

## TransTech III Quick Reference Card

1. Add the correct amount of fluid to the unit's tank or verify that it contains a minimum of 12 quarts.  
-Verify that waste tank has oil up to the **0** mark. If not, see prime procedure (page 3-1 of Manual).  
-Verify that new transmission oil temperature is above 50 degrees Fahrenheit.
2. Start engine and let run till it reaches operating temperature, then turn engine off.
3. Locate the vehicle's transmission cooler lines connecting to the radiator, cooler or transmission.
4. Disconnect one cooler line at the easiest connection point and install the proper adapters onto the disconnected lines. Attach the *FLOW DIRECTION INDICATOR LOOP* ('H' adapter) to both hose adapters. NOTE: The ball valve must be **closed**. See photo on page 4-3 of User Manual.
5. Attach the unit to the vehicle's battery by connecting the unit's red battery clip to the positive (+) battery terminal and the black battery clip to a solid ground away from the battery.
6. Start the vehicle's engine. Note the direction of dirty oil flow, then **open** the ball valve. The oil will now re-circulate. Check the fluid level of the transmission.
7. Attach the units hose marked "DIRTY OIL" to the "H" adapter fitting that indicated flow from the vehicle (dirty side). Attach the hose marked "CLEAN OIL" to the side of the adapter that indicated flow to the vehicle. **Close** the ball valve. The transmission's fluid will be received into the machine and re-circulated back to the transmission. **VERIFY good bypass flow** before beginning service. Be aware of Low Flow Vehicles: Toyota, Chrysler, Mitsubishi, Ford Explorer and Ranger need to be in neutral, with engine rpm held at 1800 the entire service. Feel both lines for heat. When in DRAIN mode, the vehicle's transmission will pump the old transmission oil into the units waste tank.

### **Filter Change:**

**If the vehicle's transmission filter is to be replaced, perform the following steps before removal of the transmission fluid pan. If not, go to step 9 after pushing the CHANGE FLUID button.**

- a) Follow steps 1-6, press DRAIN button on the unit's control panel. Let the engine run until the alarm on the unit sounds and the Low Vehicle Fluid and the Engine Stop lights flash. Stop the engine.

### **CAUTION**

**Do not let engine run for over one minute after the alarm has sounded indicating a low fluid level in the transmission. Running the transmission in a dry condition can cause serious damage to internal components.**

- b) Replace the vehicle's transmission fluid filter and re-install the transmission's oil pan as per shop's repair manual and manufacturer's recommendations.
- c) Press the CHANGE FLUID button, (Do not start engine first), Let the machine fill the vehicle's transmission until the alarm sounds.
8. Start the vehicle's engine. Continue until fluid from the unit's clean oil tank has depleted completely.
9. When the CHANGE FLUID button is pushed, the ENGINE START light should remain on solid. The DRAIN and FILL light will also be on solid. The service is now in progress.
10. Reference : **Two Quart low vehicle warning**  
If an alarm sounds during the Change Fluid mode (rapid beeping sound), and the ENGINE STOP light is flashing, the transmission is 2 qts or more low. Follow this procedure:
  - a) Stop vehicle's engine.
  - b) Press the STOP button ONCE, (unit's pump will continue to run).
  - c) Allow unit to fill transmission fluid to proper level, (pump will slow automatically).
  - d) Start the engine when the alarm sounds and the ENGINE START light is flashing.
  - e) Let engine run till service is complete.

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11. Press the STOP button when the alarm sounds at the end of the service and the complete light is on.
12. Let engine run for one minute, then check the transmission's fluid level.

