

4 TONNE PORTA POWER

HYDRAULIC BODY FRAME REPAIR KIT



1. SAFETY GUIDELINES

PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFETY INSTRUCTION WARNINGS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE PROPERTY AND/OR SERIOUS PERSONAL INJURY. PLEASE KEEP THIS INSTRUCTION MANUAL SAFE FOR FUTURE USE.

- The maximum ram capacity is **4 Tonne**. DO NOT exceed this rated capacity.
- When extension tubes are used, the rated capacity is always reduced by 50% for each tube connected.
- The maximum spreader capacity is **0.5 Tonne**. And maximum ram toe and plunger toe capacity is **0.5 Tonne**. DO NOT exceed these rated capacities when using these attachments.
- Do not use this equipment as a vehicle lifting device or as a vehicle support.
- Keep children and other unauthorized persons away from work area.
- Remove loose clothing. Remove ties, watches, rings and other jewellery, and contain long hair.
- Always wear approved safety goggles when operating the repair kit.
- Maintain a steady balance and solid footing do not overreach and wear nonslip footwear.
- Only use this equipment on a surface that is stable. Level, dry and capable of sustaining the load. Keep the surface clean, tidy and free from unrelated materials and ensure that there is adequate lighting.
- When using this equipment, open the breather valve (PO9). Close it when not in use.
- DO NOT allow the piston rod (RO3) of ram to extend so far as to exceed the maximum ram stroke.
- When coupler valves are disconnected, always use dust cap to keep the hydraulic system clean.
- DO NOT drop any heavy objects onto the hose and DO NOT twist the hose. Always keep the hose clean to avoid damage to the hose and couplers.
- Keep the equipment away from heat or fire, as this may cause damage or weaken the seals.
- DO NOT operate this equipment when you are tired and under the influence of alcohol, drugs or any intoxicating medication.
- DO NOT allow untrained persons to operate the equipment and DO NOT make any modifications to it.
- DO NOT expose the equipment to rain or any other kind of bad weather.
- Use a qualified person to maintain the equipment in good condition. Keep it clean for best and safest performance.
- If the equipment need repairing and/or there are any parts that need to be replaced, have it repaired by authorized technicians and only use the replacement parts supplied by the manufacturer.



WARNING:

No responsibility is accepted for incorrect use of this equipment. Incorrect use can result in damage to the equipment and danger to the user. Warranty will be void in the event of incorrect use. Hydraulic products are only repaired by Tundra Industrial authorised engineers. The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

2. SPECIFICATIONS

Model Number	TUNPORPOW04
Maximum Load:	4 Tonne
Minimum Height:	267mm
Maximum Height:	387mm
Weight (NW/GW):	16kg / 20kg

3. DESCRIPTION

Heavy gauge snap-together pipework and cast snap-together attachments compatible with most leading makes of snap-together equipment. Supplied with hand pump, hose, hydraulic ram and storage/carry-case.

4. OPERATING INSTRUCTIONS

NOTE: Please refer to parts diagrams to see parts indicated in brackets below:

- Connect the hydraulic ram, hose and pump unit together, ensure that you have securely fastened the couplers before pumping.

WARNING: inspect before each use. Do not use if bent, broken, leaking ,damaged components or any suspect parts are noted and / or it has been subjected to a shock load.

- Open the breather valve (P09).
- Firmly close the release valve (P15) by turning it clockwise.
- Adjust the ram slowly to make the load coaxial with the ram.

NOTE: The pump can be used in any position from horizontal to vertical. Always keep the hose end of the pump downward when it is not horizontal.

- Pump the handle (P39) up and down to supply pressure.
- When work is completed, slowly and carefully turn the release valve counterclockwise (never more than one turn) to release the pressure until ram retracts to the desired position.
- Close the breather valve

5. MAINTENANCE

- When not in use, store this equipment in a dry location with the pump piston (P34) and the ram fully retracted.
- Periodically check the ram and pump piston for signs of rust or corrosion. Clean exposed areas with a clean oiled cloth.

