



Turbo-Hybrid TH-40 Owners Manual



Specifications:

- Designed for cleaning ceramic tile and grout with your truckmount or high pressure portable
- Brush attachment allows for use on other flooring
- Cleaning capacity 400 to 1000 square feet per hour depending on build up and texture of surface.
- Lightweight but solid, resistant to impact, no wheels to restrict travel in all directions.
- Stainless steel handle with fiber reinforced shell.
- Extra long life boot with NEW brush attachment.
- Operating pressure range 650 to 2500 psi.
- Water temp. up to 230°
- Comfort grip non-slip handle
- Patented automatic vacuum compensator leaves the floor drier.

Limitation of Liability

Turbo Force International's (T.F.I.) liability on any claim for loss or damage connected with the supplying of goods, or their sale, resale, operation, or use, warranty, tort (including negligence) or other grounds, shall not exceed the price allowable to such goods or part thereof involved in any claim.

T.F.I. shall not under any circumstances be liable for any labor charges, special or consequential damages including, but not limited to, bodily injury, loss of profits or revenues, loss of use of any product or associated product, cost of capital, cost of substitute products, facilities or services, downtime costs or costs of claims arising from Buyer or Buyer's customers.

Any technical advice or assistance furnished by Turbo Force International which concerns any goods supplied hereunder, will not subject T.F.I. to any liability, whether based on contract, warranty, tort (including negligence) or other grounds

***DO NOT PUT YOUR HANDS UNDER THE DECK WHILE THE TOOL IS IN USE AND AFTER THE TRIGGER HANDLE IS RELEASED (WAIT 2 MINUTES FOR THE SPRAY BAR TO COMPLETELY STOP), FAILURE TO DO SO CAN CAUSE SERIOUS INJURY AND TURBO FORCE INTERNATIONAL WILL NOT BE HELD LIABLE FOR DISREGARDING THIS WARNING WHICH RESULTS IN ANY BUT NOT LIMITED TO INJURIES, DAMAGE, LOSS OF LIMBS AND OR LIFE.**

Warranty:

Turbo-Force International warrants that its product(s) (the Product) shall be free from defects in materials and workmanship under normal use, installation and maintenance in accordance with T.F.I. specifications for a period of 1 year from the date of purchase. If any failure to conform to this warranty is reported to T.F.I. within 1 year from the date of purchase by the original buyer, T.F.I., upon being satisfied of the existence of such non-conformity, will, with exclusions (wear and tear) etc., correct same at its discretion by repairing or replacing the Product.

Exclusions: The swivel (T-8a) is a sealed item it will not be covered if factory seal is broken from improper adjustment or installation. Swivel must be returned to T.F.I. for evaluation. Swivel will be repaired or replaced at manufacturer's discretion. Swivels that show signs of abuse or misuse will not be warrantied. Interface ring or "boot" (T-260 or T-270b) is covered from breakage or defect only for 90 days; there is no warranty against wear. Vacuum hoses, high pressure lines, and fittings are not covered under this warranty.

This warranty does not cover damage resulting from mishandling in transit, vandalism, misuse, abuse, neglect, alteration, dismantling, excess heat, acts of God or failure to exercise reasonable care in using or maintaining the Product. This warranty applies only to the original purchaser / owner of the Product. Original sales receipt / sales contract is required to validate warranty. To obtain service under this warranty, contact your dealer.

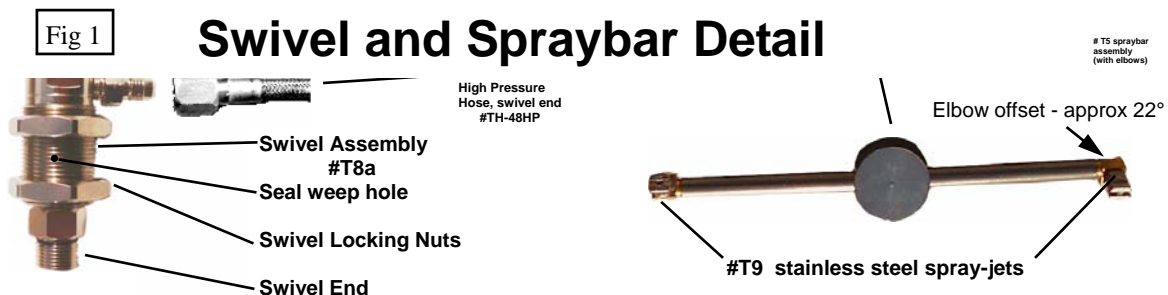
This warranty is in lieu of and excludes all other warranties, express or implied, arising by operation of law or otherwise, including any warranty of merchantability or fitness for particular purpose or otherwise, and no representation of warranty, expressed or implied, made by any sales representative or other agent of T.F.I. In no event shall T.F.I. be liable for incidental or consequential damages.

This warranty gives you specific legal rights which may vary from state to state.

