BENDie TRUXTA 4x4

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

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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

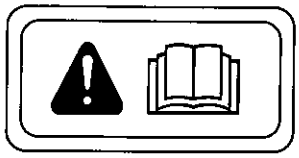
Measured Sound Power Level: 67 dB

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

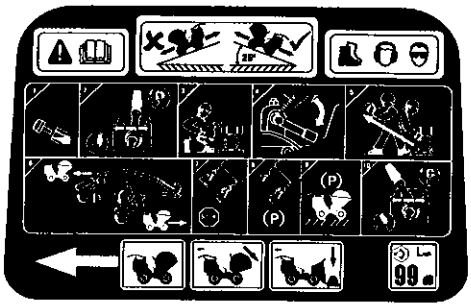
Place of Declaration:	Date	Signed By	Position in Company
Tufftruk Ltd	26/09/2017	Ronald Blackhurst	Managing Director

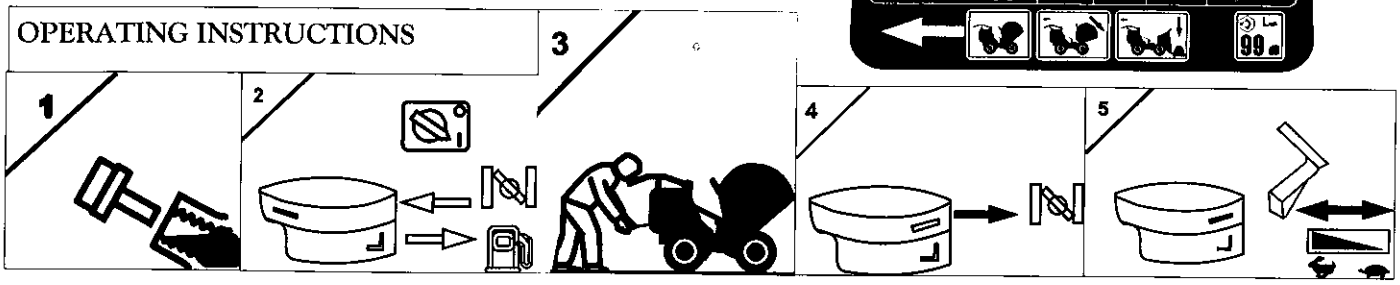
Name and address of manufacturer or Authorised representative: Tufftruk Ltd SK17 0EU



Always read the manual before using the TRUXTA

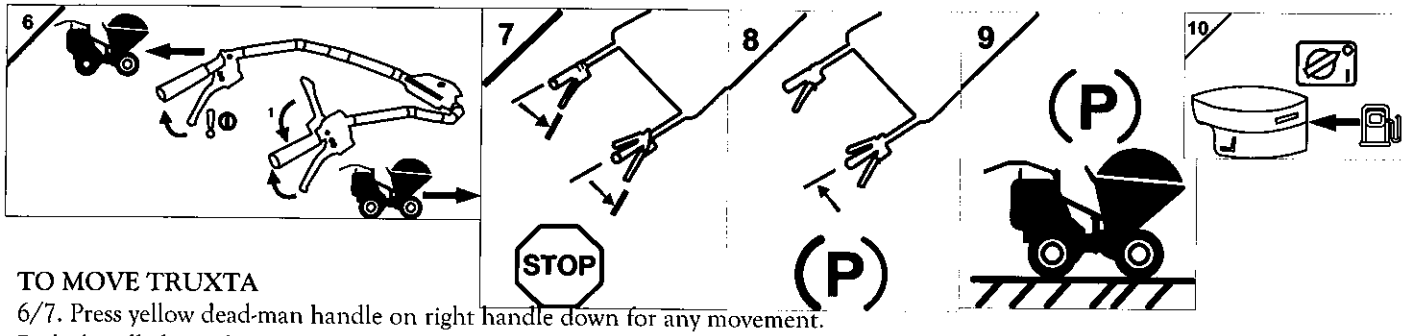
Wear appropriate PPE





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

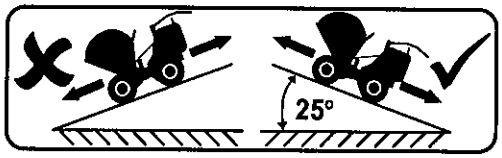
Release dead-man handle to stop.
Release lower forward / reverse levers

9. Ideally park on flat surface.

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

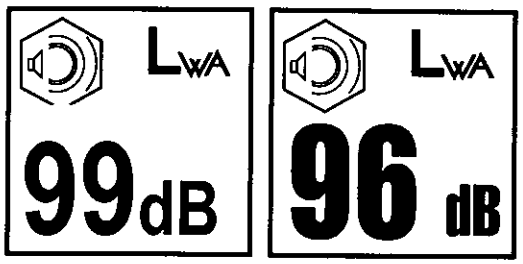
ON INCLINES

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

TRUXTA BENDI - MACHINE SPECIFICATIONS			
Model	**Petrol B300G** **(Petrol B450G)**	**Diesel B300D** **(Diesel B450D)**	**Electric B300E** **(Electric B450E)**
Engine/Motor/Power (kW)/hp	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
Fuel Type	Unleaded Petrol (4 stroke)	Diesel	2 x 12v Batteries
Fuel Capacity	3.1 litres / 0.682 gal	2.5 litres / 0.55gal	
Max Payload (kg)	300kg /660lbs/ 7ft³ / 0.2m³ (450kg/990lbs /10.6ft³/ 0.3m³)	300kg/660lbs /7ft³/ 0.2m³ (450kg/990lbs/10.6ft³/ 0.3m³)	300kg /660lbs/ 7ft³/ 0.2m³ (450kg/990lbs/ 10.6ft³ / 0.3m³)
Unladen Weight kg **unladen weight lbs**	170 (180) 374 (396)	201 (219) 442 (482)	224 (255) 493 (561)
Working Gradient	25°	25°	25°
	Working Gradients – See general safety notes on next page		
Drive & Controls	Hydrostatic System		24v Motor Gearbox
Brake System	Hydrostatic brake system with fail-safe dead-man handle		
Standard Fitment Tyres	Flotation with option for turf tyres		
Travel Speed **Fwd/Reverse**	0-4 mph forward / 6.44kph 0-1.5 mph / 2.42kph		0-3.5 mph/ 5.63kph 0-1.5 mph / 2.42kph
Noise Level (db.)	<94 (< 96)	< 100	< 69
Hand Arm **Vibration**	3.6 m/s² 4.6 m/s²	3.8 m/s² 3.8 m/s²	2.5 m/s² 2.5 m/s²
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

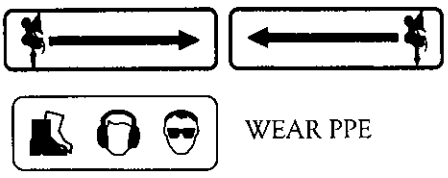
Do not operate the TRUXTA indoors or in a confined space, make sure the work area is adequately ventilated.

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

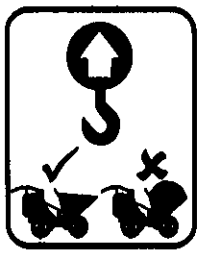
SAFETY DECALS

DIRECTION OF TRAVEL

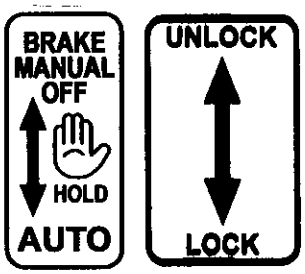


WEAR PPE

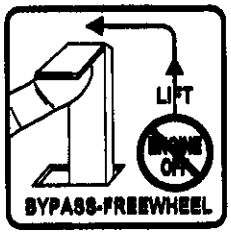
LIFTING POINTS UN-LADEN



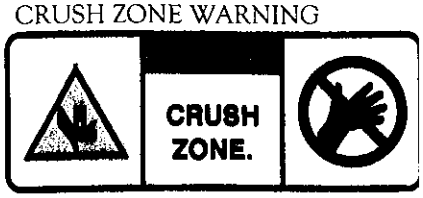
BRAKE OVERRIDE, SKIP RETAINER



HYDROSTATIC OVER-RIDE

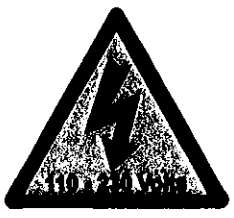


CRUSH ZONE WARNING



PAYLOAD

VOLTAGE WARNING



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

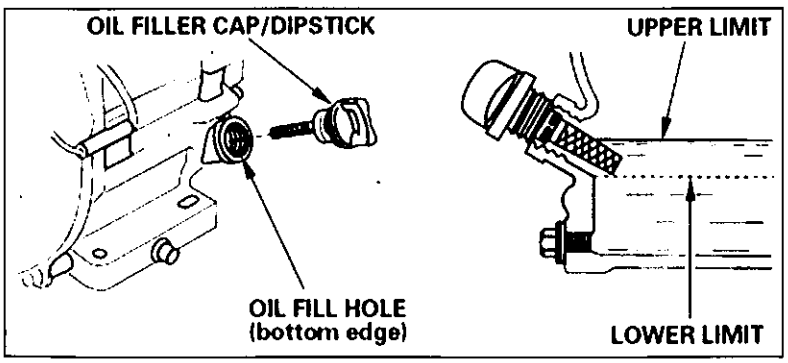
		Every 20 hours	Every 50 hours	Every 200 hours
ENGINE OIL	CHANGE	✓		
AIR FILTER	CHECK CONDITION		✓	
	CLEAN / REPLACE			✓
SPARK PLUG	CHANGE			✓

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

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

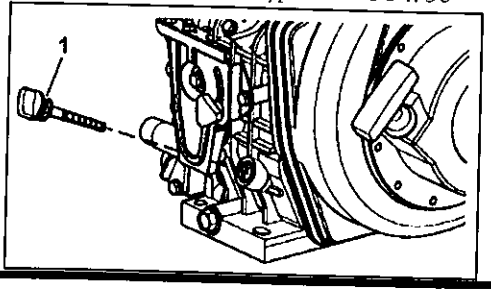
SERVICE & MAINTENANCE - DIESEL

REGUALAR SERVICE - YANMAR

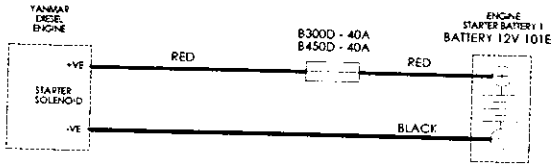
○ : Check ◇ : Replace ● : Contact your authorized Yanmar industrial engine dealer or distributor for these maintenance services.

