

# OPERATORS HANDBOOK

Supplement to Manual V603781March 2023 110V Electric Drive From Serial Number 100T-12194 150T-06183 175T-06183



WINGET LIMITED, P.O. Box 41, Edgefold Industrial Estate, Plodder Lane, Bolton, BL4 0LR, England Tel: +44 (0) 1204 854650 www.winget.co.uk parts@winget.co.uk

# INTRODUCTION

# CONTENTS

### Section

Page

### **INTRODUCTION**

Introduction	III
Warranty	IV
Safe Working	1.1
Decals	1.3
Lashing down & lifting points	1.6

### **OPERATION**

Installation	2.1
Electric motors	2.10

### SERVICING

OEIIIIIO	
Service schedule	3.1
Lubrication	3.2
Drum drive	3.2
Bolt torques	3.2

# Section

# Page

# **TECHNICAL INFORMATION**

4.1
4.1
4.1
4.1
4.1
4.1
4.2
4.3

### PARTS

Parts breakdowns of 110V Electric Drive components

# Π

# INTRODUCTION

# THE HANDBOOK SUPPLEMENT-110V MIXERS

The contents of this Handbook, although correct at the time of publication may be subject to alteration by the Manufactures without notice. Winget Limited operate a policy of continuous product development. Therefore, some illustrations or text within this publication may differ from your machine.



The operator must read all the Handbook and fully understand its contents before attempting to operate the machine.

THE HANDBOOK MUST NOT BE REMOVED FROM THE MACHINE.

The Handbook must be kept clean and in good condition. Additional copies of the Handbook can be obtained from your Distributor.

The contents of this Operator's Handbook are designed as a guide to the machine's controls, operation, working capacities and maintenance. It is *not* a training manual.

Only trained operators should use this machine. Contact the C.I.T.B. or equivalent body for advice on training.

In this Handbook are **WARNING** notes. They are preceded by this symbol:





WARNING These notes are used to indicate the procedure being described in the Handbook must be followed to avoid serious injury or death to yourself or to others; or damage to the machine.

The warnings are also used to protect the machine from unsafe servicing practices.

Pay particular attention to the warnings given in the Handbook.

If you have any doubts about any aspect of the machine's capability or servicing procedures, you must consult the manufacturer.

# WARRANTY TERMS & CONDITIONS

The Manufacturer assures you that if any part of the machine becomes defective due to faulty manufacture or materials within 12 months from the date of purchase, the part will be repaired or replaced under warranty free of charge by any authorised Winget Distributor. Warranty repairs *must* be carried out by Winget Distributors.

This Warranty is given to the first owner and may be transferred to subsequent owners for the balance of the Warranty period.

The Manufacturer's liability only extends to the costs of repair or replacement of the faulty parts and necessary labour charges involved in the repairs. The Company accepts no liability for any consequential loss, damage or injury, resulting directly or indirectly from any defect in the goods.

Items not covered by Warranty and considered to be the customer's responsibility include normal maintenance services; replacement of service items and consumables; replacement required due to abuse, accident, misuse or improper operation; replacement of wearable items e.g. drive belts, pins, bushes, brake linings, clutch linings etc.

The Warranty will not apply where the equipment is modified, converted, or used for purposes other than those for which it was designed, unless clearance for the modifications etc. have been granted by the Manufacturer, in writing.

The Pre-Delivery Inspection and Warranty Registration Document must be completed correctly and returned to the Manufacturer within 7 days of sale date. Failure to do so may result in the claim being subsequently rejected.

Tyres and tubes are not covered by Warranty, but are covered by the tyre manufacturer's own warranty system which provides against defects in material or workmanship. Engines are covered separately by the engine manufacturers, and engine warranty repairs must be handled by the relevant engine manufacturers' distributors.

No claim will be considered if other than genuine Winget Limited parts, which must be obtained from Winget Limited via an authorised Distributor, are used to effect a repair, or if lubricants other than those recommended by Winget Limited are used.

The equipment must be serviced in accordance with the service schedules laid down by Winget Limited. Evidence that these have been complied with may be required before Warranty Claims are reimbursed.

The Manufacturer's policy is one of continuous improvement. Winget Limited reserve the right to change specifications without notice. No responsibility will be accepted for discrepancies which may occur between specification of machines and the descriptions contained in publications.

# SAFE WORKING

Safety is the responsibility of the persons working with this machine. Think "safety" at all times. Read and remember the contents of this Handbook.

# MACHINE MODIFICATION



**WARNING** Any modifications to the machine will affect its working parameters and safety factors. Refer to the Manufacturers before fitting any non-standard equipment or parts.

> The manufacturers accept no responsibility for any modifications made after the machine has left the factory, unless previously agreed by the Manufacturers in writing. The Manufacturers will accept no liability for damage to property, personnel or the machine if failure is brought about due to such modifications, or fitment of spurious parts.

# OPERATION

WARNING Only trained operators should use this machine.



Always be aware of local and national regulations governing the use of the machine.

Always ensure that all guards are in position and correctly fitted.

*Electrically driven mixers:* Always ensure that the power supply has been correctly connected by a qualified electrician.

Electrical cables must be of a suitably armoured type. Ensure that they are protected from damage and not liable to cause a trip hazard or be driven over.

Do not connect to a household socket!

Use only with an RCD protected supply. Only connect via special feeding point (e.g. power distribution panel on building site with faultcurrent-breaker).

Only authorised persons should be allowed to operate the mixer, or be in the immediate area.

Never add lubricants to the mixer while it is running.

Never aim water from hoses and pressure washers directly at the electrical inlet, contactor or into the motor terminal box or fan area.

Keep the area around the machine clear of obstructions, which could cause persons to fall onto moving parts.

Keep the body and clothing clear of all moving and hot parts.