WARNING: Never use sandpaper or abrasive material on these surfaces.

- A coating of light lubricating oil to pivot points , axles and hinges will help to prevent rust and assure that pump assemblies move freely.
- Periodically lubricate the pivot points ,axles and hinges with a light lubricating oil as needed.
- With ram fully lowed, set pump unit in its normal, level position. Remove the oil filler screw (P07) to check the hydraulic oil level. If it is not adequate, add high quality hydraulic jack oil as necessary.

WARNING: DO NOT use brake fluid or any other improper fluid and avoid mixing different types of oil when adding hydraulic oil.

- To ensure best performance and longer equipment life, replace the hydraulic oil at least once a year. With ram fully lowered, remove the oil filler screw (P07). This equipment requires 350ml to completely change the oil reserve.

NOTE: Dispose of hydraulic oil in accordance with local regulations.

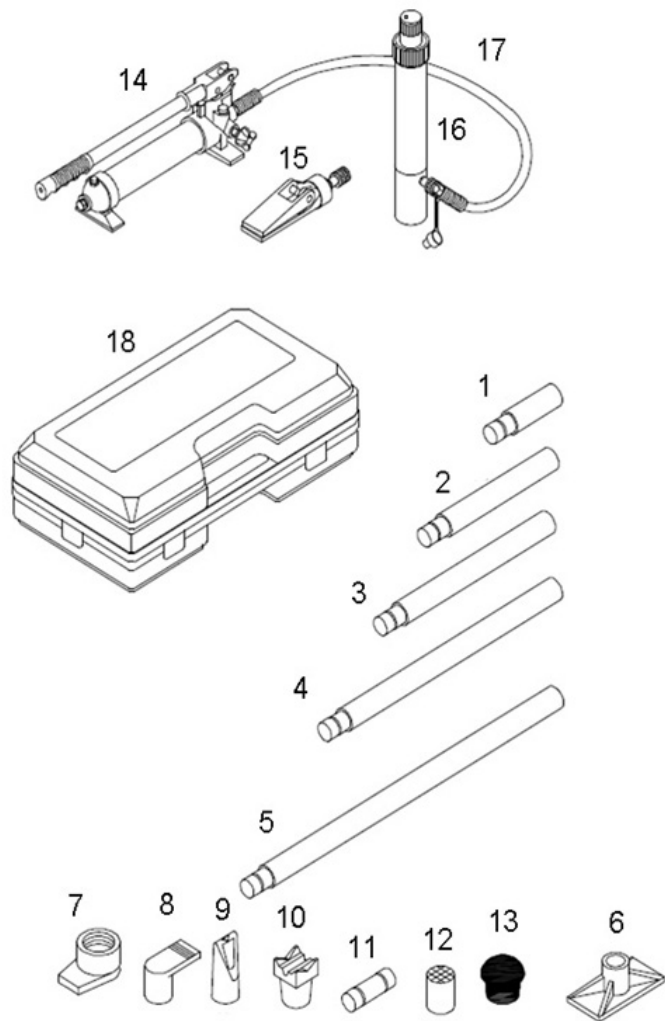
- When equipment efficiency drops, purge away air from hydraulic system :Turn the release valve counterclockwise by 1-1/2 turns, with ram fully retracted and release valve open, pump the handle rapidly for 10-20 times.
- It is recommended that an annual inspection is carried out by a qualified technician to help to ensure continual safe operation.