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

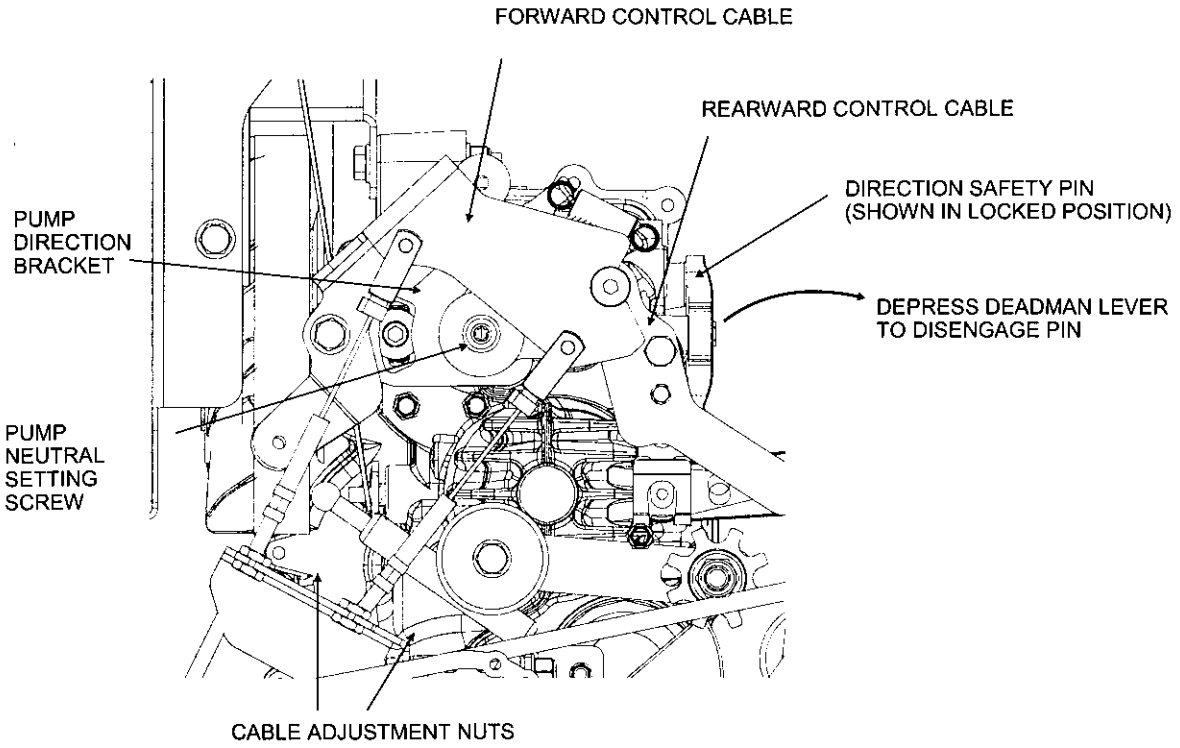
Check oil level daily as shown above, running the engine with a low oil level can cause engine damage.
Refill with Engine Oil type – SAE 5W30



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)

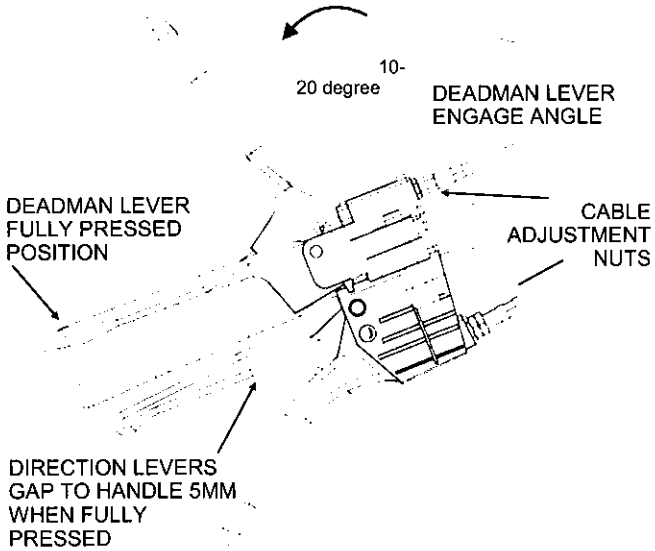
2: Adjust forward/reverse direction levers cable tension if required, ensure 3mm - 5mm gap when fully pressed. Adjust cable adjustment nuts.

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

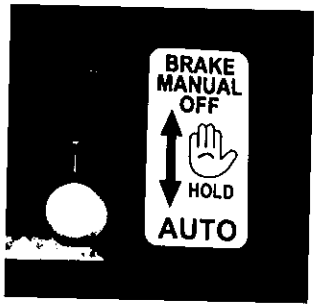
OPERATING THE TRUXTA

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

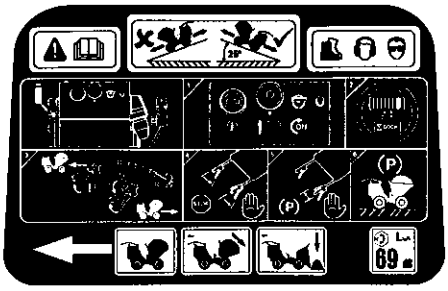
- TRUXTA has a built-in 24v charger
- Turn off ignition switch.
- Push in the large red button.
- Connect the cable provided to a mains supply 110-230 v. Charger is dual voltage.
- Check batteries are charging by observing small window on left hand side of battery box.
- The CHARGING light is normally 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.



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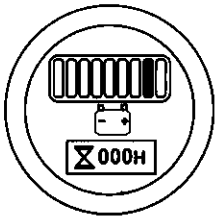
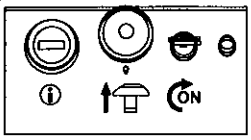
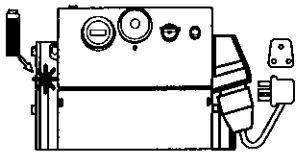


Battery Condition

1



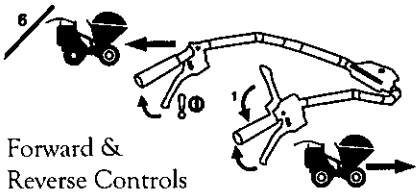
E Stop out, ignition on



Orange light charging
Green light charged

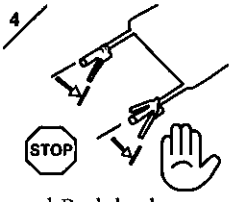
OPERATING INSTRUCTIONS

6



Forward & Reverse Controls

4



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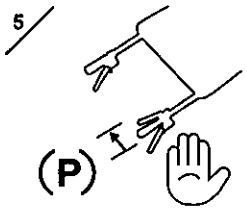
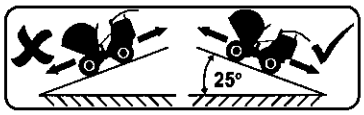




Stopping and Park brake

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

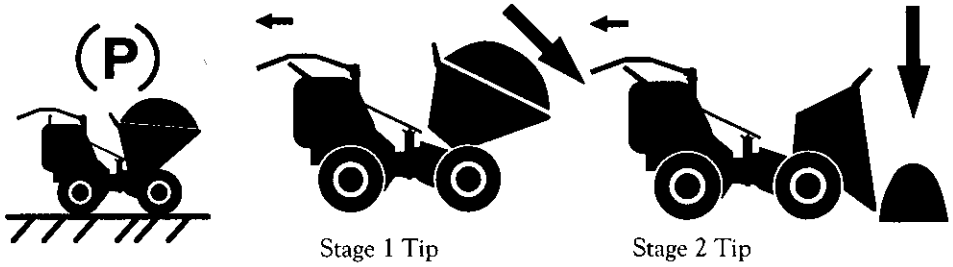
Release dead-man handle to stop.
Release lower forward / reverse levers.
Ideally Park on flat surface.