Always ensure that during operation the mixer is standing on stable and level ground and that the wheels are chocked or the handbrake is applied.

Keep the motor housing lid closed when the electric motor is running.

Never start or stop the mixer whilst the drum is loaded.

The towing speeds of *Fast Tow* mixers, when used on public highways, may be subject to local or national road traffic regulations.

# **SERVING & MAINTENANCE**

### WARNING



Never allow unqualified personnel to attempt to remove or replace any part of the machine, or anyone to remove large or heavy components without adequate lifting equipment.

Before maintenance work is begun, ensure that the electric motor is switched off, and isolated from the mains.

*Note:* Pressing the stop or emergency stop buttons on the mixer will not isolate the machine from the mains, disconnect the incoming power supply from the appliance inlet under the motor cover.

Always conform to service schedules except when an emergency calls for immediate action, or adverse conditions necessitate more frequent servicing.

Always report any defect at once, before an accident or consequential damage can occur.

On completion of maintenance, check that the machine functions correctly, and that all guards are correctly fitted.

**Disposal of waste oil or lubricants.** Dispose of waste oil into waste oil storage tanks. If storage tanks are not available, consult your Distributor or local authority for addresses of local designated disposal points. It is illegal

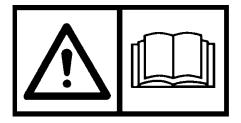
# SAFE WORKING

# DECALS

Ensure that all warning decals fitted to the mixer are legible. If any should become detached, they must be replaced immediately.

# Descriptions of the pictorial decals are as follows:

Read Operators Handbook, or Operators Handbook storage place.



These surfaces may be hot.



Beware of electrical hazards.



Keep hands clear of drum.



Keep clear of chain or belt drives.

Engine/Motor stop.



Attach lifting hooks to this eye



# Lashing down & Lifting points

# General

Care should be taken when lifting or transporting the mixer to ensure that lifting or retaining straps are in good condition and the following procedures must be followed when lifting or lashing down to avoid causing unnecessary damage.

It is recommended that chains or webbing slings are used to lift the mixer via the lifting point on the trunnion and that ratchet type webbing straps are used to lash the mixer down.

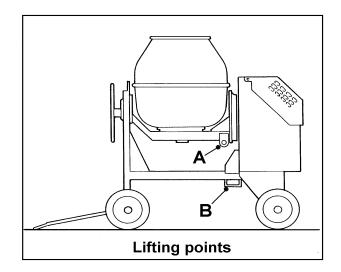
# Lifting the Mixer (Crane)

Turn the drum and trunnion through 180deg. and, using the locking pin in the tilting handwheel, lock the assembly in this position with the lifting eye 'A' uppermost. Attach suitable lifting equipment to the lifting eye and slowly take the weight. Do not 'snatch' the mixer otherwise damage may be caused to the lifting point, trunnion or lifting equipment. To prevent the drawbar swinging freely as the mixer clears the ground, rest the drawbar's 'T' handle on the mainframe below the upturned drum. If the mixer is on site and the wheels are immersed in dried concrete or mortar the wheels must be freed before attempts are made to lift the mixer. Be aware that the mixer will tend to swing as it clears the ground.

# Lifting the Mixer (Forklift/Telehandler)

Using the tilting handwheel locking plunger, lock the drum upright as illustrated overleaf. If the wheels are immersed in dried concrete or mortar, free them before attempting to lift the mixer.

Spread the fork tines and carefully position the forks below the mainframe so that one



tine enters and passes through the bracket 'B' below the mainframe, the other fork should be spread as wide as possible. Position the carriage as close as possible to the mixer and rest the mixer's drawbar on one of the fork tines to prevent it swinging freely.

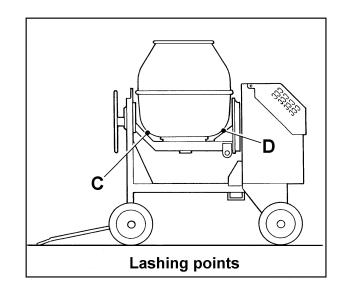
Slowly tilt the carriage back slightly to prevent the mixer rocking forward and raise the mixer just clear of the ground. Do not raise the mixer unnecessarily high, keep the height to the minimum required to clear any obstructions without unduly obstructing your forward vision. When travelling keep your speed to the minimum and when loading vehicles do not raise the mixer to the height of the bed until the mixer is close to the vehicle. Similarly when unloading vehicles lower the mixer just clear of the ground as soon as it clears the side of the vehicle.

# SAFE WORKING

### Lashing Down

It is recommended that unless the mixer is pulled up against a headboard or some form of substantial wheel chocks that two ratchet type webbing straps are used to retain the mixer, one pulling to the rear and one pulling to the front. The drum should be locked in the upright position shown above to keep the centre of gravity as low as possible.

Position the mixer on the vehicle bed and chock the rear wheels or apply the handbrake to prevent it rolling until lashed down. Turn the front axle so that the drawbar is below the mixer and not forming an obstruction on the vehicle bed. Lock the drum in the upright position. Pass one of the webbing straps between the drum and trunnion at point 'C' and secure the strap down to retaining hooks on the vehicle bed in front of the mixer. Pass the second strap between the drum and trunnion at point 'D' and secure the strap down to retaining hooks on the vehicle bed to the rear of the mixer. Tighten the straps by means of the ratchets until the mixer is securely held.



# INSTALLING THE MIXER ON SITE

Welded to the mixer are lifting points. These are provided to assist with loading unloading the mixer and for or transportation across site.

WARNING For mixer weights, see "Specifications"

Never carry mixers by their lifting points on public roads.

Do not tow four wheeled mixers across uneven ground.

The ground on which the mixer stands must be level and stable. Ensure that the wheels are chocked or the handbrake is applied.

