



OWNERS MANUAL – TUATARA 1000EFI

Tuatara Machinery Limited

Version 01082022

Owner's Manual

**READ THIS MANUAL CAREFULLY. IT CONTAINS IMPORTANT
SAFETY INFORMATION.**

MINIMUM RECOMMENDED: OPERATOR AGE: 18

TUATARA Off-Road Agricultural Transport Machine

TUATARA 1000EFI 4x4

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Owner's Manual

1. Foreword

Thank you for choosing the **TUATARA** 1000 EFI agricultural transportation machine (ATM). It comes as a consequence of many years of experience in the production of ATM vehicles. We are sure that you will enjoy your new vehicle. With the purchase of your **TUATARA** ATM you can now appreciate the craftsmanship and reliability that has served to make the **TUATARA** a standout performer in its field. If you have any questions regarding the operation or maintenance of your vehicle, please contact the nearest **TUATARA** dealer.

Before operating your new **TUATARA** ATM, please thoroughly read this manual as it contains important safety and maintenance information. Failure to follow the warnings contained in this manual could result in damage to the vehicle or even serious injury or death to the operator.

Be sure to follow the recommended maintenance schedule and service your ATM accordingly. Preventative maintenance is extremely important to the life of your ATM. And in the interests of conservation and protection of earth's natural resources, every **TUATARA** owner is encouraged to recycle, trade in, or properly dispose of, as appropriate, used motor oil, coolant, and other fluids, batteries and tyres.

2. Warning Signs and Important Safety Information

Before you drive your ATM for the first time, we urge you to do following:

- Read this owner's manual and the labels on your ATM
- Make sure you understand all the safety messages.
- Totally familiarise yourself with all of the controls.

→ Do not drive the ATM if you are under 18 years of age.

Before driving, be sure:

→ That you are of good physical and mental health.

→ That you are not affected by any alcohol or drugs.

2.1 Warning Signs

Foreword about safety

In order to keep everyone safe, it is important to understand the warning signs on the ATM. We have provided operating procedures and warning sign labels in this manual. These include:

Warning Signs

This section contains some of the most important information and recommendations to help you drive your ATM safely. Please take a few moments to read these pages.

The labels are considered permanent parts of the ATM. If a label comes off or becomes hard to read, contact your dealer for warning label replacements.



Safety Symbol - A Safety Alert Symbol



WARNING

- Operator warning message

CAUTION:

- Operator special care required



WARNING

Always bring the vehicle to a complete stop before changing between 2WD and 4WD. Failure to do so could result in damage to the differential and / or components within the drive train.



WARNING

Improper tyre pressure or overloading can cause a loss of control. Loss of control could result in a serious accident which may lead to serious injury or death.

THE RECOMMENDED OPERATING TYRE PRESSURE IS:

FRONT – 15 - 20psi. REAR – 15 - 20psi.

Never set the tyre pressure below the recommended operating pressure. This could result in tyres being dislodged from their rims. Tyre pressure should be set when tyres are cold.



WARNING

Serious INJURY or DEATH could result if you ignore the following:

- The maximum capacity of the rear cargo tray is 550kg.
- All cargo must be adequately secured. Unsecured cargo could move suddenly and affect handling and stability.
- All cargo should be centered and stowed as far forward and as low as possible.
- Top heavy and / or unbalanced loads increase the risk of rollover.
- Passengers should not be carried on the cargo tray.
- When loaded with cargo and / or towing a trailer reduce speed and allow more time for stopping. Pay more attention when travelling up steep hills and over rough terrain.

[2.2 Important safety information](#)

Driving Off-Road only

Your new ATM and its tyres are designed and manufactured for off-road use only, not for sealed roads. Driving on sealed roads can affect handling and control.

When driving off-road, also remember to always obey local off-road driving laws and regulations. Obtain permission to drive on private property. Avoid posted areas and obey “no trespassing” signs.



WARNING

- **Operating this Off Road ATM on paved surfaces may seriously affect handling and control and could result in the loss of control.**
- **Extreme care must be exercised when driving on any paved surfaces such as roads, footpaths, and concreted areas.**

Age Recommendation

It is strongly recommended that no one under the age of 18 be permitted to operate this ATM and never without proper adult supervision.



WARNING

- **It is not recommended that this ATM be operated by a person under 18 because inexperience and / or immaturity could result in a loss of control resulting in severe injury or death.**

Driver Training & Practice

Practice driving the ATM in a safe area to improve your skills. Do not drive in rough terrain until you become accustomed to the controls of the ATM, and are comfortable

with its size, weight and handling characteristics. Check with your dealer for more information on training courses.



WARNING

Operating this ATM without proper instruction could increase the risk of an accident, which could lead to serious injury or death.



WARNING

In the event of a rollover, ensure that you keep your hands and other parts of your body inside the vehicle. Failure to do so could result in serious injury or death.

No Alcohol or Drugs

Alcohol, drugs and the operation of an ATM doesn't mix. Even a small amount of alcohol can impair your ability to operate the ATM safely. Likewise, drugs, even if prescribed by a doctor, can be dangerous while operating a ATM. Consult your doctor to be sure it is safe to operate an ATM after taking medication.



WARNING

- **Operating this ATM after consuming alcohol or drugs can seriously affect your judgment, causing the operator to react more slowly, affect your balance and perception, and could result in serious injury or death.**
- **Never consume alcohol or drugs before or while operating this ATM.**

Is Your Vehicle Ready to Drive?

Before driving, it is important to inspect your ATM and ensure that any problems discovered are corrected. A pre-drive inspection is a must, not only for safety, but because having a breakdown, or even a flat tyre, can be a major inconvenience. If the ATM has overturned or has been involved in a collision, do not drive the vehicle until it has been inspected by an authorised dealer. There may be serious underlying damage to the vehicle that may make it dangerous to operate.



WARNING

- **Improperly maintaining the ATM or failing to correct a problem before driving can cause an accident that could result in serious injury or death.**
- **Always perform a pre-drive inspection before every drive and correct any problems discovered.**

Pre-Drive Inspection

Check the following items before you operate the ATM:

1) Engine Oil

Check the level and add oil if needed. Check for leaks.

2) Coolant

Check the coolant and add coolant if need. Check for the leaks.

3) Fuel

Check the level and add fuel if needed. Also make sure the fuel filler cap is secure.
Check for leaks.

4) Tyres

Use a tyre pressure gauge to check the air pressure. Adjust if necessary. Also look for signs of damage or excessive tyre wear.

5) Nuts & Bolts

Check the wheels nuts to ensure that they are tight. Use a wrench to make sure all accessible nuts, bolts, and fasteners are tight.

6) Underbody & Exhaust System

Check for, and remove any dirt or other debris that could be a fire hazard or interfere with the proper operation of the ATM.

7) Air Cleaner

Check the air filter. Replace it if needed.

8) Leaks, Loose Parts

Walk around you ATM and look for anything that appears unusual, such as a leak or loose cable.

9) Lights

Make sure the headlights, brake lights and tail lights are working properly.

10) Throttle

Press the throttle to make sure it moves smoothly without sticking, and “snaps” back automatically when it is released.

11) Clutch pedal

Check the free play of clutch pedal and adjust if necessary. Press the clutch pedal to make sure it moves smoothly without sticking, and “snaps” back automatically when it is released. Check the fluid level in the clutch master cylinder and top up if necessary. Ensure that there are no leaks.

12) Brakes

Press the brake pedal several times. Make sure that the pedal is not “spongy” and that there is increased resistance as more pressure is applied. Check the level of the brake master cylinder. Top up is necessary. Make sure there is no fluid leakage.

13) Engine Stop

When engine is running, turn the ignition key counterclockwise. Ensure that the engine stops.

14) Steering

Check that the wheels turn smoothly as you turn the steering wheel and that there is no play. Examine the steering linkages and ensure that they are tight.

Keep Hands and Feet on Controls

Always keep both hands on the steering wheel and both feet on the foot controls. When driving your ATM, it is important to maintain your balance and control of the ATM. Removing hands or feet from the controls will reduce your ability to react and control the vehicle.



WARNING

- **Removing a hand/s from the Steering Wheel or feet from Foot Controls during operation will reduce your ability to control the ATM. This could affect your ability to operate the ATM safely.**
- **Always keep both hands on the Steering Wheel and both feet on the Foot Controls of your ATM during operation.**

Control Speed

Driving at excessive speed increases the chance of an accident. In choosing an appropriate speed, the operator must consider the capability of the ATM, the terrain, visibility and other operating conditions, plus his / her own skills and experience



WARNING

- **Operating this ATM at excessive speeds increases your chances of losing control of the ATM, which could result in an accident.**
- **Always drive at a speed that is appropriate for the terrain, visibility, your experience and other operating conditions.**

Use Care on Unfamiliar or Undulating Terrain

Before driving in an unfamiliar area, always check the terrain thoroughly. Don't drive fast on unfamiliar terrain or when visibility is limited. It is sometimes difficult to see obstructions, such as hidden rocks, bumps, or holes, in time to react. Never drive past the limit of visibility. Maintain a safe distance between your ATM and other off-road vehicles. Always exercise caution and use extra care on rough, slippery or loose terrain.



