

# BEND*ie* **TRUX** **4x4** **TAJ**

OPERATOR MANUAL & PARTS LIST



## MACHINE MODELS

BENDI 300G

BENDI 300D

BENDI 300E

BENDI 450G

BENDI 450D

BENDI 450E

SERIAL Numbers After B151040



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# DECLARATION OF CONFORMITY

## EC DECLARATION OF CONFORMITY

We , **Tufftruk Ltd, Sheen, nr. Buxton, Derbyshire, SK17 0EU, GB**, hereby certify that if the product described within this certificate is bought from an authorised Tufftruk dealer within the EEC, it conforms to the following EEC directives: 2006/42/CE (This directive replaces directive 98/37/EC), Electromagnetic Compatibility Directive 2004/108/CE (as amended by 89/336/EEC, 92/31/EEC & 93/68 EEC).

The Waste Electrical and Electronic Equipment (WEEE) 2002/96/CE, the low voltage directive 2006/95/CE, BS EN ISO 12100-1:2003 Safety of machinery and associated harmonised standards, where applicable.

Noise emissions conform to directive 2000/14/EC Annex VI, for machines under article 12 the notified body is AV Technology Limited, AVTECH House, Birdhall Lane, Cheadle Heath, Stockport, Cheshire, SK3 0XU, GB.

*Noise Technical Files are held at the Tufftruk Head Office address stated above.*

Declare that the following equipment conforms to the Directive: -  
2000/14/EC (as amended) of the European Parliament and of the council on the approximation of the laws of the Member States relating to the *Noise Emission in the Environment by Equipment for Use Outdoors*.

Equipment Category: Pedestrian Power Barrow

Product Name: TRUXTA

Model: B300D & B450D

Serial No:

The technical documentation is held by: TUFFTRUK Ltd Address above

The conformity assessment procedure followed was in according with annex VI of the Directive.

Notified Body: AV Technology Ltd SK9 3RW

Measured Sound Power Level: 97 dB (LWA)

Guaranteed Sound Power Level: 99 dB (LWA)

A copy of this certificate has been submitted to the European Commission and to EU Member State, United Kingdom

Place of Declaration:    Date                      Signed By                      Position in Company

Tufftruk Ltd                      26/09/2017                      Ronald Blackhurst                      Managing Director



Name and address of manufacturer or Authorised representative: Tufftruk Ltd SK17 0EU

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Equipment Category: Pedestrian Power Barrow

Product Name: TRUXTA

Model: B300G

Serial No:

B191 885

The technical documentation is held by: TUFFTRUK Ltd Address above

The conformity assessment procedure followed was in accordance with annex VI of the Directive.

Notified Body: AV Technology Ltd SK9 3RW

Measured Sound Power Level: 91 dB (LWA)

Guaranteed Sound Power Level: 96 dB (LWA)

A copy of this certificate has been submitted to the European Commission and to EU Member State, United Kingdom

Place of Declaration:	Date	Signed By	Position in Company
Tufftruk Ltd	26/09/2017	Ronald Blackhurst	Managing Director



Name and address of manufacturer or Authorised representative: Tufftruk Ltd SK17 0EU

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Equipment Category: Pedestrian Power Barrow

Product Name: TRUXTA

Model: B450G

Serial No:

The technical documentation is held by: TUFFTRUK Ltd Address above

The conformity assessment procedure followed was in accordance with annex VI of the Directive.

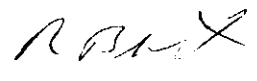
Notified Body: AV Technology Ltd SK9 3RW

Measured Sound Power Level: 94 dB (LWA)

Guaranteed Sound Power Level: 96 dB (LWA)

A copy of this certificate has been submitted to the European Commission and to EU Member State, United Kingdom

Place of Declaration:	Date	Signed By	Position in Company
Tufftruk Ltd	26/09/2017	Ronald Blackhurst	Managing Director



Name and address of manufacturer or Authorised representative: Tufftruk Ltd SK17 0EU

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Equipment Category: Pedestrian Power Barrow

Product Name: TRUXTA

Model: B300E & B450E ELECTRIC OPTIONS

Serial No:

The technical documentation is held by: TUFFTRUK Ltd Address above


The conformity assessment procedure followed was in according with annex VI of the Directive.

Notified Body: AV Technology Ltd SK9 3RW

Measured Sound Power Level: 67 dB

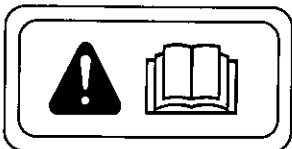
Guaranteed Sound Power Level: 69 dB

A copy of this certificate has been submitted to the European Commission and to EU Member State, United Kingdom

Place of Declaration:	Date	Signed By	Position in Company
Tufftruk Ltd	26/09/2017	Ronald Blackhurst	Managing Director 

Name and address of manufacturer or Authorised representative: Tufftruk Ltd SK17 0EU

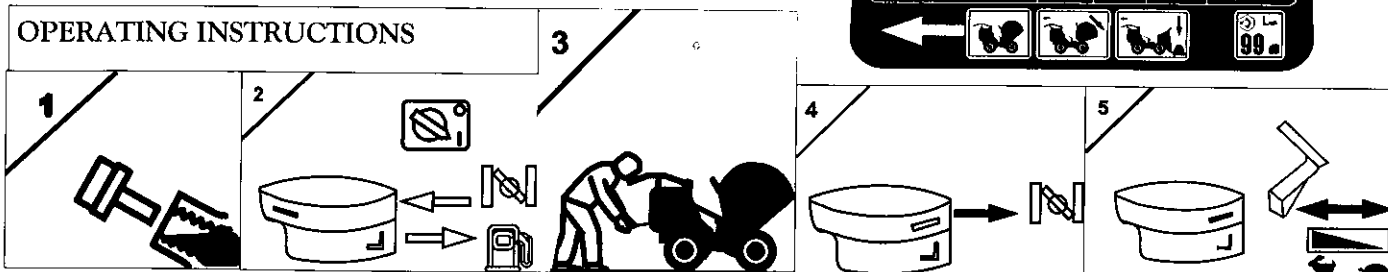
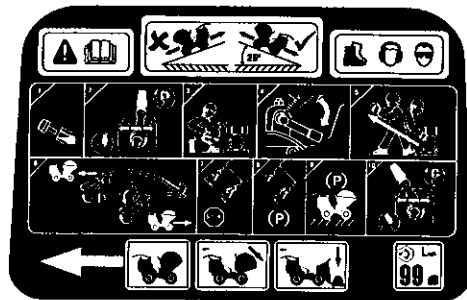
WARNING SYMBOLS & DECALS



Always read the manual before using the TRUXTA

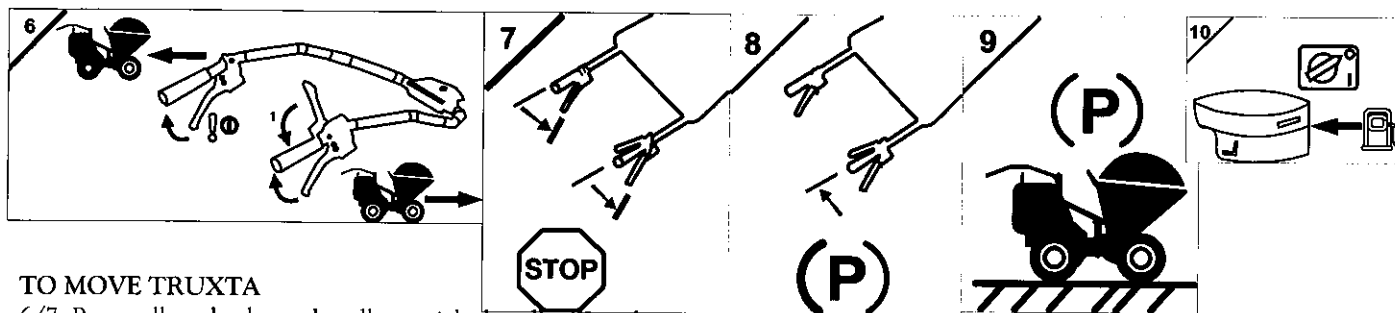


Wear appropriate PPE



1. Always check oil level before starting.  
2. Choke controls starting. 3. Pull to start

4. Adjust choke controls when engine is running.  
5. Engine rpm control lever



TO MOVE TRUXTA

6/7. Press yellow dead-man handle on right handle down for any movement.  
Right handle lower lever for forward motion . Left handle lower lever for reverse motion.

8. TO STOP / PARK

Release dead-man handle to stop.  
Release lower forward / reverse levers

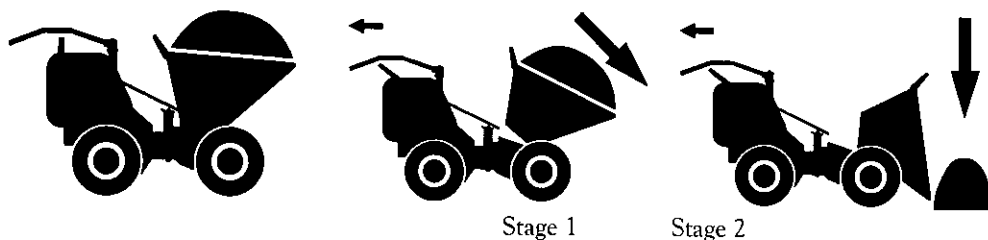
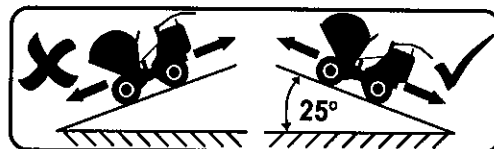
9. Ideally park on flat surface.

10. Engine OFF switch & close fuel tap when transporting to prevent carburettor flooding.

ON INCLINES

Do not use TRUXTA on inclines / ramps above 25°

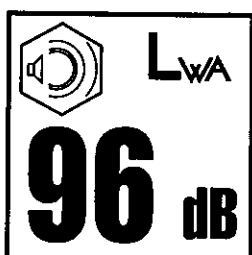
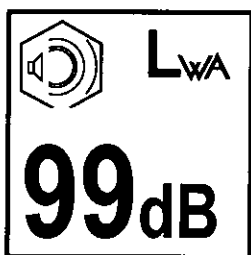
Do Not travel forwards down inclines.



Stage 1

Stage 2

When Tipping always position on a flat Use skip tip handle to release the skip. The skip has a 2-stage tip action to fully empty



Noise limits of the TRUXTA

MACHINE SPECIFICATIONS

<b>TRUXTA BENDI - MACHINE SPECIFICATIONS</b>			
<b>Model</b>	<b>Petrol B300G (Petrol B450G)</b>	<b>Diesel B300D (Diesel B450D)</b>	<b>Electric B300E (Electric B450E)</b>
<b>Engine/Motor/Power (kW)/hp</b>	Honda GX 160 3.6 / 4.8 Honda GX200 4.1 / 5.5	Yanmar L48 3.5/ 4.7 Yanmar L48 3.5 / 4.7	DC Brushless Motor 1000W /24v Motor 1300W / 24v
<b>Fuel Type</b>	Unleaded Petrol (4 stroke)	Diesel	2 x 12v Batteries
<b>Fuel Capacity</b>	3.1 litres / 0.682 gal	2.5 litres / 0.55gal	
<b>Max Payload (kg)</b>	300kg/660lbs/ 7ft <sup>3</sup> / 0.2m <sup>3</sup> (450kg/990lbs /10.6ft <sup>3</sup> / 0.3m <sup>3</sup> )	300kg/660lbs /7ft <sup>3</sup> / 0.2m <sup>3</sup> (450kg/990lbs/10.6ft <sup>3</sup> / 0.3m <sup>3</sup> )	300kg /660lbs/ 7ft <sup>3</sup> / 0.2m <sup>3</sup> (450kg/990lbs/ 10.6ft <sup>3</sup> / 0.3m <sup>3</sup> )
<b>Unladen Weight kg unladen weight lbs</b>	170 (180) 374 (396)	201 (219) 442 (482)	224 (255) 493 (561)
<b>Working Gradient</b>	25°	25°	25°
	<b>Working Gradients – See general safety notes on next page</b>		
<b>Drive &amp; Controls</b>	Hydrostatic System		24v Motor Gearbox
<b>Brake System</b>	Hydrostatic brake system with fail-safe dead-man handle		
<b>Standard Fitment Tyres</b>	Flotation with option for turf tyres		
<b>Travel Speed Fwd/Reverse</b>	0.4 mph forward / 6.44kph 0-1.5 mph / 2.42kph		0-3.5 mph/ 5.63kph 0-1.5 mph / 2.42kph
<b>Noise Level (db.)</b>	<94 (< 96)	< 100	< 69
<b>Hand Arm Vibration</b>	3.6 m/s <sup>2</sup> 4.6 m/s <sup>2</sup>	3.8 m/s <sup>2</sup> 3.8 m/s <sup>2</sup>	2.5 m/s <sup>2</sup> 2.5 m/s <sup>2</sup>
All dimensions unless otherwise stated are in mm and inches			
We reserve the right to change specification without prior notice.			
A 12 month warranty is applicable on all TRUXTA machines.			



## GENERAL SAFETY

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information.

It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely.

If you are unsure about the safe and correct use of the TRUXTA, consult your supervisor or TRUXTA

- This equipment is heavy and must not be lifted single-handedly, **GET HELP** and use suitable lifting equipment.
- Cordon off the work area and keep members of the public and unauthorized personnel at a safe distance.
- Personal Protective Equipment (PPE) must be worn by the operator when ever this equipment is being used (see Health & Safety).
- Make sure you know how to safely switch this machine **OFF** before you switch it **ON** in case you get into difficulty.
- Always switch **OFF** the engine before transporting, moving it around the site or servicing it.
- During use the engine becomes very hot; allow the engine to cool before touching it. Never leave the engine running and unattended.
- Never remove or tamper with any guards fitted, they are there for your protection.
- Always check guards for condition and Security, if any is damaged or missing, **DO NOT USE THE TRUXTA** until the guard has been replaced or repaired.
- Do not operate the machine when you are ill, feeling tired, or when under the influence of alcohol or drugs.
- Do not stand the machine on end with the engine running.
- Do not use the TRUXTA to transport people.
- Do not release the brake suddenly when travelling forward at speed with a heavy load as the machine may topple forward.
- (Brake off). Close the throttle if necessary so that engine braking controls the speed.  
Always ensure that when moving downwards on a hill, the machine is travelling in reverse.
- Before refuelling, switch off the engine and allow it to cool.  
When refuelling, **DO NOT** smoke or allow naked flames in the area.
- Spilt fuel must be made safe immediately, by using sand. If fuel is spilt on your clothes, change them.
- Store petrol/diesel in an approved, purpose made container away from heat and ignition sources.
- If fuel is spilt when re-fuelling the tank, wipe off the excess and wait 2 minutes before re-starting.
- **STEERING THE TRUXTA ON GRADIENTS.**  
DO NOT steer the TRUXTA left or right when travelling up or down a gradient. Always travel in a straight line.  
When travelling across a graduated slope, always travel in a forward direction, maximum gradient 6 degrees (10%) when travelling across with a TRUXTA.
- **ENVIRONMENTAL – Safe Disposal.**  
Instructions for the protection of the environment. The machine contains valuable materials.  
Take the discarded apparatus and accessories to the relevant recycling facilities.

**VIBRATION**

Some vibration from the operation is transmitted through the handle to the operator's hands. **DO NOT** exceed the maximum usage times. (See Technical Data section)

**PPE (Personal Protective Equipment).**

Suitable PPE must be worn when using this equipment i.e. Safety Goggles, Gloves, Ear Defenders, Dust Mask and Steel Toe capped.

Footwear. Wear clothing suitable for the work you are doing. Tie back long hair and remove any jewellery which may catch in the equipment's moving parts.

**Petrol And Diesel Machines.**

Do not ingest fuel or inhale fuel vapours and avoid contact with your skin. Wash fuel splashes immediately. If you get fuel in your eyes, Irrigate with copious amounts of water and seek medical attention as soon as possible.