Stop the motor and disconnect the electrical supply before attempting to move the mixer.

### Electrically driven mixers:

Always ensure that the power supply is correctly connected or disconnected to and from the appliance inlet using a suitable cable and plug which is in good condition without exposed wiring or damaged plugs.

Electrical cables must be of a suitably armoured type. Ensure that they are protected from damage and are not liable to cause a trip hazard or be run over.

Do not connect to a household socket!

Use only with an RCD protected supply. Only connect via special feeding point (e.g. power distribution panel on building site with fault-current- breaker).

If connecting via a transformer it's rating must be adequate to power the motor

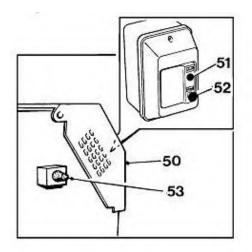
### **Electric motors**

### To start and stop:

Gain access to start button by raising the motor housing cover (50).

Start the motor by pressing the green button (51). Lower the motor cover (50).

To stop the motor, raise the cover (50) and press the red button (52). (Pressing button (53) located on the rear cover or closing plate will also stop it.)





WARNING In an EMERGENCY, press button (53) located on the rear panel to stop the motor.

WARNING Pressing buttons (52) or (53) will not isolate the mixer from the mains. The supply must be disconnected from the appliance inlet under the cover (50)

# SERVICING

### SERVICE SCHEDULE

# Every day

Links, shafts & hinges: Lubricate.

Every week (or 50 hours running) The above and following items

Nuts, bolts and keys.Tighten (Each week for first month):Drive belts:Check V belt tension .

Drum Bevel Gears: Lubricate with open gear fluid.

Every 125 hours. The above and following items

Motor: Clean fan and air inlet

Every 250 hours. The above and following items

Nuts, bolts & keys: Tighten.

# SERVICING

# SERVICING PROCEDURE

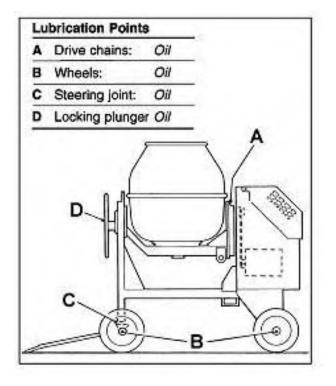
# Lubrication



WARNING It is essential that oils and grease used for servicing do not become contaminated with sand or cement dust.

### **Every day**

Apply a little engine oil to pins, joints and hinges, wheel shafts etc. to ensure that they move easily and are free from corrosion.



### Drum drives

### Every week (or 50 hours running)

### Drive chains:

Lubricate drive chains (A) with a little engine oil through the oiler on top of the trunnion journal.

# **Drum drive**

### Drive belts:





Check the tension of the belt and adjust if necessary. The belt should deflect no more than 2 to 3 mm using thumb pressure.

Never over-tighten the belt as this will put excessive strain on engine bearings causing vibration and wear.

## **Bolt torques**

### Every week for the first month, then every three months

Check the tightness of all bolts, nuts, and keys etc. Pay particular attention to motor mounting bolts.

# Lubricants

Mixers are factory filled with the following TOTAL oils or equivalents

Electric motor bearing (where fitted)	Multis EP 2
Drive chain	Rubia B 20W/30
Bevel gear & pinion	Open gear fluid
Drum shaft	Anti-seize compound
Grease nipples (where fitted)	Multis EP 2
Shafts, linkages and hinges	Rubia B 20W/30

### Noise levels of mixers.

Measured in accordance with EC Directive 2000/14/EC & UKSI 2001/1701 Models 100T, 150T and 175T

LWA 90	
LPA 71 @ 1m drum empty	

Drum speed	Handbrake
20-22 rpm	Tested to hold on a 5° & 10° slope with 600Kg of test weights applied

### Tyre pressures

|--|

## Mixer drum sealant

Silicone sealant	(part number V2000772)	
------------------	------------------------	--

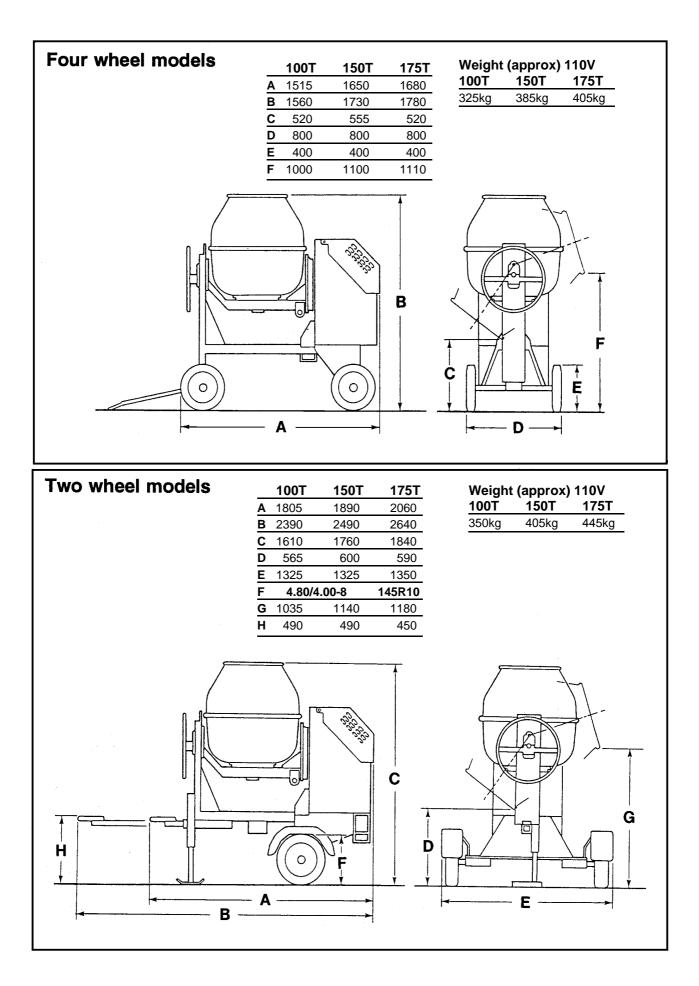
## Motors

	Electric motors		
	110v		
	@ 1420 rpm		
100T	1.5kW (2.0hp)		
150T	1.5kW (2.0hp)		
175T	1.5kW (2.0hp)		