WARNING

- **Failure to use extra care when Operating this ATM on unfamiliar terrain could result in the ATM overturning or a loss of control.**
- **Drive slowly and be extra careful when operating on unfamiliar terrain.**
- **Always be alert to changing terrain when operating the ATM.**



WARNING

- Failure to use extra care when operating on excessively rough, slippery or loose terrain could cause loss of traction or vehicle control, which could result in an accident, including a rollover.
- Do not operate on excessively rough, slippery or loose terrain until you have learned and practiced the skills necessary to control the ATM on such terrain. Always use extra caution when driving on these types of terrain.

Do Not Perform Stunts!

You should always operate your ATM in a safe and reasonable manner. When driving, always keep all four wheels on the ground.



WARNING

- Attempting “wheelies” and other stunts increases the chance of an accident, including a rollover.
- Never attempt stunts, such as “wheelies” or jumps. Do Not try to show off.

3. Specifications

3.1 DIMENSIONS

Overall Length	3580mm
Overall Width	1550mm
Overall Height	2110mm
Wheelbase	2480mm
Turning circle	8600mm
Ground Clearance	310mm
Rear cargo deck (Internal dimensions)(L x W x H)	1,600mm x 1390mm x 300mm

3.2 ENGINE

Type	Liquid-cooled – 3Cyl 4-Stroke
Bore x Stroke	71mm × 84mm
Displacement	0.998cc
Compression ratio	11
Fuel System	EFI (Petrol)
Max Power (hp / KW)	69 / 51.1KW/4500rpm
Maximum Torque	93Nm/3500-4500rpm
Starting	Electric
Ignition	ECU
Lubrication	Wet Sump
Transmission	Manual clutch, 5 Forward, 1 Reverse

Final Drive -----	Shaft driven
Fuel type -----	91 or greater (unleaded)
Engine oil -----	API SF SAE 10W/30 – 50
Engine oil filter -----	JX0604 (Thread ¾”- 16)

3.3 CAPACITIES

Maximum load (Rear cargo tray)-----	550kg
Fuel tank -----	50.0L
Engine oil-----	(With filter)-3.5L
Transmission oil-----	2.0L
Front differential-----	0.45L
Rear differential-----	0.85L
Coolant -----	5.0L

3.4 SUSPENSION & BRAKES

Front Suspension -----	Independent single A-Arm with MacPherson Strut
Rear Suspension -----	Independent dual A-Arm with double coil springs
Tyres (Front & Rear)-----	CST high grip 26×11-12
Tyre Pressure (Front & Rear)-----	15-30 psi
Brakes-----	Hydraulic disc with vacuum booster

3.5 STRUCTURE

Chassis-----	All steel ladder design
Anti Corrosion Treatment-----	Electrophoresis – chassis & all steel panels
Net Weight -----	1,140kg

4. Operating Instructions

Before operating your **TUATARA** ATM, ensure that you familiarise yourself with the operating switches. The **TUATARA** is Equipped with three dashboard switch banks – see **Figure1, Figure 2 and Figure 3** below.



Figure 1

Rear Cargo Tray Hoist

The rear carry tray fitted to the Tuatara 1000 ATM can be elevated with an electric hoist, which is operated via the dashboard switch as indicated in **Figure 1** above.

Headlight Switch

Move the switch to the green position to activate the headlights.

Roof Mounted LED Lightbar

The **TUATARA'S** lighting is further enhanced with the roof mounted LED light bar which can be activated via the dashboard switch as indicated in **Figure 1** above.

Fog Lights

In addition to headlights, the Tuatara 1000 ATM is also equipped with front mounted LED fog lights, which can be activated by a dashboard switch as indicated in **Figure 1** above.

Window Washer & Wiper

If the Tuatara 1000 is fitted with an accessory glass windscreen, it will also be equipped with a window wiper and washer, which are operated from individual dashboard rocker switches shown in **Figure 1** above.

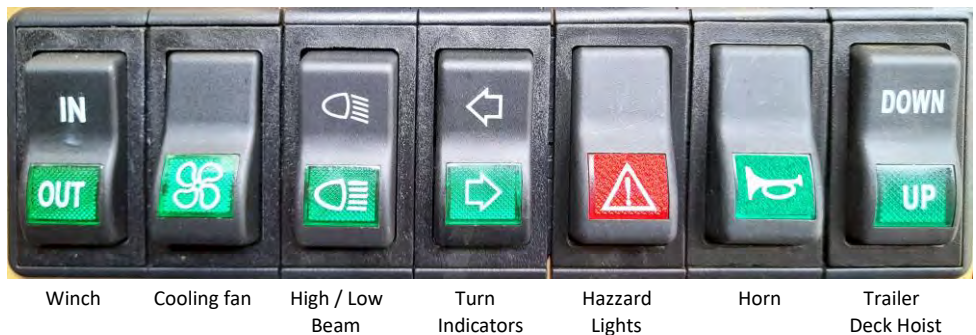


Figure 2

Winch

The Tuatara 1000 comes equipped with a front mounted electric winch, which has a pulling capacity of 2,000kg. This is operated from the dashboard switch shown in **Figure 2** above.

Cooling Fan Override

The cooling fan override switch (ie. see **Figure 2** above) allows the operator to override the thermostatic control of the radiator cooling fan in the event that the **TUATARA** ATM is being operated under conditions in which it is desirable for the early operation of the cooling fan. Such conditions could include the following:

1. Operation on very steep inclines;
2. Protracted use in low gear and at high engine revolutions;
3. Use of the vehicle while at maximum loading capacity;
4. A combination of items 1 – 3 above;

High / Low Beam

The headlights on the **TUATARA** 1000 ATM include a switch for changing between high and low beam as indicated in **Figure 2** above.

Turn Indicators

Move the switch to the up or down position to activate the turn indicators in the direction indicated by the arrows – see **Figure 2** above.

Hazzard Switch

Depress the hazard light switch to activate all four turn signal lights simultaneously to warn of a hazard to other vehicles – see **Figure 2** above.

Horn Switch

Activate the horn switch to warn other vehicle operators of an impending emergency situation – see **Figure 2** above.

Trailer Cargo Deck Hoist

Customers who have purchased a Tuatara accessory trailer will be able to raise and lower the cargo deck by operating the hoist switch which is mounted on the dashboard as indicated in **Figure 2**.

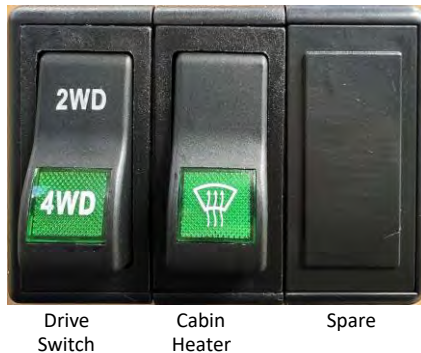


Figure 3

Drive Switch

The **TUATARA 1000 ATM** can be operated in either 2WD or 4WD, which is selected via the dashboard switch as indicated in **Figure 3** above. Note that the switch ***must not be operated while the vehicle is in motion.***

Cabin Heater

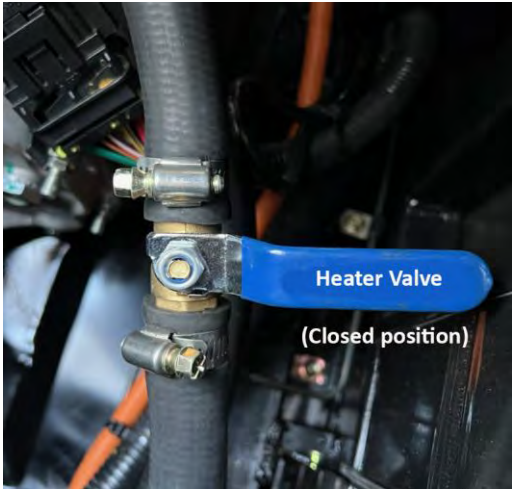
The **TUATARA 1000 ATM** comes fitted with a cabin heater as well as windscreen vents to allow the windscreen to be defrosted for those customers who elect to fit a fully enclosed cabin – see **Figure 4** below. To operate the heater, the valve on the heater coolant hose must first be opened to allow hot water to flow through the heater

– see **Figure 5** below. The valve must be moved so that the lever is parallel with the direction of the heater hose.