**Exhaust Fumes**

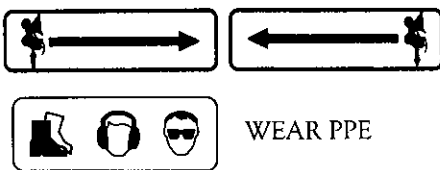
Do not operate the TRUXTA indoors or in a confined space, make sure the work area is adequately ventilated.

**Electric**

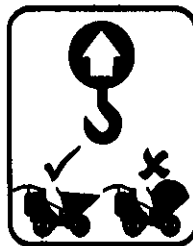
Do not attempt to charge the electric machine if cable or connectors are damaged  
Do not connect or disconnect the machine with wet hands immediately replace damaged charging parts

**SAFETY DECALS**

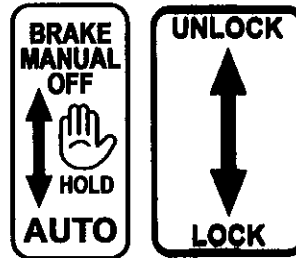
DIRECTION OF TRAVEL



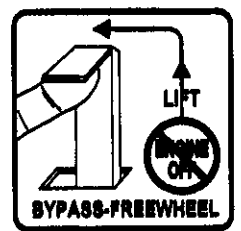
LIFTING POINTS UN-LADEN



BRAKE OVERRIDE, SKIP RETAINER



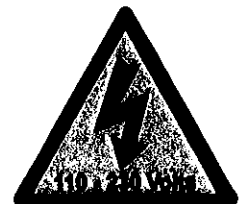
HYDROSTATIC OVER-RIDE



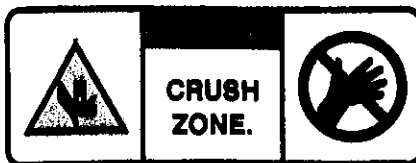
PAYLOAD



VOLTAGE WARNING



CRUSH ZONE WARNING



## OPERATING INSTRUCTIONS - PETROL AND DIESEL

### PRE START UP INSPECTION

The following pre-start-up inspection must be performed before the start of each work session or after every four hours of use, whichever is first.

Please refer to the service section for detailed guidance.

If any fault is discovered, the TRUXTA must not be used until the fault is rectified.

1. Thoroughly inspect the TRUXTA for signs of damage.
2. Check components are present and secure.
3. Check fluid lines, hoses filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
4. Check the engine oil and fuel levels and top up as necessary.
5. Check the tyre pressures and top up as necessary.
6. Check for fuel and oil leaks.

#### **Electric models**

1. Check mains lead is stored correctly and is secured to the machine.
2. Check mains lead is not damaged in any way and replace as necessary.

### OPERATING THE TRUXTA BENDI

1. Start the engine by putting the throttle to the run position and turning the ignition on. (use choke if cold)
2. Grip the dead man lever and hold it down.
3. Use the forward and reverse levers to control direction of travel and speed.
4. Never press both levers at once or whilst the dead man is released as this will cause unnecessary strain on the operation cables

### EMPTYING THE SKIP

1. Stop the machine by releasing the Drive Lever followed by releasing the dead man Brake Lever.
2. Once the machine has become stationary, pull the Skip Release Lever and the Skip will tip forwards disposing of its contents.
3. When the Skip is empty, push back to its original position. The Skip will lock into place automatically.
4. Do not use the skip as a levelling blade as this could result in damage to the tipping under carriage.



#### **CAUTION**

If it is necessary to travel down a slope of more than 15° when fully laden, ensure that the machine is turned round and reverse down the slope.

**OPERATING THE PETROL TRUXTA B300G / B450G**

Start the engine by putting the throttle to the run position and turning the ignition on.  
(use choke if cold)

Grip the dead man lever and hold it down.

Use the forward and reverse levers to control direction of travel and speed. (Never press both levers at once or whilst the dead man is released as this will cause unnecessary damage to the machine.

Release the dead man to stop.

**OPERATING THE L48 ELECTRIC START DIESEL TRUXTA B300D / B450D**

Start the engine by turning the ignition key on. Move throttle to desired speed

Grip the dead man lever and hold it down.

Use the forward and reverse levers to control direction of travel and speed.

Never press both levers at once or whilst the dead man is released as this will cause unnecessary damage to the machine.

**TRANSMISSION BY-PASS FREEWHEEL FACILITY**

This allows the Truxta to be moved without the engine running.

In the event of engine or drive belt failure it is possible to manually move the Truxta by lifting the by-pass lever and locating to the left, then depress the yellow Deadman brake lever and the Truxta will now free-wheel.

The By-pass lever is located next to the oil reservoir under the steering column.

**THE BY-PASS LEVER MUST NOT BE LIFTED WITH THE ENGINE RUNNING.**

## SERVICE & MAINTENANCE - PETROL & DIESEL

### Hydrostatic Oil

Top up if oil is below minimum level when machine is cold. If there are any signs of leakage, stop using the machine and contact your local dealer or Tufftruk Ltd. Refill with motor oil - 20W50

### Machine Cleaning

Clean the machine after it has been used to prevent the collection of hardened debris. Hardened debris is very difficult to remove. To clean it use an old brush or hand brush with water. Never pressure wash or hose down the engine or electric motor housing. Clean only with a cloth or compressed air.

**Air Filter** - If it is dirty, proceed as follows:-

**Foam Element** - Wash the element in a solution of washing-up liquid and water. Allow the element to dry, then soak in clean engine oil and squeeze out the excess oil. If the engine smokes during start-up then too much oil has been left on the foam.

**Paper Element** - Tap the element on a hard surface or blow from inside using compressed air to remove any excess dust within the filter. Replace every 200 hours or if it is extremely dirty.

### Transmission Drive Chains

Clean and lubricate the 3 transmission drive chains once a year.

### Tyre Pressure

Truxta tyre pressure should be regularly checked and maintained at 25PSI (flotation and turf tyres)

### Adjustment of Centre Steering Damper

The Hydraulic damper is maintenance free device, it is adjusted on assembly to provide a medium damping force of approx. 1500N.

The damping force can be adjusted if required to provide lighter or heavier feeling to the steering. Specific details for the adjustment of the damper can be seen in the Truxta workshop manual.

## ROUTINE MAINTENANCE

		Every 20 hours	Every 50 hours	Every 200 hours
ENGINE OIL	CHANGE	✓		
AIR FILTER	CHECK CONDITION CLEAN / REPLACE		✓	
SPARK PLUG	CHANGE			✓

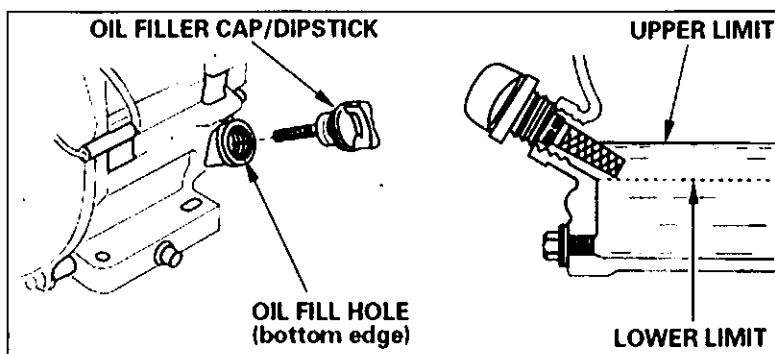
## SPARK PLUG AND OIL DATA

	Engine Oil Type	Quantity (gals)	Fuel Type	Capacity (gals)	Spark Plug	Electrode Gap (mm)	Hydrostatic Transmission Oil
PETROL HONDA	S.A.E 10W30	0.17	UNLEADED SP95 only -EU Octane 91 min US	0.53	BPR5ES	0.07-0.8	20W50
YANMAR DIESEL 148	SAE 5W-30	0.18	DIESEL	0.55	N/A	N/A	20W50

## SERVICE & MAINTENANCE - PETROL & DIESEL

REGULAR SERVICE - HONDA						
Perform at every indicated month or operating hour interval, whichever comes first		Each Use	First Month or 20 hrs	Every 3 months or 50 hrs	Every 6 months or 100 hrs	Every year or 300 hrs
ITEM						
ENGINE OIL	Check level	o				
	Change		o		o	
REDUCTION CASE OIL applicable types	Check level	o				
	Change		o		o	
AIR FILTER	Check					
	Clean		o *		o *	
	Replace					o **
SEDIMENT CUP	Clean				o	
SPARK PLUG	Check-adjust				o	
	Replace					o
SPARK ARRESTER applicable types	Clean				o	
IDLE SPEED	Check-adjust					o
VALVE CLEARANCE	Check-adjust					o
COMBUSTION CHAMBER	Clean	after every 500 hours				
FUEL TANK & FILTER	Clean				o	
FUEL TUBE	Clean	Every 2 years (replace if necessary)				

- \* Internal vent carburettor with dual element type only.
- \*\* Replace paper element type only.



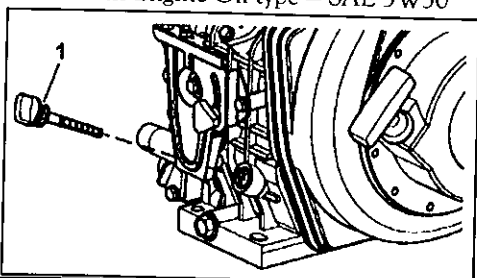
Check oil level daily as shown above, running the engine with a low oil level can cause engine damage.  
 Refill with Engine Oil type – SAE 10W30

# SERVICE & MAINTENANCE - DIESEL

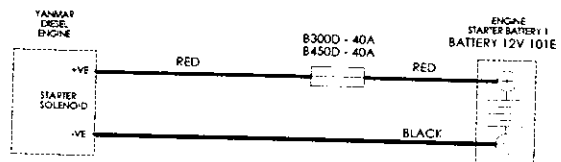
## REGULAR SERVICE - YANMAR

		○ : Check	◇ : Replace	● : Contact your authorized Yanmar industrial engine dealer or distributor for these maintenance services.				
System	Check Item	Daily	Periodic Maintenance Interval					
			Every 50 Hours	Every 200 Hours	Every 400 Hours	Every 1000 Hours	Every 1500 Hours	Every 2000 Hours
Air Intake	Clean or Replace Air Cleaner Element - May Need More Frequent Service in Dusty Conditions			○ 100 hours	◇ 500 hours			
Cylinder Head	Adjust Intake/ Exhaust Valve Clearance		○ 1st time		●			
	Check Compression					●		
Electrical Equipment	Check Battery & Add Water as Necessary	○ before operation						
	Check Battery Indicator (if Equipped) and Other Driven Machine Indicators (if Equipped)	○ when engine is started						
Fuel Injector	Inspect, Clean & Test Fuel Injection Nozzle						●	
Engine Oil	Check Engine Oil Level & Add Engine Oil As Necessary	○ Before operation						
	Drain and Refill Engine Oil		◇ 1st time	◇ 2nd & after				
	Clean Engine Oil Filter - Replace If Damaged May Need More Frequent Service in Dusty Conditions				◇ 2nd & after			
	Check for Engine Oil Leakage	○ before & after operation						
Engine Speed Control	Check for Proper Operation Verify Adjustment	○ 1st time		○ 2nd & after				
Exhaust System	Check Spark Arrestor for Clogging	○ before operation						
Fuel	Check Fuel Tank Level & Add Fuel as Necessary	○ before operation						
	Drain & Clean Fuel Tank			○				
	Clean Inlet Fuel Screen		○					
	Replace Outlet Fuel Filter			○	◇			
	Check for Fuel Leakage	○ before & after operation						
Hoses	Replace Fuel System Hose (s)							● or every 2 yrs. whichever comes first

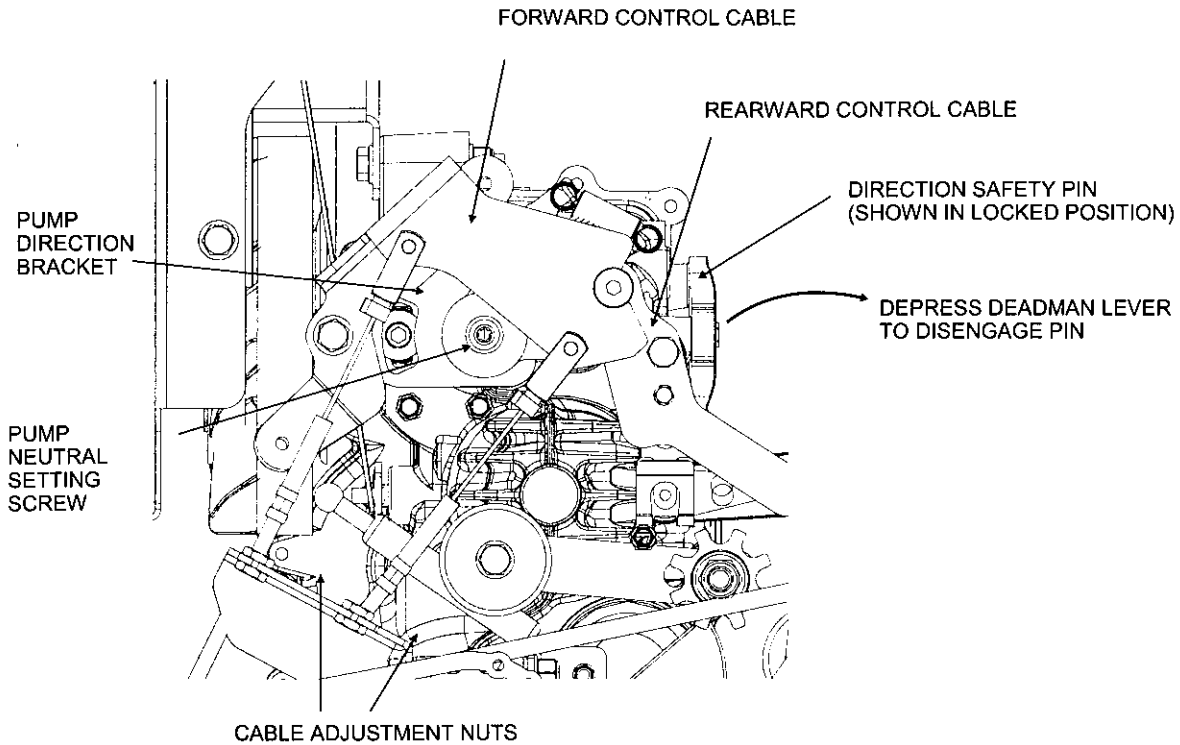
Check oil level daily as shown above, running the engine with a low oil level can cause engine damage. Refill with Engine Oil type – SAE 5W30



### POWER CIRCUIT Diesel Electric Start



**PUMP CONTROL SETTINGS & ADJUSTMENT**

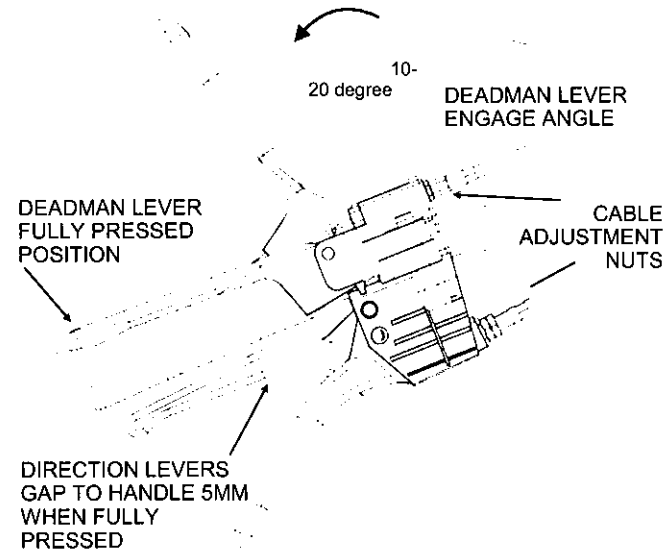


1: Adjust Deadman lever cable tension if required, see engage angle. Adjust cable adjustment nuts. With Deadman lever in fully pressed position ensure the direction safety pin is clear of control plate (see above)

2: Adjust forward/reverse direction levers cable tension if required, ensure 3mm - 5mm gap when fully pressed. Adjust cable adjustment nuts.