## If level is low:

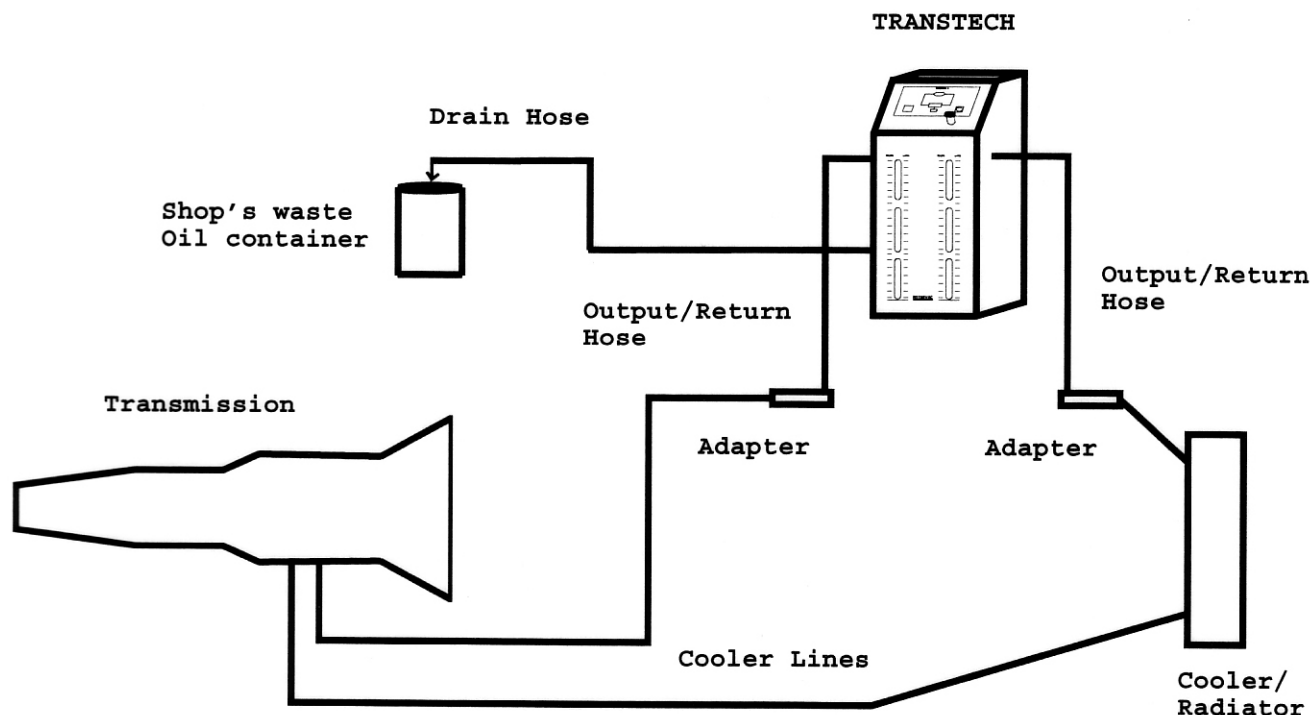
- i) Press and hold the FILL button for approximately 10-15 seconds. Check fluid level.
- ii) Re-check fluid level, repeat step "i)" if necessary.

## If level is too high:

- a) Press and hold the DRAIN button for 10-15 seconds.
- b) Re-check fluid level, repeat step "a)" if necessary.

13. Disconnect hoses from TRANSTECH and connect the vehicle's cooler lines to their original connection ports.
14. Start the engine, check cooler lines for leaks, and re-tighten as necessary.
15. Step on the foot brake firmly, then slowly shift the gear lever to Low Gear (first gear) then back to Park. Check transmission's fluid level.
16. Once service has been completed, drain unit's waste tank completely.
  - a) Insert unit's drain hose into suitable container or shop's waste oil container.
  - b) Press the EMPTY WASTE button, let unit run until the pump stops automatically.

NOTE: Do not leave unit with oil in tanks (above the "0" line) after the service is complete.



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1. Add the correct amount of fluid to the unit's tank or verify that it contains a minimum of 10 quarts.
2. Start engine, let run till it reaches operating temperature, turn engine off.
3. Locate the vehicle's transmission cooler line connecting to the radiator, cooler or transmission.
4. Disconnect the cooler line at the easiest connection point and install the proper adapters onto the disconnected line. Connect the Fluid Drain "Tee" Adapter onto one of the adapters connected to the vehicle's cooler line. Attach the unit's output/return hoses to adapters, one to the Drain adapter and the other to the remaining connected adapter. Close the valve on the Drain Adapter.
5. Attach the unit to the vehicle's battery by connecting the unit's red battery clip to the positive (+) battery terminal and the black battery clip to a solid ground away from the battery.
6. Start the vehicle's engine.

