

Telephone: (800) 350-2223 Fax: (805) 238-4201 PAGE 1 OF 16 Page Rev. Date: 06-12-20

P/N: RUBI-TI

RUBICRAWLER - JEEP TJ W/NP231 & NÝ241

KIT CONSISTS OF: No. Qty Part No. **Description** RUBICRAWLER **GEAR BOX** 1 42R-T TWIN STICK SHIFTER KIT 1 Kit Includes: 4 720073 10MM-1.5 X 25 MM FLANGE BOLT 2. 1 303303 RETAINER- SHIFTER BODY BARREL 3. 303305 BARREL-TWIN STICK CABLE 4. 1 303309-2 CABLE-ATLAS SHIFTER 48" LENGTH 1" TRAVEL 5. 4 303312 BUSHING- IGUS 3/8" 6. 4 ROD END- FEMALE 1/4"-28 303313 7. 6 303341 BOLT- 1/4"-28 X 5/8" B.H.C.S. 2 Access plug 8. 303343 9. 1 303344 Pivot Dowel Pin (Ground) 2.25" 10 15' 303345 Sealant - Butyl Tape 303346 BOLT- 1/4"-28 X 5/8" S.H.C.S. plain 11 12 3 340615 BOLT- 1/4"-20 X 5/8" B.H.C.S. 13 1 42R441 Bracket - RubiCrawler cable mount 14 42R460 BRACKET- TJ HEAT SHEILD 1 15 3 42R617 BOLT- 1/4"-20 X 3/8" B.H.C.S. plain 16 1 42R700 SHIFTER BOX-TJ RUBICRAWLER 17 2 42R701 PIVOT PIN MOUNT 42R702 BOTTOM COVER 18 1 19 1 42R703 HANDLE MOUNT- DRIVER SIDE 20 1 42R704 HANDLE MOUNT-PASSENGER SIDE 42R705 21 1 KNOB-TJ RUBICRAWLER 22 1 42R706 KNOB- NP231 LEVER- TJ NP241 TCASE SHIFT 23 1 42R707 24 1 42R708 LEVER-TC NP231 25 42R709 1 SPRING- WAVE 42R710 SHIFT KNOB-TJ 241 26 1 27 1 42R715 BARREL- CABLE TJ- RUBICRAWLER SHIFTER CABLE- 2" TRAVEL 28 1 42R725-1 29 42R726 HEAT SHIELD- FIREPROOF SLEEVE 1 30 1 42R730 BRACKET- T-CASE SHIFTER 31 42R735 BOLT- 1/4"-20 X 1" H.H.C.S. Grade 8 1 BOLT 8mm X 1.25 X 14mm H.H.C.S. zinc 32 42R740 33 42R745 PLUG 7/16" BLACK 6mm X 1.00 X 16mm H.H.C.S. GRD 8.8 34 4 720057 35 4 722513 LOCKWASHER 1/4" PLT.

NYLON LOCKNUT 1/4"-20

F.H.C.S. 3/8"-16 X 1-1/4"

10MM FLAT WASHER

10MM -1.5X 35MM SHCS

SEALANT ATF RTV BOLT M10 X 1.5 X 30 BHCS

1/4" USS FLAT WASHER PLTD.

36 1

37 2.

38 39 1

40 1

41 4

42

2

722514

722523

723753

42R350

42R540

720015

10 720028

Optional Items:

Part No. Description

42R360 - CHRYSLER ATF+4 (Qty. 4 Recommemded) 42R800 - RUBICRAWLER CONTROL MODULE 300474 - Rubber Front Output Yoke Washer

> This kit includes shift knobs for both the NP231 and NP241transfer case. One knob and one shift lever will not be used.

Tool List:

FULL SET OF HAND TOOLS INCLUDING:

6 mm ALLEN WRENCH

16 mm DEEP SOCKET

8mm HEX BIT SOCKET

3/8" DRIVE RATCHET

15/16" WRENCH

5/32" ALLEN WRENCH

3/8" TORQUE WRENCH

(25 TO 40 FT.-LBS. REQUIRED)

- GASKET SCRAPER
- SMALL BRASS WIRE BRUSH
- CLEANING SOLVENT

(PAINT THINNER, ACETONE, MEK ETC) DO NOT USE DEGREASERS LIKE SIMPLE GREEN

STUBBY 9/16" WRENCH REQUIRED,

RATCHETING RECOMMENDED.

