

OPERATOR'S SAFETY AND SERVICE MANUAL



DOUBLE BEAM VIBRATING SCREED

This manual covers the following serial numbers and higher:

MBW D.B.S E10000



CONCRETE VIBRATOR

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TABLE OF CONTENTS

SAFETY INFORMATION	4
Introduction	4
Safety Precautions	4
Safety Decals	4
WARNING	5
ASSEMBLY OPERATING & INSTRUCTIONS	6
General	6
Fitting of Beams	6
On site Operation	7
Accessories	8
General Maintenance	8
Safety Points	8
REPLACEMENT PARTS	9
Parts Diagram	10
WARRANTY	11

SAFETY INFORMATION

Introduction



This Safety Alert Symbol is used to call attention to items or operations which may be dangerous to those operating or working with this equipment. The symbol can be found throughout this manual and on the unit. Please read these warnings and cautions, along with all decals, carefully before attempting to operate the unit. Make sure every individual who operates or works with this equipment is familiar with all safety precautions.

WARNING

GENERAL WARNING. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment and/or severe bodily injury or death.

CAUTION

GENERAL CAUTION. Indicates information important to the proper operation of the equipment. Failure to observe may result in damage to the equipment.

Safety Precautions



LETHAL EXHAUST GAS: An internal combustion engine discharges carbon monoxide, a poisonous, odorless, invisible gas. Death or serious illness may result if inhaled. Operate only in an area with proper ventilation. **NEVER OPERATE IN A CONFINED AREA!**



DANGEROUS FUELS: Use extreme caution when storing, handling and using fuels, as they are highly volatile and explosive in vapor state. Do not add fuel while engine is running. Stop and cool the engine before adding fuel. **DO NOT SMOKE!**



SAFETY GUARDS: It is the owner's responsibility to ensure that all guards and shields are in place and in working order.



IGNITION SYSTEMS: Breakerless, magneto, and battery ignition systems can cause severe electrical shocks. Avoid contacting these units or their wiring.



SAFE DRESS: Do not wear loose clothing, rings, wristwatches, etc. near machinery.



NOISE PROTECTION: Wear OSHA specified hearing protection devices.



EYE PROTECTION: Wear OSHA specified eye shields, safety glasses, and sweat bands.



FOOT PROTECTION: Wear OSHA specified steel-tipped safety shoes.



HEAD PROTECTION: Wear OSHA specified safety helmets.



DUST PROTECTION: Wear OSHA specified dust mask or respirator.

OPERATOR: Keep children and bystanders off and away from the equipment.

REFERENCES: For details on safety rules and regulations in the United States, contact your local Occupational Safety and Health Administration (OSHA) office. Equipment operated in other countries must be operated and serviced in accordance and compliance with any and all safety requirements of that country. The publication of these safety precautions is done for your information. MBW does not by the publication of these precautions, imply or in any way represent that these are the sum of all dangers present near MBW equipment. If you are operating MBW equipment, it is your responsibility to insure that such operation is in full accordance with all applicable safety requirements and codes. All requirements of the United States Federal Occupational Safety and Health Administration Act must be met when operated in areas that are under the jurisdiction of that United States Department.

Safety Decals

Carefully read and follow all safety decals. Keep them in good condition. If decals become damaged, replace as required. If repainting the unit, replace all decals. Decals are available from authorized MBW distributors.



WARNING



CALIFORNIA PROPOSITION 65 WARNING

Engine exhaust and some of its constituents are known in the state of California to cause cancer, birth defects, and other reproductive harm.

ASSEMBLY, OPERATING AND SAFETY INSTRUCTIONS FOR THE MBW DOUBLE BEAM VIBRATING SCREEDER

1. GENERAL

The MBW Double beam vibrating screeder enables concrete to be laid efficiently and with less effort than conventional methods.

Maximum vibration is concentrated on the leading beam to achieve good compaction. Lighter vibration is applied to the following beam, to achieve a smooth finish.

2. FITTING OF A PAIR OF BEAMS

Obtain a pair of suitable aluminium beams, varying lengths are available from MBW.

The beams should be slightly longer than the size of the bay to be tamped and preferably each beam measuring 50mm wide and 150mm deep.

For beam lengths over 6.2m, the use of 2 drive units is recommended to achieve optimum consolidation.

Aluminium beams, because they are extruded in channel form, must be filled with a single block of wood, also referred to as a packer, long enough to cover the three clamping points located on each side of the drive unit chassis/frame, to ensure the optimum rigidity and longevity of the beams.

Mounting and subsequent use of the drive unit on the beams without packers inserted in the channel will result in the distortion and buckling of the beam(s).

Distorted and/or buckled beams are unsuitable for site use.

Wooden packers are supplied as standard with each pair of MBW beams.