3: Ensure that with forward lever fully pressed the pump direction bracket turns  
15 degree forward direction 75 rpm @ wheels

4: Ensure that with rearward lever fully pressed the pump direction bracket turns  
5 degree rearward direction 30 rpm @ wheels



**PUMP NEUTRAL SETTING**

1: Adjust pump neutral setting if required if machine creeps forwards/backwards when in neutral,

- disconnect forward and rearward control cables
- fully press Deadman lever to disengage the direction safety pin
- loosen pump neutral setting screw
- adjust angle of pump control bracket by rotating forward/backward until no creep
- re tighten pump neutral setting screw when wheel rotation is 0 rpm



## OPERATING INSTRUCTIONS & CHARGING - ELECTRIC TRUXTA

### OPERATING THE TRUXTA

Pull out large red button. (DEADMAN KILL SWITCH)

Turn ignition key on.

Depress dead man lever (yellow) on right hand controls.

To Move Forward – squeeze right hand lever to move forward.

To Reverse – squeeze and hold left hand lever, then squeeze the right hand lever to move the machine in reverse.



### STOPPING THE TRUXTA

Release the right hand lever to stop the machine

Release the dead man yellow lever to engage the parking brake

In emergencies hit the large red button (DEADMAN KILL SWITCH)

When machine is not in use, always push in the large red button.

### PARKING BRAKE

The Parking Brake operates automatically when the dead man lever (yellow) is in the upright position.

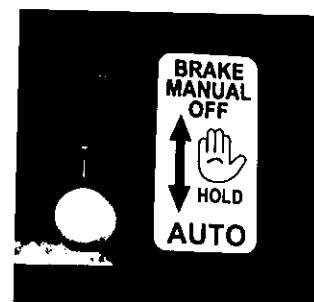
The brake is on until the dead-man (yellow) lever is compressed to release it.

### MOVING the TRUXTA with NO POWER

For manual brake release when the machine has no power

Push brake release lever forward and hold

TRUXTA can now be moved manually.



### CHARGING THE ELECTRIC TRUXTA

- TRUXTA has a built-in 24v charger
- Turn off ignition switch.
- Push in the large red button.
- Connect the cable provided to a mains supply 110-230 v. Charger is dual voltage.
- Check batteries are charging by observing small window on left hand side of battery box.
- The CHARGING light is normally ORANGE which changes to GREEN when the battery is fully charged.
- The charger is a Smart Charger, it can be left connected to the batteries after full charge (green light) without harming batteries. The charger uses minimum power in this stand-by mode (after battery is fully charged), maintains the batteries at full charge and extends battery life.

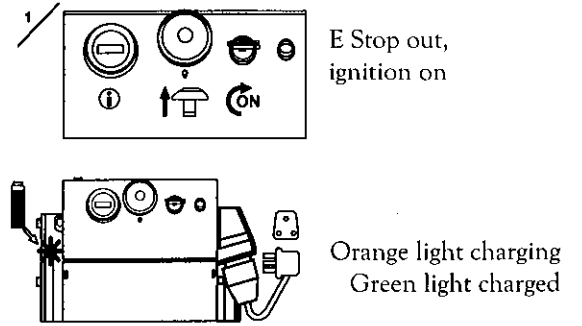
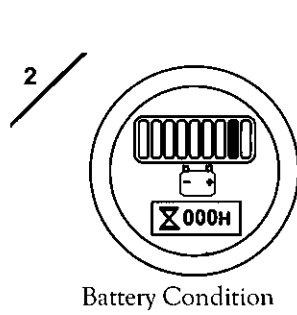
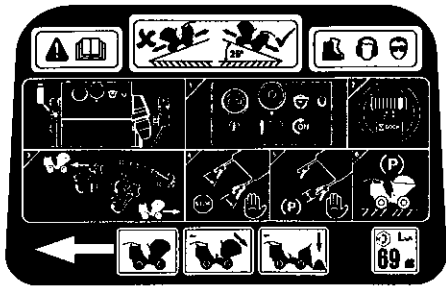
### MACHINE CLEANING

Clean the machine after it has been used to prevent the collection of hardened debris. Hardened debris is very difficult to remove. To clean it use an old brush or hand brush with water. Never pressure wash or hose down the electric motor housing. Clean only with a cloth or compressed air.

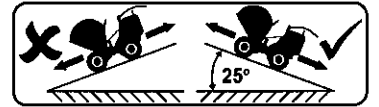
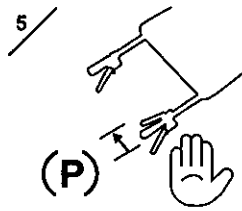
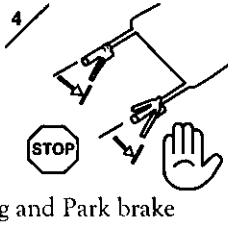
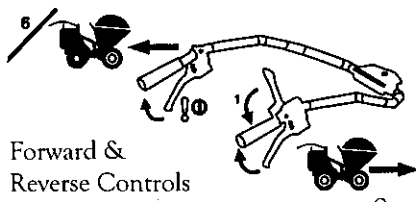
### TRANSMISSION DRIVE CHAINS

Clean and lubricate the 3 transmission drive chains once a year.

# ELECTRIC TRUXTA - WARNING SYMBOLS & DECALS



## OPERATING INSTRUCTIONS



### TO MOVE TRUXTA

Press yellow dead-man handle on right handle down for any movement.  
Right handle lower lever for forward motion.  
RH & LH lower lever together for reverse motion.

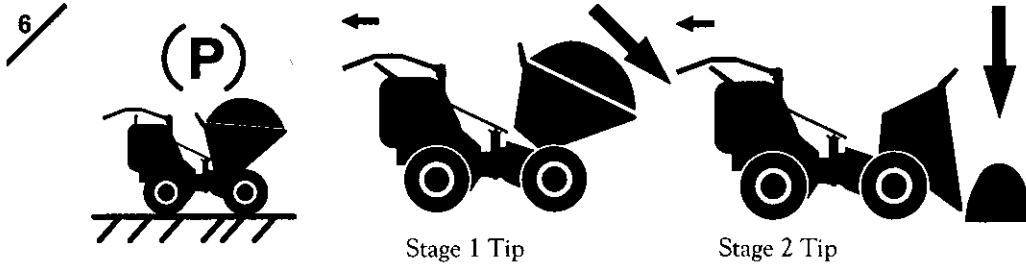
### TO STOP / PARK

Release dead-man handle to stop.  
Release lower forward / reverse levers.  
Ideally Park on flat surface.

### ON INCLINES

Do not use TRUXTA on inclines / ramps above 25°  
Do Not travel forwards down inclines.

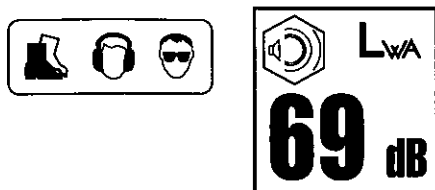
### SKIP TIP, GRADIENT WARNING, PPE & NOISE LEVEL



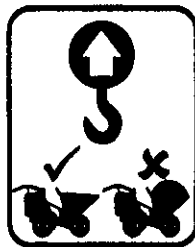
### DIRECTION OF TRAVEL



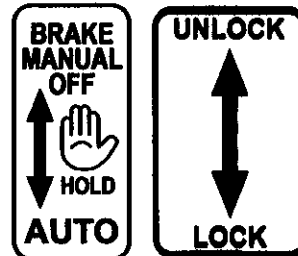
### PPE , NOISE LEVEL



### LIFTING POINTS UN-LADEN



### BRAKE OVERRIDE, SKIP RETAINER



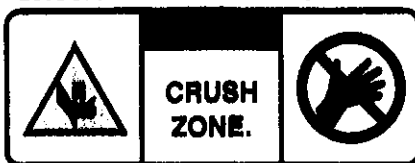
### PAYLOAD



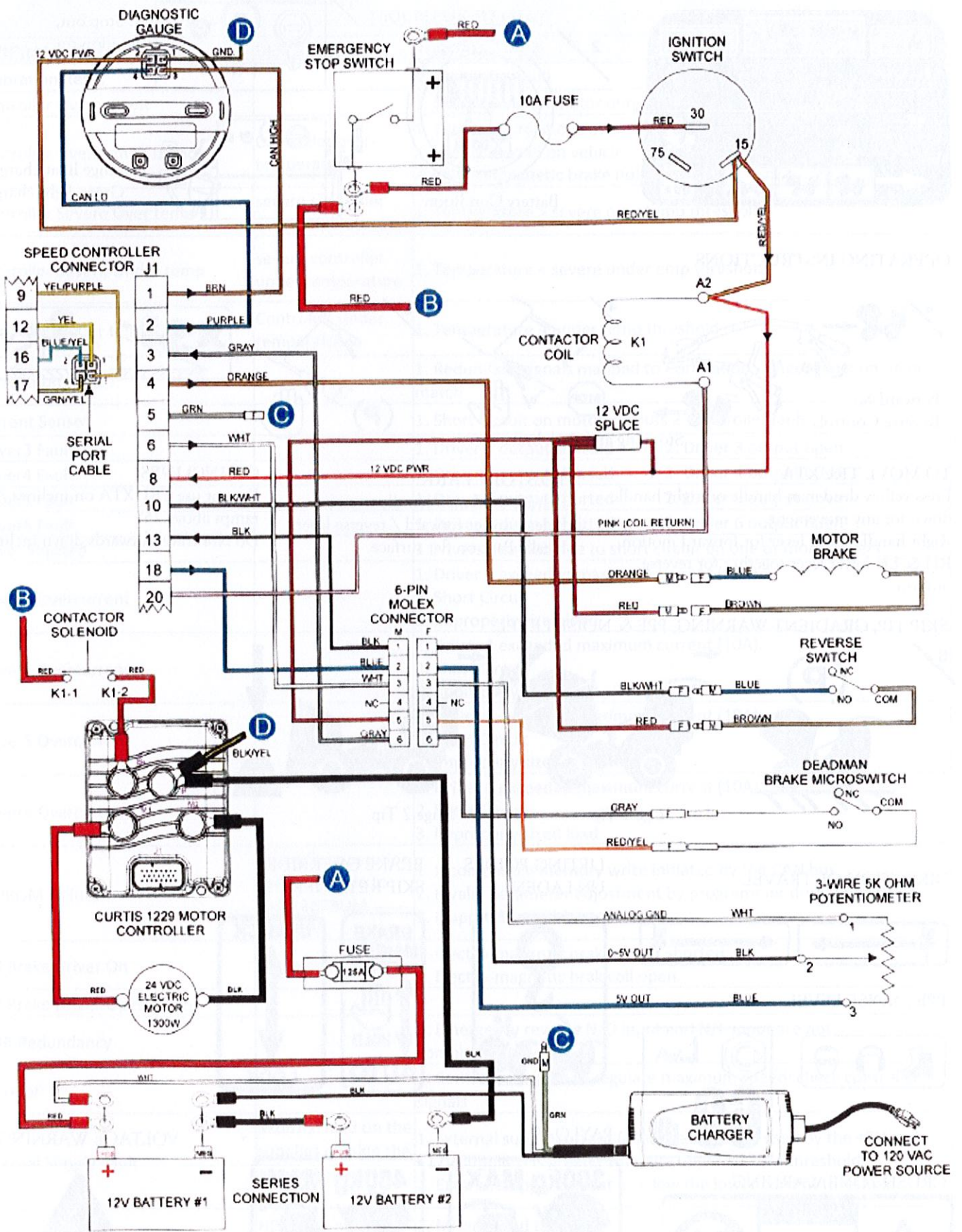
### VOLTAGE WARNING



### CRUSH ZONE WARNING



# ELECTRIC TRUXTA - WIRING DIAGRAM - DIAGNOSTICS & TROUBLESHOOTING



## ELECTRIC TRUXTA - DIAGNOSTICS & TROUBLESHOOTING

### TRUXTA Electric Service Diagnostics

The 1229 controller detects a wide variety of faults or error conditions.

Diagnostic information can be obtained through the 3100R fuel gauge display where an error code in the format "Err ##"; the codes are listed in Table 4.

The troubleshooting chart (Table 5) describes the faults and their possible causes; the faults are listed in alphabetical order.

Whenever a fault is encountered and no wiring or vehicle fault can be found, shut off KSI and turn it back on to see if the fault clears. If it does not, shut off KSI and remove the 35-pin connector. Check the connector for corrosion or damage, clean it if necessary, and re-insert it.

<b>Table 4 ERROR CODES ON 3100R GAUGE</b>			
1	HW Failsafe	42	Pot 2
2	PLD Clock Fail	43	Pot 3
9	Calibration Reset	50	Severe Undervoltage
10	Main Brake Driver Overcurrent	52	Controller Severe Undertemp
11	Main Driver Open Drain	53	Controller Severe Overtemp
12	EMR Redundancy	54	Pre-charge Failed
13	EEPROM Failure	70	Driver Shorted
15	Main Current dropped	71	Driver 3 Fault
16	Current Sensor	72	Driver 3 Overcurrent
17	Main Contactor Welded	73	Driver4 Fault
18	Encoded	74	Driver4 Overcurrent
19	PDO Timeout	75	Driver5 Fault
20	Supervisor Comms	76	Driver 5 Overcurrent
21	Supervisor Watchdog	77	Driver6 Fault
22	Supervisor Pot1 Fault	78	Driver6 Overcurrent
23	Supervisor Pot2 Fault	79	Correlation Fault
24	Supervisor Pot3 Fault	80	HPD Sequencing
25	Supervisor PotH Fault	81	Parameter Change
26	Supervisor Sw1 Fault	82	NV Memory Fault
27	Supervisor Sw2 Fault	90	Motor Temp Hot Cutback
28	Supervisor Sw3 Fault	92	Motor Open
29	Supervisor Sw4 Fault	93	Controller Overcurrent
30	Supervisor Sw5 Fault	94	VBAT Too High
31	Supervisor KSI Voltage Fault	95	Controller Undertemp Cutback
32	Supervisor Motor Speed Fault	96	Stall Detected
33	Supervisor DIR Check Fault	97	Controller Overtemp Cutback
34	External Supply Fault	98	Overvoltage Cutback
36	EMBrake Driver Open Drain	99	Undervoltage Cutback
37	EMBrake Driver On	101	User Fault Estop
41	Pot 1	102	User Fault Severe

## DIAGNOSTICS & TROUBLESHOOTING - TRUXTA ELECTRIC

<b>TRUBLESHOOT CHART</b>		
<b>PROGRAMMER LCD DISPLAY</b>	<b>DESCRIPTION</b>	<b>POSSIBLE CAUSE</b>
Calibration Reset		1. Controller Fault
Controller Overcurrent		1. Short circuit on motor outputs
Controller Over temp Cutback	Controller over-temperature	1. Temperature above over temp threshold. 2. Excessive load on vehicle. 3. Electro-magnetic brake not releasing
Controller Severe Over temp	severe controller overtemperature	1. Temperature > severe over temp threshold
Controller Severe Under temp	severe controller under temperature	1. Temperature < severe under emp threshold
Controller Under temp Cutback	Controller Under temperature	1. Temperature < under temp threshold
Correlation Fault		1. Redundant signals mapped to Correlation - Check function do not match
Current Sensor		1. Short Circuit on motor outputs 2. Controller fault
Driver3 Fault		1. Driver 3 output shorted      2. Driver 3 output open
Driver4 Fault		1. Driver 4 output shorted      2. Driver 4 output open
Driver5 Fault		1. Driver 5 output shorted      2. Driver 5 output open
Driver6 Fault		1. Driver 6 output shorted      2. Driver 6 output open
Driver Shorted		1. Drivers disabled due to short circuit on one or more drivers
Driver3 Overcurrent		1. Driver 3 exceeded maximum current (10A). 2. Short Circuit 3. Improperly sized load
Driver4 Overcurrent		1. Driver 4 exceeded maximum current (10A). 2. Short Circuit 3. Improperly sized load
Driver5 Overcurrent		1. Driver 5 exceeded maximum current (10A). 2. Short Circuit 3. Improperly sized load
Driver6 Overcurrent		1. Driver 6 exceeded maximum current (10A). 2. Short Circuit 3. Improperly sized load
EEPROM Failure	controller operation system unable to write EEPROM memory	1. Incompatible memory write initiated by the CAN bus. 2. Invalid parameter adjustment by programmer during operation 3. Inappropriate software loaded
EM Brake Driver On	brake on fault	1. Electro-magnetic brake driver shorted 2. Electro-magnetic brak coil open
EM Brake Driver Open Drain		
EMR Redundancy		1. Emergency reverse N/O input and N/C input are not complementary
Encoder		1. Controller unable to regulate maximum speed: check controller signals
External Supply Fault	external load on the supplies outside the allowed current range	1. External supply current (combined current used by the +5V and +17V supplies) is greater than the upper current threshold. 2. External supply current is below the lower current threshold.
HPD Sequencing	HPD fault present > 10 seconds	1. Misadjusted throttle 2. Broken throttle pot or throttle mechanism.
HW Failsafe	motor fault voltage (hardware failure)	1. Motor voltage does not correspond to throttle request. 2. Short in motor or in motor wiring.

