply

Toyota V6 Adapter Plate, 100086-1-KIT



KIT Contents:

100086-1	Dual Adapter, V6 88-95	1.0
100088-1	Coupler, V6 23S-23S	1.0
100089-1	Bolt, M10-1.25x35	6.0
100091-1	Bolt, M10-1.25x30 Flat Head Allen Bolt	2.0
100092-1	Seal	1.0
100093-1	Seal Adapter	1.0
181004	Tube, Ultra Grey silicone	1.0
100086-1-INS	Product Instructions	1.0

Suggested Tools:

Two- 14mm Wrench
12mm Socket
14mm Socket
17mm Socket
6mm Allen Head Driver
3/8" Ratchet
Rubber Mallet
Seal Remover
Blue LocTite®
Parts Cleaner Spray

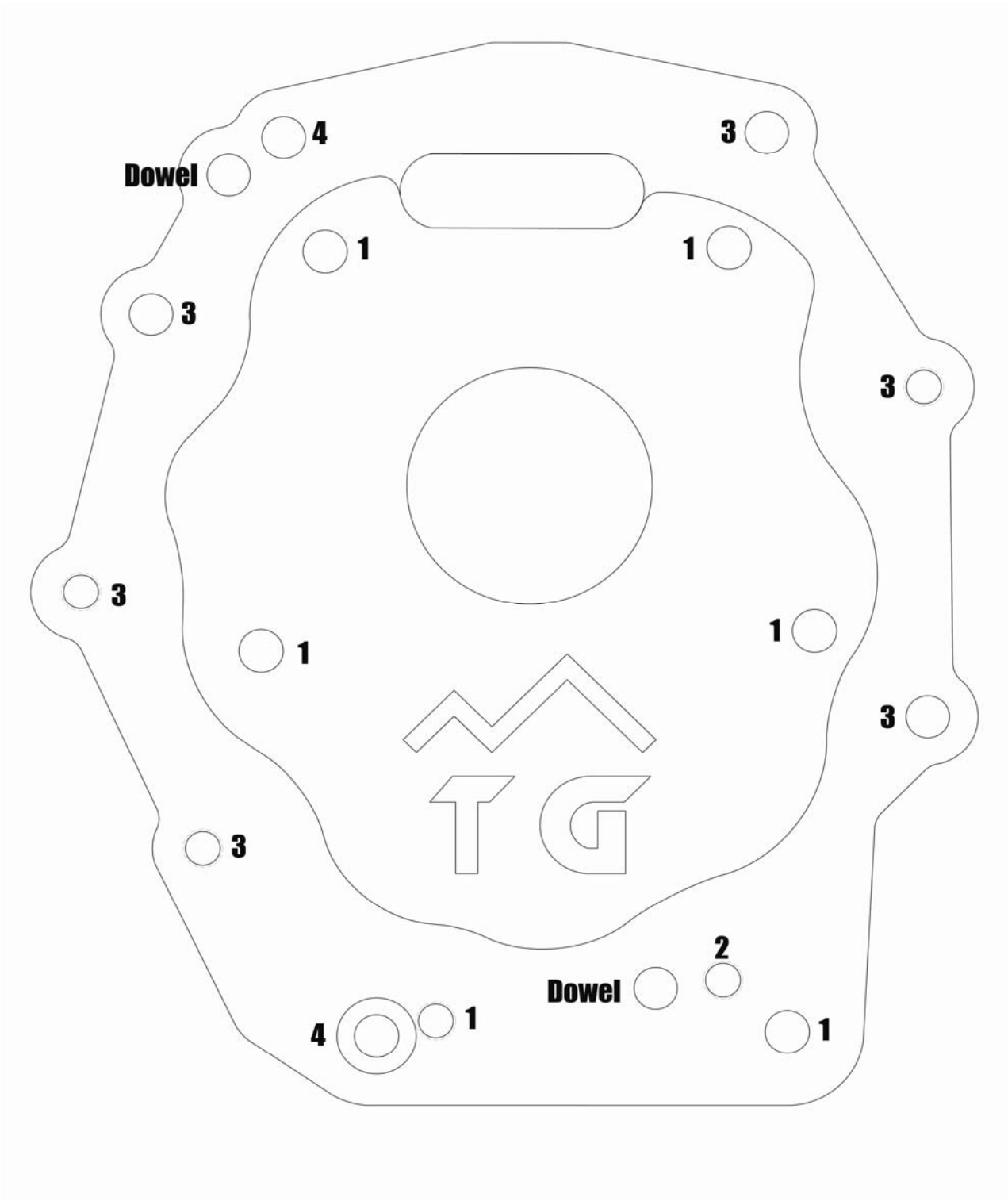
Additional Items Needed:

Single or dual, gear driven transfer case
Replacement single or dual V6 crossmember
Speedometer extension (dual 1988-1991 only)
4Cyl VSS (1992-1995 only)
Second transfer case mount (dual only)
2-3 Quarts of 90W gear oil

If you have any questions during the installation of your kit, please call us for assistance. These instructions were photographed with the transmission out of the truck. It is **not** necessary to remove the transmission in order to install this adapter. Only the transfer case needs to be removed from the truck for installation.