CARE AND REPAIR : See parts lists & diagrams for replacement parts & order numbers.

1. Keeping a clean supply going into your truck mount will minimize problems.
2. Check and clean the steel mesh filter just after the quick connect fitting using two wrenches. It is important to check and clean the filter screen frequently, as a dirty filter will drastically reduce tool efficiency.
3. Your Turbo has an automatic patented vacuum compensator mounted on the bottom side of the deck. The deck relief is pre-set to most job situations and should not need further adjusting, however, using two wrenches, the vacuum relief tension spring can be adjusting to your truck mount's performance.
4. The new ceramic seal swivel has a weep hole to indicate when it is time to replace the seals. A seal rebuild kit is available separately from your dealer. If the seals are worn and water is allowed to enter the bearing surfaces, damage to the bearings will occur and the swivel will need to be replaced. See figure (3) for more details
5. Keep the swivel mounting nuts tight, as a loose spinner will reduce efficiency of the tool.
6. The glide boot on your Turbo is constructed of a very abrasion resistant plastic and should give long life. A brush ring is included for certain types of flooring such as marble, travertine and other softer materials that could be scratched from grit caught under the hard boot.* The Hybrid brush ring has a vinyl skirt that maintains proper air flow leaving the floor drier.
7. When excessive wear occurs, the boot should be replaced. See below for boot replacement instructions. Using your Turbo with a badly worn boot, will tend to catch some tile edges. **Floor damage will occur if you allow the boot to wear so thin that the spinning jets contact the floor.**
8. **Use the vacuum relief slider on the stainless tube to adjust for very smooth floors or truck-mounts with extreme suction.**

* It is up to the operator to decide what kind of flooring can be cleaned. Turbo Force Int'l. makes no warranty or claims as to the specific types of flooring that can be cleaning. Turbo Force Int'l shall not be held liable for any damage or injury claims resulting from the use, misuse or abuse of the cleaning tools. There is always a risk of floor damage when using extreme pressure and heat. Experience and proper training are essential to avoid costly damage claims including scratching of softer stone or other surfaces.

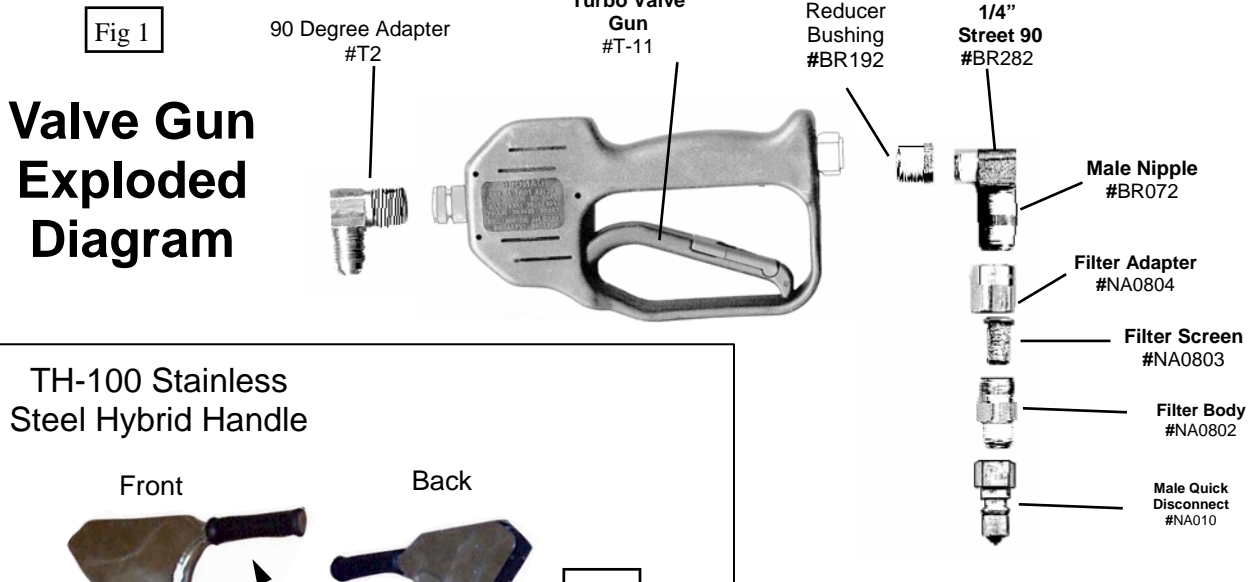


Swivel Replacement Instructions

To replace swivel, start by removing hose from compression fitting. Turn tool over and using a stubby 3/4" open end wrench, hold spray bar nut while turning spray bar assembly (right hand thread). Loosen and remove top swivel lock nut. Remove swivel out through the bottom of the deck. (Do not use Top Flats on the swivel as wrench points for removing or tightening the lock nuts. You can damage the swivel by doing so. **Place the upper lock nut so 1 or 2 threads are exposed above nut body before installing it in the deck.** Tighten the swivel lock nuts. Install the spray bar by holding the spray bar nut with stubby 3/4" open end wrench and spinning the spray bar on. It is self seating and needs only to be hand tightened to "O" - ring. Do not use thread seal. Check that spray bar spins freely and jets are recessed approx 1/4" below inner deck edge. Install the pressure line and tighten the swivel hose nut. Do not over tighten as this is a compression fitting. Test and check for leaks. **Do not aim Turbo at anyone as high pressure water can cause serious injury!**