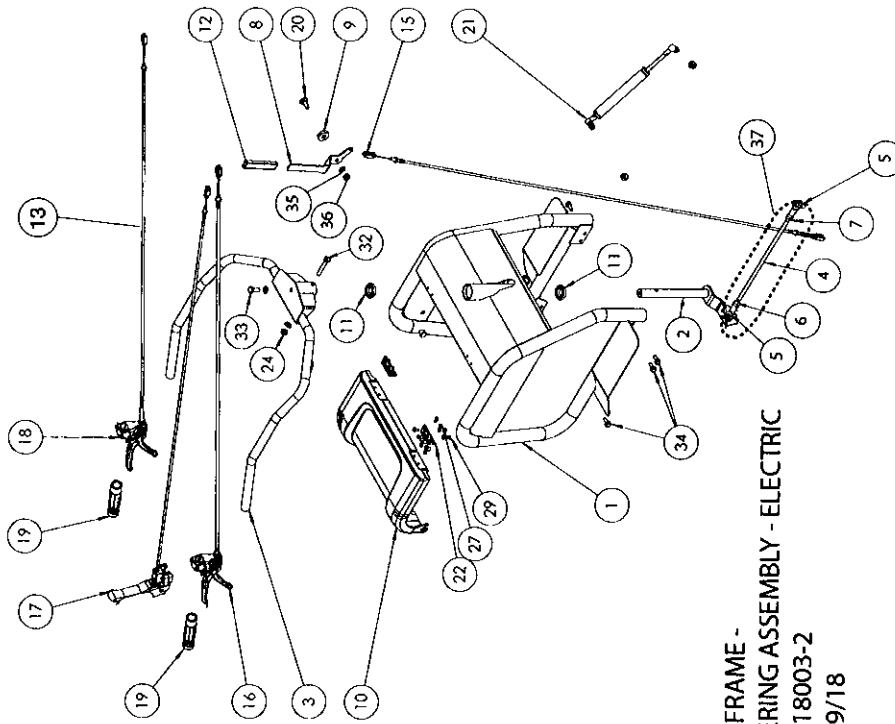
## ELECTRIC TRUXTA - DIAGNOSTICS & TROUBLESHOOTING

<b>PROGRAMMER LCD DISPLAY</b>	<b>DESCRIPTION</b>	<b>POSSIBLE CAUSE</b>
Main Brake Driver Overcurrent		Short circuit or improperly sized load, on Driver 1 or Driver 2
Main Contactor Dropped		1. Main contractor failed open.
Main Contactor Welded	main contractor on fault	Main contractor failed closed
Main Driver Open Drain		1. Main contactor coil not connected
Motor Open		1. Traction motor not connected.
Motor Temp Hot Cutback	motor temperature too high	1. Motor temperature above the motor hot threshold.
NV Memory Fault		1. Controller fault; cycle KSI.
Overvoltage Cutback		1. Battery voltage > overvoltage threshold. 2. Vehicle operating with charger attached. 3. Intermittent battery connection.
Parameter Change		1. Critical setting changed: cycle KSI for change to take effect.
PDO Timeout	CAN PDO message timing fault	1. Time between CAN PDO messages received exceeded the PDO Timeout period
PLD Clock Fail		1. Controller fault.
Pot1		1. Pot 1 input: out of range.
Pot2		1. Pot 2 input: out of range.
Pot3		1. Pot 3 input: out of range.
precharge Failed	Pre-charge fault	1. Low battery voltage 2. Short circuit on traction motor outputs.
Severe Undervoltage	battery voltage extremely low	1. battery voltage < severe undervoltage threshold. 2. Bad connection at battery or controller.
Stall Detected		1. Encoder input not reporting speed correctly; check connections.
Supervisor Comms		Lost communication with supervisor micro.
Supervisor Dir Check Fault		<p style="text-align: center;">If the fault is on an external signal, check that signal first.</p> <p style="text-align: center;">If there is no problem with the external signal, the supervisor fault likely indicates an internal controller fault.</p> <p style="text-align: center;">Note: If an encoder is connected to switch 5 but switch 5 is configured as "encodr disabled" (programme,, I/O Map,, Speed Sensor,, 40-vehicle Speed,, Encoder Enable = Off) it will result in a Supervisor Sw5 Fault at some speeds.</p>
Supervisor KSI Voltage Fault		
Supervisor Motor Speed Fault		
Supervisor Pot1 Fault		
Supervisor Pot2 Fault		
Supervisor Pot3 Fault		
Supervisor PotH Fault		
Supervisor Sw1 Fault		
Supervisor Sw2 Fault		
Supervisor Sw3 Fault		
Supervisor Sw4 Fault		
Supervisor Sw5 Fault		
Supervisor Watchdog		
Undervoltage Cutback	battery voltage too low	
User Fault Estop	User Programmed Fault	

TOP FRAME - PARTS LIST - ELECTRIC & PETROL / DIESEL

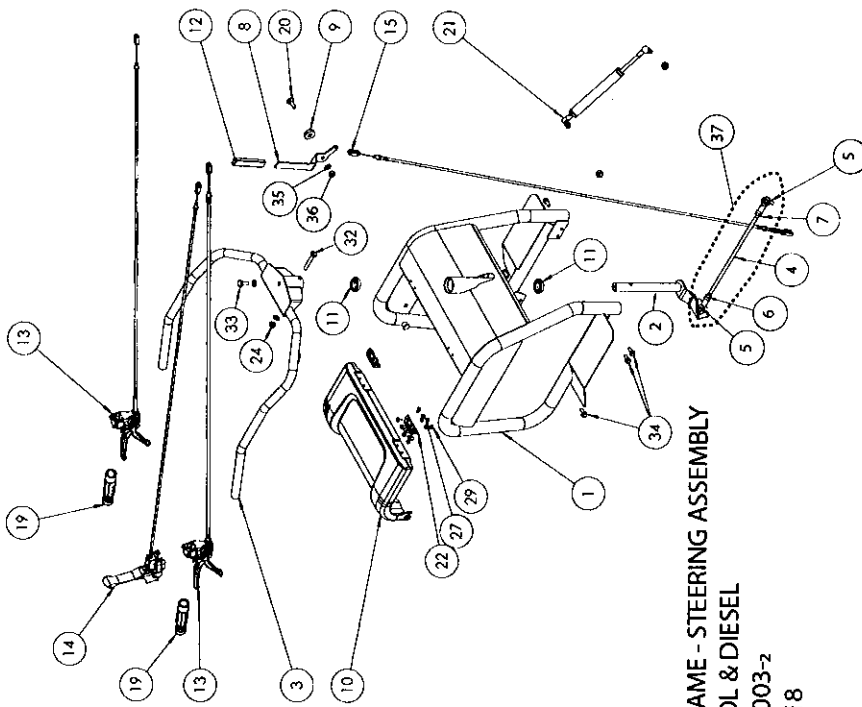
TOP FRAME STEERING ASSEMBLY .....PETROL & DIESEL				TOP FRAME STEERING ASSEMBLY .....ELECTRIC					
ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES	ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES
1	101-00400	TOP FRAME WA	1		1	101-00400	TOP FRAME WA	1	
2	101-00800	REAR STEERING PIVOT WA	1		2	101-00800	REAR STEERING PIVOT WA	1	
3	101-01000	HANDLE AND PIVOT WA	1		3	101-01000	HANDLE AND PIVOT WA	1	
4	101-00901	ROD STEERING	1	UP TO SERIAL B181709	4	101-00901	ROD STEERING	1	SERIAL NO UP TO B181709
5	3-5026-0	ROD END M10 RH	2	UP TO SERIAL B181709	5	3-5026-0	ROD END M10 RH	2	SERIAL NO UP TO B181709
6	8-10003	NUT M10 BZP	1		6	8-10003	NUT M10 BZP	1	
7	8-10005	NUT M10 THIN LH	1	UP TO SERIAL B181709	7	8-10005	NUT M10 THIN LH	2	SERIAL NO UP TO B181709
8	101-99914	PRESSING TIP HANDLE	1		8	101-99914	PRESSING TIP HANDLE	1	
9	102-99939	SPACER TIP LEVER	1		9	102-99939	SPACER TIP LEVER	1	
10	101-99945	ENGINE COVER	1		10	101-99945	ENGINE COVER	1	
11	53-0160	BEARING BALL 42x25x9	2		11	53-0160	BEARING BALL 42x25x9	2	
12	72-0200	MOULDING TIP HANDLE	1		12	72-0200	MOULDING TIP HANDLE	1	
13	70-0164	HANDLE HARNESS REV ELECTRIC	1		13	70-0164	HANDLE HARNESS REV ELECTRIC	1	
14	75-01500	CABLE FWD / REV ASSY	2		15	75-00900	CABLE SKIP RELEASE (B)	1	
15	75-01700	CABLE ASSY DEADMAN	1		16	75-01900	CABLE ASSY FWD ELECTRIC	1	
16	75-00900	CABLE SKIP RELEASE (B)	1		17	75-02000	HANDLE ASSY DEADMAN ELECTRIC	1	
17	74-1022	HANDLE GRIP	2		18	75-02100	CABLE ASSY REV ELECTRIC	1	
18	7-10130	COACHBOLT M10 X 30	1		19	74-1022	HANDLE GRIP	2	
19	2-1100	DAMPER ASSEMBLY	1		20	7-10130	COACHBOLT M10 X 30	1	
20	74-1023	HINGE 50x50x6	2		21	2-1100	DAMPER ASSEMBLY	1	
21	4-1005	WASHER FLAT M10 FORM A BZP	5		22	74-1023	HINGE 50x50x6	2	
22	8-10006	NUT M10 NYLOC	4		23	4-1005	WASHER FLAT M10 FORM A BZP	5	
23	7-6056	M6 X 15 BUTTON HD CAP	4		24	8-10006	NUT M10 NYLOC	4	
24	4-6001	WASHER M6 FORM A BZP	8		25	7-6056	M6 X 15 BUTTON HD CAP	4	
25	7-6007	SCREW - 6 X 15 CSK SCREW BZP	4		26	4-6001	WASHER M6 FORM A BZP	8	
26	4-6018	WASHER M6 X 20 X1.2 BZP	4		27	7-6007	SCREW - 6 X 15 CSK SCREW BZP	4	
27	8-6007	NUT M6 NYLOC	8		28	4-6018	WASHER M6 X 20 X1.2 BZP	4	
28	4-8006	WASHER M8 FORM A BZP	2		29	8-6007	NUT M6 NYLOC	8	
29	8-8008	NUT M8 NYLOC BZP	2		30	4-8006	WASHER M8 FORM A BZP	2	
30	9-10012	BOLT M10 X 60 BZP	1		31	8-8008	NUT M8 NYLOC BZP	2	
31	7-10005	SCREW SET M10 X 25 BZP	1		32	9-10012	BOLT M10 X 60 BZP	1	
32	7-8080	BOLT M8 X 20 HEX BZP	6		33	7-10005	SCREW SET M10 X 25 BZP	1	
33	4-1005	M10 FORM A WASHER	1		34	7-8080	BOLT M8 X 20 HEX BZP	6	
34	8-10002	M10 THIN NUT	2		35	4-1005	M10 FORM A WASHER	1	
35	101-04700	STEERING ROD ASSY	1	SERIAL NO FROM B181710	36	8-10002	M10 THIN NUT	2	
36					37	101-04700	STEERING ROD ASSY	1	SERIAL NO FROM B181710

TOP FRAME STEERING ASSEMBLY - ELECTRIC



TOP FRAME -  
STEERING ASSEMBLY - ELECTRIC  
800-18003-2  
03/09/18

TOP FRAME STEERING ASSEMBLY - PETROL & DIESEL



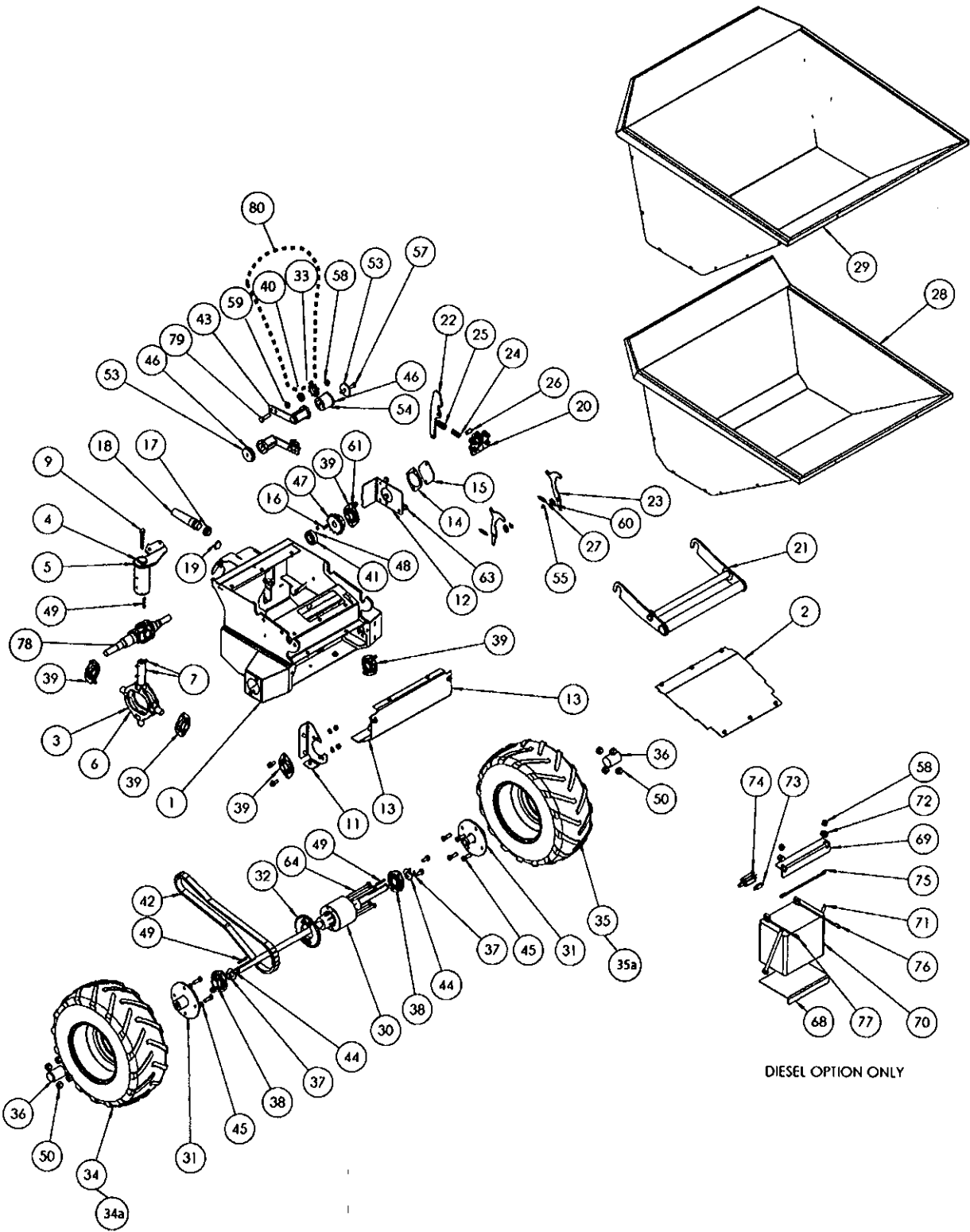
TOP FRAME - STEERING ASSEMBLY  
- PETROL & DIESEL  
800-18003-2  
03/09/18



