



Transtank[®]
INTERNATIONAL

Operator's Product HandBook

FireBoss[™]

UTV Fire Fighter



“HELPING TO DEVELOP AND PROTECT THE LAND”

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Disclaimer

All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of this publication's printing. TransTank International (TTi) reserves the right to alter and substitute specifications and methods at any time, in line with our commitment to continuous improvement.

No patent liability is assumed with respect to the use of information contained within this manual. While every precaution has been taken in the preparation of this manual, TTi assumes no responsibility for errors or omissions.

Thank you for purchasing a FireBoss™ Low Profile UTV Fire Fighting Unit (FireBoss), which will provide many years of reliable service when operated and maintained in accordance with this manual.

TTi manufacture two FireBoss units, both with 300 litre tanks, supplied with a petrol-powered pump. This manual describes the operation, driving stability and maintenance procedures applicable to all FireBoss units, noting additional requirements to options where necessary.

All TTi FireBoss tanks are rotationally moulded from quality polyethylene, purpose designed and manufactured to high standards. The FireBoss is a Utility Terrain Vehicle (UTV) tub-mounted unit designed for firefighting, tree watering or washdown activities. The FireBoss can also be mounted on the back of a utility or trailer.

The FireBoss unit is supplied complete, tested and ready to go. TTi recommends that only water be used in the FireBoss unit. TTi warrants that the FireBoss has been designed and built for its intended purpose for firefighting and dispensing water, such as tree watering.

The owner is responsible to ensure that the equipment is operated in accordance with this manual, with Australian WorkSafe requirements, applicable road rules and local council regulations. TTi is not liable for any loss, injury or death resulting from the failure to observe all safe working regulations as required by law.

Included with your FireBoss unit is the following documents:

- Operator's Handbook (this manual, which includes the Warranty Registration Card)
- Honda petrol engine manufacturer's handbook
- Aussie Pumps manufacturer's handbook
- Tank Quality Check Form. This is your verification that the unit has been quality checked, and verifies the serial number affixed to the unit.

Safety

This manual is intended for use by personnel experienced in the use of this and similar equipment. Read and understand this manual before attempting to operate or perform routine maintenance on this equipment. Your safety is of prime priority.



A WARNING highlights an essential operating or maintenance procedure, practice, condition or statement, which, if not strictly observed, could result in injury or death of personnel, or long-term health hazards.



A CAUTION highlights an essential operating or maintenance procedure, practice, condition or statement, which, if not observed, could result in damage or destruction of equipment.



A NOTE highlights or clarifies an essential systems description, operating or maintenance procedure, condition or statement.

General Safety Instructions

1. This unit is designed and manufactured solely for the purpose of carrying and pumping water for firefighting, washdown and tree watering activities. Under no circumstances should it be used for any other purpose. It must never be used for transporting fuel or chemicals.
2. Only authorised and trained personnel are to operate this equipment. Operators must have read and fully understood this manual before operating the FireBoss unit.
3. Do not operate this equipment while under the influence of alcohol or any drugs that could impair your capabilities in any way.
4. Personal Protection Equipment (PPE) must be worn when refuelling or operating the pump on the FireBoss. Exposure to excessive noise over an extended period can cause impairment or loss of hearing.
5. Avoid unleaded petrol contact with skin and eyes, and avoid breathing vapours or mists. Refer to the relevant Safety Data Sheet (SDS).
6. Any spillage of fuel while refilling the pump engine's tank should be immediately cleaned up and the materials used in the clean-up disposed of safely and in accordance with relevant regulations applying to the safe use, storage and disposal of fuel.
7. Ensure the capacity of the vehicle is suitable for the loaded mass of the FireBoss. Refer to the vehicle's operator manual for safe working loads and relevant safety instructions. Do not exceed the carrying and braking capacity as specified by the vehicle manufacturer. As a guide, one litre of water weighs one kilogram (kg), therefore a full 300 litre FireBoss unit will weigh in excess of 350kg.
8. The FireBoss must never be left unattended while being filled with water.
9. Do not operate the pump when there is no water in the tank.
10. Do not disconnect any hoses, nozzles or filters while the equipment is operating. Disconnecting any components while under pressure may result in uncontrolled water discharge which may be hazardous.
11. At completion of operation, switch the pump off and relieve any residual pressure by squeezing the spray gun trigger.
12. Care should be taken at all times, particularly when operating on rough or steep terrain. Drivers should be aware of fluid surge affecting the centre of gravity.
13. The FireBoss has safety labels affixed to various locations on the unit. These labels should be kept clean and legible, and replaced if damaged.
14. Any unauthorised modifications to this equipment may affect its function and create a serious safety risk. Any unauthorised modifications will void any warranty on the unit.

