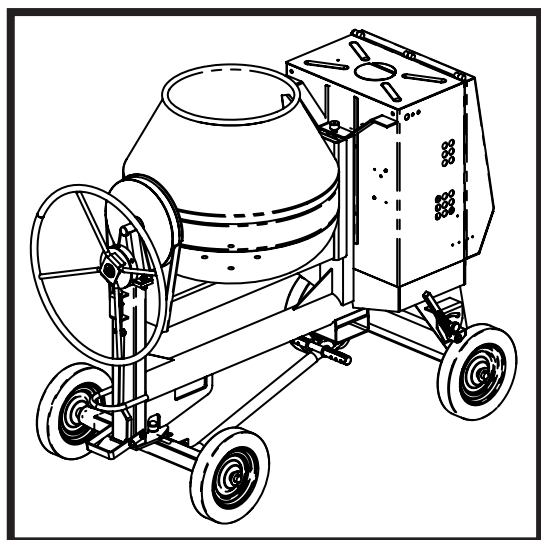




BELLE PREMIER XT

870/00002/10
02/22



ⒼⒷ Operators Manual

6

2

UKCA Declaration of Conformity

3 - 5

EC/EU Declaration of Conformity



ULTIMATE

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Declaration Of Conformity (DOC)

We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):



PRODUCT TYPE
MODEL.....
SERIAL No.....
DATE OF MANUFACTURE
SOUND POWER LEVEL
MEASURED /
.....(GUARANTEED)
WEIGHT.....



Object of the Declaration:

Professional, heavy-duty mobile site-mixer for mixing concrete and mortar.

The object of the declaration described above is in conformity with the relevant **Statutory Requirements**:

- **2008 No. 1597** Supply of Machinery (Safety) Regulations 2008
- **2001 No. 1701** Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001
- **2016 No. 1091** Electromagnetic Compatibility Regulations 2016

The following designated standards and technical specifications have been applied:

- **EN ISO 12100:2010** Safety of machinery
- **EN 61029-1:2009** Safety of transportable motor-operated electric tools.
- **ISO 3744:2010** Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure

Technical Files are held by **Ray Neilson** at the Altrad Belle address stated above:-

Place of Declaration:-

Sheen,
Nr. Buxton,
Derbyshire,
SK17 0EU,
UK

Date of Declaration:-

February 2022

Signed by:

Ray Neilson

Managing Director
On behalf of Altrad Belle
Sheen, Derbyshire, UK



EC Declaration Of Conformity (DOC)



We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):



PRODUCT TYPE

MODEL

SERIAL No.....

DATE OF MANUFACTURE

SOUND POWER LEVEL
MEASURED /
.....(GUARANTEED)

WEIGHT

Signed by:

Ray Neilson

Managing Director

On behalf of Altrad Belle, Sheen, Derbyshire, UK

Place of Declaration:-

Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK

Date of Declaration:-

February 2022

Object of the Declaration:

Professional, heavy-duty mobile site-mixer for mixing concrete and mortar.

The object of the declaration described above is in conformity with the relevant **Union Harmonisation Legislation**:

- **2006/42/EC** - New machinery directive

- **2000/14/EC** - Noise - equipment for use outdoors

The following harmonised standards and technical specifications have been applied:

- **EN ISO 12100:2010** Safety of machinery
- **EN 61029-1:2009** Safety of transportable motor-operated electric tools.
- **ISO 3744:2010** Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure

Technical Files are held by **Hugues Menager** at the following address:-

Altrad (Group Holding), 125 Rue du Mas Carbonnier, 34000, Montpellier, France.



EU Declaration Of Conformity (DOC)



We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):



PRODUCT TYPE

MODEL

SERIAL No.....

DATE OF MANUFACTURE

SOUND POWER LEVEL
MEASURED /
.....(GUARANTEED)

WEIGHT

Signed by:

Ray Neilson

Managing Director

On behalf of Altrad Belle, Sheen, Derbyshire, UK

Place of Declaration:-

Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK

Date of Declaration:-

February 2022

See information
on sticker above

Object of the Declaration:

Professional, heavy-duty mobile site-mixer for mixing concrete and mortar.

The object of the declaration described above is in conformity with the relevant **Union Harmonisation Legislation**:

- **2014/30/EU** - EMC Directive

The following harmonised standards and technical specifications have been applied:

- **EN ISO 12100:2010** Safety of machinery
- **EN 61029-1:2009** Safety of transportable motor-operated electric tools.
- **ISO 3744:2010** Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure

Technical Files are held by **Hugues Menager** at the following address:-

Altrad (Group Holding), 125 Rue du Mas Carbonnier, 34000, Montpellier, France.

F

Déclaration CE de conformité (DdC)

F

Nous, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** déclarons que la DdC est émise sous notre seule responsabilité et qu'elle appartient au(x) produit(s) suivants:



TYPE DE PRODUIT.....

MODÈLE

No DE SÉRIE

DATE DE FABRICATION.....

NIVEAU DE PUISSANCE
ACOUSTIQUE MESURÉ /
.....(GARANTI)

POIDS

Voir page 3
pour cette information

Signée par:

Ray Neilson

Directeur Général

Au nom de Altrad Belle, Sheen, Derbyshire, R.-U.

Lieu de la déclaration:-

Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK

Date de la déclaration:-

Février 2022

Objet de la déclaration:

Mélangeur de chantier mobile professionnel et robuste pour mélanger le béton et le mortier.

L'objet de la déclaration décrite ci-dessus est conforme à la **législation de l'Union européenne en matière d'harmonisation:**

- 2006/42/EC - Directive relative aux machines

- 2000/14/EC - Émissions sonores - matériels utilisés à l'extérieur

Les normes et les spécifications techniques harmonisées suivantes ont été appliquées:

- EN ISO 12100:2010

Sécurité des machines

- EN 61029-1:2009

La sécurité des outils électriques transportables à moteur.

- ISO 3744:2010

Acoustique - Détermination des niveaux de puissance acoustique et des niveaux d'énergie acoustique des sources de bruit à l'aide de la pression acoustique

Les dossiers techniques sont détenus par **Hugues Menager** à l'adresse suivante:-

Altrad (Group Holding), 125 Rue du Mas Carbonnier, 34000, Montpellier, France.

F

Déclaration UE de conformité (DdC)

F

Nous, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** déclarons que la DdC est émise sous notre seule responsabilité et qu'elle appartient au(x) produit(s) suivants:



TYPE DE PRODUIT.....

MODÈLE

No DE SÉRIE

DATE DE FABRICATION.....

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ACOUSTIQUE MESURÉ /
.....(GARANTI)

POIDS

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- 2014/30/EU - Directive CEM

Les normes et les spécifications techniques harmonisées suivantes ont été appliquées:

- EN ISO 12100:2010

Sécurité des machines

- EN 61029-1:2009

La sécurité des outils électriques transportables à moteur.

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Les dossiers techniques sont détenus par **Hugues Menager** à l'adresse suivante:-

Altrad (Group Holding), 125 Rue du Mas Carbonnier, 34000, Montpellier, France.

P

Declaração de Conformidade da CE (DOC)

P

Nós, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, declaramos que o DoC foi emitido sob a nossa exclusiva responsabilidade e pertence ao(s) seguinte(s) produto(s):



TIPO DE PRODUTO.....

MODELO.....

Nº SÉRIE.....

DATA DE FABRICO.....

NÍVEL DE POTÊNCIA SONORA

MEDIDAS /.....

..... (GARANTIDO)

PESO

**Veja a página 3
para esta informação**

Assinado por:

Ray Neilson**Diretor Executivo***Em representação da Altrad Belle, Sheen,**Derbyshire, Reino Unido***Local da Declaração:-***Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK***Data da Declaração:-***Fevereiro 2022***Objeto da Declaração:**

Misturador de obra móvel profissional de alta resistência para misturar concreto e argamassa.

O objeto da declaração acima descrita está em conformidade com a **Harmonização da Legislação Europeia** pertinente:- **2006/42/CE** - Nova diretiva sobre máquinas- **2000/14/CE** - Ruído - equipamento para utilização no exterior

Foram aplicadas as seguintes normas harmonizadas e especificações técnicas:

- **EN ISO 12100:2010**

Segurança de máquinas

- **EN 61029-1:2009**

Segurança de ferramentas elétricas motorizadas transportáveis.