Cabin Heater

Figure 4



Heater Valve

Figure 5

Brake Pedal Lock

The **TUATARA** ATM comes equipped with a Brake Pedal Lock, which is supplementary to the hand brake. To operate the Brake Pedal Lock, the operator must first apply the foot brake. With the brake pedal fully depressed, the operator then engages the Brake Pedal Lock Lever on the dashboard (ie. see **Figure 6 & 7** below) by pressing the release button on the end of the lever and pulling the lever downward to its fullest extent (ie. see **Figure 6** below). The button can now be released and the operator's foot removed from the brake pedal. This operation will lock the brake pedal in the fully depressed position without any need for the operator to use any foot pressure and the brakes will remain fully activated. The purpose of the Brake Pedal Lock is to provide enhanced braking when the **TUATARA** is parked on a steep incline in circumstances where the handbrake may not provide sufficient braking to hold the **TUATARA** in a fully stationary position. However, the Brake Pedal Lock is not intended to be used in place of the hand brake, and should not be activated for extended periods of time. Whenever, the **TUATARA** is to be parked with no operator in attendance, the hand brake must first be applied, the engine stopped and first gear engaged. The Brake Pedal Lock may also be applied if the steepness of the terrain makes this prudent.



Brake Pedal Lock Lever – Unengaged

Figure 6



Brake Pedal Lock Lever - Engaged

Figure 7

Ignition Switch

The function of the Ignition Switch is to allow an operator to start and stop the engine of the **TUATARA** ATM. The switch is operated with the use of the ignition key, which must be moved in a clockwise direction through four positions while undertaking the start and stop procedure – see **Figure 8 - 10** below:

OFF:

When the ignition key is in the Off position (ie. see **Figure 8** below), all electrical circuits are switched off except the turn indicators and hazard lights. The ignition key can be removed while the ignition key is in this position.

ACCESSORY:

When the ignition key is moved to the Accessory position, as shown in **Figure 9** below, all electrical circuits are supplied with power except for the ignition and fuel system. The radio can be operated.

ON:

The ignition system and fuel system are supplied with power.

START:

Turning the ignition switch fully to the right provides power to the electric starter which engages the engine flywheel and starts the engine. Release the key as soon as the engine starts otherwise damage to the starter motor may occur.

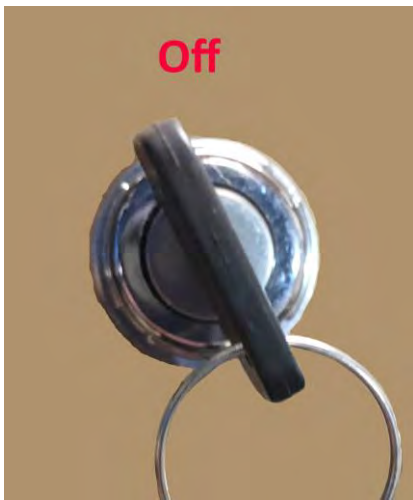


Figure 8



Figure 9



Figure 10



WARNING

- Do not operate the electric starter continuously for more than 5 seconds, or starter damage could occur. Wait at least 5 seconds between each operation of the electric starter to let it cool.
- Do not turn the key to the "START" position with the engine running, or damage to the electric starter can result.
- See starting instructions prior to starting the engine.

Primary Gauge

Please refer to **Figure 11** below for a description and location of the various analogue and digital signals within the primary gauge.

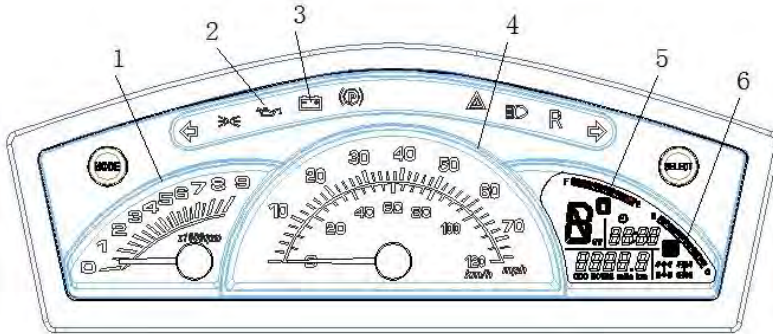


Figure 11

1 – Tachometer

Indicates the engine RPM of your vehicle. The ATM should not be operated above 6000 rpm.

2 - Oil Pressure Light

Indicates Low Oil Pressure

3 - Voltmeter Light

Indicates Low Battery Amperage

4 – Speedometer

Indicates the vehicle speed and provides the odometer reading. The vehicle should not be operated in the red area.

5 - Fuel Level Gauge

Indicates the level of fuel in the fuel tank.

6 - Water Temperature

Indicates the coolant temperature of your vehicle.



WARNING

- The gauges show the status of your vehicle during operation and are important indicators of the condition of the vehicle.
- Before driving your vehicle, check that all gauges are working properly.

Differential Lock

The **TUATARA** ATM is equipped with both front and rear differential locking, which can be applied together or individually. In the event of a loss of traction, the differential lock(s) can be applied to lock the axles to allow the ATM to regain full wheel traction.

Before engaging the differential lock:

- Bring the ATM to a complete stop;
- Engage the clutch and move the differential lock lever(s) downward until fully extended – see **Figure 12**;
- Check the instrument panel (ie. **Figure 13**) to confirm the differential lock is engaged;
- After engaging the differential lock, confirm the differential status by slowly disengaging the clutch and moving forward;
- Disengagement of the differential lock is the reverse of the engagement

process;



Differential Lock Levers

Figure 12



Instrument Panel

Figure 13

- Position **A** - Differential lock levers in the unlocked position.
- Depress and hold button **C** and slide the levers to position **B** to engage
- Dashboard indication (red arrow) - both differential locks fully engaged.



WARNING

Never engage 4WD with the differential locked or while the ATM is travelling at high speed as serious damage to the differential could occur.

Accelerator, Brake, Clutch Pedal

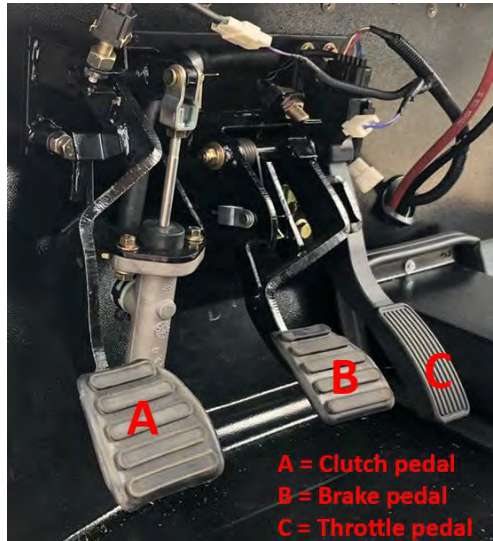


Figure 14

Clutch pedal

The left foot pedal controls the hydraulic clutch operation. Depressing the clutch disengages the drive train and permits the selection of the gears – see **Figure 14**.

Brake pedal

The center pedal controls the operation of the brakes. Applying pressure to the pedal applies pressure to the brake calipers to slow or stop the vehicle – see **Figure 14**.

Throttle Pedal

The right foot pedal controls the engine speed. Depressing the accelerator pedal to increase engine rpm and vehicle speed and release the pedal to decrease vehicle speed – see **Figure 14**.

Handbrake

The handbrake lever is located between the driver's and middle passenger's seats. To engage the hand brake, press the release button on the top of the lever (ie. See **Figure 16** below) and pull the lever upward, keeping the release lever depressed. Once the lever encounters moderate resistance, release the button and the handbrake is now engaged. If the ATM is to be held on a steep incline, more upward pressure may be required to hold the vehicle in a stationery position. It is a good practice to hold the footbrake down firmly while applying the handbrake. This will maximize the effectiveness of the handbrake. On steep inclines, it is also recommended that the wheels are chocked as a further safeguard. To release the handbrake, depress the footbrake, press the handbrake release button and move the handbrake lever downward to its unengaged position and release the button. The handbrake is now released and the ATM may be driven forward or backward.