# **IP** Rating

Minimum IP Rating IP55

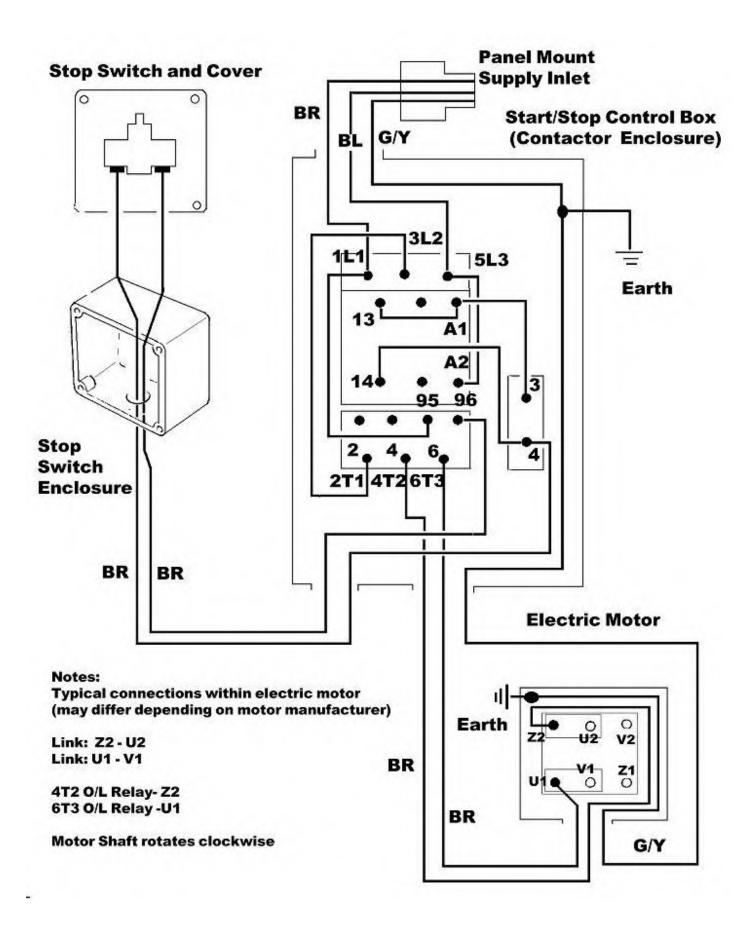
## DIMENSIONS



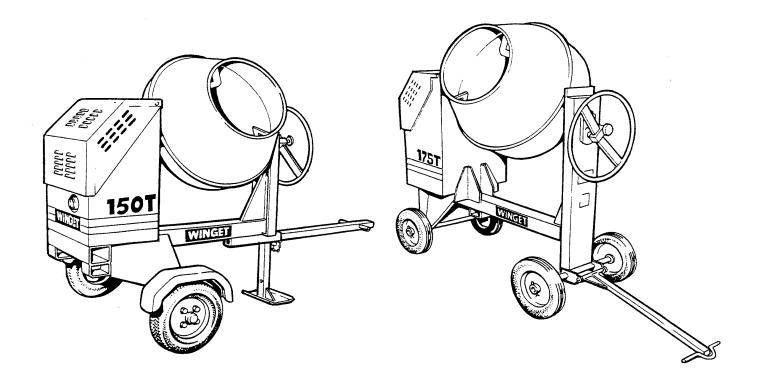
4.2

# **TECHNICAL INFORMATION**

**ELECTRICALLY DRIVEN MIXERS WIRING CIRCUIT-SCHNEIDER CONTACTOR** Electrical connections must only be made by a suitably qualified/competent person or electrician.



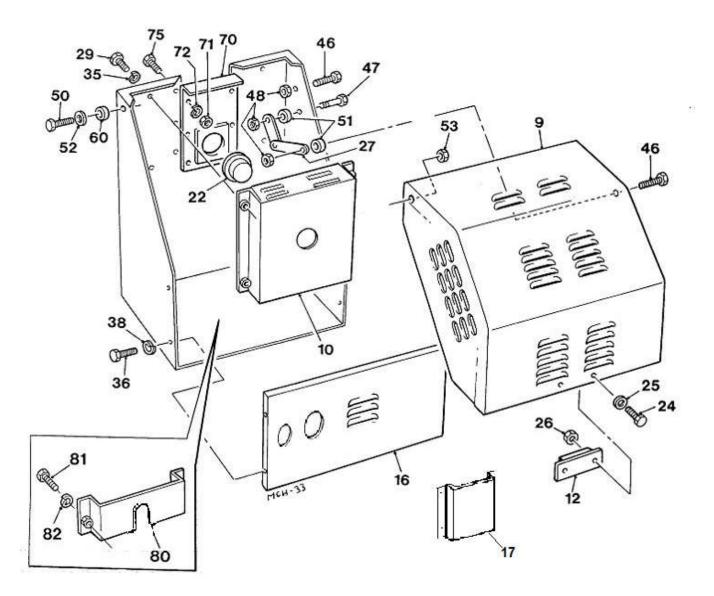
# **PARTS** 110V Mixers 100T 150T 175T



# Contents

COVERS & GUARDS (100T & 150T)	A - 1B
COVERS & GUARDS (175T)	A - 2B
ELECTRIC 110V DRIVE ASSEMBLY	C-2
START SWITCHES 110V ELECTRIC DRIVE	C-3
DECALS & PLATES	D - 1
SPECIAL TOOLS	D - 3