- **ISO 3744:2010**

Acústica - Determinação dos níveis de potência sonora e energia sonora níveis de fontes de ruído usando pressão sonora

A documentação técnica é mantida por **Hugues Menager** no seguinte endereço:-**Altrad (Group Holding)**, 125 Rue du Mas Carbonnier, 34000, Montpellier, França.

P

Declaração de Conformidade da UE (DOC)

P

Nós, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB**, declaramos que o DoC foi emitido sob a nossa exclusiva responsabilidade e pertence ao(s) seguinte(s) produto(s):



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DATA DE FABRICO.....

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MEDIDAS /.....

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Misturador de obra móvel profissional de alta resistência para misturar concreto e argamassa.

O objeto da declaração acima descrita está em conformidade com a **Harmonização da Legislação Europeia** pertinente:- **2014/30/EU** - Diretiva CEM

Foram aplicadas as seguintes normas harmonizadas e especificações técnicas:

- **EN ISO 12100:2010**

Segurança de máquinas

- **EN 61029-1:2009**

Segurança de ferramentas elétricas motorizadas transportáveis.

- **ISO 3744:2010**

Acústica - Determinação dos níveis de potência sonora e energia sonora níveis de fontes de ruído usando pressão sonora

A documentação técnica é mantida por **Hugues Menager** no seguinte endereço:-**Altrad (Group Holding)**, 125 Rue du Mas Carbonnier, 34000, Montpellier, França.



Engine Warranty

The engines installed in the Altrad Belle Premier XT range of mixers carry a 12 month warranty. Any problems encountered with the engine, during the warranty period should be dealt with by the relevant approved engine dealer, nearest to yourself.

If you require the name of your nearest approved engine dealer, a full listing is available on request from Altrad Belle.

Serial Numbers

ATTENTION! Make a note of the serial numbers of your machine and always quote them in any communication with a Altrad Belle Dealer.

MACHINE SERIAL NUMBER

ENGINE / MOTOR SERIAL NUMBER



Introduction

Congratulations on the purchase of this quality concrete mixer from the Altrad Belle range.

This machine is manufactured to conform to the EEC directives currently in force and is issued with a declaration of conformity and therefore displays the CE mark, applicable in territories where they are enforced.

Read this manual carefully, observing all operating and safety instructions before, during and after using your machine. Maintain your machine in good working order.

When maintaining this machine only the manufacturer's original spare parts may be used. The user will lose any possible claims if replacement parts used are other than the makers original spare parts.

Retain this manual with your machine for future reference.

SAFETY AND ACCIDENT PROTECTION

Operating Instructions :

All persons who apply, assemble, operate, start, control, maintain or repair this machine must read and understand these operating instructions.

Owner Responsibility :

The owner must ensure that only qualified persons operate, maintain, or repair this machine.

Storage :

When not in use, store in a dry, locked place. Keep away from children.

Operation for the Intended Purpose :

Mixers are intended for the production of concrete, mortar and plaster. The mixer must be used for its intended purposes and is not suitable for the mixing of flammable or explosive substances. The mixers must not be used in an explosive atmosphere.

MAINTENANCE AND REPAIRS

Only authorised dealers should repair the mixer, and within the requirements of the CE mark (where applicable), where no deviation to the original specification must take place.



WARNING

Any maintenance and repairs carried out, to any of the electric motors components must be undertaken by a qualified electrician.

REPLACEMENT PARTS

Contact your nearest Altrad Belle dealer. When ordering replacement parts, please quote the product type, serial number & engine/ motor model. Detail the part required in conjunction with the parts list provided, indicating the Page Number, Item Number and quantity required.

	Page number
Engine Warranty	6
Introduction	6
Warning Symbols	7
Plug Wiring	7
Decals.....	8 - 9
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Altrad Belle reserves the right to change machine specification without prior notice or obligation.

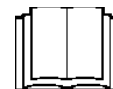
Warning Symbols



WEAR EAR PROTECTION



FIRE AND EXPLOSIVE RISK



READ OPERATOR
MANUAL



WEAR EYE PROTECTION



WEAR PROTECTIVE
FOOTWEAR



LIFTING POINT

WARNING - IMPORTANT

The Premier range of mixers are intended for industrial use, the following plug types are supplied fitted to the product:

110V motor - 32 amp rated BS4343 plug type.

230V motor - 16 amp rated BS4343 plug type.

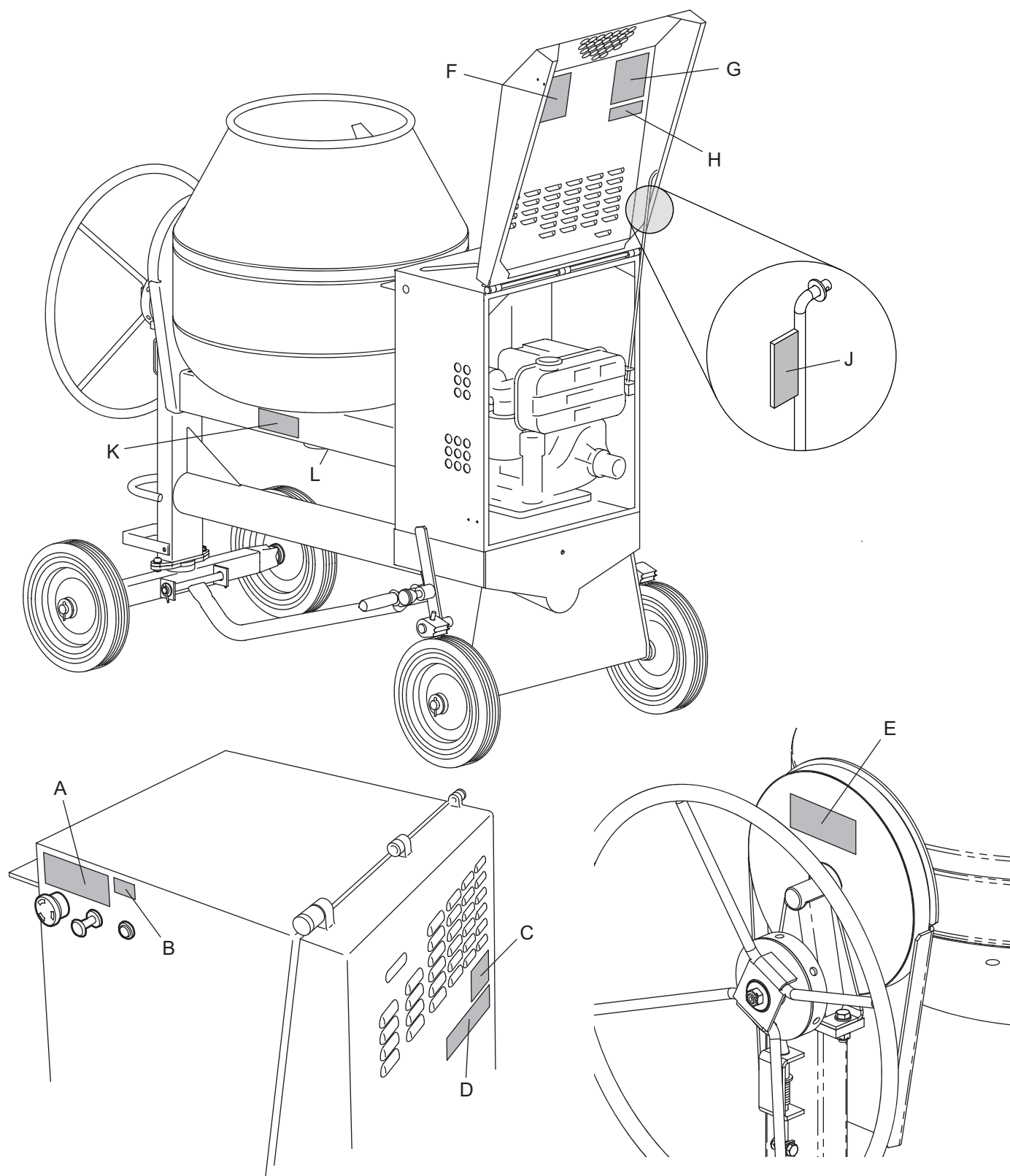
415V motor - 32 amp rated BS4343 plug type.