FRONT CHASSIS - PARTS LIST PETROL / DIESEL

PART NUMBER	DESCRIPTION	QTY	NOTES	PART NUMBER	DESCRIPTION	QTY	NOTES
1	101-03300 CHASSIS FRONT WA	1		40	53-0130 BEARING BALL 26x10x8	2	SERIAL NO UP TO B181628
2	101-99908 PRESSING MIDDLE COVER	1		41	53-0170 BEARING BALL 25x47x12	1	
3	101-04100 GIMBLE WA KEVED	1		42	21-2100 CHAIN 5/8" 67R FRONT	1	
4	101-04000 CENTRE STEERING PIVOT WA KEVED	1		43	2-1001 TENSIONER ASSEMBLY	2	
5	101-00500 GIMBLE WA 3/4"	1	SERIAL NO UP TO B151049	44	4-9021 WASHER 3/4" ID X 38 X 2.0	2	
6	101-00100 PIN SPIROL 8 X 50 LONG	1	SERIAL NO UP TO B151049	45	7-10050 WHEEL STUD 3/8"X24UNF	8	
7	3-0093 WASHER M8 FORM A BZP	2	SERIAL NO UP TO B151049	46	4-9031 WASHER 50X8.5X1.5 BZP	6	
8	4-8006 SCREW SET M8 X 70mm (PLAIN)	14		47	21-1500 COG 13T 66.32PCD	1	
9	7-8061 WASHER M8 SPRING BZP	1		48	7-6031 SCREW GRUB M6 X 12	2	
10	4-8003 PRESSING BEARING FRONT	2		49	21-1200 KEY 3/16"SQ X 40mm	3	
11	102-99921 COVER BEARING FRONT	1		50	8-3800 WHEEL NUT - 3/8" UNF	8	
12	101-99961 PRESSING FRONT COVER	1		51	8-6011 RIVNUT M6 HEXAGON	8	
13	102-99948 SPACER BEARING COVER	1		52	8-8011 RIVNUT M8 HEXAGON	4	
14	101-99943 PLATE BEARING COVER	1		53	102-99940 BOSS TENSIONER SUPPORT	2	
15	101-99942 KEY 6X6X25	1		54	104-99913 BOSS TENSIONER SPACER	1	
16	21-1600 NUT 25mm BULK HD	1		55	3-1050 CLIP-E (TO SUIT DIA 12 SHAFT)	2	
17	70-5011 CABLE GLAND	1		56	7-10003 SCREW SET M10 X 35 BZP	2	
18	70-5030 BLANKING PLUG 25MM	1		57	2260305 BOLT M8 X 40 HEX BZP	1	
19	72-1000 SKIP CATCH BRACKET WA	1		58	8-10006 NUT M10 NYLOC	4	
20	101-01200 FRAME SKIP CARRIER W.A	1		59	8-10002 NUT M10 BZP THIN	2	
21	101-02100 PLATE SKIP CATCH	1		60	4-1204 WASHER M12 FORM A BZP	2	
22	101-02901 PRESSING TIP RETAINER	2		61	9-8067 BOLT M8 X 25 COACH	2	
23	101-99929 SPRING INNER	1		62	8-8008 NUT M8 NYLOC BZP	6	
24	2-1012 SPRING OUTER	1		63	7-8080 BOLT M8 X 20 HEX BZP	24	
25	2-1013 PIN LATCH PIVOT	1		64	7-8037 DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
26	3-0091 SPRING EXT (RETAINER CATCH)	2		65	8-8024 NUT 5/16" UNC NYLOC BZP	6	
27	100-00500 SKIP 300 W.A. (LIME GREEN)	1	BENDI 300	66	7-6060 SCREW M6 X 14 SER HD BZP	8	
28	100-01100 DIFFERENTIAL AXLE FRONT - 100-248EP-18024	1	BENDI 450	67	7-8007 BOLT M8 X 35 BZP	1	
29	102-03100 HUB W.A.	2		68	101-99957 PRESSING BATTERY CARRIER	1	DIESEL OPTION
30	104-99925 GEAR 22T PCD111.55	1		69	101-99958 BRACKET BATTERY CLAMP	1	DIESEL OPTION
31	104-99926 COG 8T 41.48PCD	2	SERIAL NO UP TO B181628	70	70-2900 BATTERY 12V 101E	1	DIESEL OPTION
32	60-6509RHF WHEEL ASSY 16X6.5X8	1	BENDI 300	71	9-10033 M10 X 220 COACHBOLT	2	DIESEL OPTION
33	60-6509LHF WHEEL ASSY 16X6.5X8	1	BENDI 450	72	4-1004 WASHER M10 FORM C BZP	2	DIESEL OPTION
34	60-6509LHF WHEEL ASSY 16X6.5X8	1	BENDI 300	73	70-0138 FUSE INLINE 70A FLAT DIA6	1	DIESEL OPTION
35	60-6509RHF WHEEL ASSY 16X6.5X8	1	BENDI 450	74	70-0130 FUSE HOLDER INLINE	1	DIESEL OPTION
35a	60-6509RHF WHEEL ASSY 16X6.5X8	1	BENDI 300	75	70-0144 POWER CABLE + VE 1200MM 6/6 DIESEL	1	DIESEL OPTION
36	72-0400 MOULDING HUB COVER	2	BENDI 450	76	70-0145 POWER CABLE -VE 1200MM 6/6 DIESEL	1	DIESEL OPTION
37	3-1061 CLIP E- 3/4" SHAFT	2		77	70-0146 POWER CABLE +VE 300MM 6/6 DIESEL	1	DIESEL OPTION
38	53-0110 BEARING BALL 25 bore mounted	2		78	21-0650 DRIVESHAFT ASSY	1	
39	53-0120 BEARING BALL 19.05 bore mounted	5		79	9-10007 M10 X50 BOLT	2	
				80	104-999265P COG / SLIPPER KIT	2	SERIAL NO FROM B181629

FRONT CHASSIS - ASSEMBLY—PETROL / DIESEL

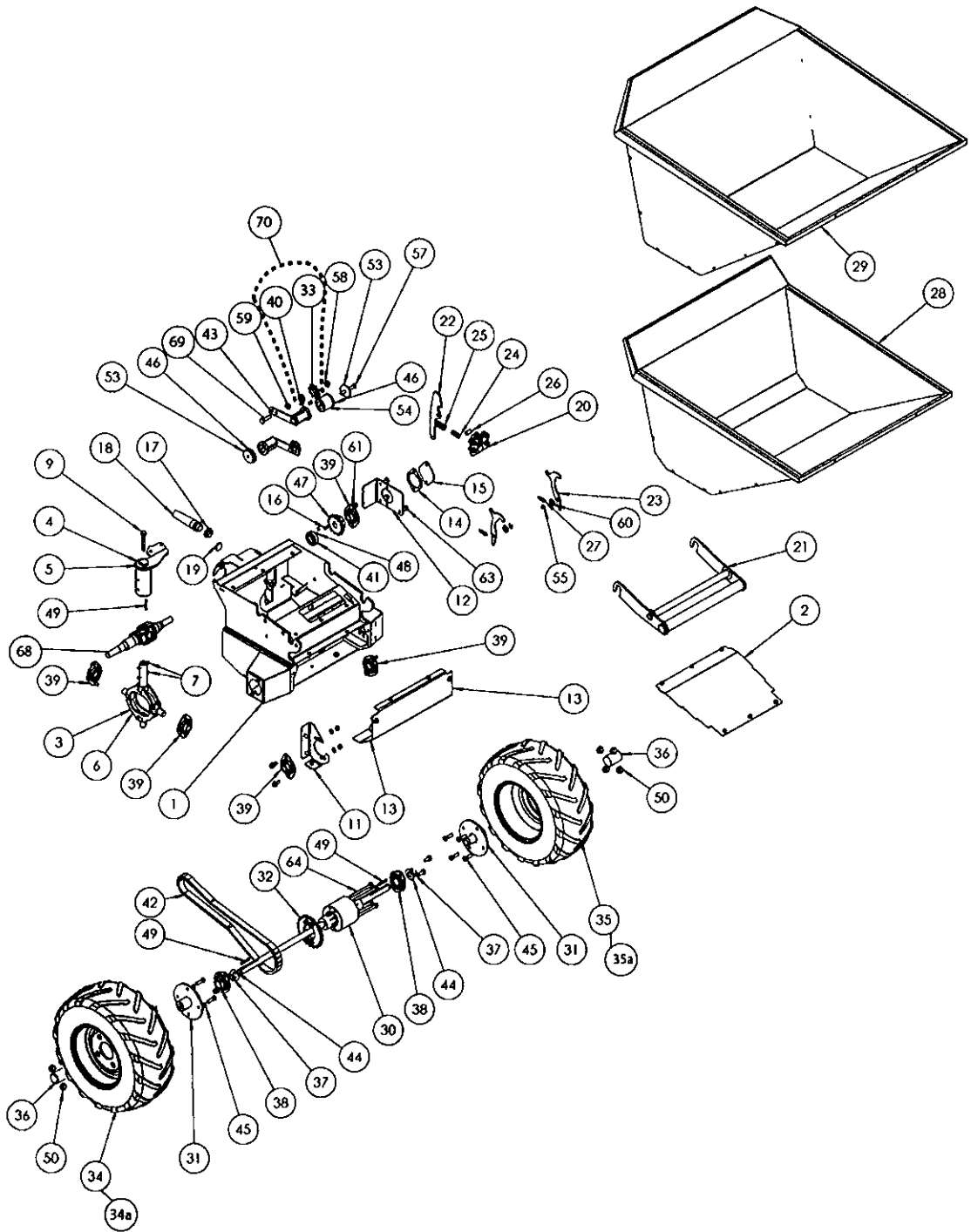


DIESEL OPTION ONLY

FRONT CHASSIS - PARTS LIST ELECTRIC

ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES	ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES
1	101-03300	CHASSIS FRONT WA	1		36	72-0400	MOULDING HUB COVER	2	
2	101-99908	PRESSING MIDDLE COVER	1		37	3-1061	CLIP E-3/4" SHAFT	2	
3	101-0410	GIMBLE WA KEVED	1		38	53-0110	BEARING BALL 25 bore mounted	2	
4	101-04000	CENTRE STEERING PIVOT WA KEVED	1		39	53-0120	BEARING BALL 19.05 bore mounted	5	
5	101-00500		1	SERIAL NO UP TO B151049	40	53-0130	BEARING BALL 26x10x8	2	SERIAL NO UP TO B181628
6	101-00100	GIMBLE WA 3/4"	1	SERIAL NO UP TO B151049	41	53-0170	BEARING BALL 25x47x12	1	
7	3-0093	PIN SPIROL 8 X 50 LONG	2	SERIAL NO UP TO B151049	42	21-2100	CHAIN 5/8" 67R FRONT	1	
8	4-8006	WASHER M8 FORM A BZP	14		43	2-1001	TENSIONER ASSEMBLY	2	
9	7-8061	SCREW SET M8 X 70mm (PLAIN)	1		44	4-9021	WASHER 3/4" ID X 38 x 2.0	2	
10	4-8003	WASHER M8 SPRING BZP	2		45	7-10050	WHEEL STUD 3/8"X24UNF	8	
11	102-99921	PRESSING BEARING FRONT	1		46	4-9031	WASHER 50X8.5X1.5 BZP	6	
12	101-99961	COVER BEARING FRONT	1		47	21-1500	COG 13T 66.32PCD	1	
13	102-99948	PRESSING FRONT COVER	1		48	7-6031	SCREW GRUB M6 X 12	2	
14	101-99943	SPACER BEARING COVER	1		49	21-1200	KEY 3/16"SQ X 40mm	3	
15	101-99942	PLATE BEARING COVER	1		50	8-3800	WHEEL NUT - 3/8" UNF	8	
16	21-1600	KEY 6X6X25	1		51	8-4011	RIVNUT M6 HEXAGON	8	
17	70-5011	NUT 25mm BULK HD	1		52	8-8011	RIVNUT M8 HEXAGON	4	
18	70-5030	CABLE GLAND	1		53	102-99940	BOSS TENSIONER SUPPORT	2	
19	72-1000	BLANKING PLUG 25MM	1		54	104-99913	BOSS TENSIONER SPACER	1	
20	101-01200	SKIP CATCH BRACKET WA	1		55	3-1050	CLIP-E (TO SUIT DIA 12 SHAFT)	2	
21	101-02100	FRAME SKIP CARRIER W.A	1		56	7-10003	SCREW SET M10 X 35 BZP	2	
22	101-02901	PLATE SKIP CATCH	1		57	7-8088	BOLT M8 X 60 HEX BZP	1	
23	101-99929	PRESSING TIP RETAINER	2		59	8-10002	NUT M10 BZP THIN	2	
24	2-1012	SPRING INNER	1		60	4-1204	WASHER M12 FORM A BZP	2	
25	2-1013	SPRING OUTER	1		61	9-8067	BOLT M8 X 25 COACH	2	
26	3-0091	PIN LATCH PIVOT	1		62	8-8008	NUT M8 NYLOC BZP	6	
27	2-1007	SPRING EXT (RETAINER CATCH)	2		63	7-8080	BOLT M8 X 20 HEX BZP	24	
28	100-00500	SKIP 300 W.A. (LIME GREEN)	1	BENDI 300	64	7-8037	DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
29	100-01100	SKIP 450 W.A. (LIME GREEN)	1	BENDI 450	65	8-8024	NUT 5/16" UNC NYLOC BZP	6	
30	6-1200	DIFFERENTIAL AXLE FRONT - 100-248EP-18024	1		66	7-6060	SCREW M6 X 14 SER HD BZP	8	
31	102-03100	HUB W.A.	2		67	7-8007	BOLT M8 X 35 BZP	1	
32	104-99925	GEAR 22T PCD111.55	1		68	21-0650	DRIVESHAFT ASSY	1	
33	104-99926	COG 8T 41.48PCD	2	SERIAL NO UP TO B181628	69	9-10007	M10 X50 BOLT	2	
34	60-6509RHF	WHEEL ASSY 16X6.5X8	1	BENDI 300	70	104-99926SP	COG / SLIPPER ACIT	2	SERIAL NO FROM B181629
34a	60-6509LHF	WHEEL ASSY 16X6.5X8	1	BENDI 450					
35	60-6509LHF	WHEEL ASSY 16X6.50X8	1	BENDI 300					
35a	60-6509RHF	WHEEL ASSY 16X6.50X8	1	BENDI 450					