6. TROUBLESHOOTING

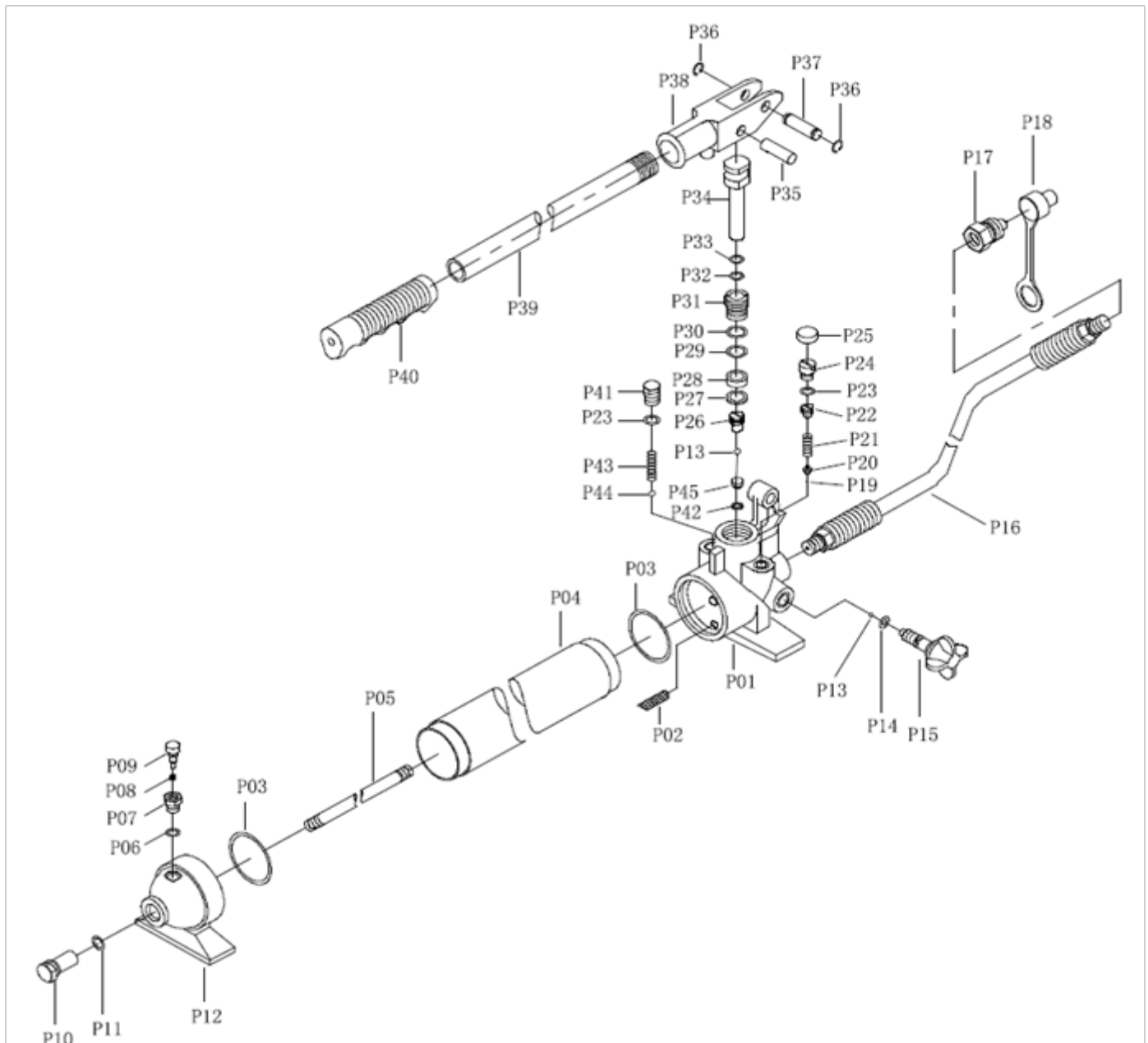
Symptom	Possible Causes	Corrective Action
Ram will not lift load	Release valve not tightly closed Overload condition Air trapped in system	Firmly close release valve remedy overload condition Purge away air from system
Ram will not maintain load	Release valve not tightly closed Hydraulic unit malfunction	Firmly close release valve Replace ram and/or pump
Ram will not lower after unloading	Reservoir overfilled Linkages binding	Drain oil to proper level Clean lubricate moving parts
Ram will not extend to full stroke	Oil level low	Add hydraulic oil
Poor performance	Oil level low Air trapped in system	Add hydraulic oil Purge away air from system