Fitting a plug - **WARNING THIS PRODUCT MUST BE EARTHED**

IMPORTANT: The wires in the mains lead are coloured in accordance with the following code:

GREEN / YELLOW = EARTH, BLUE = NEUTRAL, BROWN = LIVE

The wire which is coloured Green and Yellow must be connected to the terminal in the plug marked E or coloured Green and Yellow. The wire which is coloured Brown must be connected to the terminal in the plug marked L or coloured Red. The wire which is coloured Blue must be connected to the terminal in the plug marked N or coloured Black. Always ensure before connecting to the supply that the supply voltage is the same as the rated voltage marked on the motor.



- A. Emergency Stop Decal
- B. Ignition Warning Light Decal
- C. Noise Level Decal
- D. Safety Decal
- E. Transport Decal
- F. Engine / Motor Start Decal
- G. Engine / Motor Maintenance Decal
- H. Door Stay Safety Decal
- J. Door Stay Disengage Decal
- K. Danger Zone Decal
- L. Lifting Eye Decal

A. Emergency Stop Decal

Indicates the position of the Emergency Stop Decal which is used to stop the mixer in an emergency.

B. Ignition Warning Light Decal

The Light is illuminated when the ignition is in the ON position but the mechanical engine stop may be activated. A warning buzzer will also sound.

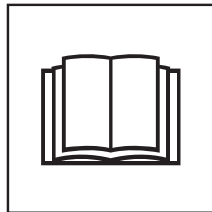
C. Noise Level Decal

Shows the Guaranteed Sound Power Level of the machine in dB(A).

D. Safety Decal



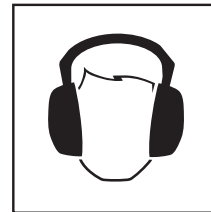
WARNING!



**Please Read
Operators Manual**



**Wear Protective
Footwear**



**Wear Ear
Protection**



**Wear Eye
Protection**

E. Transport Decal

Shows how to safely transport the mixer on a truck / flatbed.

NOTE:- The drum mouth **MUST** be facing upwards during transportation!

F. Engine / Motor Start Decal

Gives instructions on how to start-up the Engine / Motor.

G. Maintenance Decal

Shows the Maintenance and Checks schedule for both the Engine / Motor and mixer itself.

H. Door Stay Safety Decal

Gives instruction on safely engaging the Door Stay.

J. Door Stay Disengage Decal

Gives instructions on how to disengage the Door Stay.

K. Danger Zone Decal

Highlights a potential finger / body trap area which could cause injury.

L. Lifting Eye Decal

Shows the position of the Lifting Eye for use with a Sling or Mechanical Hoist.

READ THESE SAFETY INSTRUCTIONS

Please read and understand all running/safety instructions before operating this machine.

**CAUTION**

The appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction. Children should be supervised to ensure that they do not play with the appliance.

BEFORE STARTING THE MIXER

- Check that all guards are in position and correctly fitted.
- **DO NOT** wear loose clothing or jewellery that may become entangled in the workings of this machine. Suitable clothing as follows should meet relevant EEC/local safety standards: overalls, work boots, goggles, face mask, gloves and ear defenders etc.
- On electric powered mixers, ensure that any trailing cable is protected against damage and not liable to be tripped over or trapped underneath the mixer.
- **Altrad Belle strongly recommends the use of a Residual Current Device on 220-240v electrics.**
- Remove all packaging material before operating.

WHEN OPERATING THE MIXER

- Keep engine housing lid closed whilst it is mixing.
- Keep unauthorised persons away from mixing drum.
- Keep area around the mixer clear of obstructions which could cause persons to fall onto moving parts.
- Always ensure mixer is on level ground before mixing.
- Ensure rear wheel brakes are applied before operating the mixer.
- **DO** become familiar with the controls before operating this machine.
- **DO** ensure plenty of ventilation when running the diesel engines in a confined area.
- **DO** replace any worn/damaged warning decals.
- **DO** ensure the drum is rotating while emptying the mixer.
- **DO** always switch off and remove the plug from the socket if leaving the machine unattended.
- **DO NOT** transport this mixer when mixing.
- **BEWARE** of the danger zones.

EMERGENCY STOP

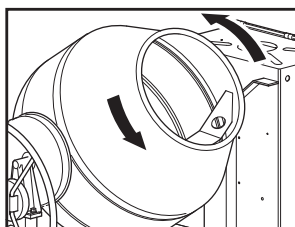
See Operating Instructions Section for details.

FIRE FIGHTING

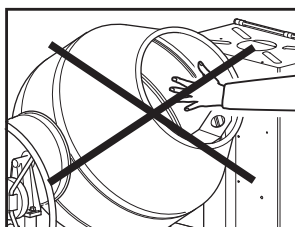
If your mixer catches fire, turn off the electric supply.

Using a dry powder or CO2 fire extinguisher put out the fire. If the fire can not be put out, keep away and call the fire brigade.

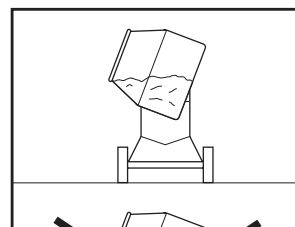
If you are in any doubt about the safety condition of your machine, please consult your nearest Altrad Belle dealer or Altrad Belle direct.



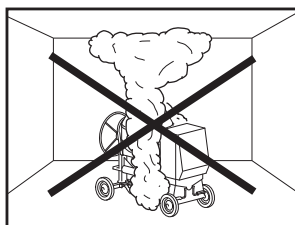
DRUM ROTATES ANTI-CLOCKWISE



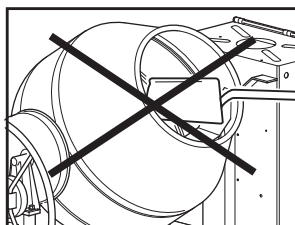
DO NOT PUT ANY PART OF YOUR BODY IN THE DRUM



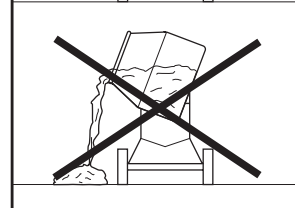
ALWAYS WORK WITHIN THE RATED CAPACITY



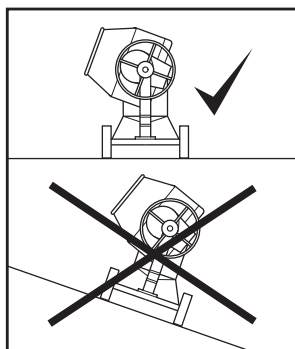
ALWAYS MIX IN WELL VENTILATED PLACES EXHAUST FUMES CAN KILL



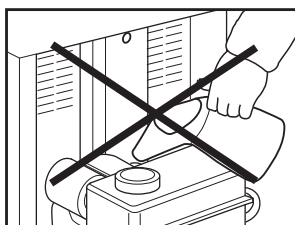
DO NOT PUT SHOVEL IN THE DRUM



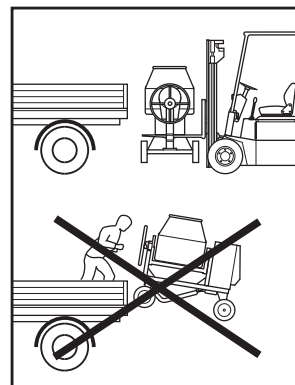
ALWAYS WORK WITHIN THE RATED CAPACITY



ALWAYS MIX ON LEVEL GROUND

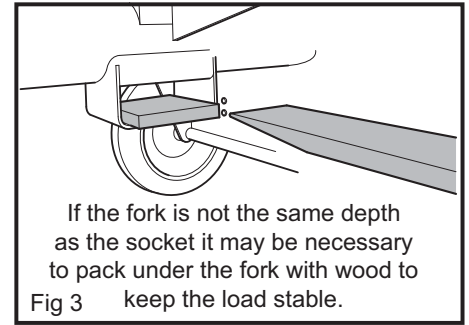
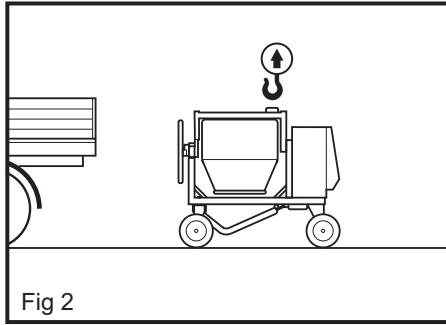
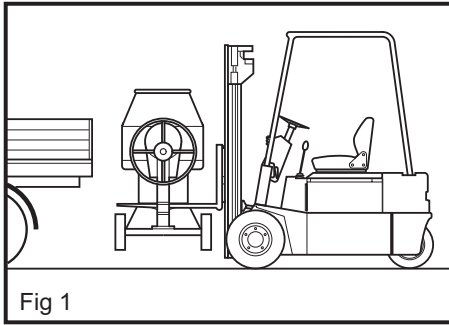