General Information

Specifications

| | |
|--------------------|--|
| Tank | UV resistant polyethylene tank (300 litre capacity), Standard Compact and configurations |
| Standard Equipment | Honda GX50 petrol driven pump with 210 L/min capacity |
| | Aussie Pumps QP154SX single impeller pump |
| | 18m 19mm fire hose reel with adjustable nozzle |
| | Fabricated galvanised steel frame |
| | Auxiliary freshwater tank with tap for handwashing |

Description

The TTi FireBoss is designed to carry and distribute water using a self-contained pump and hose reel dispensing system, refer to Figure 2, which shows the Standard unit. The FireBoss is configured in two different styles, both designed to fit into the trays of UTVs:

- Standard – 300 litre tank, 1,000mm long, 1,250mm wide and 600mm high
- Compact – 300 litre tank, 870mm long, 1,100mm wide and 850mm high

Either configuration of the FireBoss is suitable for fitting to a conventional utility tray or trailer



Figure 1 – FireBoss Low Profile UTV Fire Fighting Unit

The FireBoss has the following features, refer to Figure 2.

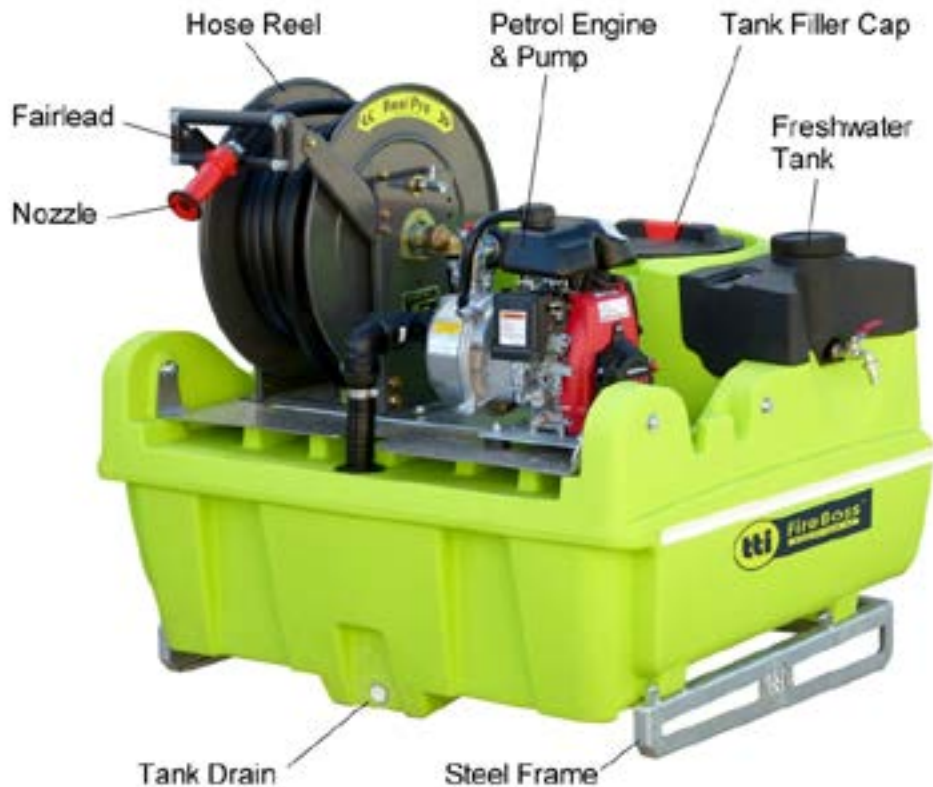


Figure 2 – Component Identification (Compact FireBoss)

Tank

All TTI tanks are constructed from UV resistant, virgin material polyethylene. The tank is fully drainable and has a twist locking filling cap.

Incorporated into the top of the tank is a small freshwater tank with tap for handwashing.

Hose Reel

Each FireBoss is fitted with an 18m 19mm diameter fire hose mounted on a manually operated hose reel. The hose is fitted with an adjustable nozzle which locates against the integral fairlead when the hose is fully retracted. The nozzle adjusts from closed through to jet and mist sprays, depending on requirement.

Pump

The FireBoss is fitted with an Aussie Pumps QP154SX single impeller pump firefighting pump coupled to a Honda GX50 4-stroke recoil (pull) start engine.