ON INCLINES

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

SKIP TIP, GRADIENT WARNING, PPE & NOISE LEVEL

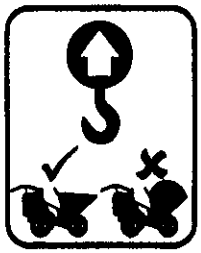
6



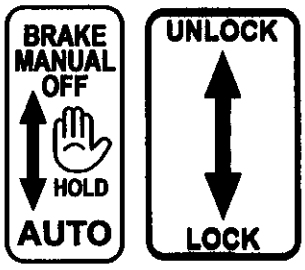
Stage 1 Tip Stage 2 Tip

DIRECTION OF TRAVEL

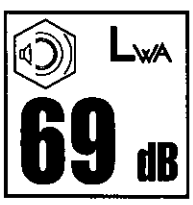
LIFTING POINTS UN-LADEN



BRAKE OVERRIDE, SKIP RETAINER



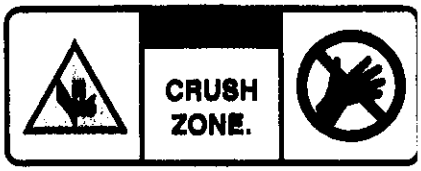
PPE , NOISE LEVEL



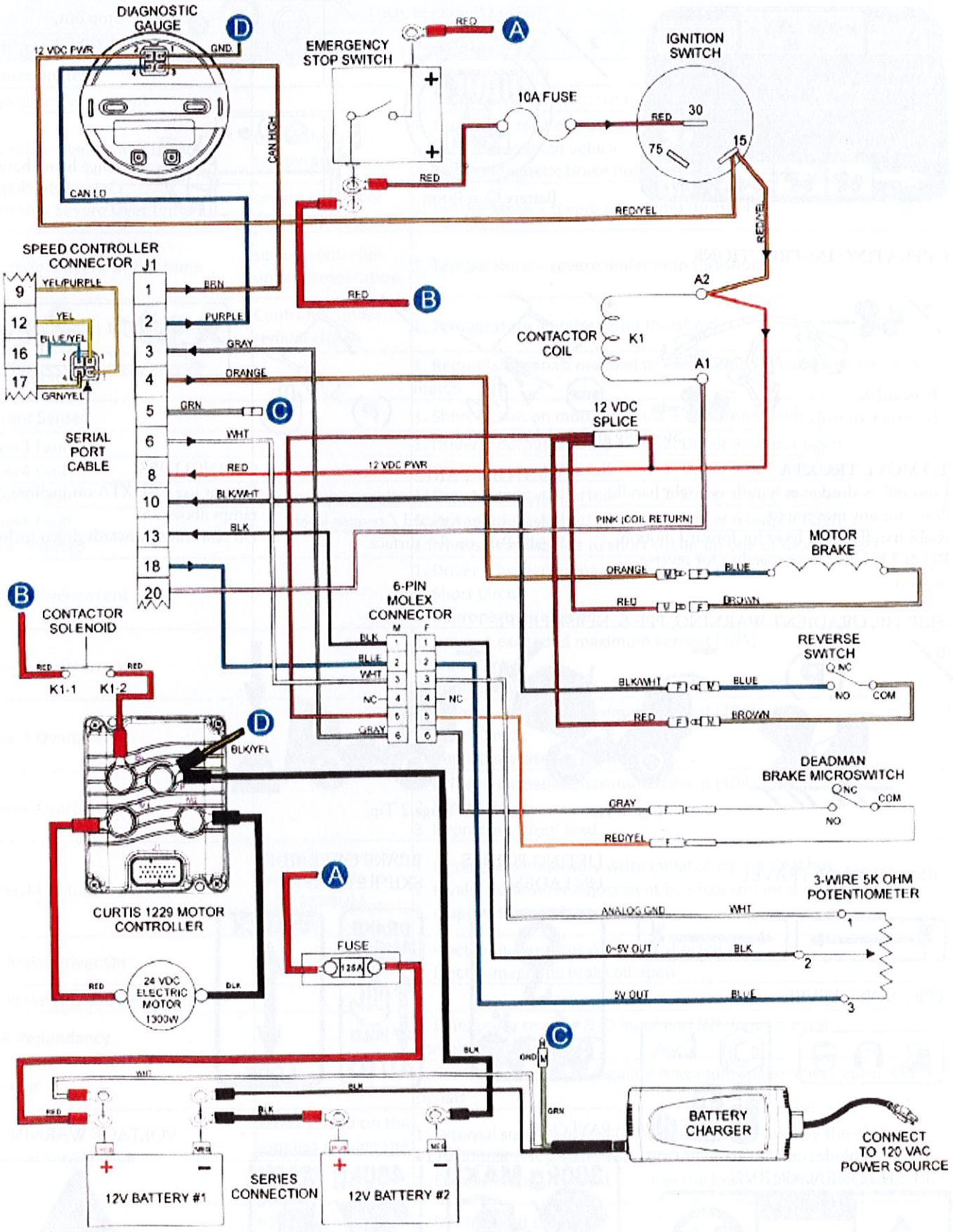
PAYLOAD

VOLTAGE WARNING

CRUSH ZONE WARNING



ELECTRIC TRUXTA - WIRING DIAGRAM - 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.

Table 4 ERROR CODES ON 3100R GAUGE

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

TROUBLESHOOT CHART		
PROGRAMMER LCD DISPLAY	**DESCRIPTION**	**POSSIBLE CAUSE**
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-magentic 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.

PROGRAMMER LCD DISPLAY	DESCRIPTION	POSSIBLE CAUSE
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 contactor 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		If the fault is on an external signal, check that signal first. If there is no problem with the external signal, the supervisor fault likely indicates an internal controller fault. 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.
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	1. Batter voltage < undervoltage threshold. 2. Bad connection at battery or controller.
User Fault Estop	User Programmed Fault	

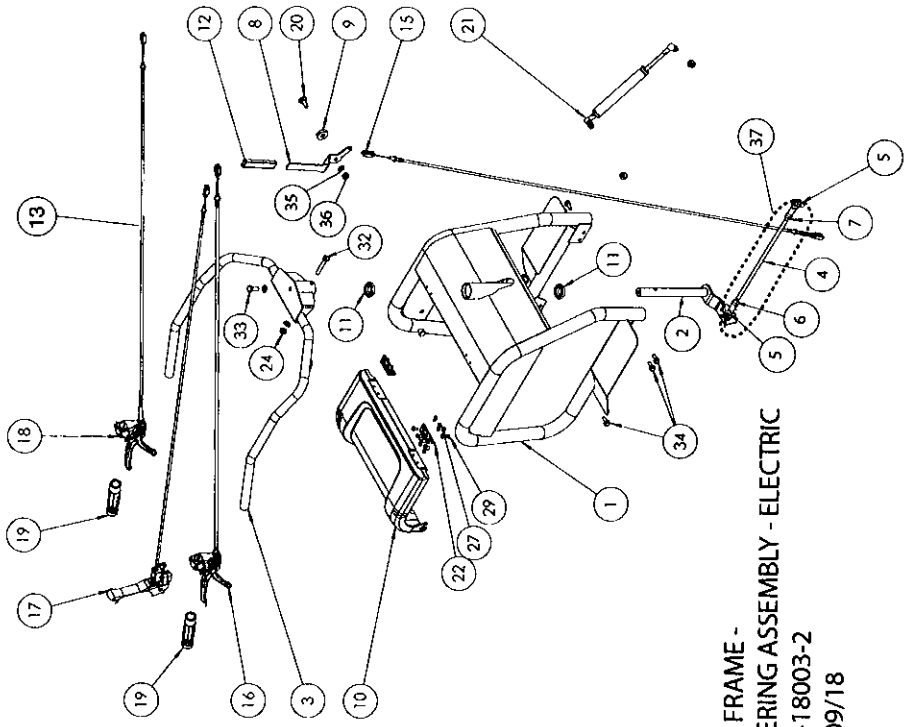
TOP FRAME STEERING ASSEMBLY .....PETROL & DIESEL

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

TOP FRAME STEERING ASSEMBLY -.....ELECTRIC

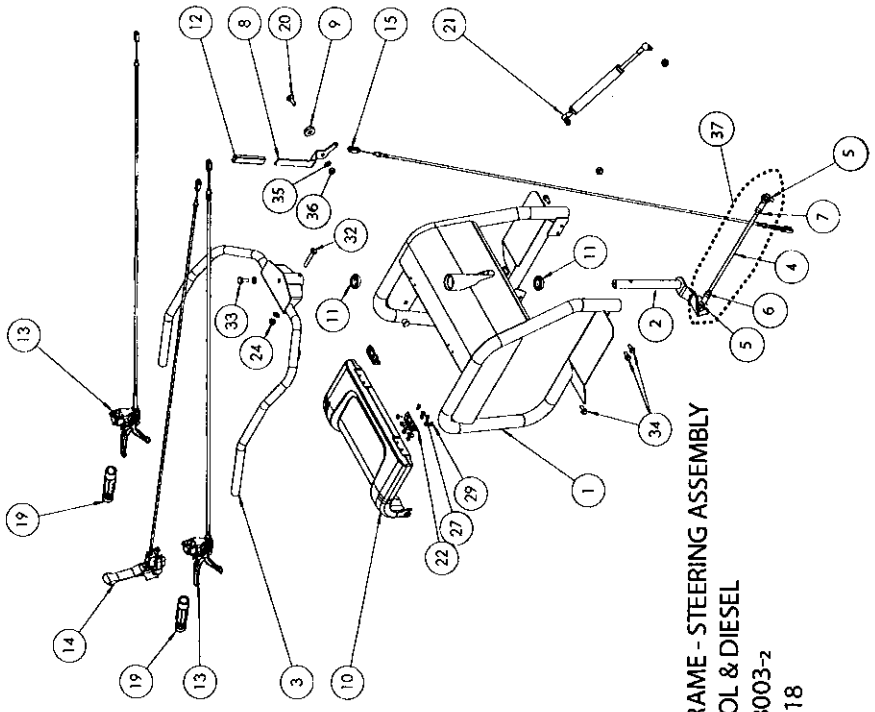
ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES
1	101-00400	TOP FRAME WA	1	
2	101-00800	REAR STEERING PIVOT WA	1	
3	101-01000	HANDLE AND PIVOT WA	1	
4	101-00901	ROD STEERING	1	SERIAL NO UP TO B181709
5	3-5026-0	ROD END M10 RH	2	SERIAL NO UP TO B181709
6	8-10003	NUT M10 BZP	1	
7	8-10005	NUT M10 THIN LH	2	SERIAL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

TOP FRAME STEERING ASSEMBLY - ELECTRIC



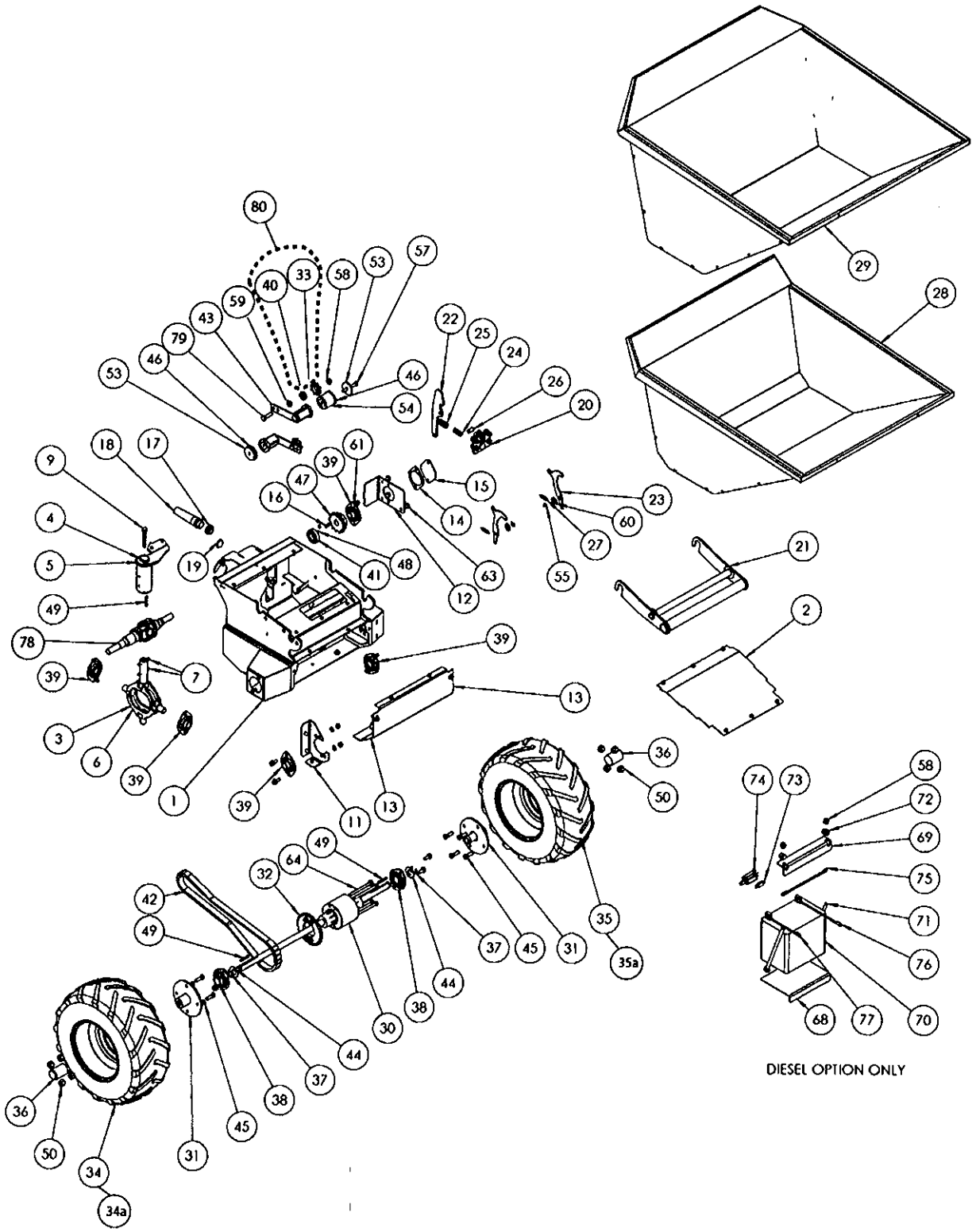
TOP FRAME -
STEERING ASSEMBLY - ELECTRIC
800-18003-2
03/09/18