DO NOT FILL WITH FUEL OR LUBRICATION OILS WHILST ENGINE IS RUNNING



LOAD AND UNLOAD FROM THE TRANSPORT CORRECTLY
(See Transport Section in Manual)

Loading the Mixer onto a Vehicle



For normal site to site transporting, the usual method of loading into a pick-up truck or trailer should be used. There are 2 ways that the mixer can be loaded on to either of these vehicles:-

LOADING BY FORK LIFT

- A fork socket (Fig 3) is located beneath the main frame to enable the mixer to be loaded using a Forklift (Fig 1).
- **DO NOT** stand underneath the machine whilst it is being lifted.

LOADING BY CRANE

- To expose the lifting eye, turn the drum so it is facing down using the handwheel (Fig 2).
- **ENSURE** the lifting ropes are inspected to the current Health and Safety guidelines and are sufficient to carry the total weight of the mixer. See Technical Data. Ensure the lifting eye is correctly located prior to lifting the machine.
- **DO NOT** stand underneath the machine whilst it is being lifted.



CAUTION

Once the mixer has been loaded onto the vehicle, the drum **MUST** always be placed with the drum mouth facing **UPWARDS** for transportation purposes.

Transportation

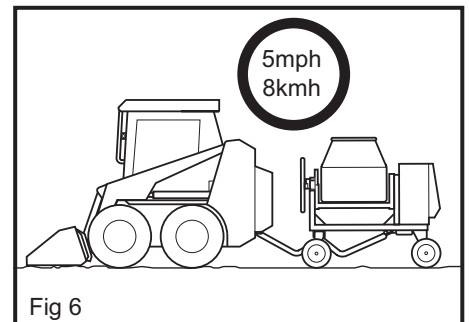
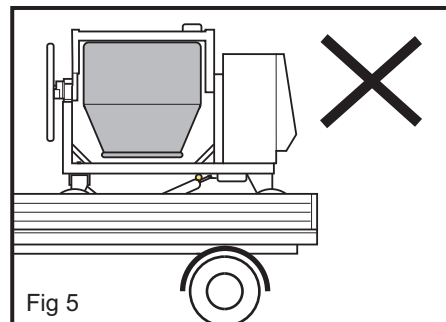
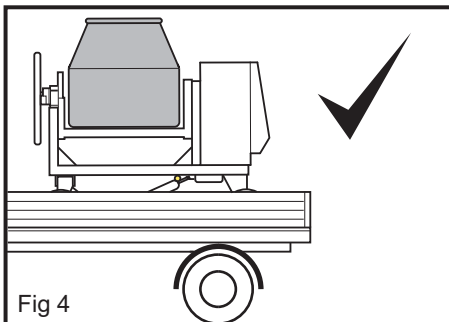


SITE TO SITE TRANSPORTATION

- The mixer must be loaded onto a suitable vehicle as shown in the 'Loading the Mixer onto a Vehicle' section.
- **ENSURE** the mixer is suitably strapped down and secured to the vehicle.
- The mixer **MUST** only be transported with the drum mouth facing **UPWARDS** (Fig. 4 & 5)

TOWING

- These mixers are designed to be towed on-site only maximum speed 5mph/8 kmh (Fig 6), for short periods of time.
- **DO NOT** tow on a public highway.

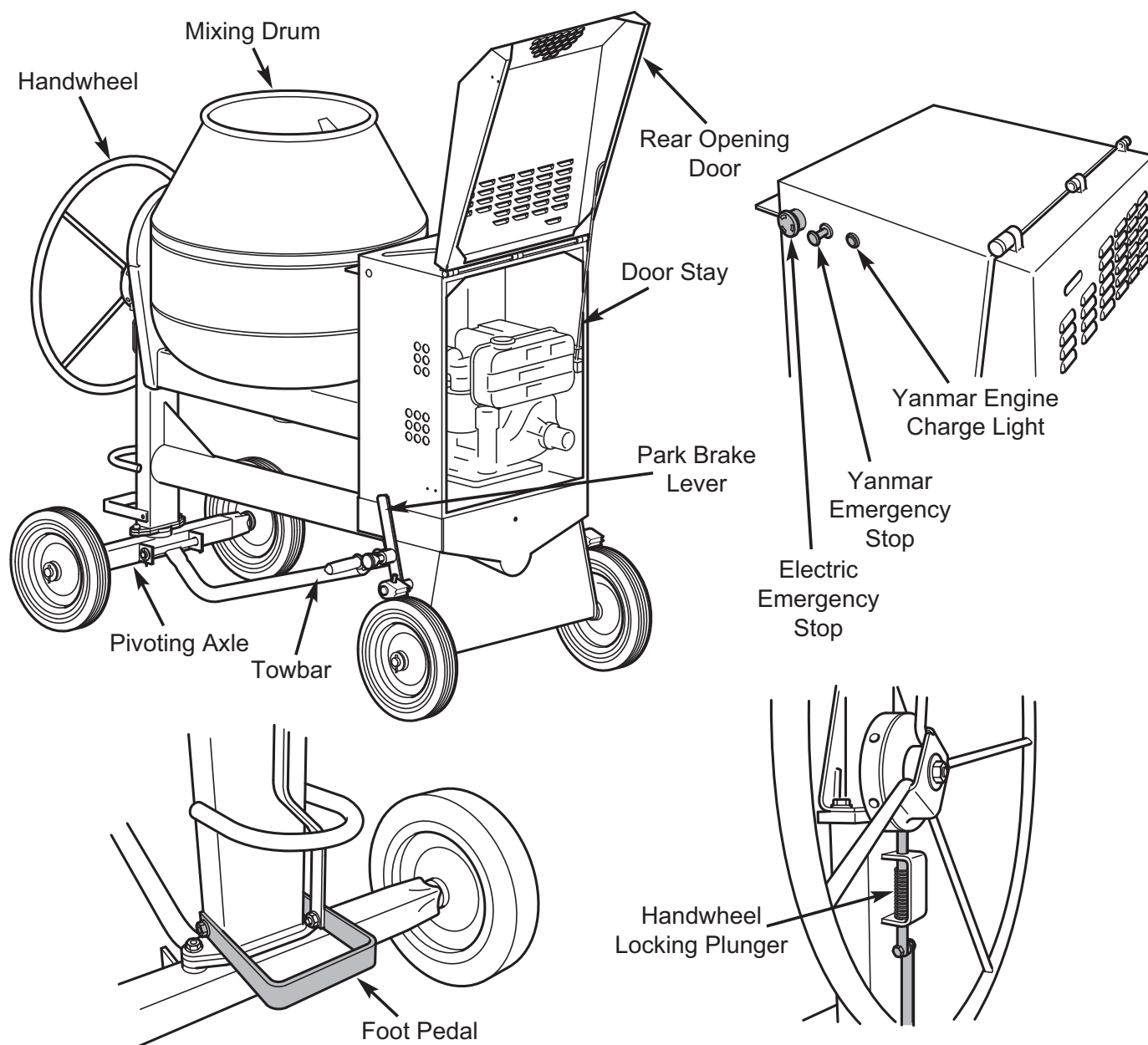
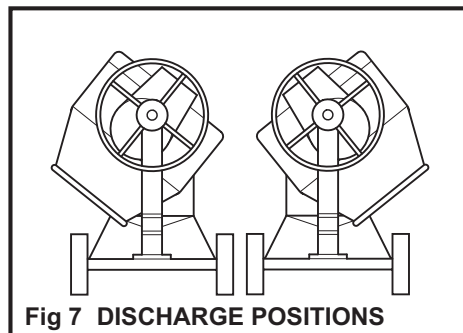
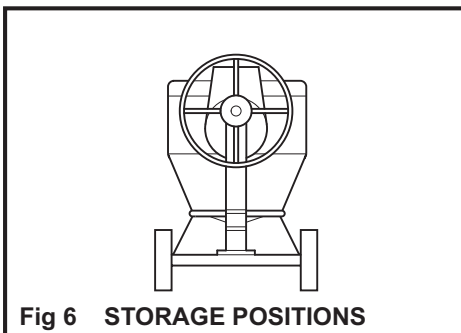
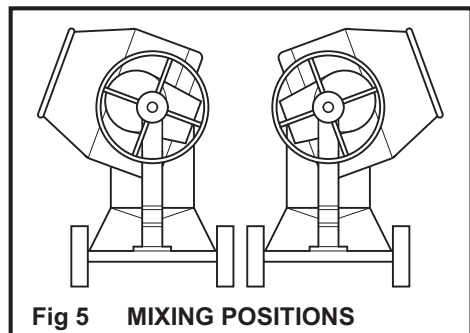