Frame

The chassis frame of the FireBoss unit is an all steel, fully welded construction and hot dip galvanised for corrosion resistance. The Standard FireBoss is mounted to the frame via metal straps, while the Compact FireBoss is bolted to the frame. Both units have incorporated forklift pockets.

Machine Limitations

The FireBoss unit is subject to operating limitations. It is the operators' responsibility to ensure that this equipment is being operated safely and within these limitations.

Driving Stability

The FireBoss unit is heavy when filled with water. To maintain stability while operating this unit:

- Ensure the trailer tyres are inflated to their correct pressure at all times. Underinflated tyres can cause excessive lateral motion of the tyre, which may cause a rollover.
- Allow extra room for braking and turning when the tank is full.
- Ensure any side gradient (slope) is accounted for, especially when the FireBoss tank is full, as the unit will have a higher centre of gravity.

Operating Instructions

Before first use

Your FireBoss Low Profile UTV Fire Fighting Unit is delivered fully assembled. Before use, it needs to be set up using the following instructions:

- Complete the warranty registration online at www.tti.com.au/warranty-registration, or use the Warranty Registration Card at the back of this handbook.
- Store this handbook, along with the Tank Quality Check Form and pump unit's manual in the provided leather pouch, in a safe and easily accessible place for future reference.



WARNING: The operator must fully understand all aspects of this handbook. Do not operate the FireBoss if you are unfamiliar with its operation until you have read this handbook.

- Read and thoroughly understand this handbook, paying particular attention to all safety requirements, before using the FireBoss for the first time.
- Check that all fittings, valves, hoses and electrical leads are secure following transit, and are not damaged in any way.
- Inspect the tank for any damage or abrasions that may have occurred during transit.



CAUTION: The FireBoss must be securely mounted to the vehicle. Failure to do so may result in the unit moving or falling off the moving vehicle. Warranty is conditional on the unit being correctly mounted.

- Position your FireBoss onto the vehicle and mount securely, either using tie-down straps located into the tie-down recesses or lugs on both sides of the tank, depending on configuration, refer to Figure 2 and Figure 3 for locations. The tie-down straps must be rated to at least the total mass of the unit when filled with fluid. Alternatively, the integrated tank frame may be bolted to the vehicle.



CAUTION: The engine must be inspected and prepared in accordance with the manufacturer's instructions. Failure to fulfil this requirement may void the engine's warranty.

- Prepare the pump engine in accordance with the Honda engine's manual supplied with your FireBoss unit.

Pump Operation

The FireBoss's petrol pump engine is started as follows, refer to Figure 3:

- Turn the fuel lever to ON.
- If the engine is cold, turn the choke lever to ON.



CAUTION: Ensure the engine's throttle is set to idle if the engine is cold. Do not adjust the throttle to maximum speed until the engine has warmed up.

- Set the throttle lever to idle for cold starting. If restarting a warm engine, the throttle can be left at normal engine operating speed.
- Turn the power switch to ON. Pull the recoil starter handle until the engine starts, then back off the choke lever to OFF.
- Once the engine is warmed up, adjust the throttle to increase the engine speed to normal operating revs.
- When the engine needs to be stopped, turn the power switch to the OFF position.

If the FireBoss is not going to be used within the next few hours, shut the system down by turning the fuel tap to OFF.



Figure 3 – Engine Start-up

Filling the Tank

The FireBoss tank is filled as follows:



CAUTION: The FireBoss unit is designed for water use only. It must not be used for chemicals or fuel.

Open the tank's filler cap by twisting and lifting the cap.



CAUTION: To prevent overflow, do not leave the filling operation unattended.

- Insert the hose from the water supply into the top of the FireBoss tank and turn ON the supply.
- Observe the water level directly in the tank. When the tank is filled, turn the water supply OFF.
- Replace the tank's filler cap and twist to lock.

FireBoss Operation

Initial Operation Set Up

The FireBoss Low Profile UTV Fire Fighting Unit is operated as follows:

- Fill the tank from an appropriate water source, refer to the Filling the Tank procedure above.
- Unlock the hose reel then pull out the required length of hose off the reel. Check that the hose nozzle is closed.



Note: The pump is self-priming due to the direct coupling to the FireBoss tank.

- Start the pump (referring to the procedure above) and adjust engine speed.



CAUTION: To prevent damage, do not operate the pump for more than five minutes with the hose nozzle closed.

- Open the fire hose's nozzle by rotating it to achieve the desired spray pattern. If necessary, adjust the engine speed to obtain the optimal water pressure.
- Upon completion of the task, close the fire hose nozzle and turn the pump engine to OFF.
- Open the fire hose nozzle again to release the residual pressure.
- Rewind the hose onto the reel by manually winding the handle on the side of the reel. Close the nozzle once the hose is fully retracted and the nozzle is located near the hose's fairlead.