Handbrake in the engaged position

Figure 15



Handbrake in unengaged position

Figure 16

Transmission

The TUATARA ATM is fitted with a manual, five speed transmission as well as reverse gear. Gear selection is achieved through the use of the gear selection lever - see

Figure 17 below. Before operating the ATM, check the shift lever is adjusted properly by checking to see that all gear shifts can be applied easily and smoothly. After extended use, the shifter cable may need adjustment if smooth gear selection is becoming more difficult. To achieve this, loosen the adjustment nuts (see **Figure 18** below) and move the cable, depending on the situation, until smooth gear selection is once again achieved. Retighten the adjustment nuts.



Figure 17

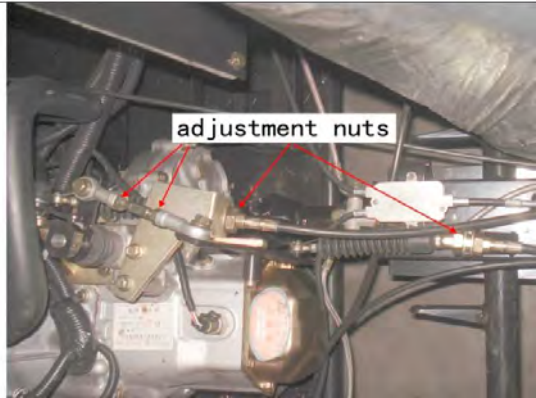


Figure 18

The first month of operation of your **TUATARA** 1000 ATM is most important to the overall life of your vehicle. Proper operation during this break-in period will help assure maximum life and performance from your new vehicle. The following guidelines explain proper break-in procedures.

- Don't run the engine at high RPM while the transmission is in the neutral position.
- Keep the engine revolutions to a moderate level while moving through the gears.
- Where possible, avoid heavy braking.
- Keep to the speeds indicated in the table in **Figure 17** below.

The first 1000 km			
Max speed in each gear	1 st	Gear	10km/h (6.2mph)
	2 nd	Gear	20km/h (12.4mph)
	3 rd	Gear	35km/h (21.7mph)
	4 th	Gear	45km/h (28.0mph)
	5 th	Gear	55km/h (34.1 mph)

Figure 19

Fuel Tank

The fuel tank is located directly below the driver's seat of the **TUATARA** ATM – see **Figure 20** below. To refill the tank, insert the key into the lock in the fuel cap and turn the key and the fuel cap in a clockwise direction for approximately one quarter of a turn and remove the cap and the key. Once the tank has been refilled, align the locating lug of the fuel cap in the slot in the mouth of the fuel tank and press firmly and turn the filler cap in a clockwise direction until the cap is firmly located in position and can't be removed without the key.



Figure 20



WARNING

- Make sure that the fuel cap is tight by turning clockwise.
- Only use unleaded fuel or engine damage may occur.
- Never over fill the fuel tank and avoid spills.
- Always keep the fuel tank cap clean.

Steering Column Height Adjuster

The **TUATARA** ATM is fitted with a pneumatic strut that allows the steering column height to be adjusted for individual preference. Simply press down on the lever (see **Figure 21 - A** below and move the steering wheel up or down to your requirements. Then release the lever and the steering column will be locked in your selected position.



A = Steering column release lever

Figure 21

Seat Belts

The **TUATARA** ATM is equipped with self-retracting seat belt harness system for the driver and passengers – see **Figure 22** below. It is anticipated that the ATM will be operated on uneven ground and in circumstances where passengers may be at increased risk of injury or even death if the vehicle is involved in a collision with a solid object or experiences a rollover. For this reason, seatbelts must be worn at all times.



Figure 22

The procedure for the correct fitment of your seat belt is as follows:

1. Insert the latch into the receiver latch, making sure that the belt is not twisted and is not obstructed by any portion of the vehicle, your clothing, or any equipment that you are carrying.
2. Lock the latch into the female receiver latch and quickly pull on the strap in a forward direction away from your body to ensure that the belt is secure and that it is locked in position.
3. To release the buckle, simply push the Red release Button on the retractor housing.

Passengers

The **TUATARA** ATM allows for the carriage of three passengers including the driver.



WARNING

- Before starting the engine, ensure that the driver is seated correctly and that his / her seatbelt is fitted and firmly fastened.
- If not yet familiar with the **TUATARA** ATM, first familiarise yourself with the controls as well as the handling capabilities by first testing it on open and level ground.
- Operate TUATARA ATM slowly until you are confident that you have the ability to operate it at a faster speed.
- Remember that centrifugal force is very high when turning the ATM at high speed. Slow down to a more controllable speed when turning to prevent a rollover.

Engine Starting Procedure

1. Ensure that the handbrake is engaged.
2. Ensure that the gear shifter is in the neutral position.
3. Fully depress the clutch pedal.

4. Turn the ignition key clockwise to the “start” position and hold it for no more than 5 seconds. If the engine does not start, repeat this procedure until starting occurs. Release the key and the clutch pedal as soon as the engine starts.

CAUTION!

- **Do not attempt to start or operate the engine until completely familiar with all of the instruments and controls necessary to operate this vehicle. The operator must know how to stop the ATM before starting and driving.**
- **Prior to starting the engine, check that the throttle pedal functions correctly when the pedal is depressed and released. Do not operate the vehicle if a fault is detected.**
- **Before starting the engine, ensure that the handbrake is engaged, the gearshift lever is in the neutral position and the clutch pedal is depressed.**
- **If the engine fails to start after 5 seconds, release the key before attempting to restart. Repeat this procedure until the engine starts.**
- **Release the key immediately the engine starts. Holding the key in the start position when the engine is running will cause damage to the starter motor.**

Engine Stopping Procedure

1. It is strongly recommended that the vehicle be brought to a complete stop before

shutting off the engine.

2. Ensure that the gearshift lever is in the neutral position.
3. Engage the handbrake.
4. Turn the key anti-clockwise to the “off” position to stop the engine.

5. Maintenance and Service

5.1 Principal Components - Maintenance

Air cleaner

The air cleaner is mounted below the passenger’s seat on the right hand side of the vehicle – see **Figure 23** below. You should regularly open the filter housing and check the filter element – see **Figure 24** below and remove any accumulation of dust, which should be removed with an air hose. To remove the filter element, remove the split pin from the central retaining bolt and then loosen and remove the butterfly nut (ie. see **Figure 23** below) and washer(s) retaining the lid to the body of the air filter housing. Remove the lid followed by the bolts and washers retaining the filter element. The filter element may now be removed and cleaned with an air hose. Under dusty conditions, service the air filter more often, and replace the filter element if the dust can’t be satisfactorily removed. Also observe the filter replacement intervals as outlined in the **Preventative Maintenance & Service Log** shown later in this manual.

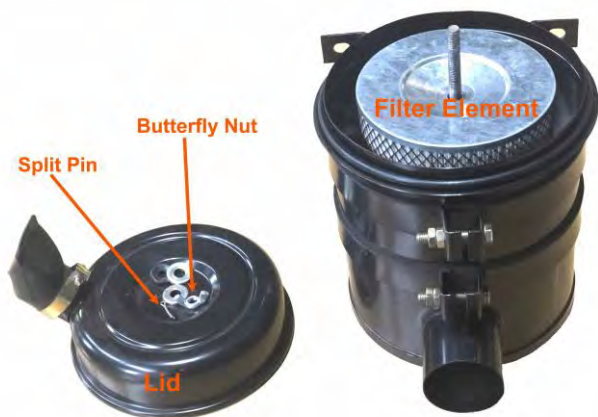


Figure 23



A – Air filter lid; B – Air filter element; C – Air filter housing

Figure 24

Checking The Engine Oil Level

On each occasion, before operating your Tuatara ATM, remove the dipstick and check the engine oil level. If the level falls below the “F” mark – see **Figure 25** below, top up with fresh oil. Note also any changes to the colour of the oil, in particular if oil appears “milky” or brown in colour, it should be changed. Also observe the oil change intervals as indicated in the **Preventative Maintenance & Service Log** shown later in this manual.



Figure 25

Engine Oil Change Procedure

1. You must change the oil in the crankcase at the intervals indicated in the **Preventative Maintenance & Service Log** shown later in this manual. This will

ensure proper lubrication of internal parts and prevent costly repairs due to excessive wear.

2. The oil should be changed when the engine is warm to ensure that the oil runs freely and all impurities are removed with the oil.
3. Place the vehicle on level ground, stop the engine, and remove the oil drain plug. Allow time for all oil to drain from the engine.
4. Always change the oil filter when changing your oil and only use the proper tools to remove the oil filter.
5. Ensure that the surface is clean before installing a new oil filter so that no contaminants, that might damage the engine, can enter the lubrication system. Tighten the new oil filter by hand until it is firm and check for leaks after starting.
6. Tighten the engine oil outlet plug (see **Figure 25**), being careful not to over-tighten, and check for leaks after starting.
7. Remove the oil inlet plug (see **Figure 25**) and fill the engine with 3.8 litres of high grade **SAE 10W/30-50** oil to the “F” level indicated on the dip stick (see **Figure 25**). Replace the oil inlet plug and start the engine.
8. Allow engine to run at an idle for 5 minutes and then shut off and check the engine oil measure dip stick. Confirm the oil level in the crankcase is at the full mark. Do not overfill.