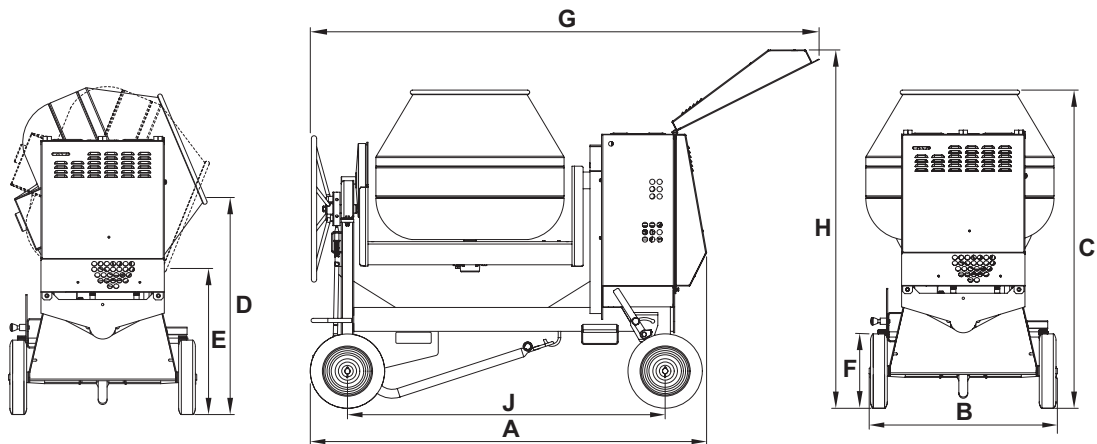
DRUM TILTING

The hand wheel gives an easy positive control of the drum which can be locked in the stored, mix, and discharge position.

The drum is locked in position by a self locating plunger which engages into the handwheel. To move the drum the locating plunger must be dis-engaged, this is done by pressing down on the footpedal (this is situated just above the pivoting front axle), the handwheel will now move freely allowing the re-positioning of the drum, to relock the drum in position, release the foot pedal and rotate the handwheel until the self-locating locking plunger engages into the handwheel ring.

- **DO NOT** put your hand through the hand wheel.
- **ALWAYS** keep both hands on the hand wheel.





	100XT	150XT	175XT	200XT
A - OVERALL LENGTH (MM)	1765	1765	1890	1890
B - OVERALL WIDTH (MM)	900	900	900	900
C - OVERALL HEIGHT (MM)	1475	1560	1520	1590
D - LOADING HEIGHT (MM)	1025	1065	1000	1050
E - DISCHARGE HEIGHT (MM)	710	656	650	615
F - DIAMETER OF WHEELS (MM)	350	350	350	350
G - OVERALL LENGTH - DOOR OPEN (MM)	2085	2085	2390	2390
H - OVERALL HEIGHT - DOOR OPEN (MM)	1950	1950	1950	1950
J - WHEEL BASE	1295	1295	1520	1520
CUBIC FEET IN/OUT	5/3.5	7/5	8/6	10/7
MIXED BATCH OUTPUT (LTR)	110	160	180	220
MAX DRUM CAPACITY (LTR)	250	300	350	400
MAX DRY MIX DRUM CAPACITY IN (LTR)	160	220	250	310
DRUM SPEED (RPM)	19	19	19	19

ELECTRIC RANGE	100XT	150XT	175XT	200XT	100XT	150XT	175XT	200XT	100XT	150XT	175XT	200XT
	305.5	314.5	322.5	325	303.5	312.5	320.5	323	305.5	314.5	322.5	325
UNLADEN WEIGHT (Kg)												
NOMINAL VOLTAGE (V)	110				240				415			
NOMINAL CURRENT (Amp)	13.7				6.6				3.6			
NOMINAL POWER	1.5											
VOLTAGE FREQUENCY (Hz)	50											
MOTOR RPM	1350				1430				1500			
MOTOR PROTECTION	Thermal / NVR											
POWER CONSUMPTION (Kwh)	1.5											
SOUND POWER LEVEL (LWA)	87dB(A)											
DIESEL RANGE	LISTER				YANMAR							
	100XT	150XT	175XT	200XT	100XT	150XT	175XT	200XT				
UNLADEN WEIGHT (Kg)	367	376	392.5	395	334.5	343.5	350.5	353.5				
ENGINE MODEL	LT1 (Build 32)		LT1 (Build 10)		L48							
NOMINAL POWER (KW)	0.75		1.9		2.3							
STARTING METHOD	Hand Crank				Electric / (Recoil Backup)							
FUEL CAPACITY	5				2.5							
SOUND POWER LEVEL (LWA)	99 dB(A)											

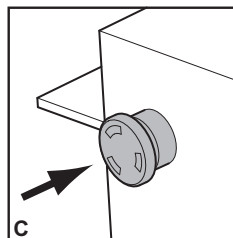
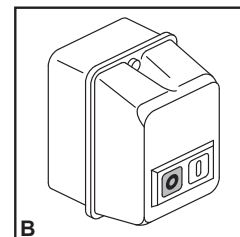
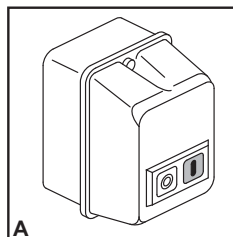
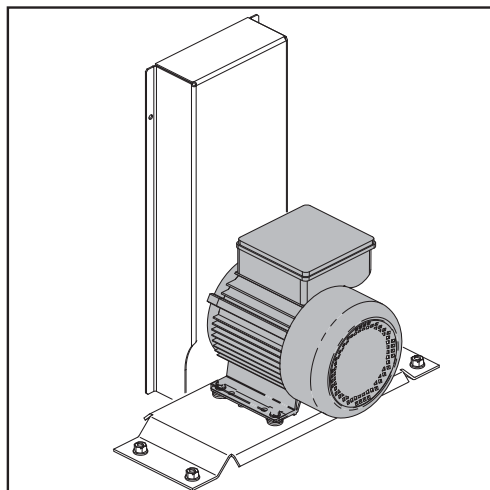
1. ELECTRIC MOTOR : VARIANTS

STOPPING

- 1.1 Depress RED Button (or on/off toggle switch if fitted to the Off position) to stop mixer (Fig B).

STARTING

- 1.2 Lift rear door.
- 1.3 Feed supply cable out through the rear of the mixer and plug into power supply.
- 1.4 Depress GREEN Button (or on/off toggle switch if fitted to the On position) to start mixer (Fig A).



- Ensure supply cable is safely stored before moving mixer.
- Keep rear door shut when mixer is running

EMERGENCY STOP

- 1.5 Depress large RED Button, situated on top left hand side of power unit housing (Fig C).