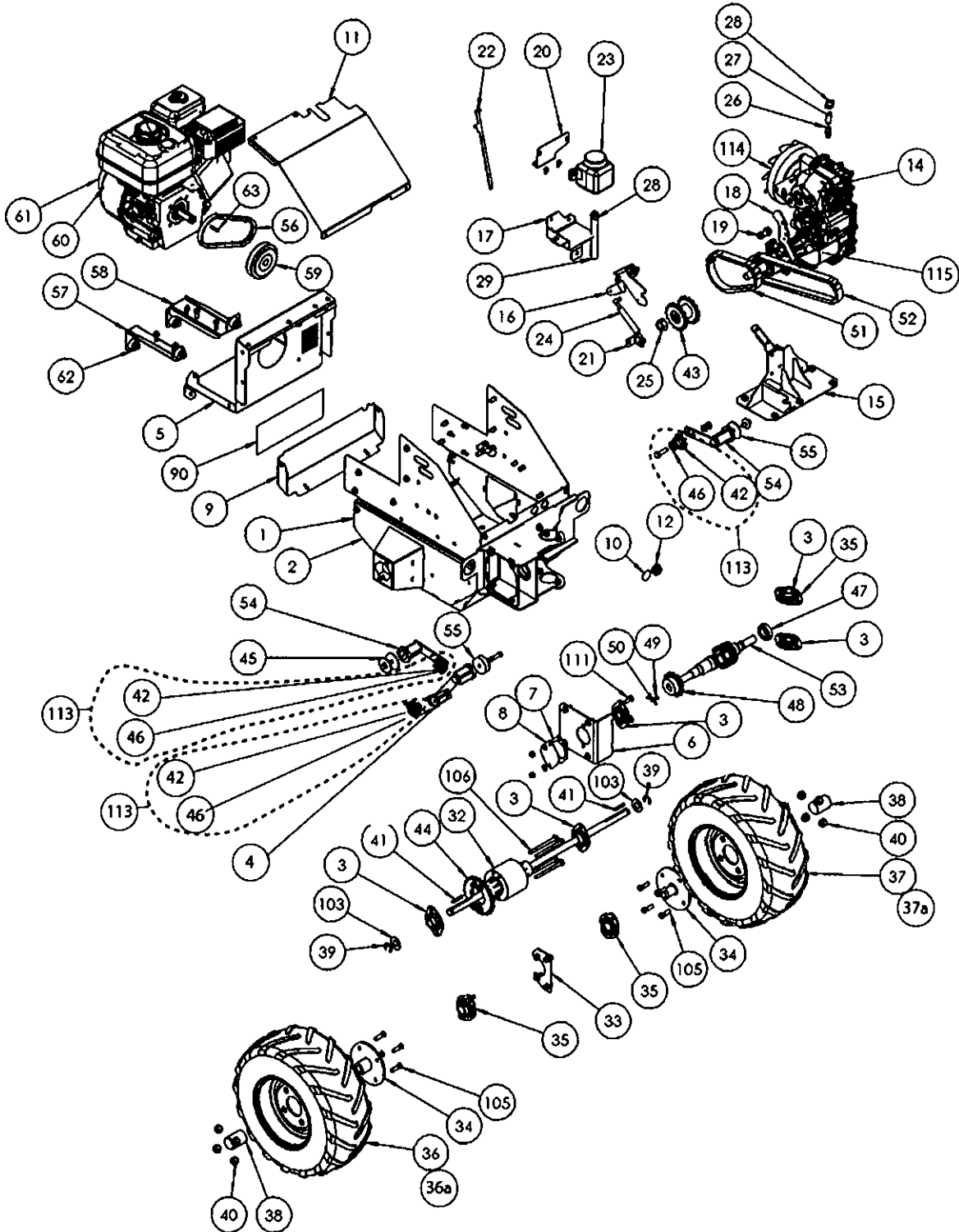
FRONT CHASSIS - ASSEMBLY ELECTRIC



# REAR ASSEMBLY PARTS LIST - PETROL

ITEM	PART NO	DESCRIPTION	QTY	NOTES	ITEM	PART NO	DESCRIPTION	QTY	NOTES
1	101-03200	REAR CHASSIS WA	1		53	21-0650	ASSEMBLY DRIVE JOINT	1	
2	101-04400	REAR CHASSIS WA	1	SERIAL B151040 - B151049	54	2-1001	TENSIONER ASSEMBLY	3	
3	53-0120	BEARING BALL 19.05 bore mounted	5	SERIAL B151040 - B151049	55	4-9031	WASHER 50X8.5X1.5 BZP	6	
4	2-1009	TENSIONER SE11	1	SERIAL B151040 - B151049	56	21-3030	BELT - A22	1	PETROL OPTION
5	101-99956	PRESSING ENGINE DECK	1		57	101-99926	PRESSING FOOT BRKI HONDA	1	PETROL OPTION
6	101-99960	COVER BEARING REAR	1		58	101-99927	PRESSING DRAIN BRKI HONDA	1	PETROL OPTION
7	101-99943	SPACER BEARING COVER	1		59	21-3040	PULLEY SPA 100-01 TPL1610 0.75	1	PETROL OPTION
8	101-99942	PLATE BEARING COVER	1		60	20-1600	ENGINE HONDA GX160	1	PETROL OPTION
9	101-99917	PRESSING REAR COVER	1		61	20-2000	ENGINE HONDA GX200	1	450 SKIP OPTION
10	72-1000	BLANKING PLUG 25MM	1		62	21-0500	A V MOUNT 30x15xM8	4	PETROL OPTION
11	101-99951	COVER REAR UNIT	1		63	21-0800	KEY 3/16"SQ X 2" X 30MM LG	2	PETROL OPTION
12	70-5010	FITTING DIA 25MM BULK HD	1		68	21-0510-0	A V MOUNT 40x30xM8	2	
13	70-5002	BULK HD CLAMP NUT	1		70	4-8006	WASHER M8 FORM A BZP	45	
14	6-200	TRANSMISSION UNIT	1		71	8-8008	NUT M8 NYLOC BZP	24	
15	101-03600	BRACKET BASE WA	1		73	7-8011	BOLT M8 X 20 HEX BZP	3	
16	101-99947	BRACKET LEVER DIRECTION	1		77	7-8004	SCREW SET M8 X 12 HTS BZP	6	
17	101-99949	BRACKET CORNER UPPER	1		78	4-8003	WASHER M8 SPRING BZP	8	
18	101-99948	PLATE BRAKE LOCK	1		79	4-1003	WASHER - M10 SPRING BZP	2	
19	9-10034	SHOULDER BOLT M10 X 16	1		80	4-1007	WASHER FLAT M10 FORM A BZP	4	
20	101-99953	BRACKET EXP TANK	1		81	8-10006	NUT M10 NYLOC	6	
21	101-99962	BRACKET DAMPENER	1		82	7-10004	SCREW SET M10 X 20 BZP	2	
22	101-99952	PLATE PUMP OVERRIDE	1		83	21-1800	KEY B7X40 LG ROUND END	1	
23	37043	EXPANSION TANK 71328	1		84	7-8010	SCREW CAP MBX25MM SKRT HD BZP	4	
24	2-1900	DAMPENER STRUT	1		85	21-1700	KEY 5X5X20 LG ROUND END	1	
25	8-19001	UNF 3/4" NUT	1		86	7-8007	BOLT M8 X 35 BZP	8	
26	6-0001	ADAPTOR ST 7/16" UNC - 1/4" BSP SS	1		87	72-1300	BOOT RA 16ID 8ID	2	
27	6-0002	ELBOW 90DEG F-M 1/4" BSP - 1/4" BSP SS	1		88	8-6011	RIVNUT M6 HEXAGON	6	
28	6-0003	HOSE PINCH CLIP 17/20	2		89	8-8011	RIVNUT M8 HEXAGON	25	
29	6-0004	PIPE 3/4" REINFORCED CLEAR	1		90	800-11120	DECAL SHEET PETROL	1	
30	2-1010	SPRING EXT	1		91	9-8020	BOLT M8 X 60 BZP	2	
31	2-1011	SPRING EXT 12.7X1.63X50.8 ENTX 2128	1		92	9-8022	BOLT M8 X 70 BZP	3	
32	6-1300	DIFFERENTIAL AXLE REAR	1		93	7-808	BOLT M8 X 20 HEX BZP	43	
33	101-99954	PLATE BEARING REAR	1		94	4-6001	WASHER M6 FORM A BZP	4	
34	102-03100	HUB W.A.	2		95	7-6037	1/4 UNF BY 5/8 LG SET SCREW	2	
35	53-0110	BEARING BALL 25 bore mounted	3		96	8-6007	NUT M6 NYLOC	2	
36	60-6509RHF	WHEEL ASSY 16X6.5X8	1	BENDI 300	97	7-6060	SCREW M6 X 14 SER HD BZP	10	
36c	60-6509LHF	WHEEL ASSY 16X6.5X8	1	BENDI 450	98	7-8012	BOLT M8 X 25 BZP	4	
37	60-6509LHF	WHEEL ASSY 16X6.50X8	1	BENDI 300	99	7-4014	SCREW M4 X 20 HEX HD SET	1	
37c	60-6509RHF	WHEEL ASSY 16X6.50X8	1	BENDI 450	100	4-4001	WASHER M4 FORM A BZP	2	
38	72-0400	MOULDING HUB COVER	2		101	8-4005	M4 NYLOCK BZP	1	
39	3-1061	CLIP E-3/4" SHAFT	2		102	4-1004	WASHER M10 FORM C BZP	1	
40	8-3800	WHEEL NUT - 3/8" UNF	8		103	4-9021	WASHER 3/4" ID X 38 X 2.0	2	
41	21-1200	KEY 3/16"SQ X 40mm	2		104	8-8024	NUT 5/16" UNC NYLOC BZP	4	
42	104-99926	COG 8T 41-48PCD	3		105	7-10050	WHEEL STUD 3/8"X24UNF	8	
43	101-03700	SHAFT CUP TUI DRIVE WA	1		106	7-8037	DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
44	104-99925	GEAR 22T PCD111.55	1		107	7-10003	SCREW SET M10 X 35 BZP	3	
45	102-99940	BOSS TENSIONER SUPPORT	1		108	8-10003	NUT M10 BZP	3	
46	53-0130	BEARING BALL 26x10x8	3		109	4-5002	WASHER M5 FORM A BZP	2	
47	53-0170	BEARING BALL 25x47x12	1		110	8-5003	NUT NYLOC M5	2	
48	21-1500	COG 13T 66.32PCD	1		111	9-8057	BOLT M8 X 25 COACH	2	
49	21-1600	KEY 6X6X25	1		112	4-8004	WASHER M8 X 30 X 3	1	
50	7-6031	SCREW GRUB M6 X 12	2		113	104-99926SP	COG/SUPPLIER KIT	3	SERIAL NO FROM B181629
51	21-2080	CHAIN REAR 5/8" SHORT	1		114	6-1800	FAN KIT 72138	1	SPARES ONLY
52	21-2090	CHAIN REAR LONG 5/8"	1		115	6-2002	PUMP OIL FILTER	1	SPARES ONLY