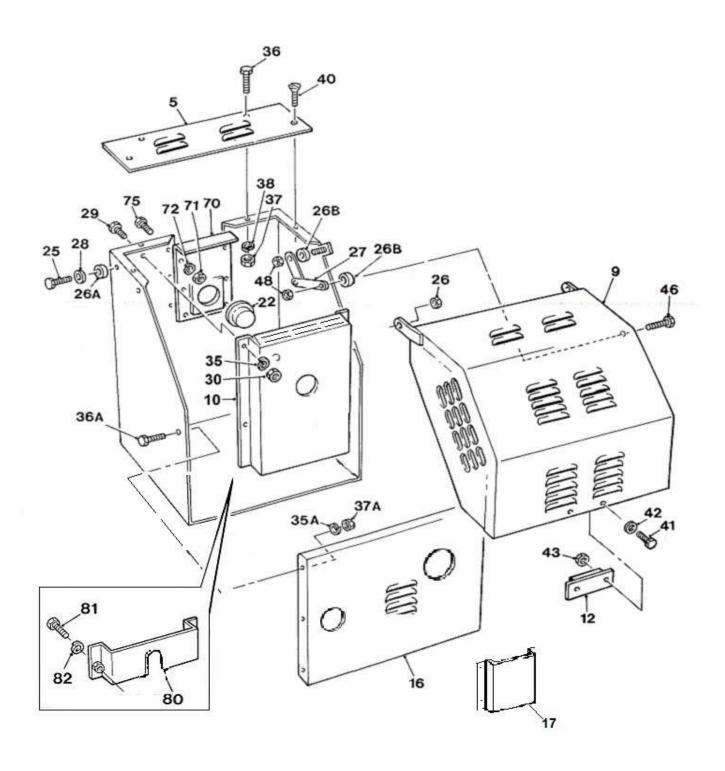
# A - 1B



# COVERS & GUARDS 110V MIXERS

A - 1B

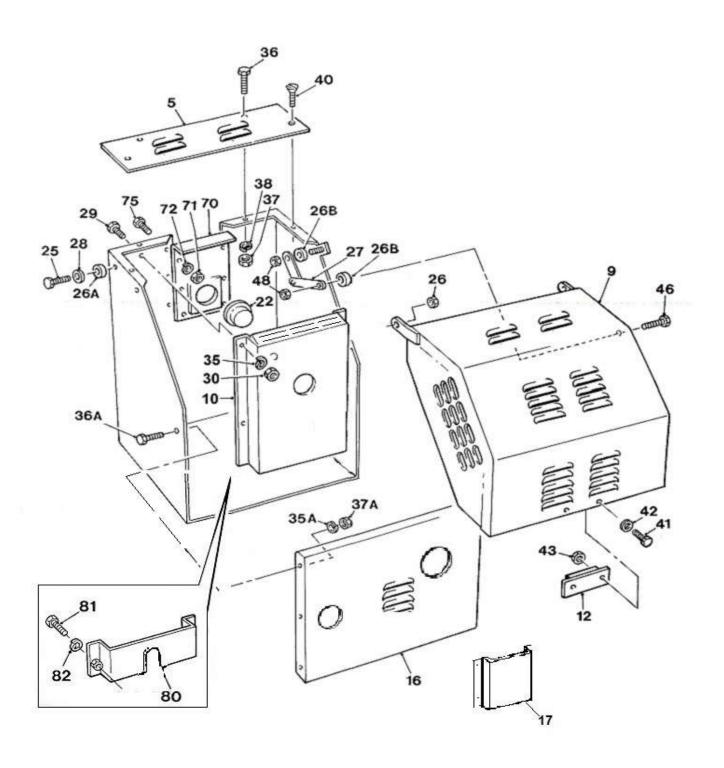
ltem	Part no	Serial no	Description	Qty
	513341300 513371800		LID, engine housing GUARD, belt,100T	1 1
10	513372400		GUARD, belt, 150T	1
12	513205300		STOP, rubber	1
16	513372000		PLATE, closing, <b>100T</b>	1
16	513272500		PLATE, closing, <b>150T</b>	1
	513372100 101S05B 241859000		BOX, document rivet on inside of item 16 RIVET, pop PLUG, polythene	5 1 4 1
24 25 26	11S02A 267S04 61S02		SCREW, set WASHER, flat NUT, Binx, self-locking	2 2 2
27	513287200		STAY, housing lid	1
29 35	11S02B 17S03		SCREW, set WASHER, spring	4 4
36 38	11S02B 17S03		SCREW, set WASHER, spring	4 4
46 47	11S03D 8S03E		SCREW, set BOLT	2 1
48	61S03		NUT, binx, self-locking	3
50 51	11S04E 513340800		SCREW, set SPACER	2 2
52 53	267S06 7S04		WASHER, flat NUT	4 2
60 70	555170000 513151800		SPACER BRACKET, trunnion	2 1
71	104S03	<b>100T</b> /12773 <b>150T</b> /06182	NUT, unc	6
71	7S04	12774/ <b>100T</b> 06183/ <b>150T</b>	NUT, metric	6
72	41S05	<b>100T</b> /12773 <b>150T</b> /06182	WASHER, spring, imperial	6
72	17S05	12774/ <b>100T</b> 06183/ <b>150T</b>	WASHER, spring, metric	6
75	66S03CC	<b>100T</b> /12773 <b>150T</b> /06182	SCREW, set, unc	6
75	11S04B	12774/ <b>100T</b> 06183/ <b>150T</b>	SCREW, set, metric	6
80 81 82	513371900 11S02A 17S03		GUARD, <b>100T &amp; 150T</b> SCREW, set WASHER, spring	6 2 2