CAUTION!

**The oil drain plug is magnetic to attract any engine debris in the oil.
Always use the correct magnetic oil drain plug.**

Checking The Transmission Oil Level

After every 40 hours or 750 kilometers of operation, check the transmission oil on your **TUATARA** ATM. Remove the oil filler plug – see **Figure 26** below, and confirm that the oil level is level with the bottom of the oil filler plug. If not, top it up. Also check the condition of the oil. In particular, note any changes to the colour of the oil. If it appears “milky” or brown in colour, the oil should be changed. Also observe the oil change intervals as indicated in the **Preventative Maintenance & Service Log** shown later in this manual.



Figure 26

Transmission Oil Replacement Procedure

You must change the oil in the transmission after the first 25 hours of operating of your new engine and after 200 hours or 5000 kilometers of use thereafter, whichever first occurs. This will ensure proper lubrication of internal parts and prevent costly repairs due to excessive wear.

The replacement procedure is as follows:

1. Park the vehicle on the level ground.
2. Stop the engine. Remove the drain plug (see **Figure 26** above) and allow all oil to

drain from the transmission.

4. Clean the drain plug and reinstall it in the base of the transmission, making sure not to over tighten it.
4. Fill with 2.0 liters of high-grade API 75W-90 GL-3 Gear Oil. Check for leaks.



WARNING

The Transmission Drain Plug is magnetic to attract any engine debris. Always ensure that the correct drain plug is reinstalled after the transmission oil has been changed.

Checking the Differential Oil Level

The **TUATARA** ATM is fitted with a front and a rear differential. To check the oil level, remove the bung plug – see **Figure 25** below, and confirm that the oil level is slightly lower than the level of the filler hole. If the oil level is below the recommended level, top it up to the correct level. Also check the condition of the oil. In particular, note any changes to the colour of the oil. If it appears “milky” or brown in colour, the oil should be changed.

Also check the oil breather tube to ensure that it is not cracked or damaged and that it is not obstructed. If oil is expelling from the breather tube once the differential has warmed, check to ensure that the differential has not been over-filled. And if the differential has been submerged, while travelling through water, it is recommended that the oil be checked to ensure that water has not entered through the breather tube.

Water will compromise the lubricating properties of the oil and can result in serious damage to the differential.

Differential Oil Replacement Procedure

You must change the oil in both differentials in accordance with the intervals as indicated in the **Preventative Maintenance & Service Log** shown later in this manual. Complying with this requirement will ensure proper lubrication of internal parts and prevent costly repairs due to excessive wear.

The replacement procedure is as follows:

1. Park the vehicle on the level ground.
2. Stop the engine. Remove the drain plug (see **Figure 27** below) and allow all oil to drain from the differential.
3. Fill with **850mls.** (ie. rear differential) and **400mls.** (ie. front differential) of 75W-90 synthetic oil. Check for leaks.

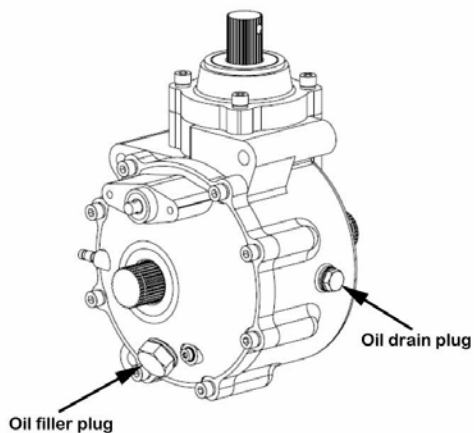


Figure 27

Cooling System Checking

The cooling system comprises a front mounted radiator, and a header tank mounted at a high point close to the engine. The header tank is in turn connected to an expansion tank to allow for coolant expansion when the engine heats. The primary purpose of the header tank is to provide an additional water source close to the engine and also to offer a high point for air to lodge, rather than in the engine, should there be an over-heating event due to the cooling system being compromised in some way.

The procedure for checking the cooling system is as follows:

1. Park the vehicle on a level surface.
2. Once the engine is cool, remove the header tank cap – see **Figure 28** below, and check the coolant level. Note that the coolant level should always be checked when the engine is cool as the coolant level will vary with engine temperature.
3. The coolant level should be approximately 20mm. below the base of the filler spout. If it is below this level, add coolant to restore it to the maximum level. Also check the level of the coolant in the expansion tank – see **Figure 29**. The level should be approximately midway between the FULL and LOW marks to allow for expansion once the coolant is heated by the engine. Top it up if it is below this level.
4. The radiator coolant level should also be checked. Remove the filler cap and note the coolant level. It should be approximately 10mm. below the base of the filler spout. If the coolant level is below the recommended level, top it up with fresh coolant.



Figure 28



Figure 29



WARNING

- Removing the radiator cap while the engine is hot risks serious scalding.
- Avoid direct skin contact with coolant as this could be hazardous to your health. Wear waterproof gloves at all times while handling coolant, and wash any skin with soap and water that does come in contact with coolant.
- Properly dispose of any used coolant.

Idle Speed

The engine installed in the **TUATARA** ATM is equipped with electronic fuel injection (EFI) and the idle speed is preset and controlled by Electronic Control Unit (ECU). Never change the idle speed.

Checking & Replacement of Spark Plugs

The spark plugs should be replaced every 30,000 km, or 18 months, whichever comes first. However, if the engine is not running well, faulty spark plug(s) could be a possible cause and therefore should be checked as part of the engine diagnostic procedure. Check the condition of the spark plugs for carbon buildup, electrode deterioration and / or a change in the specified spark gap. If necessary, clean and reset the spark gap. If the spark plug(s) is beyond restoration, it should be replaced.



WARNING

- Engine damage or poor performance may occur if the spark plugs are not installed correctly or an incorrect spark plug gap is set.
- Never use a non-specified spark plug.
- Ensure that the spark plugs are tightened to the required torque setting.
- Never remove the spark plug connector by pulling on the high voltage wires.
- Ensure the spark plug seat is clean and clear of debris before reinstalling a spark plug.

Inspection and / or Replacement of the Drive Belt

Correct installation and setting the proper tension of the drive belt will ensure that the alternator and the water pump operate correctly. If the belt is worn, cracked or can't be tightened, it must be replaced immediately. To check the belt tension, apply firm pressure with your thumb (ie. specified pressure - 100Nm/22.48 ft lb.) to the belt – **Figure 30** below. If the movement is more than 10mm, loosen the flange bolt and change the position of starter to tension the belt and retighten the bolt.

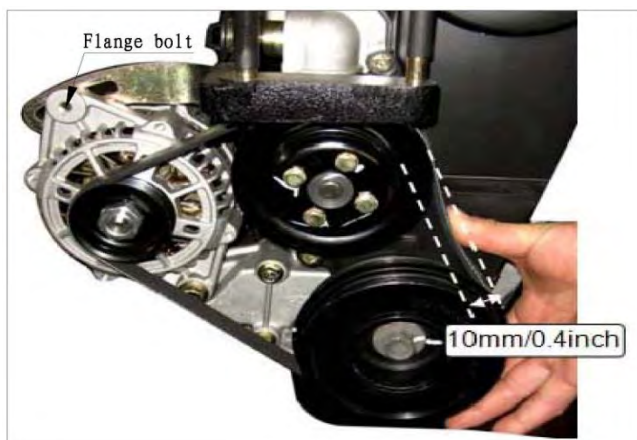


Figure 30

Hand Brake Adjustment

Over time and use, the hand brake cable may stretch and / or need adjustment. Access to the adjustment mechanism is achieved by removing the middle passengers seat cushion – see **Figure 31** below.



Figure 31

A = Handbrake primary adjustment nut;

B = Handbrake equalizer;

C = Right handbrake cable secondary adjustment nut;

D = Left handbrake cable secondary adjustment nut;

Drive the vehicle on to level ground and move the gearshift lever into the neutral position. Then jack the rear wheels off the ground and disengage the handbrake. Remove any free play in the handbrake cables by first loosening the lock nut at **A** above (ie. smaller of the two nuts) and then turn the adjuster nut in a clockwise direction until all free play has been removed. Rotate both rear wheels in turn to ensure that they turn freely without any resistance. If resistance only exists on one wheel, adjust the secondary adjustment nut on the side that the resistance is occurring until the situation is corrected. Retighten the lock nuts on both the primary and secondary adjustment nuts and test the handbrake operation. Move the handbrake approximately four clicks and rotate the rear wheels. It should not be possible to rotate the wheels manually. The handbrake is now correctly adjusted. Lower the wheels to the ground and test run the vehicle to confirm that the handbrake is operating correctly.