**NOTE:** Fluid will be re-circulated to the transmission, will not be drained unless the unit is in CHANGE FLUID mode.

### **Filter Change:**

**If the vehicle's transmission filter is to be replaced, perform the following steps before removal of the transmission fluid pan. If not, go to step 8.**

- a) Follow steps 1-6, open the Valve on the Drain Adapter. Let engine run until fluid has stopped flowing out of the valve.

### **CAUTION**

**Do not let engine run for over one minute after the alarm has sounded indicating a low fluid level in the transmission. Running the transmission in a dry condition can cause serious damage to internal components.**

- b) Replace the vehicle's transmission fluid filter and re-install the transmission's oil pan and add transmission fluid as per shop's repair manual and manufacturer's recommendations.
7. Let engine run for one minute, press on the foot brake firmly and slowly shift the gear lever to Low Gear (first gear) then back to Park.
8. Check fluid level, adjust if necessary.
9. Press CHANGE FLUID button. Let engine and machine run until fluid has been exchanged completely and the unit stops automatically.

**NOTE:** If an alarm sounds during the Change Fluid mode (rapid beeping sound), and the Stop Engine light is flashing, the transmission is 2 qts. low, follow the next procedure.

- a) Stop vehicle's engine.
  - b) Press the STOP button ONCE, (unit's pump will continue to run).
  - c) Allow unit to fill transmission fluid to proper level, (pump will stop automatically).
  - d) Start the engine when the alarm sound and the Start Engine light is flashing.
  - e) Let engine run till service is complete.
10. Press the STOP button when the alarm sounds at the end of the service.



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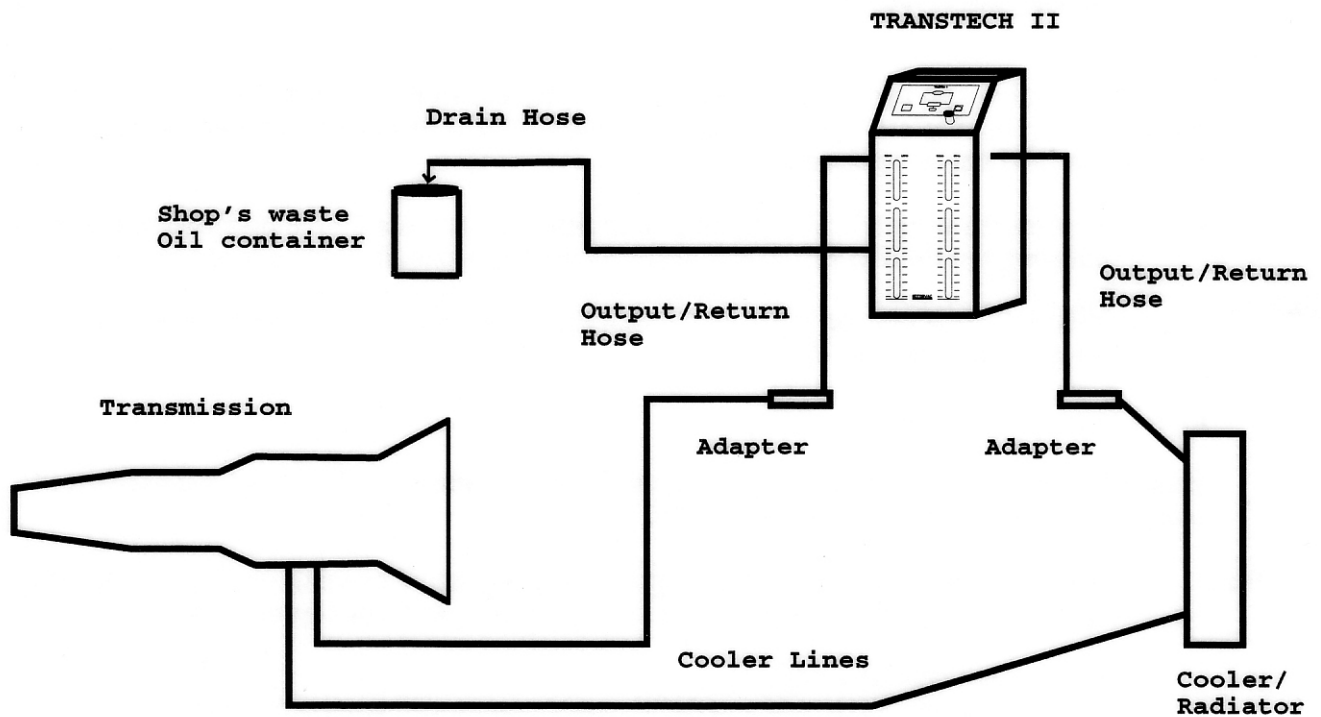
- Let engine run for one minute, step on the foot brake firmly, then slowly shift the gear lever to Low Gear (first gear) then back to Park. Check transmission's fluid level.