TS-11 Ceramic Seal Replacement Kit

There is a seal kit available for the T-8a swivel that replaces the “O” rings and the ceramic seals. It is intended to repair swivels that still spin freely, but have developed a leak visible at the weep hole. If a leaky swivel is not repaired, water can enter the bearing chamber and the swivel will need to be replaced.



TH-100 Stainless Steel Hybrid Handle

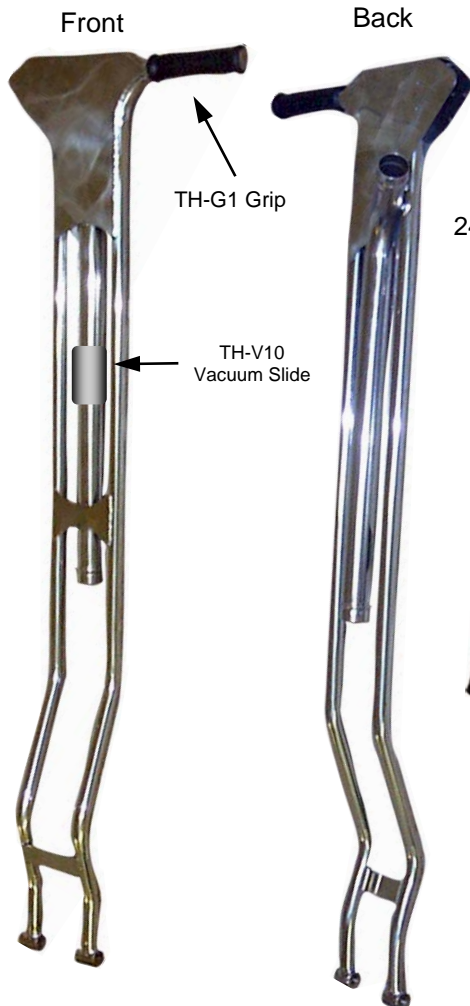


Fig 2

TH-140
24" Steel Coil
Vac Hose



Handle and Deck Assembly

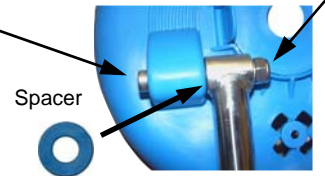


Turbo Disassembly

To disassemble deck, first undo handle axle bolts with an 8mm Allen head wrench and a 17mm socket

Next undo the high pressure line at the swivel with a 9/16" open end wrench

9/6" compression fitting



Spacer

Remove the 3 deck securing bolts with a Phillips screwdriver



TH-120x2 axle set w/ spacer

Using your thumbs, push the deck locking tabs outward and then tap the center section until the decks separate.



Molded brass insert

Deck locking tabs

The vacuum disc assembly remains attached to the inner shell and does not need to be removed except if being replaced.

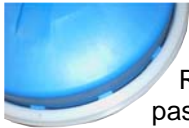
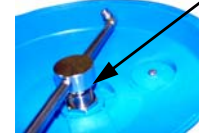


TH-110
(Disc, Bolt,
Nut & Spring)



To remove spraybar, use a 3/4" stubby wrench to hold the swivel nut, grab spraybar and loosen. (right hand thread)

Swivel nut (under spraybar)



Remove the boot ring (if replacing) and install new ring or brush. Inspect the inner deck passages for damage or clogs, cleaning as necessary. Check swivel lock nuts for tightness. Check jet elbows for tightness and consistent angles

Air / Water passageways



Snap shells together making sure they mate properly and locking tabs are securely seated. Install the 3 deck securing nuts & bolts. Re-attach high pressure line, handle and vac hose. Be sure to re-install the spacer washer between the handle and the deck. Test, and check for leaks. * **Note** - It is not necessary to remove the stainless steel handle to replace the boot or brush. Handle is removed here for illustration purposes.

To check for proper jet operation, turn tool upside down, grab spraybar securely, and with high pressure source hooked up, pull trigger. Point jets away from face while observing spray pattern. You should see 2 well defined, flat, narrow fans. If not, one or both jets may be clogged and will need to be cleaned. Sometimes a very fine wire bristle inserted into the orifice can clear a clogged jet. Be careful not to score or damage the orifice. Badly clogged jets need to be removed from the elbows, blown out and inspected. The jets can wear out over time depending on pressure, heat, and mineral content in the water. Make sure you are using filters on your water supply and check the Turbo's inline filter screen after heavy usage.