Fuses and Relays

The fuse box is located in the glove compartment in the dashboard of the ATM. To access the relays, first remove the plastic protective cover – see **Figure 32** below.

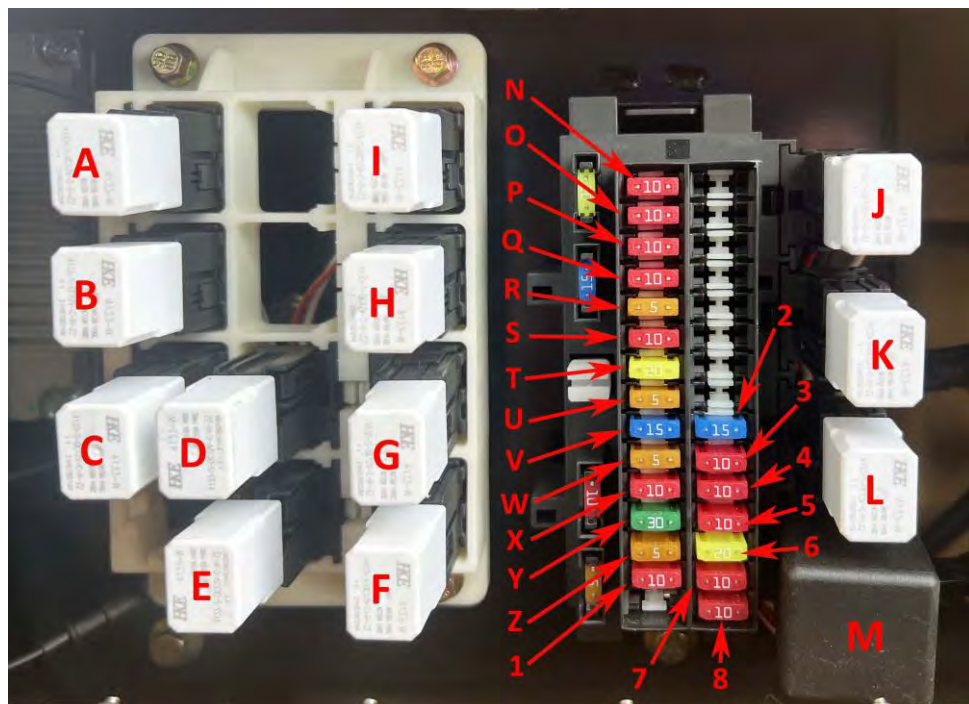


Figure 32

A = 4WD; **B** = 2WD; **C** = Brake; **D** = Cooling Fan; **E** = Fuel Pump; **F** = Starter; **G** = Clutch; **H** = ECU; **I** = High Beam; **J** = ACC; **K** = Ignition; **L** = Ignition; **M** = Turn Indicators; **N** = Fog / Reverse (10A); **O** = LED Light Bar (10A); **P** = Heater & Fan (10A); **Q** = Spare (10A); **R** = Radio (5A); **S** = High/Low Beam (10A); **T** = Cigarette Lighter (20A); **U** = Instrument Gauge (5A); **V** = 2WD/4WD (15A); **W** = ECU (5A); **X** = Power Steering (10A); **Y** = Hoist (30A); **Z** = Winch (5A); **1** = Wiper (10A); **2** = ECU (15A); **3** = Horn (10A); **4** = Turn Indicators (10A); **5** = Fuel Pump (10A); **6** = Cooling Fan (20A); **7** = Ignition (10A); **8** = ECU (10A);

Battery Maintenance

The **TUATARA** ATM is equipped with a factory sealed low maintenance 12 volt battery. Therefore, the only maintenance required is to periodically check that both terminals are

tight and remain free of corrosion, and to recharge the battery in the event that it inadvertently becomes discharged. When the ATM is not going to be used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reinstallation using a constant voltage/ampere type charger as required for recharging a sealed type battery. Using a conventional battery charger may shorten the battery life. Also ensure that the leads are reconnected according to the correct polarity. Damage to the electrical wiring and / or the electrical components could occur if the battery is connected incorrectly.

Enclosed Cabin

This model Tuatara ATM has the ability to install a modular fully enclosed cabin, which is in addition to our standard configuration and comprises the following items:

- (a) Glass windscreen with wiper and wash bottle. The windscreen has a central lever that locks it closed against the ROPS frame but the lever can also be repositioned to allow the windscreen to be held in vented position so that it is open approximately 5 cm, to allow air to circulate within the cabin while the Tuatara ATM is in motion – see **Figure 33** below. The windscreen can also be opened to a near horizontal position where it is supported by two pneumatic struts – see **Figure 34** below. However, it is not recommended that the Tuatara ATM is operated with windscreen in its fully opened position as flexing caused by travelling over undulating terrain may result in damage to the windscreen including breakage of the glass. **The windscreen should only be fully opened when the Tuatara ATM is in a stationary position.**
- (b) Full length doors with a sliding windows and door locks. The structure comprises a steel tubular frame with a clear, hardened polycarbonate skin that gives excellent

viewing for the operator and passenger – see **Figure 35** below. However, operators should consider that hardened polycarbonate is very strong but it is also brittle. For this reason it is not recommended that the doors are “slammed” shut as this is likely to cause cracking of the polycarbonate around the door striker area. The correct procedure for closing the door is to keep hold of the door handle during the closing process, and once the door latch makes contact with the striker, firmly push the door latch against the striker and release the hand only when the door is fully closed. This will avoid damage to the polycarbonate.



Figure 33

Windscreen in the vented position & with wiper retracted



Figure 34

Windscreen in fully open position



Figure 35

Full length door in the open position

- (c) Cabin rear enclosure with window – see **Figure 36** below. The enclosure is fabricated of light weight steel and completes the full enclosure of the cabin, providing excellent protection from the elements during wintertime or inclement weather. The cabin is modular, so any of the components can be relatively easily removed for summertime use for example.



Figure 36

Tuatara 1000 with rear passenger enclosure fitted

Preventive Maintenance and Service Log

The following pages contain your vehicle **Preventive Maintenance and Service Log**. It is recommended that you review this checklist with your Dealer at the time of your purchase. You should return your vehicle to your Dealer for service as recommended below. If you choose to service your vehicle yourself, keep accurate records of the service activities. Failure to do so may void your warranty. If you require technical assistance, you can call or email your Authorised Distributor for further Technical Support.

Preventative Maintenance & Service Log

	Dealership Responsibilities			Recommended Authorised Dealer or Service Centre				Operators Responsibilities			
	Assembly	Pre-delivery Inspection	Customer Initials	25hrs or 500kms	50hrs or 1,000kms	100hrs or 1,500kms	200hrs or 5,000kms	Weekly	Monthly	Quarterly	Yearly
Component											
Engine											
1. Engine oil				RC	LF	LF	RC	LF	LF	LF	RC
2. Air filter				RC	LF	LF	RC	LF	LF	LF	RC
3. Drive belt				TA	TA	TA	TA		TA	TA	TA
4. Fuel injectors						IC				IC	IC
5. Manifold bolts				TA		TA				TA	TA
6. Pulley bolts				TA		TA				TA	TA
7. Engine mounts				TA		TA				TA	TA
8. Engine breather tube				IC	IC	IC	IC		IC		IC
9. Throttle cable				LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA
10. Engine idle				LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA
11. Exhaust				TA		TA				TA	TA
12. All nuts & bolts				TA	TA	TA	TA	TA	TA	TA	TA
Transmission											
13. Transmission oil				RC	LF	LF	RC	LF	LF	LF	RC
14. Clutch pedal				LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA	LF/TA
15. Clutch fluid				LF	LF	LF	RC	LF	LF	LF	RC
16. Gear shifter cables & mounts				LF/TA	LF/TA	LF/TA	LF/TA			LF/TA	LF/TA
17. Transmission function				IC	IC	IC	IC		IC	IC	IC
18. Clutch slave cylinder				IC/TA		IC/TA			IC/TA		IC/TA
19. All nuts & bolts				TA	TA	TA	TA	TA	TA	TA	TA
Ignition											
20. Coil				IC	IC	IC	IC	IC	IC	IC	IC
21. Distributor				IC	IC	IC	IC	IC	IC	IC	IC
22. Spark plug leads				IC	IC	IC	IC	IC	IC	IC	IC
23. All nuts & bolts				TA	TA	TA	TA	TA	TA	TA	TA