# **COVERS & GUARDS**

A - 2B

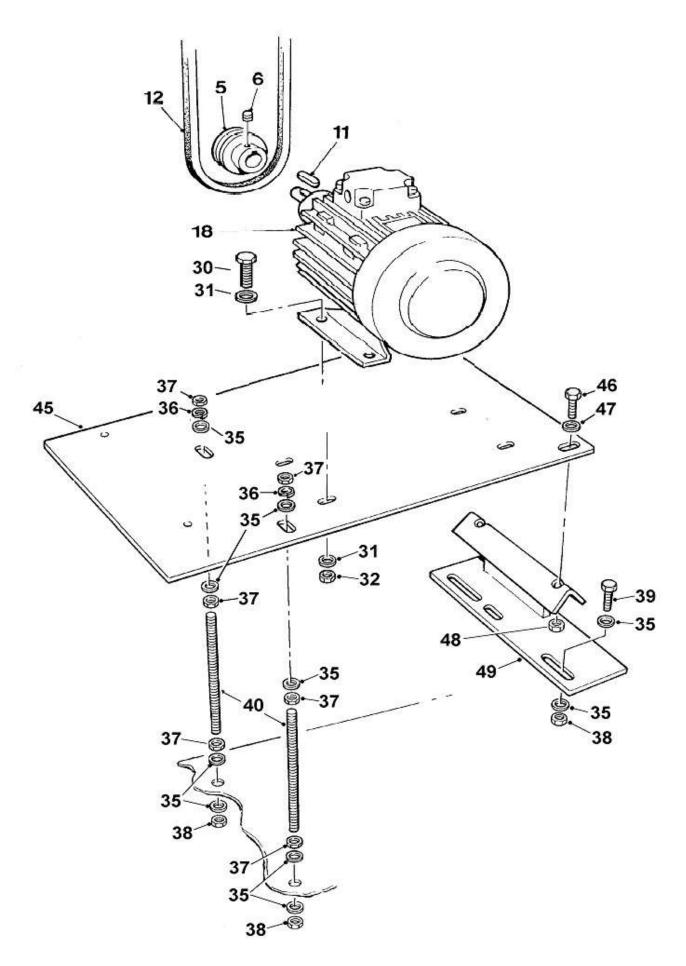
ltem	Part no	Serial	no	Description	Qty
5 9 10	513287000 513286800 513372300			TOP PLATE, engine housing LID, engine housing GUARD, belt, 110V 175T	1 1 1
12	513205300			STOP, rubber	1
16 17 17B	513372200 513372100 101S05B			PLATE, closing, 110V BOX, document, rivet on insde of item 16 RIVET, pop	1 { 1 4
22	241859000			PLUG, polythene	1
25 26	11S04E 7S04			SCREW, set NUT	2 2
26A 26B	555170000 513340800			SPACER SPACER	2 2
27 28	513287200 267S06			STAY, housing lid WASHER, flat	1 2
29	66S03CC		/06182	SCREW, set, unc	4
29	11S04B	06183/		SCREW, set, metric	4
30	104S03		/06182	NUT, unc	4
30	7S04	06183/		NUT, metric	4
35	41S05		/06182	WASHER, spring, imperial	4
35	17S05	06183/		WASHER, spring, metric	4
35A	41S05		/06182	WASHER, spring, imperial	6
35A	17S04	06183/		WASHER, spring, metric	6
36 36A	11S02A 66S03CC		/06182	SCREW, set SCREW, set, unc	2 6
36A	11S03A	06183/		SCREW, set, metric	6
37 37A	7S02 104S03		/06182	NUT NUT, unc	4 6
37A	7S03	06183/		NUT, metric	6
38 40	17S03 52S02C			WASHER, spring SCREW, c'sunk socket head	4 2
41 42 43	11S02A 267S04 61S02			SCREW,set WASHER, flat NUT, Binx, self-locking	2 2 2
46 48	8S03E 61S03			BOLT NUT, binx	1 2
70	513151800			BRACKET, trunnion	1
71	104S03		/06182	NUT, unc	6
71	7S04	06183/		NUT, metric	6



# **COVERS & GUARDS**

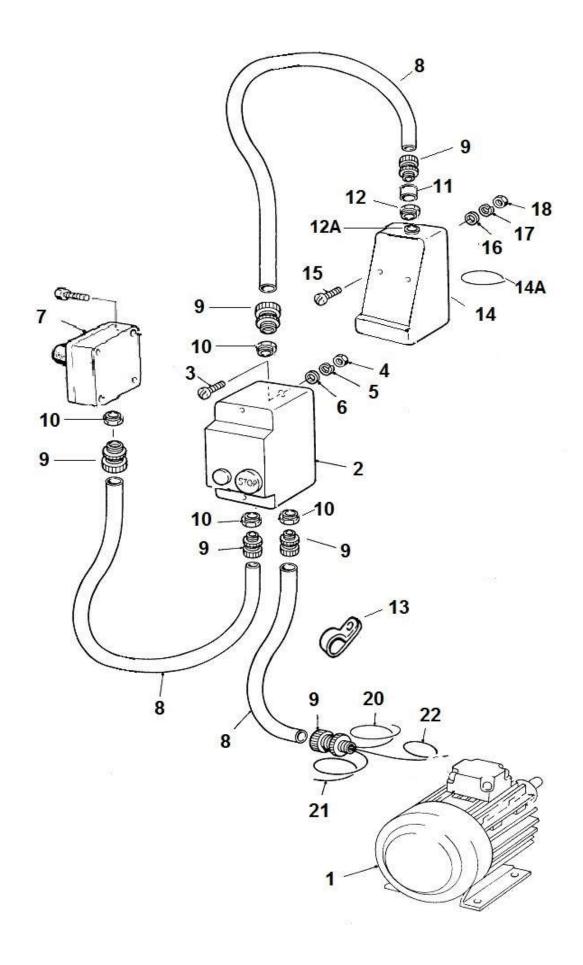
A - 2B

Item	Part no	Serial no	Description	Qty
72	41S05	/06182	WASHER, spring, imperial	6
72	17S05	06183/	WASHER, spring, metric	6
75	66S03CC	/06182	SCREW, set, unc	6
75	11S04B	06183/	SCREW, set, metric	6
80 81 82	513371900 11S02A 17S03		GUARD, belt lower SCREW, set WASHER, spring	1 2 2