Risk Assessment

| Task | Hazard | Risk | Control Measure/Mitigation |
|---|--|--------|--|
| Partially fill the tank with water, start the pump engine & test the hose spray | Manual handling; slips, trips or falls; petrol fumes; fingers jammed | Medium | Concentrate on task; follow safe manual handling techniques: <ul style="list-style-type: none"> • Don't lift on your own if > 20kg, bend knees & keep back straight; • Keep fingers clear; • Keep unit at least 8m away from overhead powerlines; • Fire extinguisher nearby; • Follow warning stickers on tanks; Wear PPE for petrol fumes - mask & gloves. |
| Check weather conditions | Manual handling; slips, trips or falls | Low | <ul style="list-style-type: none"> • Follow safe manual handling techniques: don't lift on your own if >20kg, bend knees & keep back straight. |
| Use spray or fire fighter units. | As above; loss of load; heat & cold; noise; exceed load limit of vehicle; hose entanglement; exhaust fumes; terrain & slopes; run over by unit | High | As above: <ul style="list-style-type: none"> • Wear clothes to suit heat & cold; • Wear hearing protection if noise >85 dBa; • Follow the manufacturer's safe operation instruction for the vehicle and the spray unit • Don't overload - water weighs 1kg for every 1 litre • Secure unit to tow vehicle; • Keep hose tidy; • Put unit brakes on (if fitted). |
| Clean up, maintenance & storage | As above | Low | As above; <ul style="list-style-type: none"> • Wear PPE for clean up; • Store unit in a dry, well ventilated area. |
| Burn risk | Hot exhaust/muffler | Med | <ul style="list-style-type: none"> • Do not reach over hot exhaust • Do not service engine while hot • Wear appropriate PPE |

Maintenance

Your FireBoss Low Profile UTV Fire Fighting Unit requires minimal maintenance but regular cleaning and checks will ensure safe and reliable service over its lifetime. Periodic checks and inspections will identify any potential issues, enabling timely rectification and minimising downtime.



CAUTION: In dusty, dirty or smoky environments, cleaning, inspection and servicing of the unit on a regular basis is essential. The cleaning, inspection and servicing must be undertaken more frequently in harsh conditions to avoid damage or destruction of equipment.

For the petrol engine driven pump, refer to the supplied Honda manual, drain and replace the engine oil in accordance with the manufacturer's recommendations.

Periodic Checks

The following checks and cleaning operations should be undertaken on a regular basis. The frequency of these activities will depend on the nature of the operating environment and the operational hours of the FireBoss unit. Refer to the maintenance schedule tables below for details of maintenance intervals.

- Clean the unit and inspect it for any signs of damage or wear. Replace any safety labels if they are damaged or illegible.
- Check all hoses, fasteners and fittings are firmly secured, tighten if necessary.
- Unwind the hose fully to check that hose is in good order. Pressurise the line and check operation of spray nozzle. Rewind the hose onto the reel, ensuring it retracts all the way.
- Check the engine's oil level weekly. Top up as required.
- Check for any signs of fuel or oil leaks. If detected, investigate and rectify immediately.
- If the FireBoss is to be stored for an extended period, ensure the tank and all pipelines are empty and are not pressurised. Store the unit in a clean, dry and well-ventilated area.

Maintenance Schedule

The following tasks are to be conducted in accordance with each of the schedules. All scheduled tasks are to be undertaken concurrently. For example, at the three month maintenance interval, all tasks listed are to be undertaken, in addition to the daily, weekly and monthly tasks.



NOTE: Maintenance is important. Keep a record of all maintenance tasks conducted on the FireBoss unit.

TTi recommends photocopying these schedules in order to keep a detailed log of all maintenance tasks. A copy of these schedules will be required to support any warranty claim.