- T20, T30, AND T45 TORX BIT SOCKETS, AND A LONG T40 TORX BIT SOCKET
- 15/16" WRENCH
- 5/32" ALLEN WRENCH
- 10. SLIDE HAMMER
- NEEDLE NOSE VICE GRIPS



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Interior Disassembly:

- 1. Disconnect the negative terminal of the battery.
- 2. Remove the cup holder if it is removable, depending on the style of your console.
- 3. Remove the transmission shift handle by grabbing firmly and pulling straight up until it pops off.
- 4. Using a small flat head screw driver, remove the tranmission shift indicator cover. Once it pops loose you must disconnect the light on the bottom side of the cover to completely remove it. (See Figure 9 and 10)
- 5. Use a 10mm socket to remove the two console bolts located under the cup holder and under the shift indicator panel.
- 6. Move transfer case handle to 4wd-Low and then pull the con-
- 7. Using a flathead screwdriver, remove the wire loom connector clip from the transfer case shifter bracket. (See Figure 11)
- 8. Using an 8mm socket, remove the five transfer case shifter bracket bolts. Make sure to save these bolts as they will be
- 9. Using a 10 mm socket, remove the four bolts securing the shifter pivot assembly. (See Figure 12) You will have to lift up the carpet to get to these bolts. The bracket will fall when the bolts are removed if it isn't held. Seal the bolt holes with the four supplied black plastic plugs.
- 10. Remove the transfer case shifter and the linkage by lifting it up and out through the floor. (See Figure 13)



Figure 12: Shifter Pivot Assembly Bolts



Figure 13: Remove Shifter Linkage



Figure 9: Transmission Shift Indicator



Figure 10: Indicator Light



Figure 11: Remove Wire Loom Connector Clip



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Disassembly/Preparation For Assembly:

- 1. Use a jack to support the transmission pan to support its weight. Take caution to avoid denting the pan and damaging the transmission.
- 2. Remove the four M10 foot-mount nuts from the crossmember.
- 3. Remove crossmember and any aftermarket skid
- 4. Remove both drive shafts. Disconnect the breather hose, position switch connector, and the vehicle speed sensor (VSS) connector from the transfer case. (See Figure 2) Disconnect the wiring harness from the tailhousing by prying up the retaining clip on the driver's side of tailhousing. Also disconnect the shift linkage rod.
- 5. Remove the foot-mount from the tailhousing of the transmission by unbolting the four hex head bolts and sliding off of the exhaust hanger.
- 6. Remove the transfer case from the vehicle by removing the 6 nuts from the transfer case studs. Using a stubby 9/16" wrench makes this part much easier.
- 7. Remove the spud shaft by following one of the suggested methods below. The end of the spud shaft is tapped M10-1.5.
 - i. Slide Hammer -(factory service manual method): Note: aggressive use may be necessary.
 - ii. Custom Puller (recommended method)- Make a custom device to span the tailhousing without contacting the end of the shaft. Thread a M10x1.5 bolt through tool and into the spud shaft. (See Figure 3)
- 8. Prepare a drip pan. Removing the tailhousing will result in 2-4 quarts of transmission fluid loss depending on the angle of the drivetrain.



Figure 1: Uni-Raise



Figure 2: Transfer Case Connectors



Figure 3: Custom Puller Method



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- Remove the transmission tailhousing by removing the 11 hex head bolts. (See Figure 5)
- 10. Allow oil to drain for 10 minutes...
- 11. Insert a CLEAN shop rag into the back of the transmission as shown in the picture below to prevent contaminates from entering your transmission. (See Figure 6)
- 12. Thoroughly clean the rear face of the transmission. Use solvent and a brass wire brush to clean all of the RTV off of the mating face and take caution to avoid any debris from entering the transmission or transmission bearing. It may be necessary to trim excess RTV that protrudes up from the transmission pan onto the rear face of the transmission. (See Figure 7) Excess RTV can prevent the Rubicrawler from fully mating to the transmission face.
- Remove the spud shaft retaining clip from the groove near the end of the transmission output shaft. Exhaust shield bolts on below the two lower passenger side bolts which can be seen in Figure 25. Torque all bolts to 40 ft-lbs.