TOP FRAME STEERING ASSEMBLY - PETROL & DIESEL



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

	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 KEYED	1		42	21-2100	CHAIN 5/8" 67R FRONT	1	
4	101-04000	CENTRE STEERING PIVOT WA KEYED	1		43	2-1001	TENSIONER ASSEMBLY	2	
5	101-00500		1	SERIAL NO UP TO B151049	44	4-9021	WASHER 3/4" ID X 38 x 2.0	2	
6	101-00100	GIMBLE WA 3/4"	1	SERIAL NO UP TO B151049	45	7-10050	WHEEL STUD 3/8"X24UNF	8	
7	3-0093	PIN SPIROL 8 X 50 LONG	2	SERIAL NO UP TO B151049	46	4-9031	WASHER 50X8.5X1.5 BZP	6	
8	4-8006	WASHER M8 FORM A BZP	14		47	21-1500	COG 13T 66.32PCD	1	
9	7-8061	SCREW SET M8 X 70mm (PLAIN)	1		48	7-6031	SCREW GRUB M6 X 12	2	
10	4-8003	WASHER M8 SPRING BZP	2		49	21-1200	KEY 3/16"SQ X 40mm	3	
11	102-99921	PRESSING BEARING FRONT	1		50	8-3800	WHEEL NUT - 3/8" UNF	8	
12	101-99961	COVER BEARING FRONT	1		51	8-6011	RIVNUT M6 HEXAGON	8	
13	102-99948	PRESSING FRONT COVER	1		52	8-8011	RIVNUT M8 HEXAGON	4	
14	101-99943	SPACER BEARING COVER	1		53	102-99940	BOSS TENSIONER SUPPORT	2	
15	101-99942	PLATE BEARING COVER	1		54	104-99913	BOSS TENSIONER SPACER	1	
16	21-1600	KEY 6X6X25	1		55	3-1050	CLIP-E (TO SUIT DIA 12 SHAFT)	2	
17	70-5011	NUT 25mm BULK HD	1		56	7-10003	SCREW SET M10 X 35 BZP	2	
18	70-5030	CABLE GLAND	1		57	2260305	BOLT M8 X 60 HEX BZP	1	
19	72-1000	BLANKING PLUG 25MM	1		58	8-10006	NUT M10 NYLOC	4	
20	101-01200	SKIP CATCH BRACKET WA	1		59	8-10002	NUT M10 BZP THIN	2	
21	101-02100	FRAME SKIP CARRIER W.A	1		60	4-1204	WASHER M12 FORM A BZP	2	
22	101-02901	PLATE SKIP CATCH	1		61	9-8067	BOLT M8 X 25 COACH	2	
23	101-99929	PRESSING TIP RETAINER	2		62	8-8008	NUT M8 NYLOC BZP	6	
24	2-1012	SPRING INNER	1		63	7-8080	BOLT M8 X 20 HEX BZP	24	
25	2-1013	SPRING OUTER	1		64	7-8037	DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
26	3-0091	PIN LATCH PIVOT	1		65	8-8024	NUT 5/16" UNC NYLOC BZP	6	
27	2-1007	SPRING EXT (RETAINER CATCH)	2		66	7-6060	SCREW M6 X 14 SER HD BZP	8	
28	100-00500	SKIP 300 W.A. (LIME GREEN)	1	BENDI 300	67	7-8007	BOLT M8 X 35 BZP	1	
29	100-01100	SKIP 450 W.A. (LIME GREEN)	1	BENDI 450	68	101-99957	PRESSING BATTERY CARRIER	1	DIESEL OPTION
30	6-1200-0	DIFFERENTIAL AXLE FRONT - 100-248EP-18024	1		69	101-99958	BRACKET BATTERY CLAMP	1	DIESEL OPTION
31	102-03100	HUB W.A.	2		70	70-2900	BATTERY 12V 101E	1	DIESEL OPTION
32	104-99925	GEAR 22T PCD111.55	1		71	9-10033	M10 X 220 COACHBOLT	2	DIESEL OPTION
33	104-99926	COG 8T 41.48PCD	2	SERIAL NO UP TO B181628	72	4-1004	WASHER M10 FORM C BZP	2	DIESEL OPTION
34	60-6509RHF	WHEEL ASSY 16X6.5X8	1	BENDI 300	73	70-0138	FUSE INLINE 70A FLAT DIA6	1	DIESEL OPTION
34a	60-6509LHF	WHEEL ASSY 16X6.5X8	1	BENDI 450	74	70-0130	FUSE HOLDER INLINE	1	DIESEL OPTION
35	60-6509LHF	WHEEL ASSY 16X6.50X8	1	BENDI 300	75	70-0144	POWER CABLE +VE 1200MM 6/6 DIESEL	1	DIESEL OPTION
35a	60-6509RHF	WHEEL ASSY 16X6.50X8	1	BENDI 450	76	70-0145	POWER CABLE -VE 1200MM 6/6 DIESEL	1	DIESEL OPTION
36	72-0400	MOULDING HUB COVER	2		77	70-0146	POWER CABLE +VE 300MM 6/6 DIESEL	1	DIESEL OPTION
37	3-1061	CLIP E- 3/4" SHAFT	2		78	21-0650	DRIVESHAFT ASSY	1	
38	53-0110	BEARING BALL 25 bore mounted	2		79	9-10007	M10 X50 BOLT	2	
39	53-0120	BEARING BALL 19.05 bore mounted	5		80	104-99926SP	COG / SLIPPER KIT	2	SERIAL NO FROM B181629



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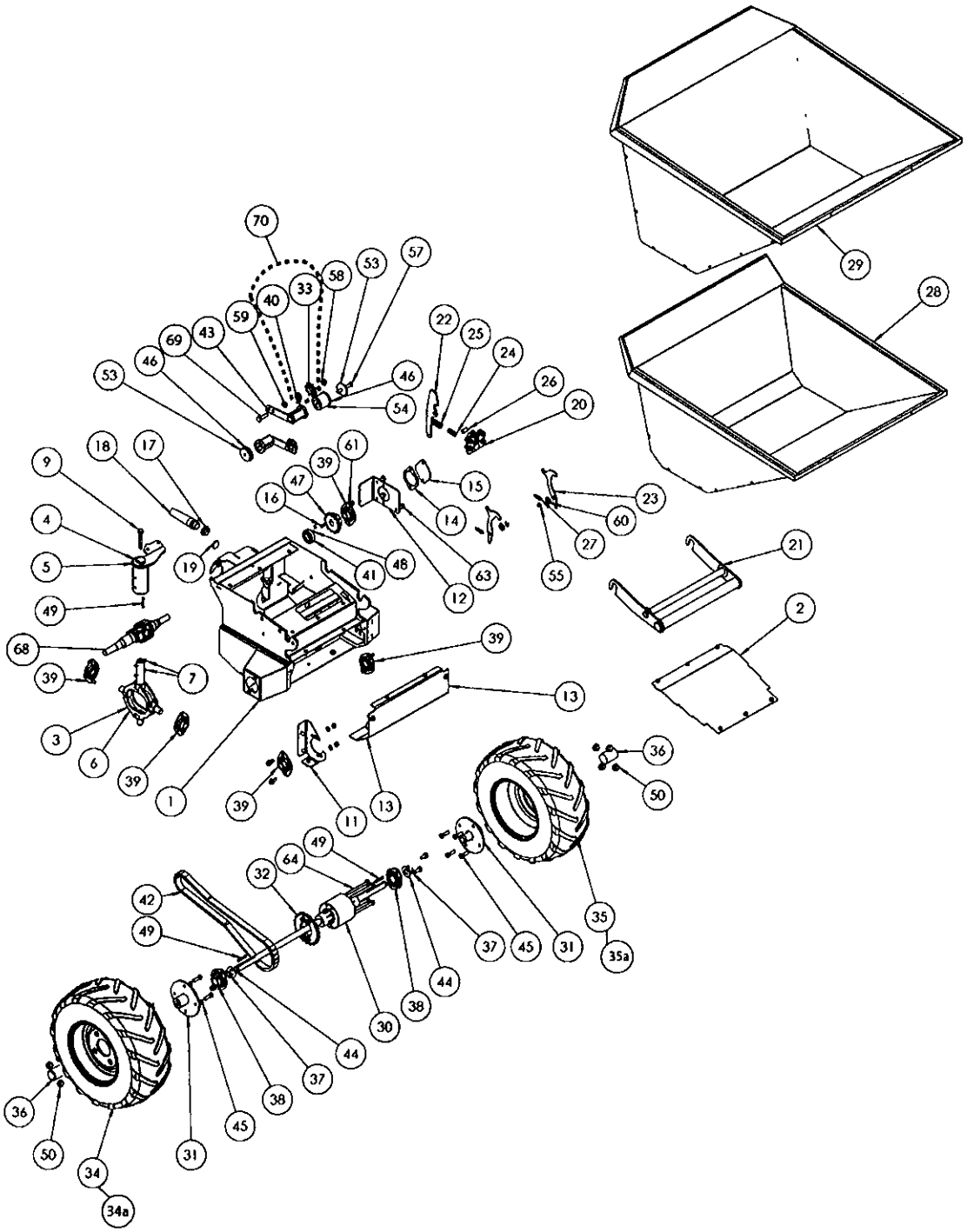
ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES	ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES
1	101-03300	CHASSIS FRONT WA	1		36	72-0400	MOULDING HUB COVER	2	
2	101-99908	PRESSING MIDDLE COVER	1		37	3-1061	CLIP E-3/4" SHAFT	2	
3	101-0410	GIMBLE WA KEYED	1		38	53-0110	BEARING BALL 25 bore mounted	2	
4	101-04000	CENTRE STEERING PIVOT WA KEYED	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	8-6011	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					