6. PARTS LIST & EXPLODED PARTS DIAGRAM (OVERALL KIT)

No.	Description	Qty
01	Extention Tube 1	1
02	Extention Tube 2	1
03	Extention Tube 3	1
04	Extention Tube 4	1
05	Extention Tube 5	1
06	Base	1
07	Ram Toe	1
08	Plunger Toe	1
09	Wedge Head	1
10	V-Base	1
11	Adapters	1
12	Serrated Saddle	1
13	Rubber Head	1
14	Pump	1
15	Spreader	1
16	Ram	1
17	Hose	1
18	Poly Case	1
19	Caster Ass'y	2



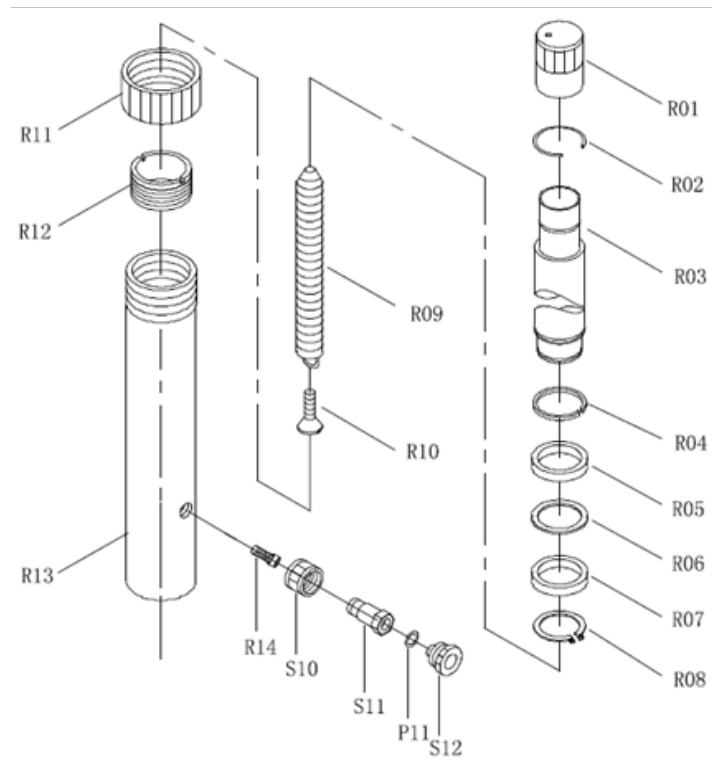
7. PARTS LIST & EXPLODED PARTS DIAGRAM (PUMP)



No.	Description	Qty	Description	No.	Qty
P01	Pump	1	P25	Cap	1
P02	Filter	1	P26	Valve Cover	1
P03	O Ring	2	P27	Nylon Washer	1
P04	Oil Container	1	P28	U Ring	1
P05	Rod Bar	1	P29	O Ring	1
P06	Nylon Washer	1	P30	Nylon Washer	1
P07	Filling Screw	1	P31	Base for Pump Core	1
P08	Circle	1	P32	O Ring	1
P09	Breath Screw	1	P33	Nylon Washer	1
P10	Bar Screw	1	P34	Pump Core	1
P11	O Ring	1	P35	Pin	1
P12	End Base	1	P36	Clip	2
P13	Steel Ball	2	P37	Handle Pin	1
P14	O Ring	1	P38	Handle Base	1
P15	Release Valve	1	P39	Handle	1
P16	Hydraulic Hose 1.5m	1	P40	Handle Cover	1
P17	Hose Connector	1	P41	Bolt	1
P18	Dust Cap	1	P42	Nylon Washer	1
P19	Steel Ball	1	P43	Spring	1
P20	Steel Ball Base	1	P44	Steel Ball	1
P21	Spring	1	P45	Valve Base	1
P22	Screw	1			
P23	O Ring	2			
P24	Screw	1			