2. YANMAR (ELECTRIC START)

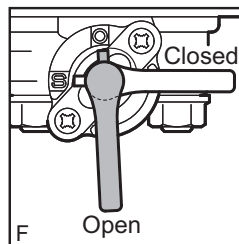
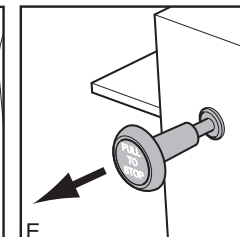
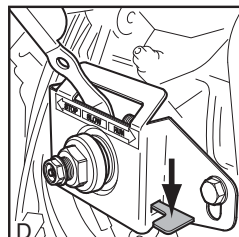
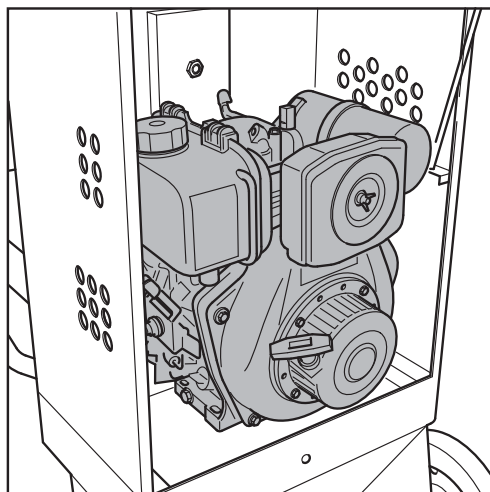
STOPPING

- 2.1 Press Red Lever (Fig D).
- 2.2 Turn Ignition Key Anti-Clockwise (Fig J)

- **Note:** Red indicator light glows when engine charging system fails.
- **Ensure that when machine is not in use that ignition is switched OFF, or battery failure may occur.**

EMERGENCY STOP

- 2.3 Pull the handle on the side of the power unit box to STOP the machine (Fig E).



COLD STARTING

- 2.4 Lift rear door.

- Open fuel cock if fitted (Fig F).

- 2.5 In cold starting situations the engine requires 2cc of engine oil (10w-30) to be applied using oil applicator. The oil should be inserted into the engine by removing the rubber plug on the priming port, ensure the plug is replaced (Fig G).

- 2.6 Ensure the Emergency Stop Button is pushed in (Fig H).

- 2.7 Set the engine speed lever (situated on the left hand side of engine) to the run position (Fig I).

- 2.8 Turn Ignition Key Clockwise until Engine turns over, release key when engine starts. If engine fails to start, repeat process of cold start.

- **Note:** Once an attempt to start the engine has failed, before re-trying the key must be turned back to the OFF position.
- **DO NOT operate with rear door open.**

WARM STARTING

- 2.8 Repeat process above from 2.5.

3. YANMAR (RECOIL START) Back Up to Electric Start

STOPPING

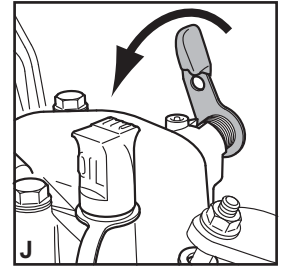
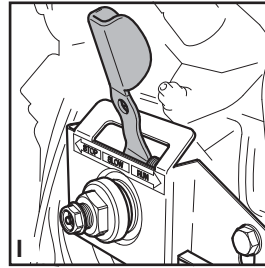
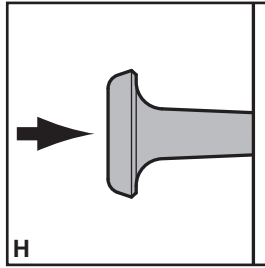
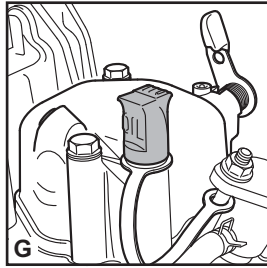
3.9 Press red lever (Fig D).

EMERGENCY STOP

3.10 Pull the handle on the side of the power unit box to STOP the machine (Fig E).

COLD STARTING

3.11 Lift rear door.



Open fuel cock if fitted (Fig F).

3.12 In cold starting situations the engine requires 2cc of engine oil (10w-30) to be applied using oil applicator. The oil should be inserted into the engine by removing the rubber plug on the priming port, ensure the plug is replaced (Fig G).

3.13 Ensure the Emergency Stop Button is pushed in (Fig H).

3.14 Set the engine speed lever (situated on the left hand side of engine) to the run position (Fig I).

3.15 Pull out the recoil starting handle to the point where you feel a strong resistance, then return back the install position. Push over the decompression lever (top right hand side of engine) this will return automatically when the recoil handle is pulled for the second time.

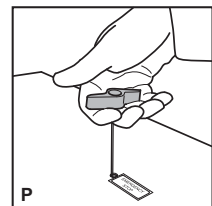
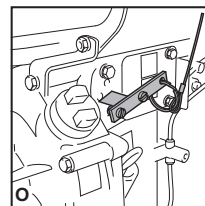
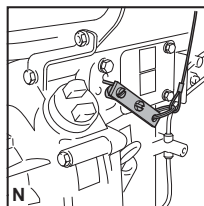
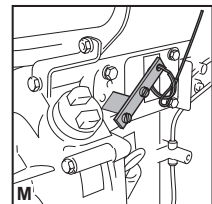
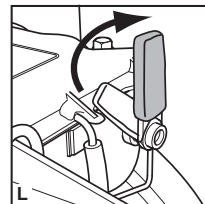
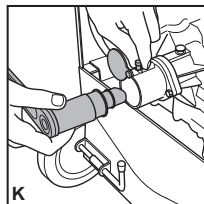
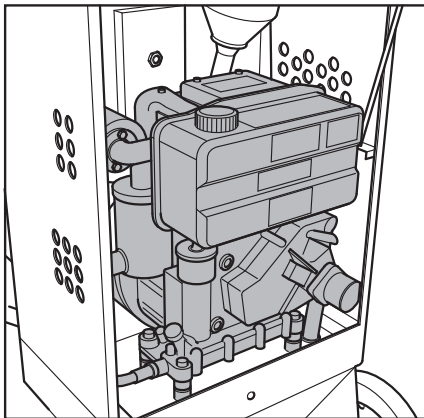
3.16 Apply both hands to the recoil starting handle and pull briskly, if engine does not start repeat from 3.15.

- **DO NOT** operate with rear door open.

WARM STARTING

3.17 Repeat process above from 3.14.

4. LISTER PETTER : CRANK HANDLE START



- Caution should be taken when starting unit, always use Anti-Kick Back Starting Handle.
- Ensure handle is correctly engaged in crank barrel (Fig K) before cranking engine.
- Ensure Oil & Fuel levels are checked daily before starting engine.
- Ensure rear door stay is correctly engaged before working in power unit area.
- Keep rear door closed when mixer is running.

4 STOPPING

4.1 Open rear door and move Start / Stop lever to the STOP position (Fig L).

COLD STARTING

4.2 Lift rear door.

4.3 Lift Safety Button up, locate Starting Handle in crank barrel and turn until handle engages (Fig K).

4.4 Engage Start / Stop lever into START position (Fig N).

4.5 Push decompression lever into vertical position and hold (Fig L).

4.6 Crank the engine as fast as possible and move the de-compressor lever into the running position whilst continuing to crank briskly until the engine starts.

4.7 Once the engine starts remove handle and place back in storage, then move Start/Stop lever into the RUN position (Fig O).

WARM STARTING

4.8 Follow the above instructions from 2.2 to 2.6, however start engine with the Start / Stop lever in the RUN position.

EMERGENCY STOP

4.9 Pull handle on top of power unit box (Fig P).



Maintenance Instructions

Before starting any maintenance or repairs, stop engine or switch off motor, and isolate from the main power supply. On completion of maintenance, check that the mixer functions correctly and that all guards are correctly fitted.

ELECTRIC MOTORS

All portable electric appliances are dangerous if abused. This machine will only operate on one voltage. Check the power supply to ensure it corresponds to the voltage as stamped on the motor. Make sure that the motor is switched off before you plug it into the power supply.

220-240v -Always use a Residual Current Device ("RCD"), (earth leakage trip), plugged directly into the 220-240v socket. If using an extension cable, plug it directly into the RCD.