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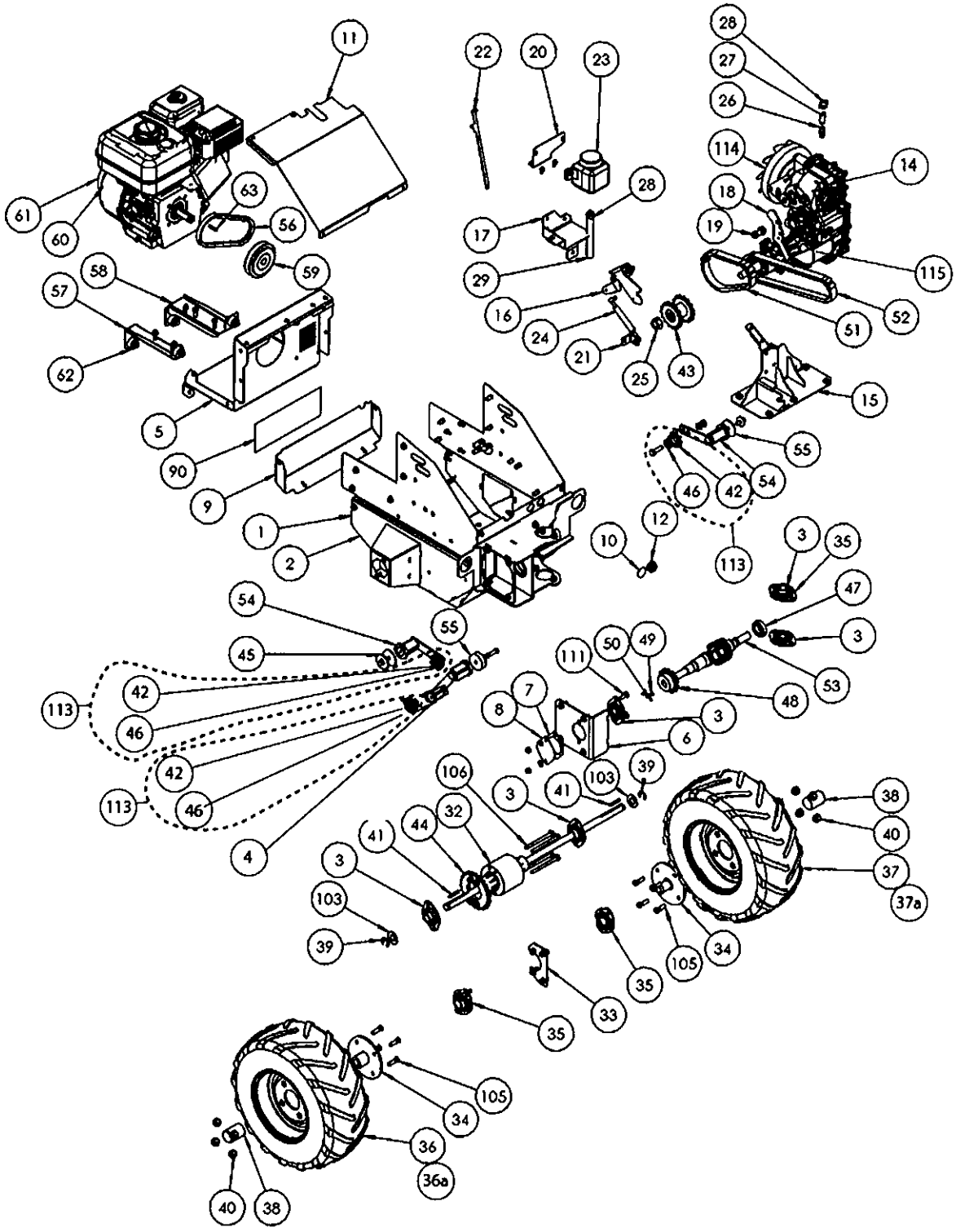
03/09/2018

REAR ASSEMBLY PARTS LIST - PETROL

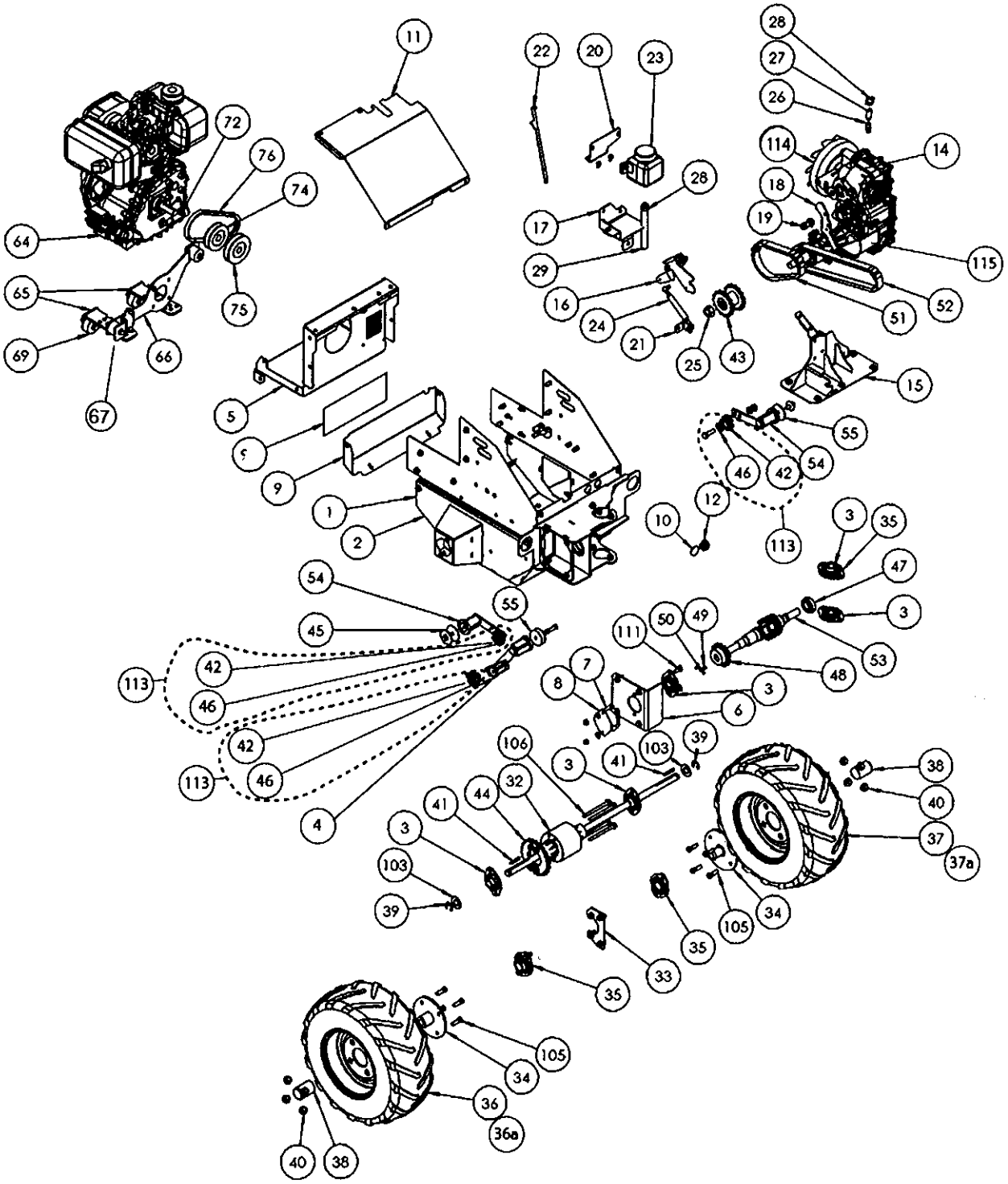
ITEM	PART NO	DESCRIPTION	QTY	NOTES
1	101-03200	REAR CHASSIS WA	1	
2	101-04400	REAR CHASSIS WA	1	SERIAL B151040 - B151049
3	53-0120	BEARING BALL 19.05 bore mounted	5	SERIAL B151040 - B151049
4	2-1009	TENSIONER SE11	1	SERIAL B151040 - B151049
5	101-99956	PRESSING ENGINE DECK	1	
6	101-99960	COVER BEARING REAR	1	
7	101-99943	SPACER BEARING COVER	1	
8	101-99942	PLATE BEARING COVER	1	
9	101-99917	PRESSING REAR COVER	1	
10	72-1000	BLANKING PLUG 25MM	1	
11	101-99951	COVER REAR UNIT	1	
12	70-5010	FITTING DIA 25MM BULK HD	1	
13	70-5002	BULK HD CLAMP NUT	1	
14	6-200	TRANSMISSION UNIT	1	
15	101-03600	BRACKET BASE WA	1	
16	101-99947	BRACKET LEVER DIRECTION	1	
17	101-99949	BRACKET CORNER UPPER	1	
18	101-99948	PLATE BRAKE LOCK	1	
19	9-10034	SHOULDER BOLT M10 X 16	1	
20	101-99953	BRACKET EXP TANK	1	
21	101-99962	BRACKET DAMPENER	1	
22	101-99952	PLATE PUMP OVERRIDE	1	
23	37043	EXPANSION TANK 71328	1	
24	2-1300	DAMPENER STRUT	1	
25	8-19001	UNF 3/4" NUT	1	
26	6-0001	ADAPTOR ST 7/16" UNC-1/4" BSP SS	1	
27	6-0002	ELBOW 90DEG F-M 1/4" BSP - 1/4" BSPT SS	1	
28	6-0003	HOSE PINCH CLIP 17/20	2	
29	6-0004	PIPE 3/4" REINFORCED CLEAR	1	
30	2-1010	SPRING EXT	1	
31	2-1011	SPRING EXT 12.7X1.63X50.8 ENTEX 2128	1	
32	6-1300	DIFFERENTIAL AXLE REAR	1	
33	101-99954	PLATE BEARING REAR	1	
34	102-03100	HUB W.A.	2	
35	53-0110	BEARING BALL 25 bore mounted	3	
36	60-6509RHF	WHEEL ASSY 16X6.5X8	1	BENDI 300
36a	60-6509LHF	WHEEL ASSY 16X6.5X8	1	BENDI 450
37	60-6509LHF	WHEEL ASSY 16X6.50X8	1	BENDI 300
37a	60-6509RHF	WHEEL ASSY 16X6.50X8	1	BENDI 450
38	72-0400	MOULDING HUB COVER	2	
39	3-1061	CLIP E- 3/4" SHAFT	2	
40	8-3800	WHEEL NUT - 3/8" UNF	8	
41	21-1200	KEY 3/16"SQ X 40mm	2	
42	104-99926	COG 8T 41.48PCD	3	
43	101-03700	SHAFT OUPTU DRIVE WA	1	
44	104-99925	GEAR 22T PCD111.55	1	
45	102-99940	BOSS TENSIONER SUPPORT	1	
46	53-0130	BEARING BALL 26x10x8	3	
47	53-0170	BEARING BALL 25x47x12	1	
48	21-1500	COG 13T 66.32PCD	1	
49	21-1600	KEY 6X6X25	1	
50	7-6031	SCREW GRUB M6 X 12	2	
51	21-2080	CHAIN REAR 5/8" SHORT	1	
52	21-2090	CHAIN REAR LONG 5/8"	1	
53	21-0650	ASSEMBLY DRIVE JOINT	1	
54	2-1001	TENSIONER ASSEMBLY	3	
55	4-9031	WASHER 50X8.5X1.5 BZP	6	
56	21-3030	BELT - A22	1	PETROL OPTION
57	101-99926	PRESSING FOOT BRKT HONDA	1	PETROL OPTION
58	101-99927	PRESSING DRAIN BRKT HONDA	1	PETROL OPTION
59	21-3040	PULLEY SPA100-01 TPL1610 0.75	1	PETROL OPTION
60	20-1600	ENGINE HONDA GX160	1	PETROL OPTION
61	20-2000	ENGINE HONDA GX200	1	450 SKIP OPTION
62	21-0500	A V MOUNT 30x15xM8	4	PETROL OPTION
63	21-0800	KEY 3/16"SQ X 2" X 30MM LG	1	PETROL OPTION
68	21-0510-0	A V MOUNT 40x30xM8	2	
70	4-8006	WASHER M8 FORM A BZP	45	
71	8-8008	NUT M8 NYLOC BZP	24	
73	7-8011	BOLT M8 X 20 HEX BZP	3	
77	7-8004	SCREW SET M8 X 12 HTS BZP	6	
78	4-8003	WASHER M8 SPRING BZP	8	
79	4-1003	WASHER - M10 SPRING BZP	2	
80	4-1007	WASHER FLAT M10 FORM A BZP	4	
81	8-10006	NUT M10 NYLOC	6	
82	7-10004	SCREW SET M10 X 20 BZP	2	
83	21-1800	KEY 8x7X40 LG ROUND END	1	
84	7-8010	SCREW CAP M8X25MM SCKT HD BZP	4	
85	21-1700	KEY 5x5x20 LG ROUND END	1	
86	7-8007	BOLT M8 X 35 BZP	8	
87	72-1300	BOOT RA 16ID 8ID	2	
88	8-6011	RIVNUT M6 HEXAGON	6	
89	8-8011	RIVNUT M8 HEXAGON	25	
90	800-11120	DECAL SHEET PETROL	1	
91	9-8020	BOLT M8 X 60 BZP	2	
92	9-8022	BOLT M8 X 70 BZP	3	
93	7-808	BOLT M8 X 20 HEX BZP	43	
94	4-6001	WASHER M6 FORM A BZP	4	
95	7-6037	1/4 UNF BY 5/8 LG SET SCREW	2	
96	8-6007	NUT M6 NYLOC	2	
97	76060	SCREW M6 X 14 SER HD BZP	10	
98	7-8012	BOLT M8 X 25 BZP	4	
99	7-4014	SCREW M4 X 20 HEX HD SET	1	
100	4-4001	WASHER M4 FORM A BZP	2	
101	8-4005	M4 NYLOCK BZP	1	
102	4-1004	WASHER M10 FORM C BZP	1	
103	4-9021	WASHER 3/4" ID X 38 x 2.0	2	
104	8-8024	NUT 5/16" UNC NYLOC BZP	4	
105	7-10050	WHEEL STUD 3/8"X24UNF	8	
106	7-8037	DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
107	7-10003	SCREW SET M10 X 35 BZP	3	
108	8-10003	NUT M10 BZP	3	
109	4-5002	WASHER M5 FORM A BZP	2	
110	8-5003	NUT NYLOC M5	2	
111	9-8067	BOLT M8 X 25 COACH	2	
112	4-8004	WASHER M8 X 30 X 3	1	
113	104-99926SP	COG/SLIPPER KIT	3	SERIAL NO FROM B181629
114	6-1800	FAN KIT 72138	1	SPARES ONLY
115	6-2002	PUMP OIL FILTER	1	SPARES ONLY