IC = Inspect & clean, TA = Tighten & adjust as required, LF = Lubricate and/or re-fill, RC = Replace / Change

Preventative Maintenance & Service Log

Dealership Responsibilities				Recommended Authorised Dealer or Service Centre				Operators Responsibilities			
Component	Assembly	Pre-delivery Inspection	Customer Initials	25hrs or 500kms	50hrs or 1,000kms	100hrs or 1,500kms	200hrs or 5,000kms	Weekly	Monthly	Quarterly	Yearly
Cooling System											
24. Coolant levels				LF	LF	LF	RC	LF	LF	LF	RC
25. Coolant hoses & clamps				TA	TA	TA	TA	TA	TA	TA	TA
26. Anti freeze							RC				RC
27. Radiator cap				TA	TA	TA	TA	TA	TA	TA	TA
28. Fans				IC	IC	IC	IC	IC	IC	IC	IC
29. Radiator mounting bolts				TA	TA	TA	TA	TA	TA	TA	TA
30. Radiator				IC	IC	IC	IC	IC	IC	IC	IC
Fuel System											
31. Fuel hoses & clamps				TA	TA	TA	TA	TA	TA	TA	TA
32. Fuel filter				IC	IC	RC	IC			IC	RC
33. Fuel pump				IC	IC	IC	IC	IC	IC	IC	IC
34. Fuel tank				IC	IC	IC	IC	IC	IC	IC	IC
Drive Train											
35. Differentials				RC	LF	LF	RC	LF	LF	LF	RC
36. Axles				IC	IC	IC	IC	IC	IC	IC	IC
37. CV joints & boots				IC	IC/LF	IC	RC			IC	RC
38. Drive shafts				IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF
39. Wheel bearings				TA/LF	TA/LF	TA/LF	RC		TA/LF	TA/LF	RC
40. Oil seals				IC	IC	IC	IC	IC	IC	IC	IC
41. Differential lock cables				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
42. Differential breathers				IC	IC	IC	IC	IC	IC	IC	IC
43. Ball joints				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
44. Wheel nuts				IC	IC	IC	IC	IC	IC	IC	IC
45. All nuts & bolts				TA	TA	TA	TA	TA	TA	TA	TA

IC = Inspect & clean, TA = Tighten & adjust as required, LF = Lubricate and/or re-fill, RC = Replace / Change

Preventative Maintenance & Service Log

Component	Dealership Responsibilities			Recommended Authorised Dealer or Service Centre				Operators Responsibilities			
	Assembly	Pre-delivery Inspection	Customer Initials	25hrs or 500kms	50hrs or 1,000kms	100hrs or 1,500kms	200hrs or 5,000kms	Weekly	Monthly	Quarterly	Yearly
Braking System											
46. Brake fluid level				LF	LF	LF	RC	LF	LF	LF	RC
47. Brake pads				IC	IC	IC	RC	IC	IC	IC	RC
48. Rotors				IC	IC	IC	IC	IC	IC	IC	IC
49. Callipers				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
50. Master cylinder				TA/LF	TA/LF	TA/LF	TA/LF	TA/LF	TA/LF	TA/LF	TA/LF
51. Brake lines				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
52. Brake pedal				TA	TA	TA	TA	TA	TA	TA	TA
53. Hand brake				TA	TA	TA	TA	TA	TA	TA	TA
54. Brake line lock				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
55. All nuts & bolts				TA	TA	TA	TA	TA	TA	TA	TA
Electrical System											
56. Battery				IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF
57. Starter & solenoid				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
58. ECU				IC	IC	IC	IC	IC	IC	IC	IC
59. Instrument guages				IC	IC	IC	IC	IC	IC	IC	IC
60. Switches & connectors				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
61. Lighting				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
62. Horn				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
63. All nuts & bolts				TA	TA	TA	TA	TA	TA	TA	TA
Suspension											
64. Tyres				IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF	IC/LF
65. A-Arms				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
66. Tie rods				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
67. Ball joints				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA
68. Front suspension strut				IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA	IC/TA

IC = Inspect & clean, TA = Tighten & adjust as required, LF = Lubricate and/or re-fill, RC = Replace / Change

Preventative Maintenance & Service Log

[illegible]

IC = Inspect & clean, TA = Tighten & adjust as required, LF = Lubricate and/or re-fill, RC = Replace / Change

6. Warranty

As the ATM owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. **TUATARA** recommends that all receipts covering maintenance on an ATM are kept, but **TUATARA** will not deny warranty solely for the lack of receipts or for failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your ATM to the **TUATARA** Distributor or Dealer or an authorised repairer as soon as a problem exists. The warranty repairs should be completed within a reasonable time not exceeding 30 days. As the ATM owner, you should be aware that **TUATARA** may deny warranty coverage if the ATM or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications. If you use your vehicle in any type of competitive event, this warranty is immediately and completely void. If you have any questions regarding your warranty rights and responsibilities, you should contact **TUATARA** or one of its Authorised Distributors.

Limited Manufacturer's Vehicle Warranty

The manufacturer hereby warrants that all new **TUATARA** 1000 EFI ATMs purchased from an authorised **TUATARA** dealer will be free from defects in material and workmanship for the period of time stated herein, subject to certain stated limitations. However, no warranty will apply to the purchase of a **TUATARA** ATM from a non-authorised **TUATARA** dealer.

Warranty & Quality Assurance:

The **TUATARA** ATM is warranted to be free from defects in materials and workmanship for a period of **one year** or **800 hours** or **8,000 kilometers** of operation, whichever first occurs, from the date of purchase by the customer. In the event of any material defect or component failure occurring within the warranty period, the customer must contact

the **TUATARA** Dealer from which the machine was purchased to confirm acceptance of the warranty claim by **TUATARA**.

During the Period of the Warranty

Any authorised **TUATARA** dealer will evaluate, repair or replace any part adjudged defective by **TUATARA** due to faulty workmanship or material from the factory. Parts used in warranty repairs will be warranted for the balance of the product's warranty period. All parts replaced under warranty become the property of **TUATARA**. The warranty will cover defective parts and their replacement. The warranty does not cover any cost associated with the removal and / or installation of any defective part, nor any transport charges associated with the delivery of the **TUATARA** ATM to a place of repair or for the cost of travel by a serviceman to affect repairs. The warranty also does not cover any freight costs associated with the delivery of replacement parts under this warranty. However, the exception to this provision applies to the engine, whether electric or petrol powered, the transmission, and the differentials which will be specifically warranted for a period of three months from the date of purchase by the customer and this warranty will also cover the cost of an authorised serviceman's labour as well as any travel costs incurred by the servicemen to affect the repairs. On the expiry of the three months period, the warranty in respect to these specified items will revert to the afore stated "defective parts" warranty.

General Exclusions

Any use of the **TUATARA** ATM in the following circumstances and /or activities will result in the complete voidance of the warranty cover:

1. Competition or racing use.
2. Installation of parts or accessories that are not qualitatively equivalent to genuine **TUATARA** parts.

3. Abnormal strain, neglect, or abuse.
4. Lack of proper maintenance.
5. Accident or collision damage.
6. Modification of original parts.
7. Dirt and/or sand in the fuel system.
8. Damage caused as consequence of the engine being overheated.
9. Failure to operate the **TUATARA** ATM in a reasonable manner that would likely avoid damage to the ATM and / or unnecessary strain or wear to any of the components.
10. Operating the ATM in water that is more than 300mm deep.
11. Operating the ATM at any time in salt water.
12. “Jumping” the ATM in any manner.
13. Failure to operate the ATM in compliance with all applicable laws and safety regulations.
14. Materially altering the ATM in any manner.
15. Installing additional seating other than that authorised by **TUATARA**.
16. Failure to regularly check the tightness and integrity of all bolts and nuts.
17. Failure to properly clean and remove any corrosive material after use of the ATM and / or before any new use.

Specific Exclusions:

Specific exclusions from the warranty shall include “consumable” parts replaced due to normal wear or routine maintenance, including **spark plugs, oil, oil filter, air filter, fuel filter, brake shoes, brake disks, suspension bushes, windscreens, batteries, winch ropes, CV axle, CV Boots, tyres, universal Joints, ball joints, steering rack and tie rods, wheel bearings, clutch plates, pressure plates and any transmission components** damaged as a consequence of neglect or miss shifting.