# **ELECTRIC 110 volt drive assembly**

Item	Part no	Serial no	Description	Qty
6 11 12	513290600 57S4D2 397400800 397400900		PULLEY, 'V' belt SCREW, grub KEY, parallel, supplied with motor BELT "V" 100T BELT "V" 150T/175T	1 1 1 1
18	202493800		MOTOR, 110V 1.5Kw 2.0Hp	1
21 22	11S03D 267S05 17S04 7S03		SCREW, set WASHER, flat WASHER, spring NUT	1 2 2 2
31 32	8S03C 267S05 17S04 7S03		BOLT WASHER, flat WASHER, spring NUT	4 8 4 4
36 37 38 39	267S07 17S06 7S05 64S05 11S05D 513333100		WASHER, flat WASHER, spring NUT NUT, binx self locking SCREW, set STUD	12 2 6 4 2 2
46 47	513361800 8S04D V2004220 61S04 513358800		PLATE, motor/engine mounting BOLT WASHER, flat, special NUT, binx, self locking BRACKET, support	1 2 2 1



# START SWITCHES, electric drive

C - 3

ltem	Part no	Date	Description	Qty
1	202493800		MOTOR, 110V 1.5Kw 2.0Hp	1
2	208398900		CONTACTOR, Schneider 110v	1
	208398500		CASE, starter	1
	192928000		CONTACTOR	1
	207818004		RELAY, overload, 12-18 amp	1
3	11S01A		SCREW, set	2
4	7S01		NUT	2
5	17S02		WASHER, spring	2
6	267S03		WASHER, flat	2
7	208890000		SWITCH, stop, emergency push buttor	า 1
8	CR229109		CONDUIT, flexible, 20mm	2mt
	V2006398		TIE, cable, panel mount	3
8B	V2003253		TIE, cable,	1
9	CR229110		COUPLING, conduit 20mm	6
	CR229114		RING, lock, 20mm	4
	CR229112		COUPLER, female, galvanised, 20mm	1
	205609700		INSERT, brass	1
	49S44 V2003558		"O" RING, brass insert "P" clip	1 1
	208400000		INLET, surface mount, 110V 16amp	1
			•	
14A	49S43		"O" RING, appliance inlet body	1
15	11S02B		SCREW, set	4
16	267S04		WASHER, flat	4
17	17S03		WASHER, spring	4
18	7S02		NUT	4
20	144700100		WIRE, live, brown	3.0m
21	144700300		WIRE, neutral, blue	1.0m
22	144700200		WIRE, earth, green/yellow	2.5m

**D - 1** 



BRITISH MADE

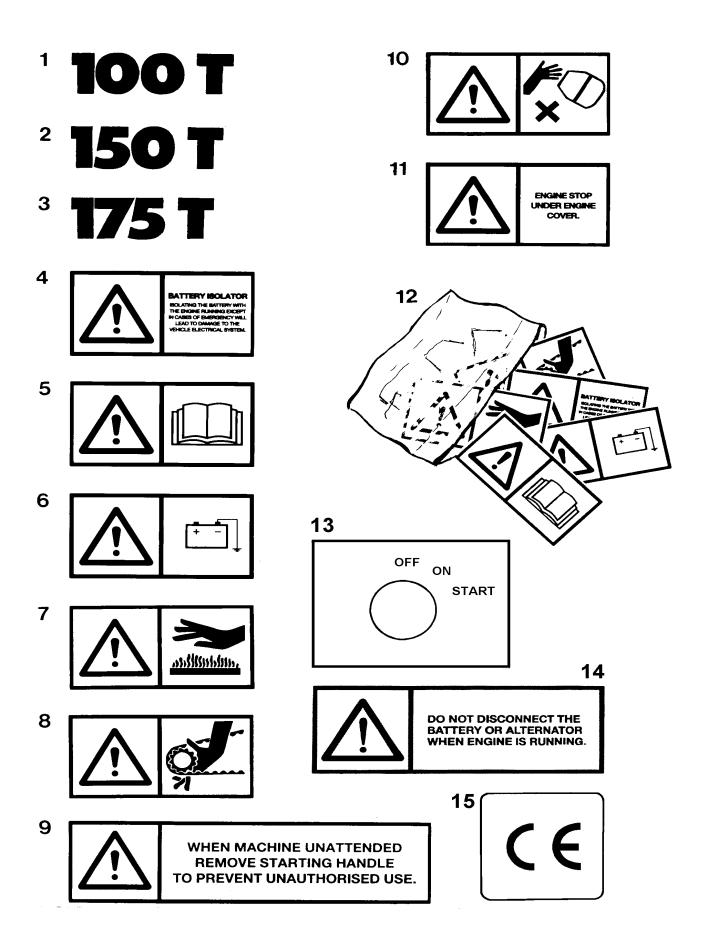
DA

FAILURE TO FOLLOW THE MANUFACTURERS INSTRUCTIONS

WHEN STARTING THE ENGINE, MAY CAUSE DAMAGE TO THE MACHINE

# **DECALS & PLATES**

ltem	Part no	Serial no	Description	Qty
				1
2	V2003037		PLATE, serial	1
_	101S05B		RIVET, pop	4
3	504600900		DECAL, "Engine housing lid closed"	1
4	504694600		DECAL, "Safety Warning"	1
8	V2003039		DECAL, "WINGET" logo,	3
9	V2003038		DECAL, stripe, 2 colour	AR
10	V2003101		DECAL, "Diesel fuel"	1
-			- ,	
13	V2003665		DECAL, "Sling point"	1
14	V2003598		DECAL, "Britsh made"	1
15	V2004130		DECAL, "LPA 80"	1
17	V2004307		DECAL, "Electrical hazard"	1
18	V2005208		DECAL, "Engine starting procedure"	1