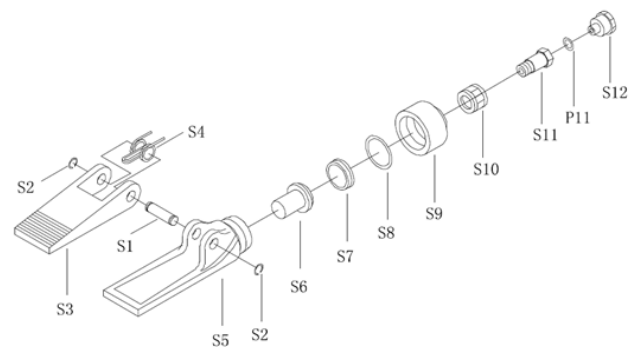
8. PARTS LIST & EXPLODED PARTS DIAGRAM (RAM)

No.	Description	Qty
R01	Protect Bushing	1
R02	Clip	1
R03	Piston Rod	1
R04	Limit Circle	1
R05	Washer	1
R06	PTFE Washer	1
R07	U Ring	1
	Clip	1
R9	Spring	1
R10	Screw	1
R11	Protect Bushing	1
R12	Limit Circle	1
R13	Ram	1
R14	Screw	1
S10	Nut	1
S12	Connector	1
P11	O Ring	1
S12	Dust Cap	1
19	Caster Ass'y	2



9. PARTS LIST & EXPLODED PARTS DIAGRAM (SPREADER)

No.	Description	Qty	No.	Description	Qty
S1	Pin	1	S10	Connect Nut	1
S2	Clip	2	S11	Ram Connector	1
S3	Spreader Mouth	1	P11	O Ring	1
S4	Spring	1	S12	Dust Cap	1
S5	Fixed Mouth	1	R14	Screw	1
S6	Small Piston	1	S10	Nut	1
S7	Piston Ring	1	S12	Connector	1
S8	O Ring	1	P11	O Ring	1
S9	Top Cap	1	S12	Dust Cap	1



EC DECLARATION OF CONFORMITY

We, Tundra Industrial, as the authorised European Community representative of the manufacturer, declare that the following equipment conforms to the requirements of the following Directives:

BS EN 1494:2000+A1:2008

Mobile or movable jacks and associated lifting equipment

2006/42/EC (as amended)

Machinery Directive

Equipment Category:	Hydraulic Platform Truck / Lifting Equipment
Product Name/Model:	TUNPORPOW04 - 4 Tonne Porta Power / Hydraulic Body Frame Repair Kit
Maximum Load:	4 Tonne
Signed by:	Stephen McIntyre
Position in the company:	Operations Director
Date:	11 March 2017
This technical document is held by:	Jimmy Hemphill



Technical file holder's address as shown below

Name and address of manufacturer or authorised representative:

Tundra Industrial,
Herons Way,
Chester Business Park,
Chester,
United Kingdom,
CH4 9QR

Telephone: +44 (0)1244 646 048
Fax: +44 (0)1244 241 1



USER MANUAL

TUNPORPOW04

LIMITED WARRANTY STATEMENT

Tundra Industrial warrants its customers that its products will be free of defects in workmanship or material.

Tundra Industrial shall, upon suitable notification, correct any defects, by repair or replacement, of any parts or components of this product that are determined by Tundra Industrial to be faulty or defective.

This warranty is void if the equipment has been subjected to improper installation, storage, alteration, abnormal operations, improper care, unauthorised service or repair.

Warranty Period

Tundra Industrial will assume both the parts and labour expense of correcting defects during the stated warranty periods below. All warranty periods start from the date of purchase from an authorised Tundra Industrial dealer. If proof of purchase is not available from the end user, then the date of purchase will be deemed to be 3 months after the initial sale to the distributor.

1 Year

- TUNPORPOW04 - 4 Tonne Porta Power / Hydraulic Body Frame Repair Kit

90 Days

- *All replacement parts purchased outside of the warranty period*

Important: All parts used in the repair or replacement of warranty covered equipment will be subject to a minimum of 90 days cover or the remaining duration of the warranty period from the original date of purchase.