**If level is low:** Add fluid through dipstick fill tube. Check fluid level.

**If level is high:** Open valve on Drain Adapter for approx. 5-10 seconds. Check fluid level.

- Disconnect hoses from TRANSTECH and connect the vehicle's cooler lines to their original connection ports.
- Start the engine, check cooler lines for leaks, and re-tighten as necessary.
- Once service has been completed, drain unit's waste tank completely.
  - Inset unit's drain hose into suitable container or shop's waste oil container.
  - Press the EMPTY WASTE button, let unit run until the pump stops automatically.

**NOTE:** It is recommended to store unit with both tanks empty.





## TransTech II Quick Reference Card

1. Add the correct amount of fluid to the unit's tank or verify that it contains a minimum of 12 quarts.  
-Verify that waste tank has oil up to the **0** mark. If not, see page 3-1 for the prime procedure.  
-Verify that new transmission oil temperature is above 50 degrees fahrenheit.
2. Start engine and let run till it reaches operating temperature, then turn engine off.
3. Locate the vehicle's transmission cooler lines connecting to the radiator, cooler or transmission.
4. Disconnect one cooler line at the easiest connection point and install the proper adapters onto the disconnected lines. Attach the unit's output/supply hoses to adapters. (either hose to either adapter)
5. Attach the unit to the vehicle's battery by connecting the unit's red battery clip to the positive (+) battery terminal and the black battery clip to a solid ground away from the battery.
6. Start the vehicle's engine. Check the fluid level of the transmission.

**NOTE:** The transmission's fluid will be received into the machine and re-circulated back to the transmission. **VERIFY good bypass flow** before beginning service. Feel both lines for heat. Fluid will not exchange unless the unit is in CHANGE FLUID mode. When in DRAIN mode, the vehicle's transmission will pump the old transmission oil into the units waste tank.

### Filter Change:

**If the vehicle's transmission filter is to be replaced, perform the following steps before removal of the transmission fluid pan. If not, go to step 8 after pushing the CHANGE FLUID button.**

- a) Follow steps 1-6, press DRAIN button on the unit's control panel. Let the engine run until the alarm on the unit sounds, Low Vehicle Fluid and the Stop engine lights flash, stop the engine.

### CAUTION

**Do not let engine run for over one minute after the alarm has sounded indicating a low fluid level in the transmission. Running the transmission in a dry condition can cause serious damage to internal components.**

- b) Replace the vehicle's transmission fluid filter and re-install the transmission's oil pan as per shop's repair manual and manufacturer's recommendations.
  - c) Press the FILL button according to the amount of fluid that was removed from the transmission pan upon removal. Press once for ½ qt, twice for 1 qt. three times for 1½ qts. etc.
  - d) Press the CHANGE FLUID button, (Do not start engine first), Let the machine fill the vehicle's transmission until the alarm sounds.
7. Start the vehicle's engine. Continue until fluid from the unit's clean oil tank has depleted completely.
  8. Reference : **Two Quart low vehicle warning**

If an alarm sounds during the Change Fluid mode (rapid beeping sound), and the STOP/OFF light is flashing, the transmission is 2 qts or more low. Follow this procedure:

- a) Stop vehicle's engine.
- b) Press the STOP button ONCE, (unit's pump will continue to run).
- c) Allow unit to fill transmission fluid to proper level, (pump will slow automatically).
- d) Start the engine when the alarm sounds and the START/ON light is flashing.
- e) Let engine run till service is complete.