Figure 5: Transmission Tailhousing



Figure 6: Rag Placement



Figure 25: Heat Shield



Figure 7: Clean Transmission



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RubiCrawler Installation:

- Remove the red plug and O-ring, from the Rubi-Crawler as seen in Figure 23. Remove the rag from the transmission and discard the red plug.
- 2. The RubiCrawler should be test fit into the vehicle by installing it without RTV to make sure the Rubi-Crawler flange face touches the transmission face completely. This is to insure that the output shaft is not too long. The product was designed for a standard output shaft stick-out, but the stick-out could vary which would cause a major problem. If you experience a problem, DO NOT proceed, call Advance Adapters. The next two steps are time sensitive and should be completed in under 10 minutes.
- 3. Reclean the transmission face and the front face of the RubiCrawler using solvent. Apply an 1/8" bead of the supplied Chrysler RTV to the RubiCrawler as shown in Figure 24.
- 4. Reinstall the O-ring as shown in *Figure 24.* This is very important for the RubiCrawler and Transmission lubrication circuits.
- 5. Lift the RubiCrawler into place, rotate the output shaft until the splines line up and the Rubi-Crawler slides on, make sure it slides on by hand far enough to squish the RTV. Fasten the Rubi-Crawler with the 10 supplied 10 mm socket head cap screws using an 8 mm hex bit socket and the 10mm button head cap screw that bolts on under the shifter box using a 6 mm hex bit socket. The supplied heat shield bolts on the two lower passenger side. The bolts can be seen in FIG 25. Torque all bolts to 40 FT.-LBS.



Figure 23: Red Plug



Figure 24: RTV Pattern



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RubiCrawler Shifter Cable Gear Box End Adjustment:

- Install the RubiCrawler shifter bracket to the flange of the RubiCrawler case using two 8 mm bolts and 1/4" washers supplied with the kit.
- 2. Verify that the RubiCrawler cable travels an 1/8" past the mounting hole on the RubiCrawler shift lever for both directions of travel. Use a crescent wrench to shift the Rubi-Crawler while rotating the output shaft. (See Figure 28)also see page 8.
- Using a medium strength thread locking compound and the supplied 1/4-28x5/8" button head cap screw, bolt the heim joint of the RubiCrawler shift cable to the RubiCrawler shift lever.

Transfer Case Installation and Transfer Case Shifter Cable Gear Box End Adjustment:

- Bolt the transfer case shifter bracket to the side of the RubiCrawler shift housing using the supplied 6mm hex head bolts and 1/4" lock washers. (See Figure 26)
- Route the transfer case shifter cable through the lower transfer case shifter bracket hole with a jam nut on both sides of the bracket and then completely thread the heim joint on to the end of the cable and tighten the jam nut. This cable should already be routed under the transmission cooler lines. (See Figure 27)

NOTE: If you purchased the optional Advance Adapters RubiCrawler Control Module (PN: 42R800), now is the best time to install it. Refer to the RubiCrawler Control Module installation instructions for further information.