800-18000-2
03/09/2018

REAR ASSEMBLY PARTS LIST - DIESEL

ITEM	PART NO	DESCRIPTION	QTY	NOTES
1	101-03200	REAR CHASSIS WA	1	
2	101-04400	REAR CHASSIS WA	1	SERIAL B151040 - B151049
3	53-0120	BEARING BALL 19.05 bore mounted	5	SERIAL B151040 - B151049
4	2-1009	TENSIONER SET1	1	SERIAL B151040 - B151049
5	101-99956	PRESSING ENGINE DECK	1	
6	101-99960	COVER BEARING REAR	1	
7	101-99943	SPACER BEARING COVER	1	
8	101-99942	PLATE BEARING COVER	1	
9	101-99917	PRESSING REAR COVER	1	
10	72-1000	BLANKING PLUG 25MM	1	
11	101-99951	COVER REAR UNIT	1	
12	70-5010	FITTING DIA 25MM BULK HD	1	
13	70-5002	BULK HD CLAMP NUT	1	
14	6-2000	TRANSMISSION UNIT	1	
15	101-03600	BRACKET BASE WA	1	
16	101-99947	BRACKET LEVER DIRECTION	1	
17	101-99949	BRACKET CORNER UPPER	1	
18	101-99948	PLATE BRAKE LOCK	1	
19	9-10034	SHOULDER BOLT M10 X 16	1	
20	101-99953	BRACKET EXP TANK	1	
21	101-99962	BRACKET DAMPENER	1	
22	101-99952	PLATE PUMP OVERRIDE	1	
23	6-2001	EXPANSION TANK 71328	1	
24	2-1300	DAMPENER STRUT	1	
25	8-19001	UNF 3/4" NUT	1	
26	6-0001	ADAPTOR ST 7/16" UNC-1/4" BSP SS	1	
27	6-0002	ELBOW 90DEG F-M 1/4" BSP - 1/4" BSPT SS	1	
28	6-0003	HOSE PINCH CLIP 17/20	2	
29	6-0004	PIPE 3/4" REINFORCED CLEAR	1	
30	2-1010	SPRING EXT	1	
31	2-1011	SPRING EXT 12.7X1.63X50.8 ENTEX 2128	1	
32	6-1300	DIFFERENTIAL AXLE REAR	1	
33	101-99954	PLATE BEARING REAR	1	
34	102-03100	HUB W.A.	2	
35	53-0110	BEARING BALL 25 bore mounted	3	
36	60-6509RHF	WHEEL ASSY 16X6.5X8	1	BENDI 300
36a	60-6509LHF	WHEEL ASSY 16X6.5X8	1	BENDI 450
37	60-6509LHF	WHEEL ASSY 16X6.50X8	1	BENDI 300
37a	60-6509RHF	WHEEL ASSY 16X6.50X8	1	BENDI 450
38	72-0400	MOULDING HUB COVER	2	
39	3-1061	CLIP E- 3/4" SHAFT	2	
40	3800	WHEEL NUT - 3/8" UNF	8	
41	21-1200	KEY 3/16"SQ X 40mm	2	
42	104-99926	COG 8T 41.48PCD	3	
43	101-03700	SHAFT OUPTU DRIVE WA	1	
44	104-99925	GEAR 22T PCD111.55	1	
45	102-99940	BOSS TENSIONER SUPPORT	1	
46	53-0130	BEARING BALL 26x10x8	3	
47	53-0170	BEARING BALL 25x47x12	1	
48	21-1500	COG 13T 66.32PCD	1	
49	21-1600	KEY 6X6X25	1	
50	7-6031	SCREW GRUB M6 X 12	2	
51	21-2080	CHAIN REAR 5/8" SHORT	1	
52	21-2090	CHAIN REAR LONG 5/8"	1	
53	21-0650	ASSEMBLY DRIVE JOINT	1	
54	2-1001	TENSIONER ASSEMBLY	3	
55	4-9031	WASHER 50X8.5X1.5 BZP	6	
64	20-4801	Diesel Engine L48N	1	DIESEL OPTION
65	101-99921	PRESSING YANMAR FOOT BRKT	2	DIESEL OPTION
66	101-99933	PRESSING ENG. MOUNTING L48 (B)	1	DIESEL OPTION
67	101-99936	PRESSING L48 CORNER MOUNT	1	
68	21-0510	A V MOUNT 40x30xM8	2	
69	21-0530	A V MOUNT 50x20xM10	2	DIESEL OPTION
70	4-8006	WASHER M8 FORM A BZP	45	
71	8-8008	NUT M8 NYLOC BZP	24	
72	21-1000	KEY 3/16" X 23MM LONG	1	DIESEL OPTION
73	7-8011	BOLT M8 X 20 HEX BZP	3	
74	21-3070	PULLEY SPA71/01 HT6 WITH TPL1210 0.75	1	B450D OPTION
75	21-3060	PULLEY SPA80/01 HT6 WITH TPL1210 0.75	1	DIESEL OPTION
76	21-3050	BELT - A18	1	DIESEL OPTION
77	7-8004	SCREW SET M8 X 12 HTS BZP	6	
78	4-8003	WASHER M8 SPRING BZP	8	
79	4-1003	WASHER - M10 SPRING BZP	2	
80	4-1007	WASHER FLAT M10 FORM A BZP	4	
81	8-10006	NUT M10 NYLOC	6	
82	7-10004	SCREW SET M10 X 20 BZP	2	
83	21-1800	KEY 8x7X40 LG ROUND END	1	
84	7-8007	SCREW CAP M8X25MM SCKT HD BZP	4	
85	21-1700	KEY 5x5x20 LG ROUND END	1	
86	7-8007	BOLT M8 X 35 BZP	8	
87	72-1300	BOOT RA 16ID 8ID	2	
88	8-6011	RIVNUT M6 HEXAGON	6	
89	8-8011	RIVNUT M8 HEXAGON	25	
90	800-11120	DECAL SHEET PETROL	1	
91	9-8020-0	BOLT M8 X 60 BZP	2	
92	9-8022	BOLT M8 X 70 BZP	3	
93	7-8080	BOLT M8 X 20 HEX BZP	43	
94	4-6001	WASHER M6 FORM A BZP	4	
95	7-6037	1/4 UNF BY 5/8 LG SET SCREW	2	
96	8-6007	NUT M6 NYLOC	2	
97	7-6060	SCREW M6 X 14 SER HD BZP	10	
98	7-8012	BOLT M8 X 25 BZP	4	
99	7-4014	SCREW M4 X 20 HEX HD SET	1	
100	4-4001	WASHER M4 FORM A BZP	2	
101	8-4005	M4 NYLOCK BZP	1	
102	4-1004	WASHER M10 FORM C BZP	1	
103	4-9021	WASHER 3/4" ID X 38 x 2.0	2	
104	8-8024	NUT 5/16" UNC NYLOC BZP	4	
105	7-10050	WHEEL STUD 3/8"X24UNF	8	
106	7-8037	DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
107	7-10003	SCREW SET M10 X 35 BZP	3	
108	8-10003	NUT M10 BZP	3	
109	4-5002	WASHER M5 FORM A BZP	2	
110	8-5003	NUT NYLOC M5	2	
111	9-8067	BOLT M8 X 25 COACH	2	
112	4-8004	WASHER M8 X 30 X 3	1	
113	104-99926SP	COG/SLIPPER KIT	3	SERIAL NO FROM B181629
114	6-1800	FAN KIT 72138	1	SPARES ONLY
115	6-2002	PUMP OIL FILTER	1	SPARES ONLY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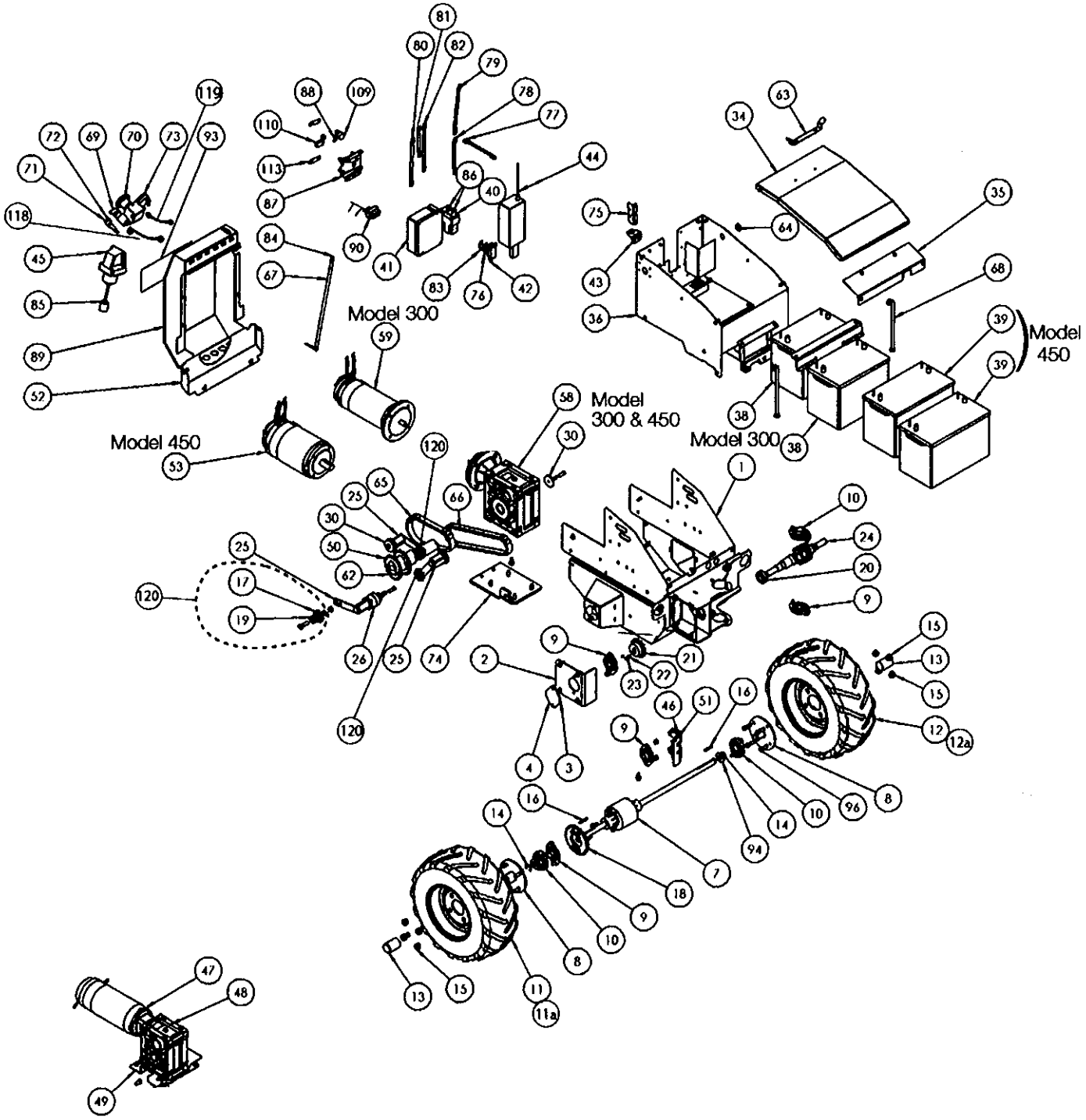
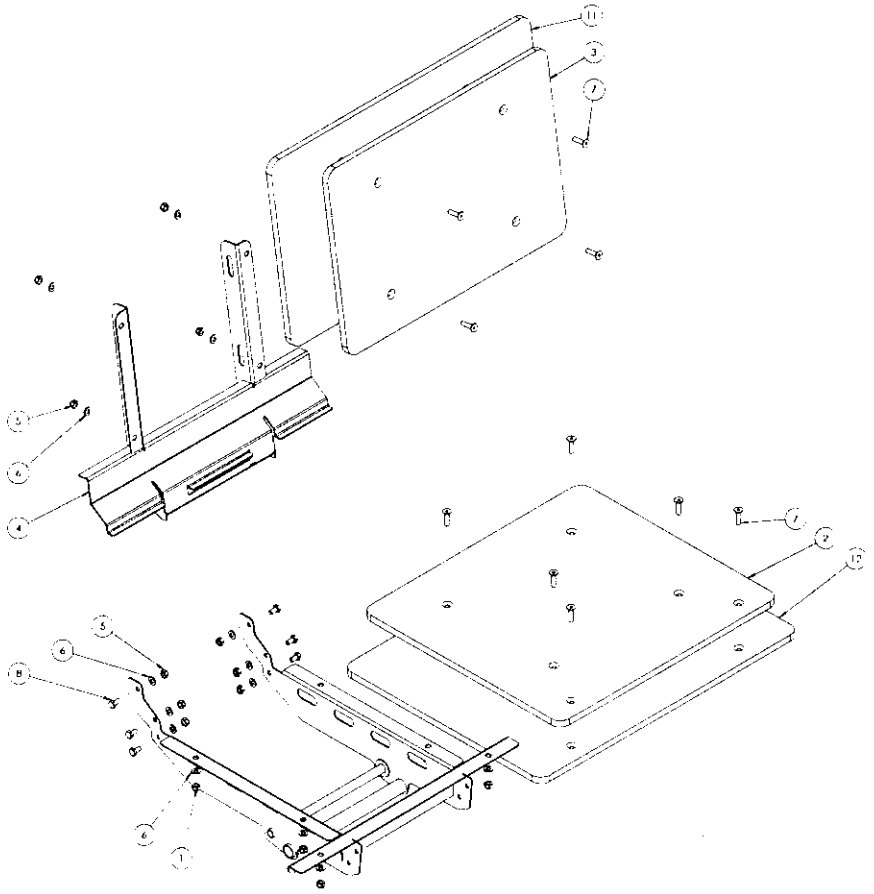
ITEM NO.	PART NO	DESCRIPTION	QTY	NOTES
1	101-03200	REAR CHASSIS WA	1	
2	101-99960	COVER BEARING REAR	1	