110v -When using a portable transformer it must have a minimum output of 6.3kw and be continuously rated.

- **DO NOT** use an extension cable between the transformer and the power supply.

The symbols on the ON/OFF switch are 0=OFF and I=ON in accordance with international standards.



If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent. (See Wiring Diagram on Page 15.)

EXTENSION CABLES

If you need to use an extension cable it must be no longer than 30 metres (100 feet) in length. The wire section for 220-240v must be 2.5mm². The wire section for 110v must be 4mm² on 100XT and 6mm² on other models. Ensure that the extension cable is carefully laid out avoiding liquids, sharp edges and places where vehicles might run over it. Unroll it fully or it will overheat and could catch fire. Make sure that any extension cable connections are dry and safe.

COMBUSTION ENGINES

- **Be aware of exhaust venting directions.**

ENGINE OIL

The engine needs a regular oil check. Try not to run low on fuel as this may result in sediment from the bottom of the tank doing damage to the injector and pump. **Repairs and rectification of pipework and components affected by contaminants in fuel cannot be accepted as warranty, neither will faults caused or contributed to by the machine running out of fuel.** You may need to bleed the fuel system free of air before starting. Select the appropriate engine oil viscosity based on the ambient temperature and use the SAE Service Grade Viscosity Chart below. This machine is filled with SAE 10W-30 at the factory.

Engine Oil Specifications

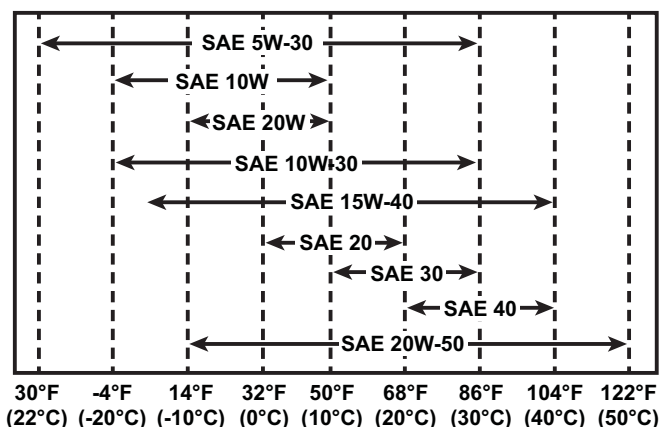
Use an engine oil that meets or exceeds the following guidelines and classifications:

Service Categories

- API Service Categories CD or higher.
- ACEA Service Categories E-3, E-4 and E-5
- JASO Service Category DH-1

Definitions

- API Classification (American Petroleum Institute)
- ACEA Classification (Association des Constructeurs Européens d'automobiles)
- JASO (Japanese Automobile Standards Organisation)



DRUM (Removal and Fitment)

This can be instantly removed by unscrewing it counter clockwise in the vertically up position. Lift the drum off the machine using a fork lift, with the forks under the base of the drum. When replacing make sure that the drum shaft is greased before it is fully screwed down on to the shoulder of the shaft, ensure the drum is fully screwed down on to the shoulder or damage will occur. Take care when screwing on the drum, spinning on fast may damage the gearbox.

CLEANING

Wipe off any external material. **DO NOT** use petrol, turpentine, lacquer or paint thinner, dry cleaning fluids or similar products. Never let any liquids near the engine/motor. Use 1" gravel and clean water to clean the inside of the drum.

- **DO NOT** use bricks etc. as this will damage the drum.

Maintenance Instructions



DRIVE BELT

- **DO NOT** try to adjust with the engine / motor running.
- **DO NOT** run slack.
- **DO NOT** operate machine with guards removed.

The drive belt is under constant even tension by a spring loaded jockey, this requires no attention. The bearings are sealed for life.

GEARBOX OIL

Note: The original gearbox oil is a synthetic oil and must not be mixed with a mineral oil.

Full gearbox fill 1.0 ltrs, check regularly.

The gearbox was originally filled with: Total :- Transmission W 75W/140 viscosity

Equivalent oils:

Shell :- Tivela SA, Tivela WA, Dentax W

Mobil :- Glygoyle 22

Texaco :- Synlube 90

Castrol :- WM or Alpha SN150

Esso :- GX 75W/140

Caltex :- Synthetic gear lubricant

LUBRICATION AND RUNNING

See Maintenance Schedule Section and Operating Instructions.

Remember that diesel engines vibrate more, so regularly check all nuts and bolts are tight.

Checks and Maintenance



To help assist engine running-in, all engines are despatched with an initial fill lubricating oil which must be changed after 100 hours.

All subsequent oil changes must be as specified below.

Lister-Petter 32 & 10 Engines

	Daily	Every 125 Hrs	Every 250 Hrs	Every 500 Hrs	Every 1000 Hrs	Every 2000 Hrs
Check the fuel & lubricating oil levels	✓					
Check for oil & fuel leaks	✓					
Clean, or replace, the air cleaner element under very dusty conditions	✓					
Check the condition of the battery, if fitted		✓				
Clean or replace the air cleaner element under moderately dusty conditions		✓				
Drain the sump and refill with new oil of the correct type and specification as given in engine handbook		✓	✓			
Clean or replace the injectors if the exhaust is dirty			✓			
Renew the fuel filter element if the fuel being used is not perfectly clean			✓			
Replace the air cleaner element				✓		
Examine exhaust & induction systems for leaks, damage or restrictions				✓		
Renew the fuel filter element				✓		
Check the battery charge winding system; refer to Workshop Manual				✓		
Check the valve clearances					✓	
Decarbonise if the engine performance has deteriorated					✓	
Clean the cylinder barrel and head fins					✓	
Clean the banjo union at the cylinder head end of oil feed pipe					✓	
Drain, flush and refill the fuel tank						✓

Mixer	Daily	50 Hours	250 Hours	500 Hours	1000 Hours
Grease Yoke Pivot		✓			
Grease Tipping Gear (10 Operations of Grease Gun)			✓		
Remove Drum and Grease Shaft			✓		
Check Nuts and Bolts	✓				
Check Gearbox Oil				✓	✓
Check Components for Leaks	✓				



Checks and Maintenance

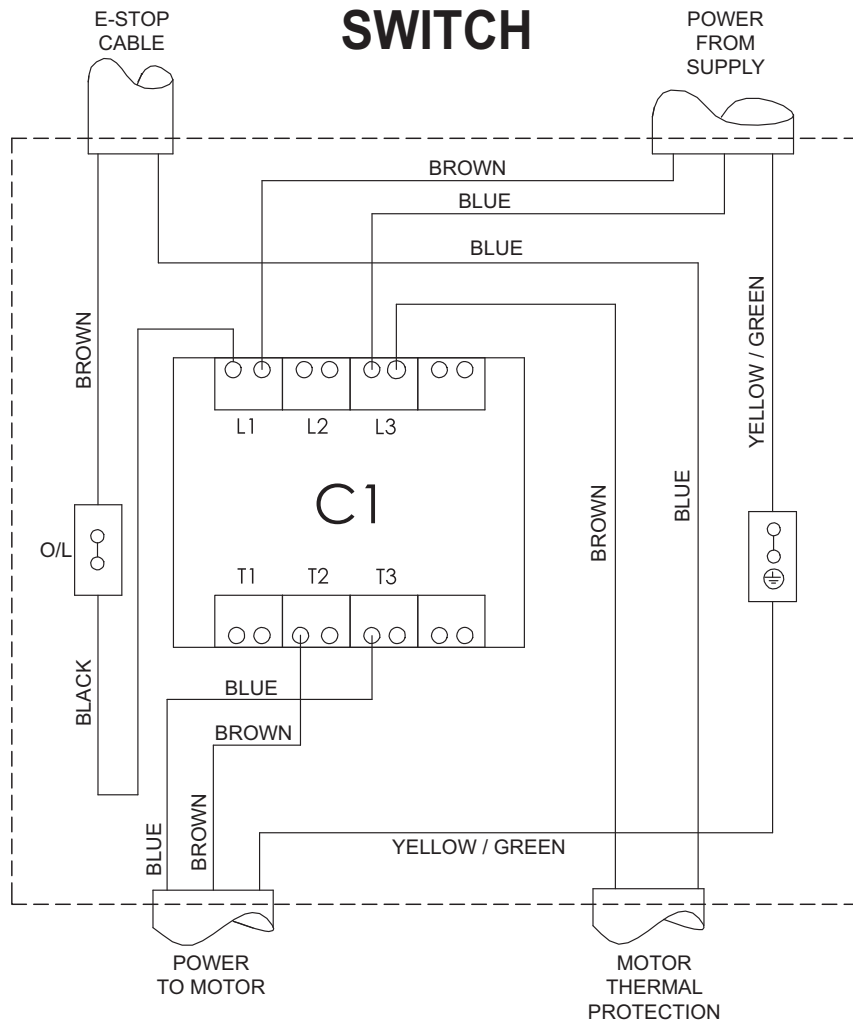
Items marked “✓✓” should be serviced by an authorized YANMAR dealer, unless the owner has proficient mechanical ability and the proper tools.