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9. Press the STOP button when the alarm sounds at the end of the service and the complete light is on.
10. Let engine run for one minute, then check the transmission's fluid level.

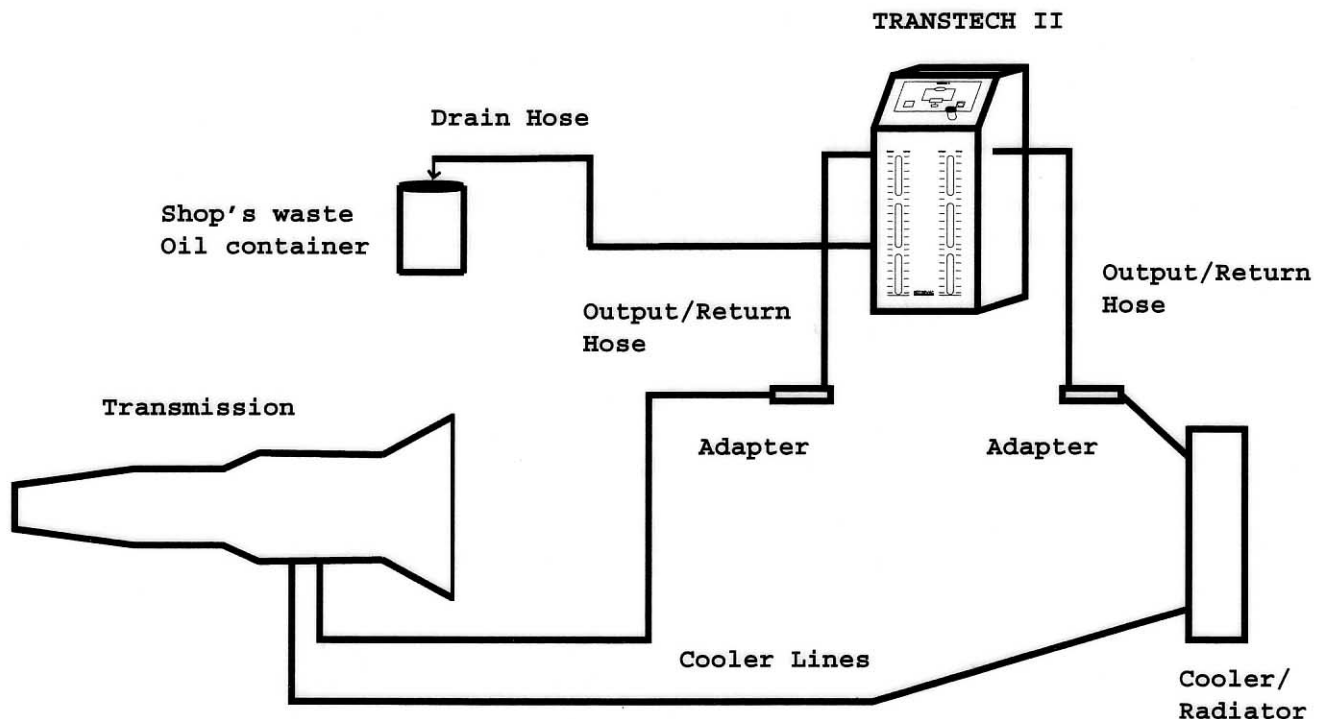
### If level is low:

- i) Press and hold the FILL button for approximately 10-15 seconds. Check fluid level.
- ii) Re-check fluid level, repeat step "i)" if necessary.

### If level is too high:

- a) Press and hold the DRAIN button for 10-15 seconds.
  - b) Re-check fluid level, repeat step "a)" if necessary.
11. Disconnect hoses from TRANSTECH and connect the vehicle's cooler lines to their original connection ports.
  12. Start the engine, check cooler lines for leaks, and re-tighten as necessary.
  13. Step on the foot brake firmly, then slowly shift the gear lever to Low Gear (first gear) then back to Park. Check transmission's fluid level.
  14. Once service has been completed, drain unit's waste tank completely.
    - a) Insert unit's drain hose into suitable container or shop's waste oil container.
    - b) Press the EMPTY WASTE button, let unit run until the pump stops automatically.