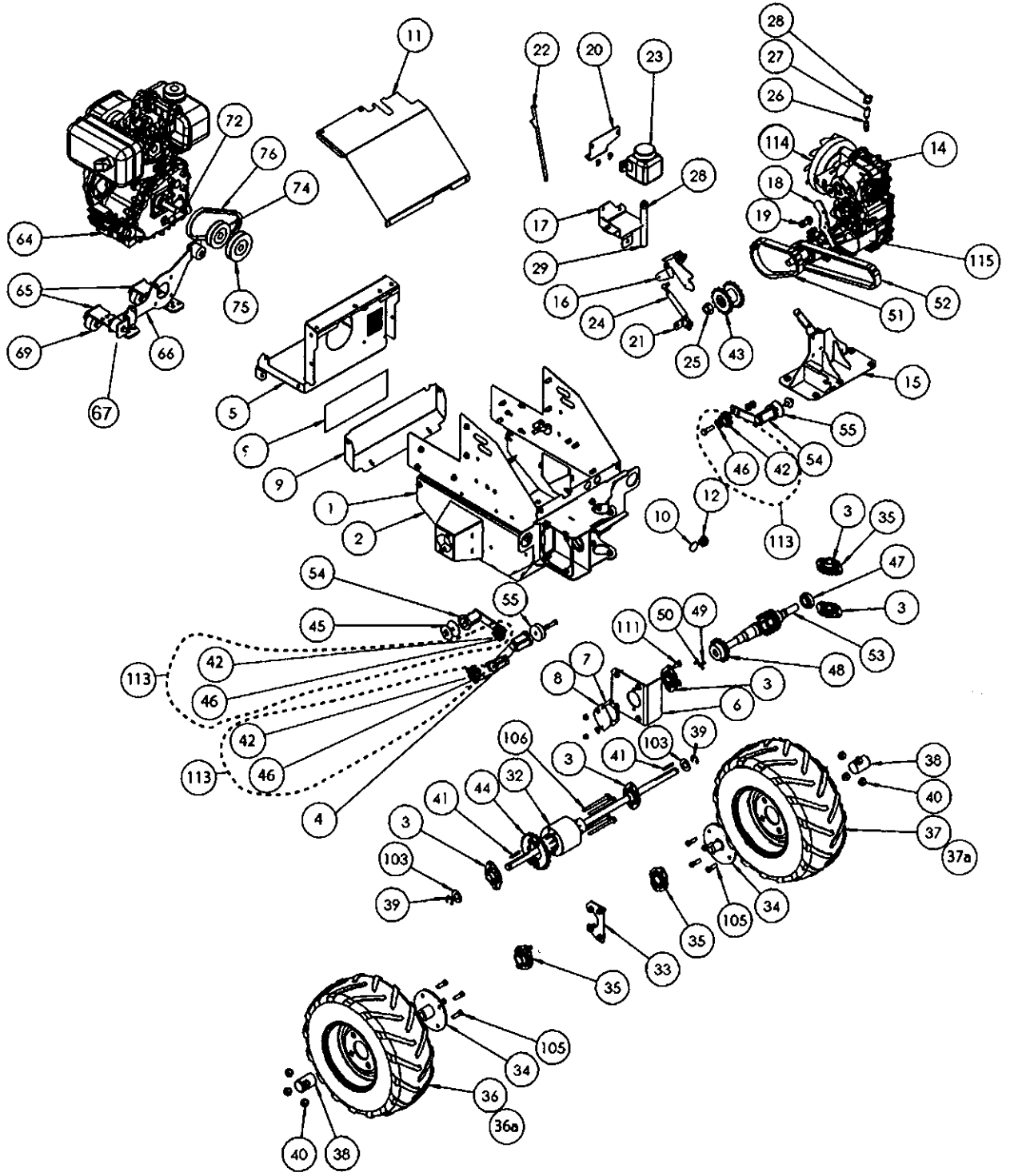
REAR ASSEMBLY - PETROL



REAR ASSEMBLY PARTS LIST - DIESEL

ITEM	PART NO	DESCRIPTION	QTY	NOTES	ITEM	PART NO	DESCRIPTION	QTY	NOTES
1	101-03200	REAR CHASSIS WA	1		54	2-1001	TENSIONER ASSEMBLY	3	
2	101-04400	REAR CHASSIS WA	1	SERIAL B151040 - B151049	55	4-9031	WASHER 50X8.5X1.5 BZP	6	
3	53-0120	BEARING BALL 19.05 bore mounted	5	SERIAL B151040 - B151049	64	20-4801	Diesel Engine L48N	1	DIESEL OPTION
4	2-1009	TENSIONER SE11	1	SERIAL B151040 - B151049	65	101-99921	PRESSING YANMAR FOOT BRKT	2	DIESEL OPTION
5	101-99956	PRESSING ENGINE DECK	1		66	101-99933	PRESSING ENG. MOUNTING L48 (B)	1	
6	101-99960	COVER BEARING REAR	1		67	101-99936	PRESSING L48 CORNER MOUNT	1	
7	101-99943	SPACER BEARING COVER	1		68	21-0510	A V MOUNT 40x30xM8	2	
8	101-99942	PLATE BEARING COVER	1		69	21-0530	A V MOUNT 50x20xM10	2	DIESEL OPTION
9	101-99917	PRESSING REAR COVER	1		70	4-8006	WASHER M8 FORM A BZP	45	
10	72-1000	BLANKING PLUG 25MM	1		71	8-8008	NUT M8 NYLOC BZP	24	
11	101-99951	COVER REAR UNIT	1		72	21-1000	KEY 3/16" X 23MM LONG	1	DIESEL OPTION
12	70-5010	FITTING DIA 25MM BULK HD	1		73	7-8011	BOLT M8 X 20 HEX BZP	3	
13	70-5002	BULK HD CLAMP NUT	1		74	21-3070	PULLEY SPA71/01 HT6 WITH TPL1210 0.75	1	B450D OPTION
14	6-2000	TRANSMISSION UNIT	1		75	21-3060	PULLEY SPA80/01 HT6 WITH TPL1210 0.75	1	DIESEL OPTION
15	101-03600	BRACKET BASE WA	1		76	21-3050	BELT - A18	1	DIESEL OPTION
16	101-99947	BRACKET LEVER DIRECTION	1		77	7-8004	SCREW SET M8 X 12 HTS BZP	6	
17	101-99949	BRACKET CORNER UPPER	1		78	4-8003	WASHER M8 SPRING BZP	8	
18	101-99948	PLATE BRAKE LOCK	1		79	4-1003	WASHER - M10 SPRING BZP	2	
19	9-10034	SHOULDER BOLT M10 X 16	1		80	4-1007	WASHER FLAT M10 FORM A BZP	4	
20	101-99953	BRACKET EXP TANK	1		81	8-10006	NUT M10 NYLOC	6	
21	101-99962	BRACKET DAMPENER	1		82	7-10004	SCREW SET M10 X 20 BZP	2	
22	101-99952	PLATE PUMP OVERRIDE	1		83	21-1800	KEY B7X40 LG ROUND END	1	
23	6-2001	EXPANSION TANK 71328	1		84	7-8007	SCREW CAP M8X25MM SCKT HD BZP	4	
24	2-1300	DAMPENER STRUT	1		85	21-1700	KEY 5x5x20 LG ROUND END	1	
25	8-19001	UNF 3/4" NUT	1		86	7-8007	BOLT M8 X 35 BZP	8	
26	6-0001	ADAPTOR ST 7/16" UNC-11/4" BSP SS	1		87	72-1300	BOOT RA 16ID 8ID	2	
27	6-0002	ELBOW 90DEG F-M 1/4" BSP - 1/4" BSP SS	1		88	8-6011	RIVNUT M6 HEXAGON	6	
28	6-0003	HOSE PINCH CLIP 17/20	2		89	8-8011	RIVNUT M8 HEXAGON	25	
29	6-0004	PIPE 3/4" REINFORCED CLEAR	1		90	800-11120	DECAL SHEET PETROL	1	
30	2-1010	SPRING EXT	1		91	9-8020-0	BOLT M8 X 60 BZP	2	
31	2-1011	SPRING EXT 12.7X1.63X50.8 ENITEK 2128	1		92	9-8022	BOLT M8 X 70 BZP	3	
32	6-1300	DIFFERENTIAL AXLE REAR	1		93	7-8080	BOLT M8 X 20 HEX BZP	43	
33	101-99954	PLATE BEARING REAR	1		94	4-6001	WASHER M6 FORM A BZP	4	
34	102-03100	HUB W.A.	2		95	7-6037	1/4 UNF BY 5/8 LG SET SCREW	2	
35	53-0110	BEARING BALL 25 bore mounted	3		96	8-6007	NUT M6 NYLOC	2	
36	60-6509RH	WHEEL ASSY 16X6.5X8	1	BENDI 300	97	7-6060	SCREW M6 X 14 SER HD BZP	10	
36Q	60-6509LHF	WHEEL ASSY 16X6.5X8	1	BENDI 450	98	7-8012	BOLT M8 X 25 BZP	4	
37	60-6509LHF	WHEEL ASSY 16X6.50X8	1	BENDI 300	99	7-4014	SCREW M4 X 20 HEX HD SET	1	
37Q	60-6509RH	WHEEL ASSY 16X6.50X8	1	BENDI 450	100	4-4001	WASHER M4 FORM A BZP	2	
38	72-0400	MOULDING HUB COVER	2		101	8-4005	M4 NYLOCK BZP	1	
39	3-1061	CLIP E- 3/4" SHAFT	2		102	4-1004	WASHER M10 FORM C BZP	1	
40	3800	WHEEL NUT - 3/8" UNF	8		103	4-9021	WASHER 3/4" ID X 38 X 2.0	2	
41	21-1200	KEY 3/16 SQ X 40mm	2		104	8-8024	NUT 5/16" UNC NYLOC BZP	4	
42	104-99926	COG BT 41.48PCD	3		105	7-10050	WHEEL STUD 3/8"X24UNF	8	
43	101-03700	SHAFT OUPUT DRIVE WA	1		106	7-8037	DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
44	104-99925	GEAR 22T PCD111.55	1		107	7-10003	SCREW SET M10 X 35 BZP	3	
45	102-99940	BOSS TENSIONER SUPPORT	1		108	8-10003	NUT M10 BZP	3	
46	53-0130	BEARING BALL 26x10x8	3		109	4-5002	WASHER M5 FORM A BZP	2	
47	53-0170	BEARING BALL 25x47x12	1		110	8-5003	NUT NYLOC M5	2	
48	21-1500	COG 13T 66.32PCD	1		111	9-8067	BOLT M8 X 25 COACH	2	
49	21-1600	KEY 6X6X25	1		112	4-8004	WASHER M8 X 30 X 3	1	
50	7-6031	SCREW GRUB M6 X 12	2		113	104-99926SP	COG/SUPPER KIT	3	SERIAL NO FROM B181629
51	21-2080	CHAIN REAR 5/8" SHORT	1		114	6-1800	FAN KIT 72138	1	SPARES ONLY
52	21-2090	CHAIN REAR LONG 5/8"	1		115	6-2002	PUMP OIL FILTER	1	SPARES ONLY
53	21-0650	ASSEMBLY DRIVE JOINT	1						

REAR ASSEMBLY - DIESEL

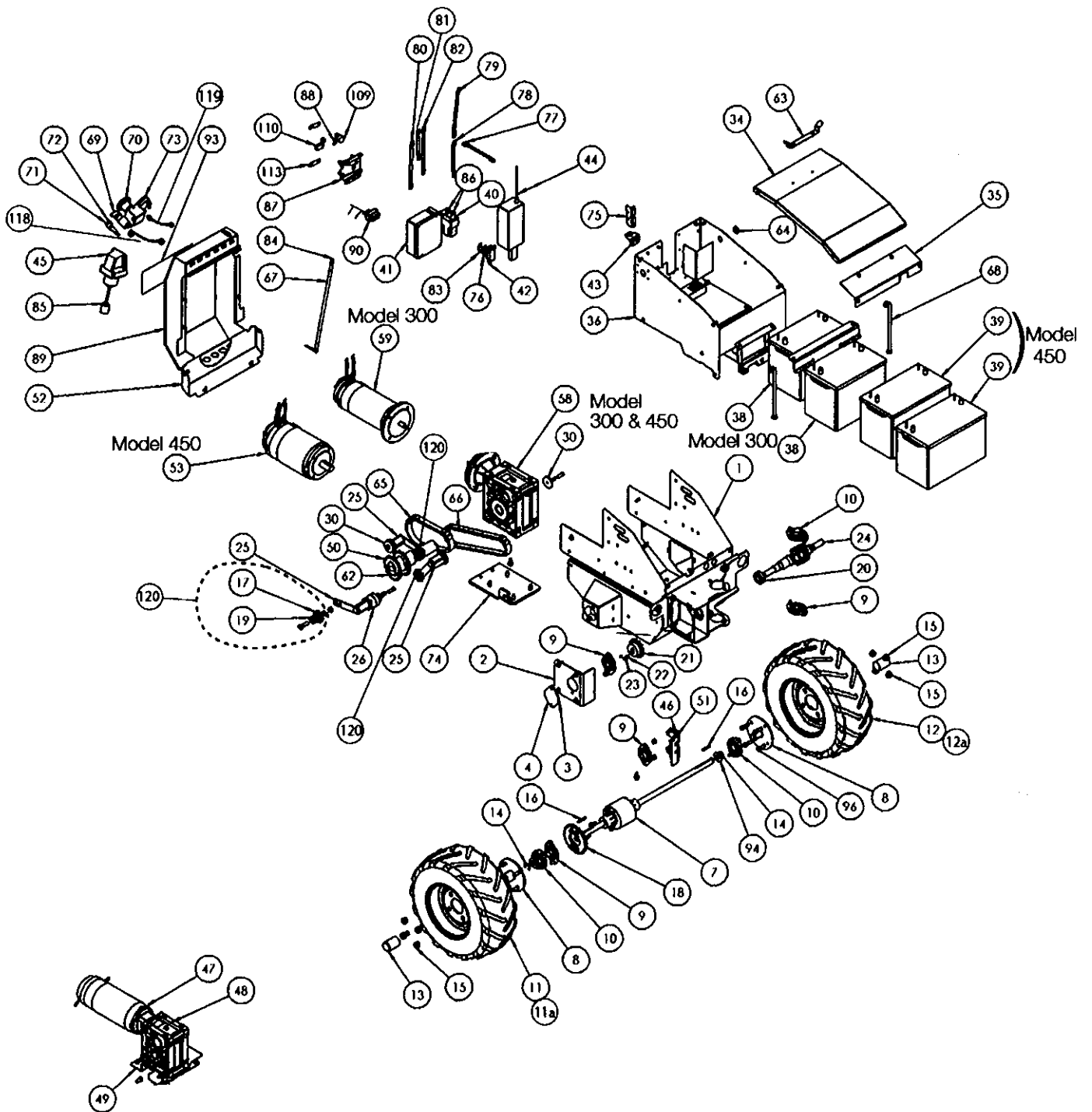




# REAR ASSEMBLY - PARTS LIST ELECTRIC

ITEM NO.	PART NO	DESCRIPTION	QTY	NOTES	ITEM NO.	PART NO	DESCRIPTION	QTY	NOTES
1	101-03200	REAR CHASSIS WA	1		60	7-8007	BOLT M8 X 35 BZP	4	
2	101-99960	COVER BEARING REAR	1		61	8-8008	NUT M8 NYLOC BZP	9	
3	101-99943	SPACER BEARING COVER	1		62	101-04300	OUTPUT SHAFT ELECTRIC	1	
4	101-99942	PLATE BEARING COVER	1		63	101-99967	BRACKET CABLE WRAP	1	
5	70-5010	FITTING DIA 25MM BULK HD	1		64	72-1600	GROMMET 20MM	1	
6	70-5002	BULK HD CLAMP NUT	1		65	21-2200	CHAIN ELECTRIC 1ST	1	
7	6-1300	DIFFERENTIAL AXLE REAR	1		66	21-2400	CHAIN 2 5/8"	1	
8	102-03100	HUB W.A.	2		67	101-99949	BRAKE DISENGAGE LEVER	1	
9	53-0120	BEARING BALL 19.05 bore mounted	4	SERIAL B1 61056-B1 61064	68	9-10033	M10 X 220 COACHBOLT	2	
10	53-0110	BEARING BALL 25 bore mounted	3		69	70-0136	IGNITION SWITCH	1	
11	60-6509RH	WHEEL ASSY 16X6.5X8	1	BENDI 300	70	70-0127	CURTIS ED125	1	
11a	60-6509LH	WHEEL ASSY 16X6.5X8	1	BENDI 450	71	70-0135	FUSE HOLDER SCI R3-14 250V 10A	1	
12	60-6509HF	WHEEL ASSY 16X6.50X8	1	BENDI 300	72	70-0142	FUSE 10A ROUND	1	
12a	60-6509RHF	WHEEL ASSY 16X6.50X8	1	BENDI 450	73	70-0133	CURTIS 906R24HGAAO	1	
13	72-0400	MOULDING HUB COVER	2		74	101-99972	BASE BRACKET GEARBOX	1	
14	3-1061	CLIP E. 3/4" SHAFT	2		75	101-99971	CABLE CLAMP BRACKET	1	
15	8-3800	WHEEL NUT - 3/8" UNF	8		76	70-0131	FUSE INLINE 125A FLAT DIA6	1	1 FUSE FOR ALL
16	21-1200	KEY 3/16" SQ X 40mm	2		77	70-0121	POWER CABLE -VE 400MM 8/6	1	
17	104-99926	COG 8T 41.48PCD	3		78	70-0122	POWER CABLE +VE 650MM 8/6	1	
18	104-99925	GEAR 22T PCD111.55	1		79	70-0123	POWER CABLE -VE 400MM 8/6	1	
19	53-0130	BEARING BALL 26x10x8	3		80	70-0124	POWER CABLE -VE 600MM 8/6	1	
20	53-0170	BEARING BALL 25x47x12	1		81	70-0125	POWER CABLE +VE 125MM 8/6	1	
21	21-1500	COG 13T 66.32PCD	1		82	70-0126	POWER CABLE +VE 850MM 8/6	1	
22	21-1600	KEY 6X6X25	1		83	70-0132	FUSE INLINE 100A FLAT DIA6	1	
23	7-6031	SCREW GRUB M6 X 12	2		84	72-1100	PVC CAP RED DIA10 X 25 LONG	1	
24	21-0650	ASSEMBLY DRIVE JOINT	1		85	70-0139	POWER CABLE UK PLUG	1	
25	2-1001	TENSIONER ASSEMBLY	3		86	72-1300	BOOT RA 1.6ID 8ID	2	
26	4-9031	WASHER 50X8.5X1.5 BZP	6		87	101-99970	BRACKET POTENTIOMETER	1	
27	7-6060	SCREW M6 X 14 SER HD BZP	18		88	101-99975	CLAMP LEVER POTENTIOMETER	1	
28	4-6001	WASHER M6 FORM A BZP	2		89	101-03900	MOTOR COVER WA	1	
29	8-6007	NUT M6 NYLOC	4		90	70-0143	CABLE HARNESS	1	
30	102-99940	BOSS TENSIONER SUPPORT	2		91	8-8011-0	RIVNUT M8 HEXAGON	10	
31	7-8012	BOLT M8 X 25 BZP	5		92	8-4011-0	RIVNUT M6 HEXAGON	12	
32	4-8003	WASHER M8 SPRING BZP	4		93	800-11122	DECAL SHEET ELECTRIC	1	
33	4-8006	WASHER M8 FORM A BZP	18		94	4-9021	WASHER 3/4" ID X 38 X 2.0	2	
34	101-99964	TOP COVER BATTERY BOX	1		95	8-8024	NUT 5/16" UNC NYLOC BZP	4	
35	101-99965	PRESSING ELECTRIC CENTRE COVER	1		96	7-10050	WHEEL STUD 3/8"X24UNF	8	
36	101-03800	BATTERY BOX W.A.	1		97	7-8080	DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
37	101-99946	BATTERY CLAMP	1		98	7-8037	SCREW SET M10 X 35 BZP	3	
38	70-3000	Battery 24-AGM	2	MODEL 300	99	7-10003	NUT M10 BZP	2	
39	70-3100	Battery 27AGM	2	MODEL 450	100	8-10003	NUT M10 NYLOC	5	
40	70-0128	CURTIS SOL 24V CO	1		101	8-10006	WASHER M5 FORM A BZP	1	
41	70-0129	FUSE HOLDER INLINE	1		102	4-5002	NUT NYLOC M5	2	
42	70-0130	BRAKE PIVOT BRACKET	1		103	8-5003	BOLT M8 X 25 COACH	2	
43	101-99966	BATTERY CHARGER	1		104	9-8067	WASHER M10 FORM C BZP	2	
44	70-0134	240V 16A SKT INLET IN0021	1		105	4-1004	WASHER M8 X 30 X 3	1	
45	70-0137	BEARING REAR BRACKET	1		106	4-8004	BOLT M10 X 30 HEX BZP	4	
46	101-99973	MOTOR 1000W	1	SERIAL B1 61056-B1 61064	107	7-10100	SPACER F/R SW	1	
47	70-0800	GEARBOX 30:1 30MM BORE 71B14	1	SERIAL B1 61056-B1 61064	108	72-1400	POTENTIOMETER CURTIS CM4475 & HARNESS	1	
48	6-1500	BRACKET ELECTRIC GEARBOX	1	SERIAL B1 61056-B1 61064	109	70-0140SP	MICROSWITCH ROLLER	1	
49	101-03500	OUTPUT SHAFT ELECTRIC	1	SERIAL B1 61056-B1 61064	110	70-0141	SPACER THIN F/R SW	1	
50	101-04200	BRACKET AXLE BEARING ELECTRIC	1	SERIAL B1 61056-B1 61064	111	72-1500	SPRING EXT	1	
51	101-99968	PRESSING REAR COVER ELECTRIC	1	SERIAL B1 61056-B1 61064	112	2-1010	SPRING EXT	1	
52	101-99963	MOTOR 1300W	1	MODEL 450	113	2-1014	1/4 UNF BY 5/8 LG SET SCREW	3	
53	70-01200	KEY 8x7x40 LG ROUND END	1		114	7-6037	NUT M6 BZP	3	
55	21-1800	SCREW CAP M8X25MM SKT HD BZP	4		115	8-6001	M5 X 25 BZP	1	
56	7-8010	KEY 5x5x20 LG ROUND END	1		116	7-5025	M5 X 20 SCREW HEX HD BZP	2	
57	21-1700	GEARBOX TKM488 71B5	1	MODEL 300	117	7-3013	LEAD FUSE TO IGNITION	1	
58	6-2100	GEARBOX TKM488 90 814	1	MODEL 450	118	70-0149	LEAD STOP SWITCH TO FUSE	1	
58	6-2200	MOTOR 1000W	1	MODEL 300	119	70-0148	COG/SUPPLIER KIT	3	SERIAL NO FROM B181629
59	70-01000		1		120	104-99925SP			