3	101-99943	SPACER BEARING COVER	1	
4	101-99942	PLATE BEARING COVER	1	
5	70-5010	FITTING DIA 25MM BULK HD	1	
6	70-5002	BULK HD CLAMP NUT	1	
7	6-1300	DIFFERENTIAL AXLE REAR	1	
8	102-03100	HUB W.A.	2	
9	53-0120	BEARING BALL 19.05 bore mounted	4	SERIAL B161056-B161064
10	53-0110	BEARING BALL 25 bore mounted	3	
11	60-6509RHF	WHEEL ASSY 16X6.5X8	1	BENDI 300
11a	60-6509LHF	WHEEL ASSY 16X6.5X8	1	BENDI 450
12	60-6509LHF	WHEEL ASSY 16X6.50X8	1	BENDI 300
12a	60-6509RHF	WHEEL ASSY 16X6.50X8	1	BENDI 450
13	72-0400	MOULDING HUB COVER	2	
14	3-1061	CLIP E- 3/4" SHAFT	2	
15	8-3800	WHEEL NUT - 3/8" UNF	8	
16	21-1200	KEY 3/16"SQ X 40mm	2	
17	104-99926	COG 8T 41.48PCD	3	
18	104-99925	GEAR 22T PCD111.55	1	
19	53-0130	BEARING BALL 26x10x8	3	
20	53-0170	BEARING BALL 25x47x12	1	
21	21-1500	COG 13T 66.32PCD	1	
22	21-1600	KEY 6X6X25	1	
23	7-6031	SCREW GRUB M6 X 12	2	
24	21-0650	ASSEMBLY DRIVE JOINT	1	
25	2-1001	TENSIONER ASSEMBLY	3	
26	4-9031	WASHER 50X8.5X1.5 BZP	6	
27	7-6060	SCREW M6 X 14 SER HD BZP	18	
28	4-6001	WASHER M6 FORM A BZP	2	
29	8-6007	NUT M6 NYLOC	4	
30	102-99940	BOSS TENSIONER SUPPORT	2	
31	7-8012	BOLT M8 X 25 BZP	5	
32	4-8003	WASHER M8 SPRING BZP	4	
33	4-8006	WASHER M8 FORM A BZP	18	
34	101-99964	TOP COVER BATTERY BOX	1	
35	101-99965	PRESSING ELECTRIC CENTRE COVER	1	
36	101-03800	BATTERY BOX W.A.	1	
37	101-99946	BATTERY CLAMP	1	
38	70-3000	Battery 24-AGM	2	MODEL 300
39	70-3100	Battery 27AGM	2	MODEL 450
40	70-0128	CURTIS SOL 24V CO	1	
41	70-0129	CURTIS DC MOTOR CONTROLLER	1	
42	70-0130	FUSE HOLDER INLINE	1	
43	101-99966	BRAKE PIVOT BRACKET	1	
44	70-0134	BATTERY CHARGER	1	
45	70-0137	240V 16A SKT INLET IN0021	1	
46	101-99973	BEARING REAR BRACKET	1	
47	70-0800	MOTOR 1000W	1	SERIAL B161056-B161064
48	6-1500	GEARBOX 30:1 30MM BORE 71B14	1	SERIAL B161056-B161064
49	101-03500	BRACKET ELECTRIC GEARBOX	1	SERIAL B161056-B161064
50	101-04200	OUTPUT SHAFT ELETRIC	1	SERIAL B161056-B161064
51	101-99968	BRACKET AXLE BEARING ELECTRIC	1	SERIAL B161056-B161064
52	101-99963	PRESSING REAR COVER ELECTRIC	1	
53	70-01200	MOTOR 1300W	1	MODEL 450
55	21-1800	KEY 8x7X40 LG ROUND END	1	
56	7-8010	SCREW CAP M8X25MM SCKT HD BZP	4	
57	21-1700	KEY 5x5x20 LG ROUND END	1	
58	6-2100	GEARBOX TKM48B 71B5	1	MODEL 300
58	6-2200	GEARBOX TKM48B 90 B14	1	MODEL 450
59	70-01000	MOTOR 1000W	1	MODEL 300
60	7-8007	BOLT M8 X 35 BZP	4	
61	8-8008	NUT M8 NYLOC BZP	9	
62	101-04300	OUTPUT SHAFT ELETRIC	1	
63	101-99967	BRACKET CABLE WRAP	1	
64	72-1600	GROMMET 20MM	1	
65	21-2200	CHAIN ELECTRIC 1ST	1	
66	21-2400	CHAIN 2 5/8"	1	
67	101-99969	BRAKE DISENGAGE LEVER	1	
68	9-10033	M10 X 220 COACHBOLT	2	
69	70-0136	IGNITION SWITCH	1	
70	70-0127	CURTIS ED125	1	
71	70-0135	FUSE HOLDER SCI R3-14 250V 10A	1	
72	70-0142	FUSE 10A ROUND	1	
73	70-0133	CURTIS 906R24HGAAO	1	
74	101-99972	BASE BRACKET GEARBOX	1	
75	101-99971	CABLE CLAMP BRACKET	1	
76	70-0131	FUSE INLINE 125A FLAT DIA6	1	1 FUSE FOR ALL
77	70-0121	POWER CABLE -VE 400MM 8/8	1	
78	70-0122	POWER CABLE +VE 650MM 8/6	1	
79	70-0123	POWER CABLE +VE 400MM 8/6	1	
80	70-0124	POWER CABLE -VE 600MM 8/6	1	
81	70-0125	POWER CABLE +VE 125MM 8/6	1	
82	70-0126	POWER CABLE +VE 850MM 8/6	1	
83	70-0132	FUSE INLINE 100A FLAT DIA6	1	
84	72-1100	PVC CAP RED DIA10 X 25 LONG	1	
85	70-0139	POWER CABLE UK PLUG	1	
86	72-1300	BOOT RA 16ID 8ID	2	
87	101-99970	BRACKET POTENTIOMETER	1	
88	101-99975	CLAMP LEVER POTENTIOMETER	1	
89	101-03900	MOTOR COVER WA	1	
90	70-0143	CABLE HARNESS	1	
91	8-8011-0	RIVNUT M8 HEXAGON	10	
92	8-6011-0	RIVNUT M6 HEXAGON	12	
93	800-11122	DECAL SHEET ELECTRIC	1	
94	4-9021	WASHER 3/4" ID X 38 x 2.0	2	
95	8-8024	NUT 5/16" UNC NYLOC BZP	4	
96	7-10050	WHEEL STUD 3/8"X24UNF	8	
97	7-8080	BOLT M8 X 20 HEX BZP	28	
98	7-8037	DIFF BOLT 5/16" UNC X 4" FLANGED HEAD	4	
99	7-10003	SCREW SET M10 X 35 BZP	3	
100	8-10003	NUT M10 BZP	2	
101	8-10006	NUT M10 NYLOC	5	
102	4-5002	WASHER M5 FORM A BZP	1	
103	8-5003	NUT NYLOC M5	2	
104	9-8067	BOLT M8 X 25 COACH	2	
105	4-1004	WASHER M10 FORM C BZP	2	
106	4-8004	WASHER M8 X 30 X 3	1	
107	7-10100	BOLT M10 X 30 HEX BZP	4	
108	72-1400	SPACER F/R SW	1	
109	70-0140SP	POTENTIOMETER CURTIS CM4475 & HARNESS	1	
110	70-0141	MICROSWITCH ROLLER	1	
111	72-1500	SPACER THIN F/R SW	1	
112	2-1010	SPRING EXT	1	
113	2-1014	SPRING EXT	1	
114	7-6037	1/4 UNF BY 5/8 LG SET SCREW	3	
115	8-6001	NUT M6 BZP	3	
116	7-5025	M5 X 25 BZP	1	
117	7-3013	M5 X 20 SCREW HEX HD BZP	2	
118	70-0149	LEAD FUSE TO IGNITION	1	
119	70-0148	LEAD STOP SWITCH TO FUSE	1	
120	104-99925SP	COG/SLIPPER KIT	3	SERIAL NO FROM B181629