Figure 26: Transfer Case Shifter Bracket



Figure 27: Cable Shifter Routing



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- The stock studs from the transfer case are too long to bolt up to the RubiCrawler. You need to grind the end of the studs down 3/16" (to the first thread), When you grind the studs make sure to protect the input shaft area from debris.
- (NP241 units only) With the transfer case still out of the vehicle, remove the shift lever. The torx bolt retaining the stock shift lever is difficult to access due to front yoke clearance. Two recommended methods for removing the bolt:
 - i. Use long needle nose vise grips to grab the head of the bolt and attempt to loosen. (See Figure 29)
 - ii. Use an 1-1/8" socket and impact gun to remove the yoke nut and yoke. Do not allow any contaminants to enter the transfer case while the yoke is off. Use a long T40 Torx bit and remove the shift lever bolt and then the shift lever. To reinstall the yoke, install a new rubber yoke washer, Chrysler PN: 04210973, in to the yoke splines. Apply a bead of silicone to the inside of the yoke. Apply ATF to the lip of the yoke seal, slide yoke over the rubber washer until it bottoms out in the case. Secure using a new yoke nut, Chrysler PN: 04167924, this is very important as the yoke nuts are designed for one time use, and torque to 110 ft-lbs. (See *Figure 31*)
- Install the new supplied shift lever with the supplied M8-1.25x14 hex head bolt and 1/4" washer (use a medium strength thread locking compound on the threads) and see Figure 30 for correct lever orientation. Torque to 20 ft-lbs.
- Lubricate the lip seal on the back of the RubiCrawler with ATF+4. Shift the transfer case into any gear other than neutral. Install the transfer case back into the vehicle by lifting it into place and rotating the rear yoke until the splines engage. Start all nuts before fully indexing the transfer case in to the Rubi-Crawler.

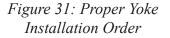




Figure 29: Shift Lever Removal with Needle Nose Vise Grips



Figure 30: New Transfer Case Shift Lever Orientation NP241





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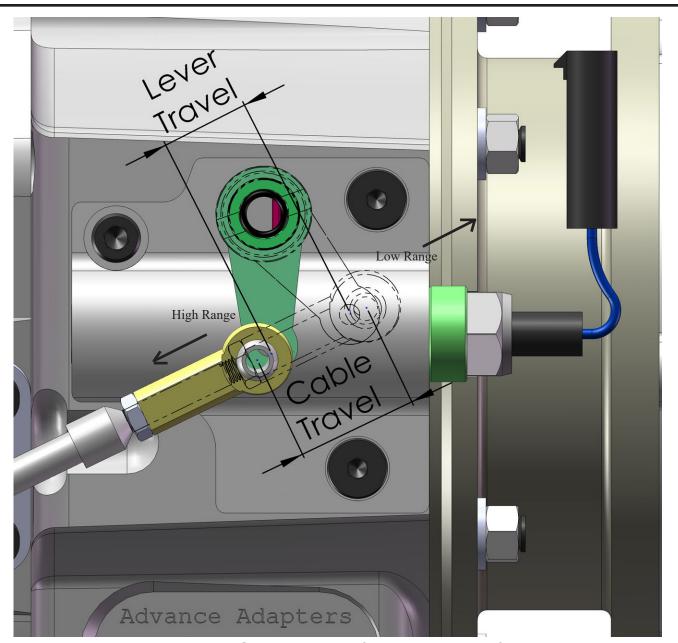


Figure 28: RubiCrawler cable shifter adjustment verification. See Step 2 of the RubiCrawler Shifter Cable Gear Box End Adjustment



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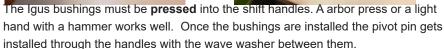
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Shifter assembly components









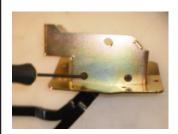














Slide the pivot pin mounts over the pivot pin, make sure the pivot pin is flush with the outside of the pivot pin mount. Use the small set screw to lock the pin to the mount. Check the orientation of the handles and set the handle assembly into the shift housing, the one socket head bolt mounts the rear pivot pin mount to the housing and the other three holes use button head bolts.



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Remove the double nuts on one end of the cable and install the heat shield. reinstall one of the nuts and the star washer. Take the long barrel retainer and slide the retainer on it, verify the retainer is orientated correctly to bolt to the shifter body. Thread the barrel onto the cable and then install the heim joint to the cable end.



Install the short cable barrel and then mount to the shifter housing. Aline the heim joint with the access hole on the shifter housing and the handle, then bolt together with the button head bolt, The plastic cap can be installed after.