NOTE: Do not leave unit with oil in tanks (above the "0" line) after the service is complete.







## TransTech I Quick Reference Card

1. Verify that the unit's tank is full or contains a minimum of 12 quarts
2. Start engine, let run till it reaches operating temperature, turn engine off.
3. Locate the vehicle's transmission cooler line connecting to the radiator, cooler or transmission.
4. Disconnect the cooler line at the easiest connection point and install the proper adapters onto the disconnected lines. Attach the unit's output/supply hoses to adapters. (either hose to either adapter)
5. Insert the Drain Hose from the machine into the shop's used oil receptacle or in a suitable container.
6. Attach the unit to the vehicle's battery by connecting the unit's red battery clip to the positive (+) battery terminal and the black battery clip to a solid ground away from the battery.
7. Turn both Flow Control Regulators clockwise until seated, then turn 1 (one) turn counterclockwise.
8. Start the vehicle's engine.
9. Note direction that Rotoflow paddles turn. (if paddles don't turn, refer to Operators manual pg. 4 -3)

**NOTE:** The transmission's fluid will be received into the machine and re-circulated back to the transmission. Fluid will not be drained unless the unit is running or Drain Pan button is pressed.

### **Filter Change:**

**If the vehicle's transmission filter is to be replaced, perform the following steps before removal of the transmission fluid pan. If not, go to step 12.**

- a) Follow steps 1-9, press and hold "Drain Pan" button on the unit's control panel. Let the engine run until the flow indicator of the Return Flowmeter begins to drop. Stop engine.

### **CAUTION**

**Do not let engine run for over one minute after the Flowmeter has begun to drop indicating a low fluid level in the transmission. Running the transmission in a dry condition can cause serious damage to internal components.**

- b) Replace the vehicle's transmission fluid filter and re-install the transmission's oil pan as per shop's repair manual and manufacturer's recommendations.
  - c) Press the unit's power switch according to the direction that the Rotoflow indicators were spinning from step 9 (If the Rotoflow paddle turned left, press the switch to the left, if it turned to the right, press the switch to the right).
  - d) Let the machine fill the vehicle's transmission until fluid is at the FULL mark of the dipstick, or according to the shop's capacity specification manual.
10. Verify that the drain hose is in the used oil container, start the TRANSTECH machine, then start the vehicle's engine (if it is not already running).
  11. Notice the flow measurement on the Return Flowmeter. Adjust the flow to approximately 0.5 - 1.0 by turning the Return Flow Regulator until the desired flow is achieved.
  12. Notice the flow on the Output Flow meter. Adjust flow by turning the Output Flow regulator clockwise to increase flow or counterclockwise to decrease flow. Adjust until flow is 4-6 lines higher than the Return flowmeter.

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13. Check the transmission's dipstick for proper fluid level. If the level is low, increase the flow on the Output Flowmeter or decrease the flow on the Return Flowmeter.
14. Step on the foot brake firmly, then slowly shift the gear lever to Low Gear (first gear) then back to Park.
15. Continue the service until fluid on the Return Flowmeter is similar in color to the Output Flowmeter, or check the consistency of the fluid by sampling the fluid out of the Drain hose, or the total capacity of the transmission being serviced has been exchanged (plus 2-3 quarts more).
16. Stop the unit by positioning the ON/OFF switch to the OFF position.
17. Let engine run for one minute, then check the transmission's fluid level.

## If level is low:

- i) Close the Return & Output Regulators completely then open slightly (to avoid complete fluid blockage), Start the unit, let run for approximately 10-30 seconds.
- ii) Re-check fluid level, repeat this step if necessary.

## If level is too high:

- a) Open the Return Flowmeter completely, with the vehicle's engine running and the machine off, press and hold the Drain Pan button for 10-30 seconds.
  - b) Re-check fluid level, repeat step "a)" if necessary.
18. Disconnect hoses from TRANSTECH and connect the vehicle's cooler lines to their original connection ports.
  19. Start the engine, check cooler lines for leaks, and re-tighten as necessary.
  20. Step on the foot brake firmly, then slowly shift the gear lever to Low Gear (first gear) then back to Park. Check transmission's fluid level.

Figure 1