Before assembling adapter plate:

Remove front and rear drive shaft
Drain oil from transfer case
Remove transfer case shifter and boot
Disconnect speedometer cable or sensor
Disconnect 4 wheel drive indicator
Support transmission with a transmission jack
Remove transfer case crossmember
Remove 9 bolts holding stock case to the transmission using 14 mm socket
Remove transfer case



Bolt Position Table:

Item:	Description:	Quantity:	Bolt #:
100089-1	Bolt, M10-1.25x35	6.0	1
	Factory Bolt, Short (35mm)	1.0	2
	Bolt, Factory Used	6.0	3
100091-1	Bolt, M10 -1.25x30 Flat Head Allen Bolt	2.0	4

Step 1



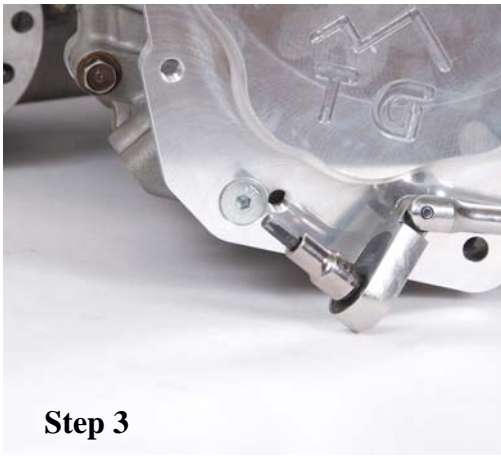
Apply silicone to face of single or dual transfer case assembly.

Step 2



Install adapter plate on face of transfer case, using 4 M10-1.25x35 bolts (provided). We recommend applying blue LocTite® to threads before installation. Torque four plate bolts to 30 ft. lbs.

Step 3



Install M-10-1.25x30 allen head bolt using blue LocTite® torque to 30 ft. lbs.

Step 4



Install M-10-1.25x 35 bolt using blue LocTite® torque to 30 ft. lbs.

Step 5



Remove rear transmission seal using a seal remover or claw hammer.

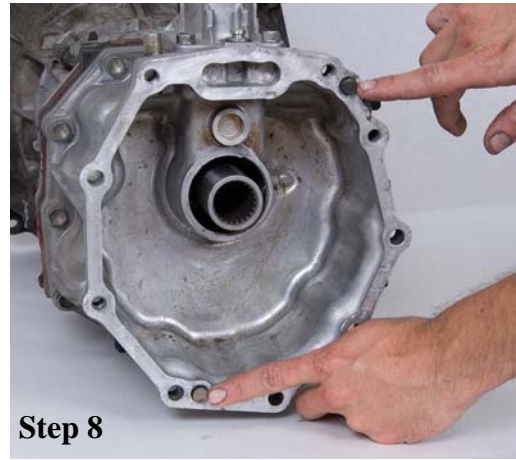
Step 6



Using degreaser, clean the rear transmission seal surface.



Slide coupler into place on the back of the transmission.



Ensure two dowels are in place in the transmission. If dowels are in the transfer case move them to the transmission.



Apply silicon to smaller end of seal adapter



Install Seal Adapter into rear of transmission.
Gently seat seal adapter into place using rubber mallet



Step 11: Apply silicone to rear face of transmission



Using 6 of the 9 stock bolts, 1 allen head bolt and 2 M10-1.25x35 bolts, attach transfer case to transmission. Use blue LocTite® on all bolts. Tighten bolts to 30 ft. lbs.



The second allen head bolt should be installed in position shown on the upper right (passenger) side.

After Assembling Adapter Plate & T/Case(s):

Install replacement v6 dual transfer case crossmember

Reconnect 4 wheel drive indicator

(This may require cutting and splicing connector from original case)

1988-1991 Application, reconnect speedometer cable

(Use speedometer extension cable for dual case applications)

1992-1995 Application will need a replacement VSS for the transfer case

Reattach front and rear drive shafts (drive shaft lengths may need to be changed)

Fill transfer case with 90W GL5 gear oil, check gear oil level in transmission

Reinstall transfer case shifter and boot

Drain and replace transfer case oil after first 1,000 miles and every 30,000 thereafter

Full synthetic gear oil may be used.



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.

Revised 10/20/08

Copyright 2008 Trail-Gear Inc.

www.Trail-Gear.com