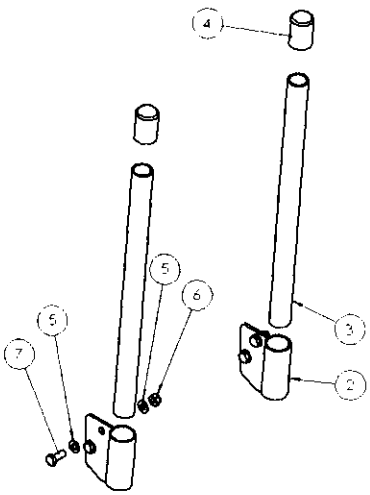


Serial Numbers
B161 056 to B161 064

TRUXTA ATTACHMENTS

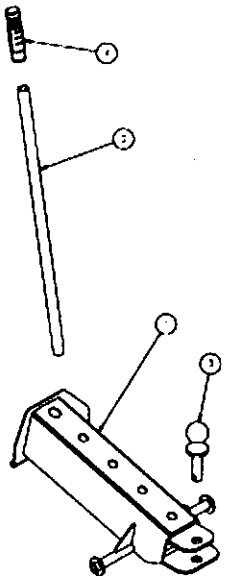
FLAT BED ATTACHMENT FOR TRUXTA (OPTT12-DIO for the 300) (OPTT14-DIO for the 450 model)				
ITEM NO.	PART NUMBER	DESCRIPTION	QTY	NOTES
1	73-0100-H	FLAT BED W.A.	1	
2	73-0111-C	FLAT BED BASE	1	300 OPTION
3	73-0112-B	FLAT BED REAR	1	300 OPTION
4	73-0900-G	FLATBED REAR WA	1	
5	8-10006-0	NUT M10 NYLOC	20	
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



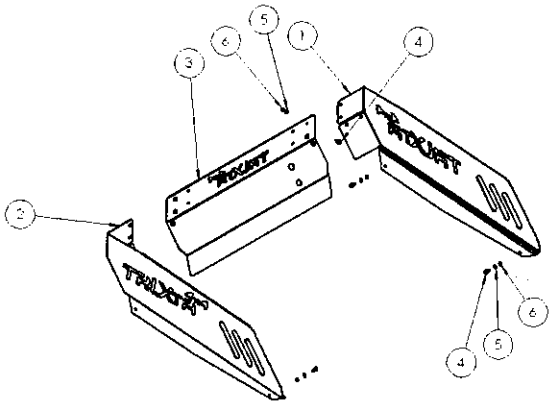


LOG POLES X 2 ATTACHMENT FOR TRUXTA (OPTT13-DIO)			
ITEM NO.	PART NO	DESCRIPTION	QTY.
1	73-1100	HOLDER STOP	2
2	73-1200	TUBE STOP	2
3	72-0400	MOULDING HUB COVER	2
4	4-1005	WASHER FLAT M10 FORM A BZP	8
5	8-10006	NUT M10 NYLOC	4
6	7-10005	SCREW SET M10 X 25 BZP	4

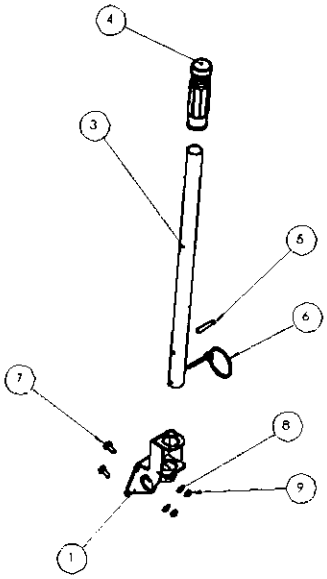
TOW BALL ATTACHMENT (OPTT11-DIO)			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	73-1500-B	HANDLE TOW ATTACHMENT	1
2	73-1400-A	TOW BALL C/W CLEVIS PIN	1
3	73-1300-C	BODY TOW ATTACHMENT	1
4	74-1022-0	HANDLE GRIP	1



GREEDY BOARD ATTACHMENT (OPTT15-DIO)			
ITEM NO.	PART N0	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

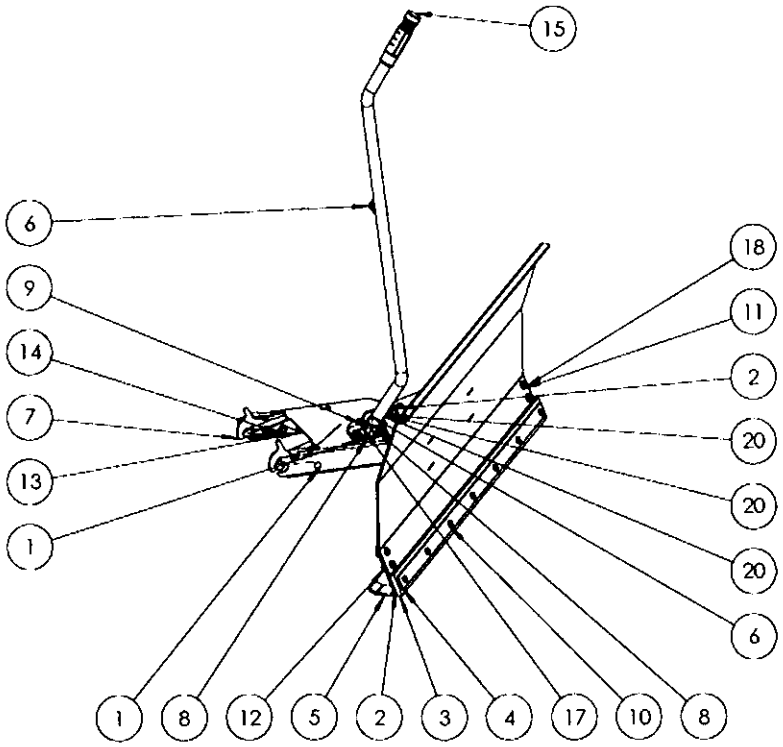


SKIP CONTROL HANDLE ATTACHMENT (OPTT16-DIO)			
ITEM NO.	PART N0	DESCRIPTION	QTY.
1	73-1700	BRACKET SKIP TIPPING	1
2	73-1703	HANDLE SKIP TIPPING	1
3	74-1022	HANDLE GRIP	1
4	3-0096	ROLL PIN 6 X 35	1
5	3-1018	CLIP LYNCH PIN	1
6	7-6060	SCREW M6 X 14 SER HD BZP	2
7	4-6001	WASHER M6 FORM A BZP	2
8	8-6007	NUT M6 NYLOC	2

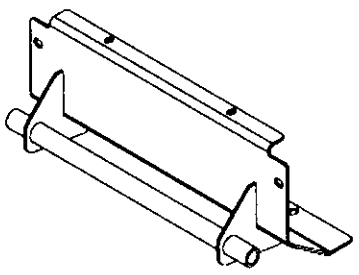


TRUXTA ATTACHMENTS

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	CUP-E (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)



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 84687or 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 and register warranty online
Alternatively scan / photocopy and email the completed warranty form to 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

TUFFTRUK LTD
THE CROFT
SHEEN
BUXTON
DERBYSHIRE
SK17 0EU
UK

Tel +44 (0) 1298 84687
sales@tufftruk.co.uk