Threaded tie bars are supplied to maximise rigidity between beams and should be located in holes provided at the beam-ends. Inside nut/washer spacing (500mm).

Always ensure that the aluminium beams are fitted to the drive unit with both the flat sides facing in the direction of travel with 150mm (6") part of the beam on the vertical.

The direction of travel of the drive unit is indicated by the downward sloping pitch of the fitted belt guard.

The machine has an integral lifting bar at each end of the top frame for the purpose of lifting on and off the beam set.

Place the screeder drive unit on top of the beams, ensuring that the drive unit is in the centre of the beams. When in place, tighten all six clamps with the bolts and levers supplied.

Always ensure that when two drive units are mounted simultaneously, i.e. on beam lengths exceeding 6.2m, that they are equally spaced on the beam set.

Fit handle supplied onto the rubber mounting blocks provided on the drive unit chassis/ frame in an upright position.

3 ON-SITE OPERATION OF THE SCREEDER

Place the screeder unit and beams on top of form over concrete bay with the direction of travel facing towards the new concrete.

Check that there are no obstructions on either side of forms. Remove or hammer down any/all protruding nails etc, so as not to restrict the machine whilst in motion.

After the concrete has been roughly levelled by hand, the screeder may be started.

Engine operating speed at full throttle is set to 3500 rpm for optimum performance.

It is usually necessary to make a second pass over the bay when all indentations have been filled in.

THERE ARE THREE WAYS TO USE THE VIBRATING SCREEDER OF EQUAL SUCCESS

1. By one operator pulling the unit along by the main handle from inside the bay.

2. By two operators pulling unit with ropes attached to the cross struts on the outside of the beams, walking outside the formwork.
3. By two operators pulling the unit via beam end handles, supplied as an accessory, fitted into the ends of the tie bars.

4. ACCESSORIES AVAILABLE

Aluminium beam sets of varying sizes, supplied c/w wooden packers and tie bars.

Beam end handles, supplied as accessories, for use in enabling the unit to be manoeuvred more easily over rough formwork.

5. GENERAL MAINTENANCE

For engine maintenance, please refer to the engine manufacturer's operating instructions provided.

Tighten all nuts, bolts, etc daily.

It is recommended to coat the machine with a light oil prior to use, so that any concrete residue can easily be removed after use.

SAFETY POINTS TO BE OBSERVED WHEN USING THE MBW DOUBLE BEAM VIBRATING SCREEDER

- ✓ IT IS ADVISABLE TO WEAR EAR PROTECTORS WHEN USING THESE MACHINES.
- ✓ IT IS ADVISABLE TO WEAR DUST MASKS WHEN USING THESE MACHINES.
- ✓ IT IS ADVISABLE TO WEAR EYE PROTECTORS WHEN USING THESE MACHINES.
- ✓ DO NOT OPERATE WITH LOOSE CLOTHING.
- ✓ ALWAYS WEAR APPROPRIATE FOOTWEAR.
- ✓ NEVER USE THESE MACHINES WHILST UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.

THESE MACHINES ARE TO BE USED BY
AUTHORISED PERSONNEL ONLY

- ✓ If you are in doubt on any point relative to this equipment or your responsibility as an operator/owner/hirer for the safe use of this equipment in accordance with current regulations of the Health and Safety at Work Act.