Warranty Registration / Activation

You can register and activate your warranty by visiting the Jefferson Tools website using the following address: www.jeffersontools.com/warranty and completing the online form. Online warranty registration is recommended as it eliminates the need to provide proof of purchase should a warranty claim be necessary.

Warranty Repair

Should Tundra Industrial confirm the existence of any defect covered by this warranty the defect will be corrected by repair or replacement at an authorized Tundra Industrial dealer or repair centre.

Packaging & Freight Costs

The customer is responsible for the packaging of the equipment and making it ready for collection. Tundra Industrial will arrange collection and transportation of any equipment returned under warranty. Upon inspection of the equipment, if no defect can be found or the equipment is not covered under the terms of the Tundra Industrial warranty, the customer will be liable for any labour and return transportation costs incurred. These costs will be agreed with the customer before the equipment is returned.

Warranty Limitations

Tundra Industrial will not accept responsibility or liability for repairs made by unauthorised technicians or engineers. Tundra Industrial's liability under this warranty will not exceed the cost of correcting the defect of the Tundra Industrial products. Tundra Industrial will not be liable for incidental or consequential damages (such as loss of business or hire of substitute equipment etc..) caused by the defect or the time involved to correct the defect. This written warranty is the only express warranty provided by Tundra Industrial with respect to its products.

Any warranties of merchantability are limited to the duration of this limited warranty for the equipment involved. Tundra Industrial is not responsible for cable wear due to flexing and abrasion. The end user is responsible for routine inspection of cables for possible wear and to correct any issues prior to cable failure.

Claiming Warranty Coverage

The end user must contact Tundra Industrial (Tel: **+44 (0) 1244 646 048**) or their nearest authorised Tundra Industrial dealer where final determination of the warranty coverage can be ascertained.

Step 1 - Reporting the Defect

Online Method:

- Visit the website www.jeffersonstools.com/warranty and complete the Warranty Returns form. You can complete the form online and submit it to us directly or download the form to print out and return by post.

Telephone Method:

Contact your Tundra Industrial dealer or sales representative with the following information:

- Model number
- Serial number (usually located on the specification plate)
- Date of purchase

A Warranty Returns form will be sent to you for completion and return by post or fax, together with details of your nearest authorised Tundra Industrial repair centre. On receipt of this form Tundra Industrial will arrange to collect the equipment from you at the earliest convenience.

Step 2 - Returning the Equipment

It is the customer's responsibility to ensure that the equipment is appropriately and securely packaged for collection. Please ensure that you include a copy of your proof of purchase. Please note that Tundra Industrial cannot assume any responsibility for any damage incurred to equipment during transit. Any claims against a third party courier will be dealt with under the terms & conditions of their road haulage association directives.

Step 3 - Assessment and Repair

On receipt, the equipment will be assessed by an authorised Tundra Industrial engineer and it will be determined if the equipment is defective and in need of repair and any repairs needed are covered by the warranty policy. In order to qualify for warranty cover all equipment presented must have been used, serviced and maintained as instructed in the user manual.

Where repair is not covered by the warranty a quotation for repair, labour costs and return delivery will be sent to the customer (normally within 7 working days). **Note:** If the repair quotation is not accepted Tundra Industrial will invoice 1 hour labour time at £30 per hour plus return carriage costs (plus VAT).

In cases where no fault can be found with the equipment, or, if incorrect operation of the equipment is identified as the cause of the problem, a minimum of 1 hour labour at £30 per hour plus carriage costs will be required before the equipment will be despatched back to the customer.

Any equipment repaired or replaced under warranty will normally be ready for shipment back to the customer within 7 working days upon receipt of the equipment at an authorised Tundra Industrial Repair centre (subject to part availability). Where parts are not immediately available Tundra Industrial will contact you with a revised date for completion of the repair.

General Warranty Enquiries

For any further information relating to Tundra Industrial warranty cover please call **+44 (0) 1244 646 048**.