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RUBICRAWLER - JEEP TJ (2003-2006) NON-RUBICONS W/ TWIN STICK SHIFTERS

Shifter Box Assembly End Cable Adjustment:

- 1. Partially thread the RubiCrawler shift cable into the passenger side barrel mount of the shifter assembly by rotating the cable barrels. (See Figure 18)
- 2. Install the supplied heim joint completely onto the cable that was just mounted and tighten the 1/4-28 jam nut. (See Figure 19)
- 3. Apply a medium strength thread locking compound to the 1/4-28x5/8" button head cap screw and bolt the heim joint just installed to the passenger side shift lever. (See Figure 19)
- 4. Rotate RubiCrawler cable barrel until the shift knob lines up with the edge of the cup holder in its furthest back position, see Figure 20. Verify that the RubiCrawler shift lever does not contact the console in its furthest back position.
- 5. Install the nylon access plug to the passenger side of the shifter box assembly.
- 6. Rotate the transfer case cable barrel until the center of the knob is 1" from the console when in its lowest position. (See Figure 21)
- 7. Tighten the three 1/4-28x5/8" bolts that retain the cable barrel retaining clip. (See Figure 22)
- 8. Using a 15/16" wrench, tighten the 5/8" jam nuts on the shift cables.
- 9. Bolt on the bottom cover of the shifter box using the supplied 1/4-20x3/8" button head cap screws. **NOTE**: Make sure you start all 3 before final tightening. Use RTV for a water tight seal.



Figure 22: Tighten Retaining Clip



Figure 18: Barrel Mount



Figure 19: Bolt in Heim



Figure 20: RubiCrawler Shift Knob in Furthest Back Position



Figure 21: 1" from console



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Note: Do not forget to refill the transfer case if any fluid spilled.

- 10. Make sure that transfer case fits flush to the RubiCrrawler box and you do not pull the units together by tightening the nuts, push it on completely first by hand. Use a stubby 9/16" wrench to torque the transfer case nuts to 25-30 ft-lbs.
- 11. Adjust the transfer case shifter cable by adjusting the two 5/8" nuts so that the heim travels an 1/8" past the shift lever for both directions of travel. (See Figure 33)
- 12. Attach the cable shifter heim to the previously installed shift lever (See Figure 30) using the supplied 1/4-20x1" hex head bolt and a nylock hex
- 13. Reinstall the transfer case breather hose, position switch, and the vehicle speed sensor connectors.
- 14. Route the new RubiCrawler cable as shown in the picture. (See Figure 14)
- 15. Apply butyl tape around the perimeter of the shifter box as shown in Figure 15.
- 16. With the aid of another person, install the shifter box assembly ensuring that the transfer case cable is routed under the transmission cooler line. (See Figure 16)

17. Bolt the shifter box assembly down using an 8 mm socket and the previously.

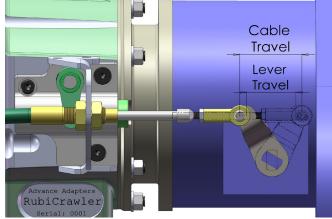


Figure 33: Transfer Case Cable Adjustment



Figure 14: RubiCrawler Cable Routing



Figure 15: Apply Butyl Tape

Figure 16: Shifter Box Assembly w/ T-Case Cable



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- 18. Move the transmission shifter into the "Neutral" position with the twin stick handles in the vertical position. Point the front of the console towards the passenger side, then rotate the console CCW as you maneuver it down over the twin stick handles and transmission shifter. Bolt the console down using a 10mm socket and the two bolts removed earlier. Install the shift indicator back on to the console making sure to plug in the indicator bulb before snapping it back in to place. (See Figure 17)
- 19. Install the new shift knobs using the supplied 3/8-16x1-1/4" flat head cap screws. The transfer case knob mounts on the driver side, and the RubiCrawler knob mounts on the passenger side.



Figure 17: Console Install

Reassembly:

- 1. Install the foot mount with the four supplied 10 mm hex head bolts and washers.
- Reinstall drive shafts and skid plates.

Transmission Fluid Re-Fill:

Caution: under filling or over filling can result in damage to your transmission. Only use Mopar approved, ATF+4 to refill the transmission.