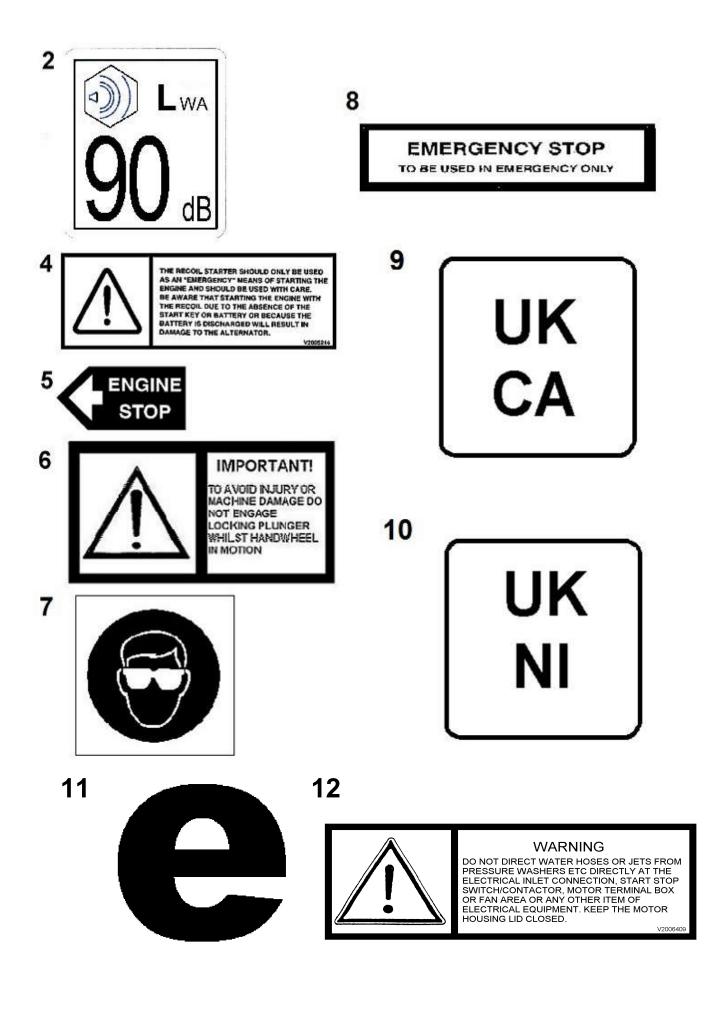


D - 2

# **DECALS & PLATES**

D - 2	

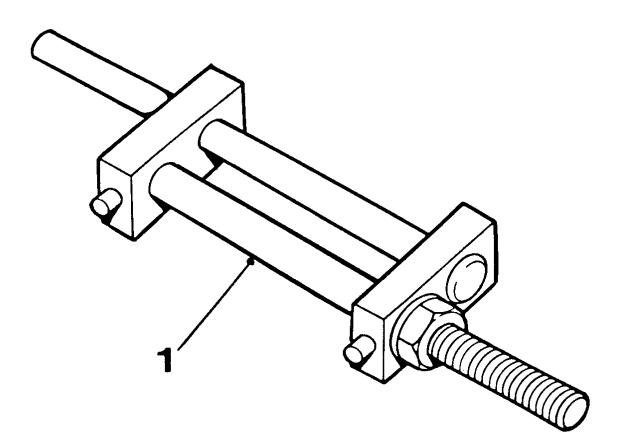
ltem	Part no	Serial no	Description	Qty
1	V2003105		DECAL, "100T", Black	2
2	V2003106		DECAL, "150T" Black	2
3	V2003107		DECAL, "175T" Black	2
4	V2004227		DECAL, "Battery isolator"	1
5	V2004229		DECAL, "Operators handbook	1
6	V2004235		DECAL, "Negative earth"	1
7	V2004282		DECAL, "Hot surface"	1
8	V2004281		DECAL, "Chain drive	1
9	V2004288		DECAL, "Remove start handle"	1
10	V2004289		DECAL, "Keep hands clear of drum"	1
11	V2004302		DECAL, Engine stop"	1
12	V601906		KIT, decals, 100T, 150T, 175T Each kit contains all of the decals required for one machine.	1
13	V2005218		DECAL "Key switch"	1
14	V2004796		DECAL "Do not disconnect battery"	1
15	V2004223		DECAL "CE mark"	1



# DECALS & PLATES

Item	Part no	Serial no	Description	Qty
2	V2006408		DECAL, "LWA 90"	1
4	V2005214		DECAL, "The recoil starter"	1
5	FSE357		DECAL, "Engine stop	1
6	V2005630		DECAL, "Locking Plunger"	1
7	V2004744		DECAL, " Eye Protection"	1
8	513371100		DECAL, "Emergency stop"	1
9	V2006402		DECAL "UKCA"	1
10	V2006403		DECAL "UKNI"	1
11	V2006408		DECAL "e"	2
12	V2006409		DECAL "Warning Do Not"	1

# D - 2A



ltem	Part no	Serial no	Description	Qty
1	513204000		CLAMP, drum clip	1