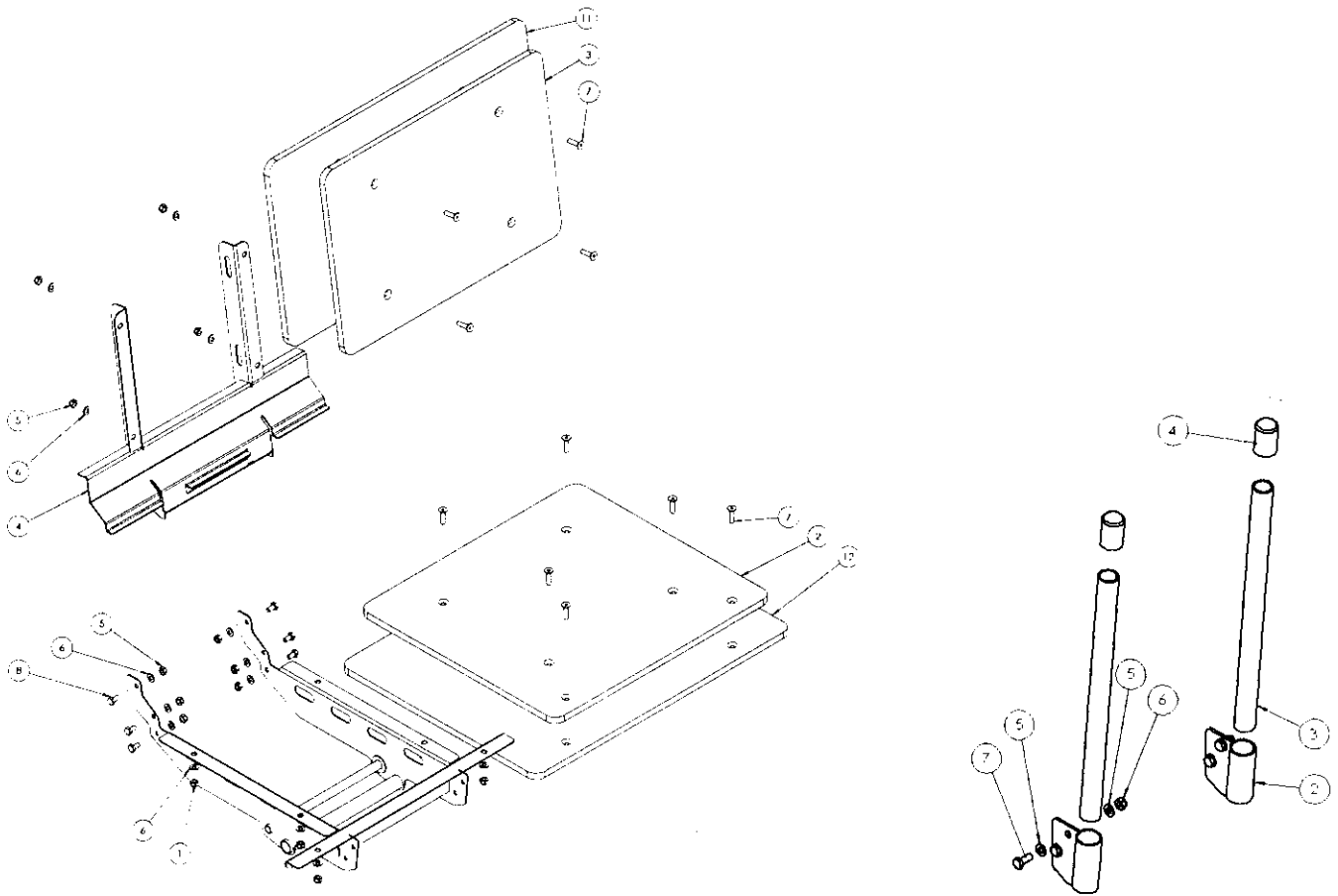
# ELECTRIC REAR ASSEMBLY



Serial Numbers  
B161 056 to B161 064

# TRUXTA ATTACHMENTS

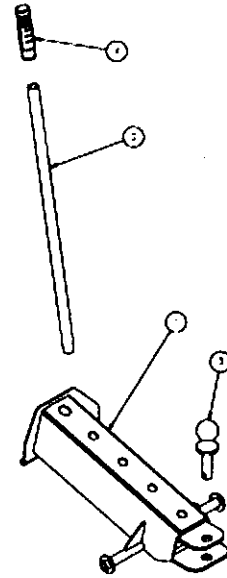
FLAT BED ATTACHMENT FOR TRUXTA (OPTT12-DIO for the 300) (OPTT14-DIO for the 450 model)				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES
1	73-0100-H	FLAT BED W.A.	1	
2	73-0111-C	FLAT BED BASE	1	300 OPTION
3	73-0112-B	FLAT BED REAR	1	300 OPTION
4	73-0900-G	FLATBED REAR WA	1	
5	8-10006-0	NUT M10 NYLOC	20	
6	4-1005-1	WASHER FLAT M10 FORM A BZP	20	
7	7-10041-0	COUNTERSUNK M10 X 40 BZP	10	
8	7-10004-1	SCREW SET M10 X 20 BZP	6	
10	7-10005-0	SCREW SET M10 X 25 BZP	4	
11	73-0120-A	FLAT BED REAR 450	1	450 OPTION
12	73-0119-A	FLAT BED BASE 450	1	450 OPTION



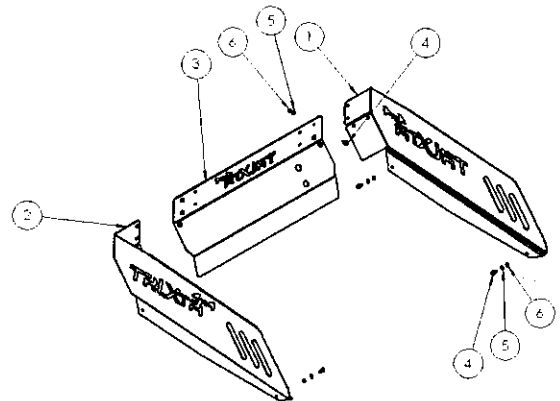
LOG POLES X 2 ATTACHMENT FOR TRUXTA (OPTT13-DIO)			
ITEM NO.	PART NO	DESCRIPTION	QTY.
1	73-1100	HOLDER STOP	2
2	73-1200	TUBE STOP	2
3	72-0400	MOULDING HUB COVER	2
4	4-1005	WASHER FLAT M10 FORM A BZP	8
5	8-10006	NUT M10 NYLOC	4
6	7-10005	SCREW SET M10 X 25 BZP	4

## TRUXTA ATTACHMENTS

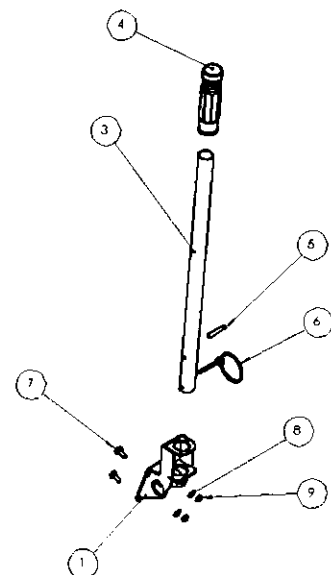
TOW BALL ATTACHMENT (OPTT11-DIO)			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	73-1500-B	HANDLE TOW ATTACHMENT	1
2	73-1400-A	TOW BALL C/W CLEVIS PIN	1
3	73-1300-C	BODY TOW ATTACHMENT	1
4	74-1022-0	HANDLE GRIP	1



GREEDY BOARD ATTACHMENT (OPTT15-DIO)			
ITEM NO.	PART NO	DESCRIPTION	QTY.
1	73-1601	GREEDY BOARD SIDE LH	1
2	73-1602	GREEDY BOARD SIDE RH	1
3	73-1603	GREEDY BOARD REAR	1
4	7-6060	SCREW M6 X 14 SER HD BZP	10
5	4-6001	WASHER M6 FORM A BZP	10
6	8-6007	NUT M6 NYLOC	10

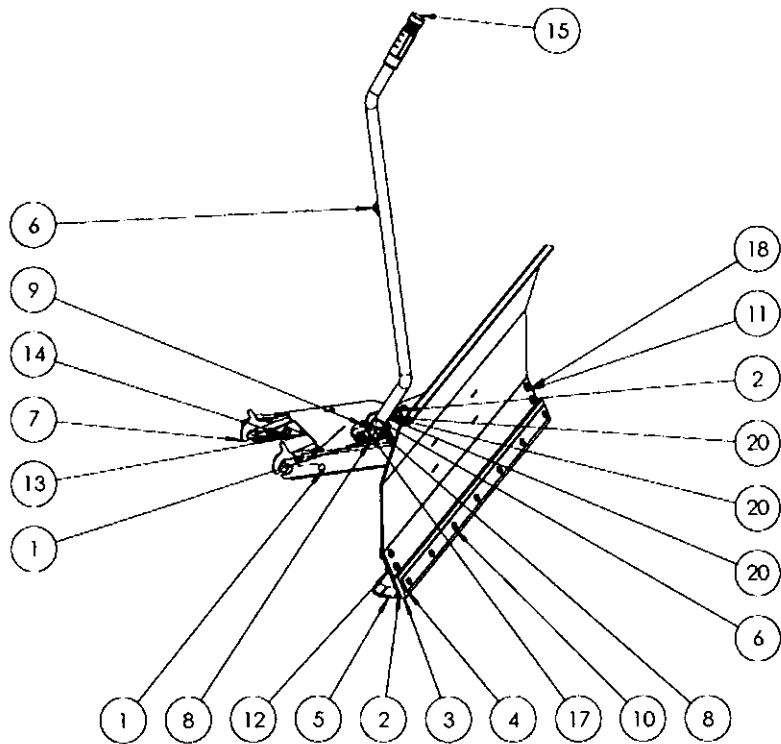


SKIP CONTROL HANDLE ATTACHMENT (OPTT16-DIO)			
ITEM NO.	PART NO	DESCRIPTION	QTY.
1	73-1700	BRACKET SKIP TIPPING	1
2	73-1703	HANDLE SKIP TIPPING	1
3	74-1022	HANDLE GRIP	1
4	3-0096	ROLL PIN 6 X 35	1
5	3-1018	CLIP LYNCH PIN	1
6	7-6060	SCREW M6 X 14 SER HD BZP	2
7	4-6001	WASHER M6 FORM A BZP	2
8	8-6007	NUT M6 NYLOC	2

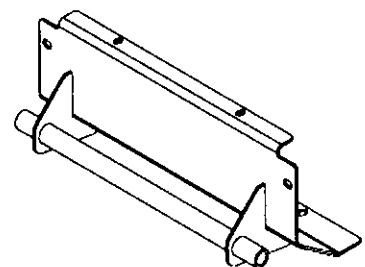


# TRUXTA ATTACHMENTS

SNOW PLOUGH ATTACHMENT FOR TRUXTA (OPTT10-DI0)							
ITEM NO	PART NO	DESCRIPTION	QTY	ITEM NO	PART NO	DESCRIPTION	QTY
1	73-0310	SNOW PLOUGH PIVOT W.A.	1	11	4-8006	WASHER M8 FORM A BZP	15
2	73-0300	SNOW PLOUGH BLADE W.A.	1	12	8-8008	NUT M8 NYLOC BZP	11
3	72-0800	RUBBER BLADE	1	13	2-1007	SPRIG EXT (RETAINER CATCH)	2
4	73-0350	PLATE BLADE STRIP	1	14	3-1050	CUPE (TO SUIT DIA 12 SHAFT)	2
5	73-0370	SKID SHOE	2	15	74-1022	HANDLE GRIP	1
6	730330	TILT HANDLE	1	16	3-1018	LYNCH PIN (DIA 4 X 45)	2
7	101-99929	PESSING TIP RETAINER	2	17	3-1020	LYNCH PIN D LOOP (DIA 4 X 45)	1
8	73-0320	TILT TUBE WA	1	18	738012	BOLT M8 X 25 BZP	4
9	7-8080	BOLT M8 X 20 HEX BZP	3	19	73-0375	PIN PIVOT SNOWPLOUGH W.A.	1
10	7-8009	BOLT M8 X 30 BZP	7	20	73-0380	PIN LOCATION SNOW PLOUGH W.A.	1



**TOOLBAR ATTACHMENT FOR TRUXTA (73-1000)**  
 (Required for Fitment of Snow Plough OPTTIO-DIO)



## WARRANTY REGISTRATION FORM

Your new TRUXTA is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase.

The TRUXTA warranty is against defects in design, materials and workmanship.

The following are not covered under the TRUXTA warranty:

1. Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
2. Alterations, additions or repairs carried out by persons other than Tufftruk or their recognised agents.
3. Transportation or shipment costs to and from TRUXTA or their recognised agents, for repair or assessment against a warranty claim, on any machine.
4. Materials and /or labour costs to renew repair or replace components due to fair wear and tear the following components are not covered by warranty.
  - Drive belt
  - Engine air filter
  - Engine spark plug

TRUXTA and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose

### Warranty Claims

All warranty claims should firstly be directed to the point of purchase: your TRUXTA reseller / distributor  
Keep a record of the warranty form for your records

For warranty claims: Tel 01298 84687 or Email; sales@tufftruk.co.uk

**Any warranty issues please do contact your place of purchase.**

To Register your Warranty please complete the warranty form and post to  
TUFFTRUK LTD

THE CROFT

SHEEN

BUXTON

DERBYSHIRE

SK17 0EU

Tel + 44 (0) 1298 84687

sales@tufftruk.co.uk

Alternatively visit the website [www.truxta.com/service](http://www.truxta.com/service) and register warranty online

Alternatively scan / photocopy and email the completed warranty form to [sales@tufftruk.co.uk](mailto:sales@tufftruk.co.uk)

Also for your records, please complete this warranty registration in operator manual.

DATE OF PURCHASE

.....

PLACE OF PURCHASE/ COMPANY

.....

CUSTOMER NAME

.....

ADDRESS

.....

MACHINE MODEL NO

.....

SERIAL NO OF MACHINE

.....

Your local TRUXTA Dealer

**TRUX** **4x4**  
**TAI**

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THE CROFT  
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**YR** Youngman  
Richardson