Daily tasks

The following tasks are to be undertaken daily, or prior to each use, of the FireBoss unit.

| # | Task | Notes |
|---|--|-----------------------------|
| 1 | Inspect the FireBoss for any signs of damage or wear | Clean, repair or replace |
| 2 | Check the engine's electrical connections | Test function of engine |
| 3 | Check fuel | Top up as required |
| 4 | Inspect engine's air filter and housing for dust | Clean, replace as necessary |

Weekly tasks

The following tasks are to be undertaken each week or 10 operating hours, whichever occurs first.

| # | Task | Date | Signed |
|---|--|------|--------|
| 1 | All Daily tasks | | |
| 2 | Remove and clean the engine's air filter | | |
| 3 | Check engine oil level, top up as required | | |

Monthly tasks

The following tasks are to be undertaken each month or 20 operating hours, whichever occurs first.

| # | Task | Date | Signed |
|---|--|------|--------|
| 1 | All Daily and Weekly tasks | | |
| 2 | Check hose and hose reel by unwinding fully | | |
| 3 | * Change engine oil (first change, thereafter every six months or 100 operating hours), refer Honda manual | | |

Three Monthly tasks

The following tasks are to be undertaken every three months or 50 operating hours, whichever occurs first.

| # | Task | Date | Signed |
|---|---|------|--------|
| 1 | All Daily, Weekly and Monthly tasks | | |
| 2 | Inspect the air filter, replace if clogged or damaged | | |
| 3 | Check engine oil level, top up as required | | |

Six Monthly tasks

The following tasks are to be undertaken every six months or 100 operating hours, whichever occurs first.

| # | Task | Date | Signed |
|---|--|------|--------|
| 1 | All Daily, Weekly, Monthly and 3-Monthly tasks | | |
| 2 | Change engine oil | | |
| 3 | Inspect spark plug | | |

Twelve Monthly tasks

The following tasks are to be undertaken every twelve months or 200 operating hours, whichever occurs first.

| # | Task | Date | Signed |
|---|---|------|--------|
| 1 | All Daily, Weekly, Monthly, 3-Monthly & 6-Monthly tasks | | |
| 2 | Replace the engine's air filter | | |
| 3 | Drain and flush the fuel tank | | |
| 4 | Replace the engine's fuel filter | | |
| 5 | Replace the spark plug | | |

Two Years tasks

The following tasks are to be undertaken every 24 months or 500 operating hours, whichever occurs first.

| # | Task | Date | Signed |
|---|---|------|--------|
| 1 | All Daily, Weekly, Monthly, 3-Monthly, 6-Monthly and 12-Monthly tasks | | |

Trouble Shooting

If a fault develops with the FireBoss, the following trouble shooting table provides guidance to identify and rectify the problem.

| Problem | Possible cause | Remedy |
|--------------------------|------------------------------|---|
| Pump will not feed water | Hose nozzle closed | Open hose nozzle |
| Engine will not crank | Loose Connections | Clean and tighten connections |
| | Faulty ON/OFF switch | Check switch operation, replace as needed |
| | Mechanical problem in engine | Check Engine |

Warranty

Warranty Policy

TTi will, at its option, repair or replace without charge any part covered by this warranty which is found to be defective in material and/or workmanship within one (1) year after date of sale to the original retail purchaser. If the product is used for rental purposes, this warranty is limited to ninety (90) days.

Upon request, the customer will make the defective part available for inspection and/or return the defective part to TTI, transportation charges prepaid. All parts and components are covered by this warranty except the following, which are warranted separately by their respective manufacturers:

- engines
- gearboxes
- pumps
- regulators.

TTi does not assume any warranty obligation, liability or modification for these items, which are covered exclusively by the stated warranty of the respective manufacturers.

What this Warranty Does Not Cover?

This warranty does not cover:

1. defects caused by depreciation or damage caused by incorrect mounting, normal wear, accidents, improper maintenance, improper use or abuse of the product, alterations or failure to follow the instructions and warnings provided.
2. Any charges for making service calls, clean up time and transport charges.
3. The use of non-genuine parts on equipment supplied by TTI. This will automatically negate any warranty.

How to Obtain Service Under this Warranty?

Warranty service can be arranged by contacting your dealer, or by contacting TTI directly on 1800 816 277.

Proof of warranty registration and date of purchase may be required to verify warranty coverage. Any defective parts returned to TTI must be accompanied by a Return Goods Note. This form can be obtained by contacting Product Support on 1800 816 277 or emailing ProductSupport@tti.com.au.

Warranty Limitations

Warranty limitations are as follows:

1. There is no other express warranty. Any warranty that may be implied from this purchase including merchantability and fitness for purpose is hereby limited to the duration of this warranty and to the extent permitted by law. Any and all implied warranties are excluded.
2. TTI will not be liable for any incidental, consequential or special damages and/or expenses in connection with the purchase or use of this equipment, to the extent permitted by law.
3. Only the warranty expressed in this limited warranty shall apply and no dealer, distributor or individual is authorised to amend, modify, or extend this warranty in any way. Accordingly, additional statements, whether oral or written, do not constitute warranties by TTI, and should not be relied upon.



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