- Park on a flat surface and apply parking brake. 1.
- Start the engine and let the vehicle idle.
- Apply the brakes and shift the transmission through all of the gears, then back to NEUTRAL and leave the vehicle idling.
- 4. Check the transmission fluid level with the dipstick. Using a clean funnel, add ATF+4 transmission fluid until the oil level is between the two holes marked "COLD". (Check to see if the transmission fluid level on the dipstick is even on both sides. If one side is noticeably higher than the other, the dipstick has picked up some fluid from the fill tube. Allow the fluid to drain down the transmission fill tube and recheck.
- Now that the fluid level has been approximately achieved, drive the vehicle 5-10 miles making sure to manually shift the transmission through all gears.
- Recheck the fluid level, with the transmission at operating temperature, vehicle idling on flat ground, the parking brake set, and the transmission in neutral. Add ATF+4 to raise the fluid level to a point between the two holes marked "HOT". Do this slowly so that the transmission fill tube has time to drain and gives accurate readings.

NOTE: For proper operation of the RubiCrawler, refer to the Shifting Procedure/Warranty paperwork and the yellow tag attached to the RubiCrawler case.



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Final Shift Lever Adjustment:

Check the position of the levers through the console, adjustments can be made by adjusting the cable barrels below the shifter box assembly. For proper adjustment and adjusted clearance see Figures 34 & 35. The transfer case shift lever should change to approximately. 1.25" from the console after installation and final adjustment.



Figure 34: Proper Adjustment in Farthest **Forward** Position



Figure 35: Proper Adjustment with transfer case in 4Low and the RubiCrawler in High



Figure 32: New Transfer Case Shift Lever Orientation NP231



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SHIFTING INSTRUCTIONS

Transfer Case Shifting: The transfer case can be shifted from two wheel drive to 4 wheel drive HIGH while the vehicle is moving. To shift the transfer case into four wheel drive LOW, you must shift the transmission to neutral and the vehicle speed must be below 2 mph. The transfer case can be shifted at a complete stop but it is easier to shift the unit when at a very slow roll.

RubiCrawler Shifting: The RubiCrawler must be shifted when the transmission is in neutral and the vehicle speed is less than 2 mph. The RubiCrawler can be shifted at a complete stop but it is easier to shift the unit when at a very slow roll. Do NOT try to force the shift levers as serious damage to the shifters or unit can occur.

Serious damage to the RubiCrawler can occur if the proper shifting instructions are not followed.

Shift Knobs and Shift Patterns

The shift knobs and patterns can be seen below and on the next page.



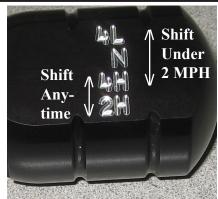


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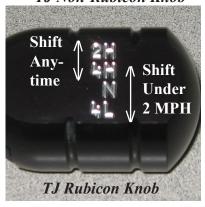
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TJ Non-Rubicon Knob





TJ Shift Knobs

Maximum Speed: The Rubi-Crawler should not be operated at engine speeds above 5000rpm when the transmission is in overdrive. This over speed condition will cause damage to the bearings and geartrain in the RubiCrawler, in addition to possible damage to other components in the vehicle.

ADVANCE ADAPTERS, INC. LIMITED WARRANTY

The RubiCrawler is guaranteed against defects in workmanship and materials for one year. This warranty begins from the date the unit is shipped from Advance Adapters. We log all units with a serial number at time of shipping. The wannanty is void (as determined by Advance Adapters, Inc.) by misuse, abuse, improper mainenance or installation and or alterations to the product.

These guarantees do not cover any outside labor, shipping, towing, normal wear or any other unforseen events that that may occur due to failure of a unit. Advance Adapters reserves the right to repair or replace any product.

Do not disassemble or attempt to repair the RubiCrawler as doing so will void the warranty, just return the product as furthet described below.

All returns must have a returned goods authoriztion (RGA#) prior to shipping the product, and returns are to be sent prepaid freight. Please call 1-800-350-2223 and the sales department can assist you.

<u>Warranty will be voided if</u> the proper transmission fluid levels are not maintained, if any transmission fluid other than ATF+4 is used, or the product has not been properly installed and instructions have not been followed.