Warranty Repairs & Servicing:

In order to validate the warranty offered by **TUATARA**, all ATMs must be serviced in strict accordance with the **Preventative Maintenance & Service Log** as outlined in this manual. And any warranty claims must first be assessed by the **TUATARA** dealer from where the ATM was purchased or by an authorised repairer authorised by Tuatara. It will also be permissible for ATM owners to undertake some basic servicing and repairs themselves in circumstances where they possess the necessary competence and facilities to undertake the work themselves. However, in the case of the more technical servicing and repairs, the ATM owner must first nominate a preferred serviceman, who must be a qualified motor mechanic, and who must first complete and return a **TUATARA NOMINATED SERVICEMAN DECLARATION** (ie. see *APPENDIX A*). The completed Tuatara Nominated Serviceman Declaration will be considered by **TUATARA**, and once approved, the ATM owner will then be able to arrange his / her own servicing and repairs.

Customer's Responsibility:

The customer's responsibility under this warranty shall be to:

1. Operate and maintain the **TUATARA** 1000EFI UTV as specified in this manual and in accordance with the **Preventative Maintenance & Service Log**.
2. Give notice to an authorised **TUATARA** dealer of any apparent defects within seven (7) days of first discovery, and make the ATM available for inspection and / or repairs at such dealer's place of business.
3. In the event that the Tuatara UTV is to be repaired by a party other than an authorised Tuatara dealer, approval must first be sought from the Tuatara dealer from whom the machine was purchased, and if requested, evidence must be provided of the current operating hours recorded on the

machine as well as clear photographs demonstrating the nature of the defect(s) to components that are the subject of the warranty claim. Failure to meet this requirement may disqualify the warranty claim.

TUATARA NOMINATED SERVICEMAN DECLARATION

I, _____,
(Name)

(Address)

TUATARA ATM owner, VIN = _____

Purchase date / /

Wish to undertake some limited repairs and / or servicing myself, namely
the following: _____

The servicing that I wish to undertake will be in strict compliance with the
requirements of the **Preventative Maintenance & Service Log** as detailed in this
User Manual.

(Signature) (Date)

I also wish to nominate the following person / company to undertake repairs
and / or servicing on my **TUATARA** ATM, being servicing and / or repairs that I
don't have the competence and / or wish to do myself.

Nominated Servicing Person / Company

(Person name / Company name)

(Address)

(Telephone)

(Email)

I wish to confirm that I would like to undertake servicing and repairs to the **TUATARA** ATM owned by _____. I am a qualified motor mechanic.

I agree that I will undertake all servicing work in strict accordance with the requirements of the **Preventative Maintenance & Service Log**, a copy of which has been provided to me. I also undertake to complete in full, a **Warranty Claim Form** (ie. see *APPENDIX B*) and forward it to Tuatara Machinery Limited for approval prior to carrying out any warranty repairs on the said **TUATARA** ATM.

I also agree to strictly comply with any credit requirements agreed between myself and Tuatara Machinery Limited in relation to payment for spare parts supplied by Tuatara Machinery Limited for the repair of the said **TUATARA** ATM.

(Signature)

(Date)

TUATARA SERVICE RECORDService date: / / Service Interval: **25hrs. or 500kms.**

Model: _____ Engine No: _____

Chassis No: _____ Hours: _____ Kms: _____

Owner: _____

Address: _____

Tel. _____ Email: _____

Component	Code(s)*	Customer / Serviceman initials
Engine oil	RC	
Air filter	RC	
Transmission oil	RC	
Differential oil	RC	
Coolant levels	LF	
Coolant hoses & clamps	TA	
Fuel hoses & clamps	TA	
CV Joints & boots	IC	
Wheel bearings	TA / LF	
Oil seals	IC	
Ball joints	IC / TA	
Wheel nuts	TA	
Brake fluid level	LF	
Clutch fluid level	LF	
Suspension bushes	TA / LF	

***Codes: IC=Inspect & clean, TA=Tighten & adjust as required, LF=Lubricate &/or refill; RC=Replace/change**

Servicing undertaken by: _____(Name)
Company: _____(Name)
Address: _____
Telephone: _____

Signed: _____

WARRANTY VALIDATION

Note that in order to validate the **TUATARA** Warranty, all of the actions referred to in the Preventative Maintenance & Service Log recorded in the **TUATARA** User Manual must be undertaken at the required intervals. In addition, the applicable Tuatara Service Record must be completed and forwarded to:

Tuatara Machinery Limited
291 Weedons Ross Road,
R.D. 5,
CHRISTCHURCH 7675

TUATARA SERVICE RECORD

Service date: / / Service Interval: **50hrs. or 1,000kms.**

Model: _____ Engine No: _____

Chassis No: _____ Hours: _____ Kms: _____

Owner: _____

Address: _____

Tel. _____ Email: _____

Component	Code(s)*	Customer / Serviceman initials
Engine oil	LF	
Air filter	IC	
Transmission oil	LF	
Differential oil	LF	
Coolant levels	LF	
Coolant hoses & clamps	TA	
Fuel hoses & clamps	TA	
CV Joints & boots	IC	
Wheel bearings	TA / LF	
Oil seals	IC	
Ball joints	IC / TA	
Wheel nuts	TA	
Brake fluid level	LF	
Clutch fluid level	LF	
Suspension bushes	TA / LF	

***Codes: IC=Inspect & clean, TA=Tighten & adjust as required, LF=Lubricate &/or refill; RC=Replace/change**

Servicing undertaken by: _____(Name)
Company: _____(Name)
Address: _____
Telephone: _____

Signed: _____

WARRANTY VALIDATION

Note that in order to validate the **TUATARA** Warranty, all of the actions referred to in the Preventative Maintenance & Service Log recorded in the **TUATARA** User Manual must be undertaken at the required intervals. In addition, the applicable Tuatara Service Record must be completed and forwarded to:

Tuatara Machinery Limited
291 Weedons Ross Road,
R.D. 5,
CHRISTCHURCH 7675

TUATARA SERVICE RECORD

Service date: / / Service Interval: **100hrs. or 1,500kms.**

Model: _____ Engine No: _____

Chassis No: _____ Hours: _____ Kms: _____

Owner: _____

Address: _____

Tel. _____ Email: _____

Component	Code(s)*	Customer / Serviceman initials
Engine oil	LF	
Air filter	IC	
Transmission oil	LF	
Differential oil	LF	
Coolant levels	LF	
Coolant hoses & clamps	TA	
Fuel hoses & clamps	TA	
CV Joints & boots	IC	
Wheel bearings	TA / LF	
Oil seals	IC	
Ball joints	IC / TA	
Wheel nuts	TA	
Brake fluid level	LF	
Clutch fluid level	LF	
Suspension bushes	TA / LF	

***Codes: IC=Inspect & clean, TA=Tighten & adjust as required, LF=Lubricate &/or refill; RC=Replace/change**

Servicing undertaken by: _____(Name)
Company: _____(Name)
Address: _____
Telephone: _____

Signed: _____

WARRANTY VALIDATION

Note that in order to validate the **TUATARA** Warranty, all of the actions referred to in the Preventative Maintenance & Service Log recorded in the **TUATARA** User Manual must be undertaken at the required intervals. In addition, the applicable Tuatara Service Record must be completed and forwarded to:

Tuatara Machinery Limited
291 Weedons Ross Road,
R.D. 5,
CHRISTCHURCH 7675

TUATARA SERVICE RECORD

Service date: / / Service Interval: **200hrs. or 5,000kms.**

Model: _____ Engine No: _____

Chassis No: _____ Hours: _____ Kms: _____

Owner: _____

Address: _____

Tel. _____ Email: _____

Component	Code(s)*	Customer / Serviceman initials
Engine oil	RC	
Air filter	RC	
Transmission oil	RC	
Differential oil	RC	
Coolant levels	LF	
Coolant hoses & clamps	TA	
Fuel hoses & clamps	TA	
CV Joints & boots	IC	
Wheel bearings	TA / LF	
Oil seals	IC	
Ball joints	IC / TA	
Wheel nuts	TA	
Brake fluid level	LF	
Clutch fluid level	LF	
Suspension bushes	TA / LF	

***Codes: IC=Inspect & clean, TA=Tighten & adjust as required, LF=Lubricate &/or refill; RC=Replace/change**

Servicing undertaken by: _____(Name)
Company: _____(Name)
Address: _____
Telephone: _____

Signed: _____

WARRANTY VALIDATION

Note that in order to validate the **TUATARA** Warranty, all of the actions referred to in the Preventative Maintenance & Service Log recorded in the **TUATARA** User Manual must be undertaken at the required intervals. In addition, the applicable Tuatara Service Record must be completed and forwarded to:

Tuatara Machinery Limited
291 Weedons Ross Road,
R.D. 5,
CHRISTCHURCH 7675