Parts with an asterisk mark “*” are related to the CARB ULG rules.

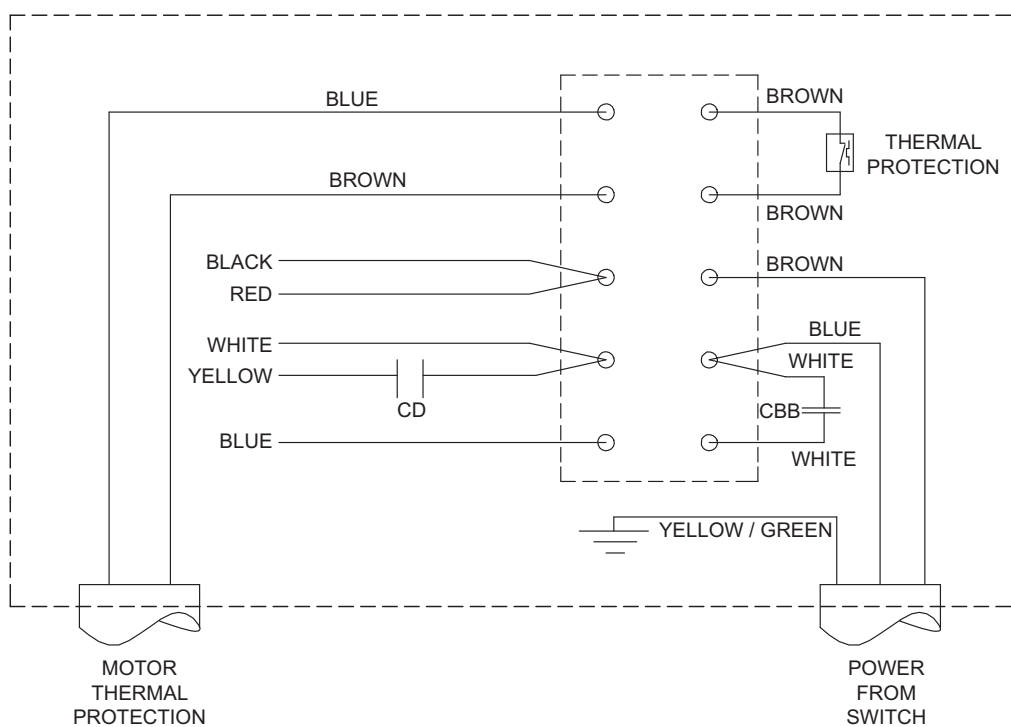
Yanmar L48 Engine → April '04

	Every month or Every 50 Hrs	Every 3 months or Every 200 Hrs	Every 6 months or Every 400 Hrs	Every year or Every 1000 Hrs
Check the fuel level and refill. - Before Operation				
Drain the fuel tank	✓			
* Clean the fuel filter		✓		
* Replace the fuel filter			✓	
Check for fuel / oil leakage - After Operation				
* Fuel injection nozzle, Check the injection condition			✓✓	
* Check the fuel injection timing			✓✓	
* Check the fuel injection pump				✓✓
Check the lube oil level in the oil pan and refill - Before Operation				
Replace the lube oil	1st time	2nd & after		
Clean lube oil filter	1st time		2nd & after	
Check for lube oil leakage - After Operation				
Check the valve clearances				✓
* Check the air cleaner element		✓		
* Replace the air cleaner element			✓	
Check the battery liquid level and refill - Before Operation				
Check the warning lamps - When Engine Is Started				
Adjusting the intake and exhaust valve clearance			✓✓	

Mixer	Daily	50 Hours	250 Hours	500 Hours	1000 Hours
Grease Yoke Pivot		✓			
Grease Tipping Gear (10 Operations of Grease Gun)			✓		
Remove Drum and Grease Shaft			✓		
Check Nuts and Bolts	✓				
Check Gearbox Oil				✓	✓
Check Components for Leaks	✓				



MOTOR





Mixing Hints

Mix Ratios

The correct mix ratio (cement:sand:stone) depends on the type of application; harder concrete requires more cement, rougher applications require more aggregate. The ratios given below are guidelines: best proportions may depend on the quality of sand/stone used.

First put in the water - around 7 litres (1½ gallons), using more or less depending on the type of mix required. Add some aggregate before adding cement, to avoid sticking. Work consistently to the ratio of ingredients for whatever type of concrete mix you are working to.

Getting A Good Mix

The approximate mixing time for concrete is 2-4 minutes from when all the material (including the water) has been added - over-mixing can reduce strength and cause segregation of the coarser aggregates.

Beware of low grade aggregates; these will only lead to trouble later on with sinking and frost spoiling the appearance of the pour. Also do not get the concrete mix too wet as this can reduce strength and make it less able to withstand weathering.

Looking After Your Mixer

Never throw material into the mixer - trickle it steadily over the rim or it will stick firmly to the back of the drum and can only be dislodged by stopping the mixer.

Keep your mixer clean - material left in the drum will harden, and attract more on each use until the mixer is useless.

Do not throw bricks into a mixer drum to clean it out. The best method is a mix of 1" (2½cm) gravel and clean water - use plenty of it, as this will do the job in half the time.

APPLICATIONS	QUANTITIES		
	CEMENT	SAND	STONE
MOST ORDINARY	1	2	4
FOUNDATIONS	1	3	6
ROUGH MASS CONCRETE	1	4	8
WATERTIGHT FLOORS,TANKS PITS ETC.	1	1.5	3

Warranty



Your new Altrad Belle Premier XT is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase. The Altrad Belle warranty is against defects in design, materials and workmanship.

The following are not covered under the Altrad Belle 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 Altrad Belle or their recognised agents.
3. Transportation or shipment costs to and from Altrad Belle 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

Altrad Belle 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 Altrad Belle, either by telephone, by Fax, by Email, or in writing.

For warranty claims:

Tel: +44 (0)1298 84606

Fax: +44 (0)1298 84073

Email: warranty.dept@altrad-belle.com

Write to:

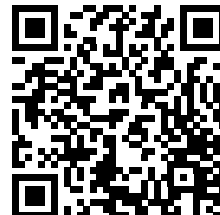
Altrad Belle Warranty Department,
Sheen,
Nr. Buxton,
Derbyshire,
SK17 0EU
England.

Warranty Registration:

In the bid for ALTRAD Belle to become greener and more eco friendly, we have now introduced online Warranty registration. To access the registration page of our website, please use the following address:-

http://www.bellegroup.com/index.php?p=warranty_registration

Alternatively, please scan the adjacent QR Code (Quick Response Code) using your smartphone to access the registration page.



Replacement Parts



When maintaining this product only the manufacturers original, genuine replacement parts may be used.

The user will lose any possible claims if replacement parts used are other than the makers original replacement parts.

Replacement parts for this product can be ordered online 24 hours a day, 7 days a week at www.Altrad-Belle247.com

For more information regarding the availability of replacement parts for this product, please contact Altrad Belle using the following contact details:-

Tel:- +44 (0)1298 84606

Fax:- +44 (0)1298 84073

Email:- sales@altrad-belle.com

Alternatively, please scan the adjacent QR Code (Quick Response Code) using your smartphone to access the Altrad Belle online parts portal.