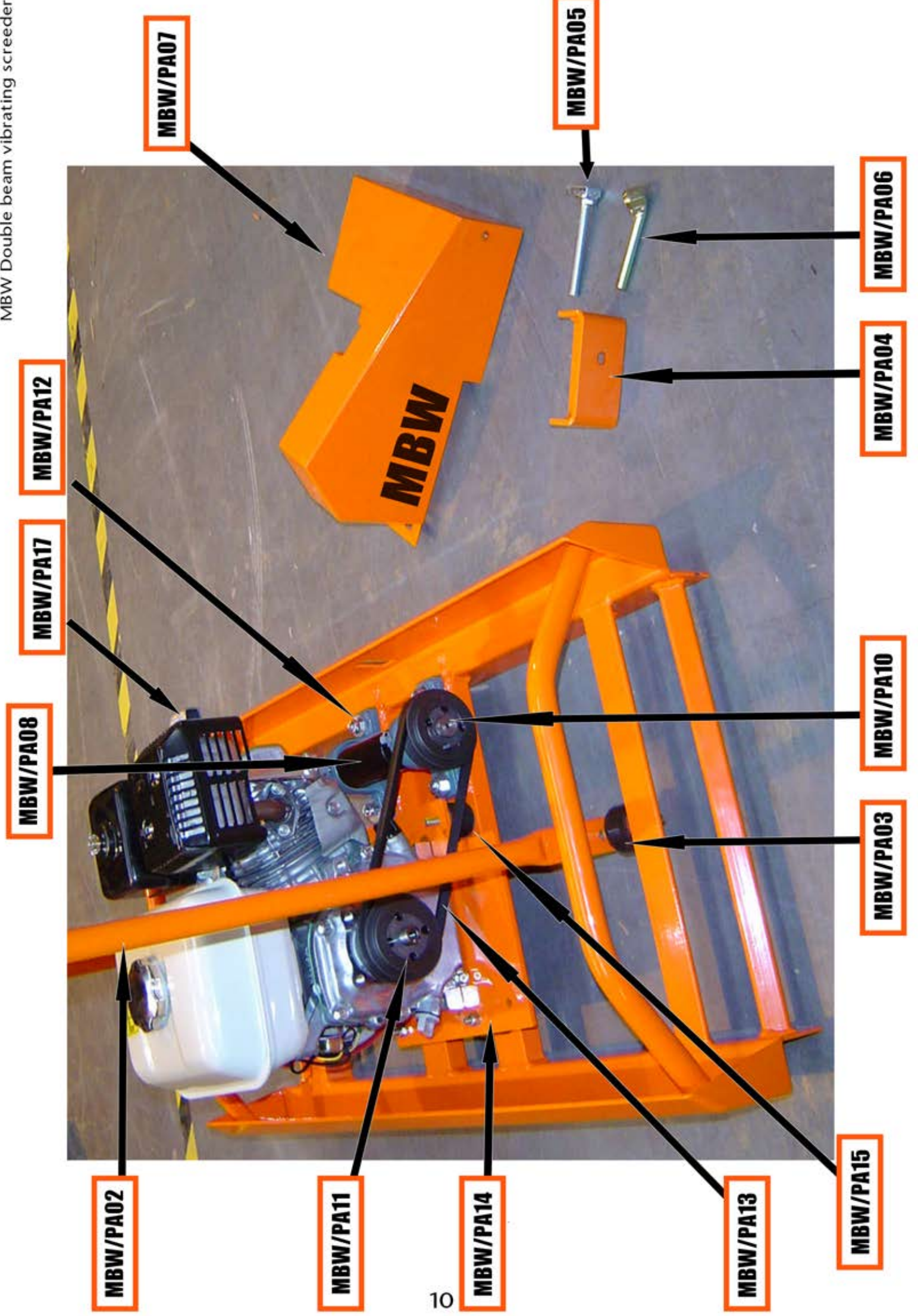
ACCESSORIES

- ✓ 5.2m, 6.2m and 7.2m aluminium beam sets, c/w packers and tie bars.
- ✓ Alternative aluminium beam lengths available on request.
- ✓ It is recommended that two drive units be used with beams greater than 6.2m in length.
- ✓ Beam and handles for two man operation.



MBW D.B.S PARTS

REF:	DESCRIPTION
MBW/PA01	MAIN FRAME
MBW/PA02	MAIN HANDLE
MBW/PA03	HANDLE MOUNTING
MBW/PA04	CLAMP
MBW/PA05	BOLT
MBW/PA06	LEVER
MBW/PA07	BELT GUARD
MBW/PA08	AMPLITUDE
MBW/PA09	KEY (AMP)
MBW/PA10	PULLEY (AMP)
MBW/PA11	PULLEY (ENG)
MBW/PA12	BEARING
MBW/PA13	BELT
MBW/PA14	ENGINE PLATE
MBW/PA15	MOUNTING RUBBERS
MBW/PA16	SPEED LOCK
MBW/PA17	EXHAUST DEFLECTOR



WARRANTY

WHAT DOES THIS WARRANTY COVER? MBW, Incorporated (MBW) warrants each New Machine against defects in material and workmanship for a period of twelve (12) months. "New Machine" means a machine shipped directly from MBW or authorized MBW dealer to the end user. This warranty commences on the first day the machine is sold, assigned to a rental fleet, or otherwise put to first use.

MBW warrants each Demonstration Machine against defects in material and workmanship for a period of six (6) months. "Demonstration Machine" means a machine used by MBW or its agents for promotional purposes. This warranty commences on the first day the machine is sold, assigned to a rental fleet, or otherwise put to first use.

This warranty covers the labor cost for replacement or repair of parts, components, or equipment on New Machines or Demonstration Machines, and MBW shall pay labor costs at MBW's prevailing rate to affect the warranted repair or replacement. MBW reserves the right to adjust labor claims on a claim-by-claim basis.

This warranty covers the shipping cost of replacement parts, components, or equipment via common ground carriers from MBW to an authorized MBW dealer. Air freight is considered only in cases where ground transportation is not practical.

MAY THIS WARRANTY BE TRANSFERRED? This warranty is non-transferable and only applies to the original end user of a new machine or demonstration machine.

WHAT DOES THIS WARRANTY NOT COVER?

1.This warranty does not cover any Used Equipment. "Used Equipment" means any MBW machine or equipment that is not a New Machine or a Demonstration Machine. All Used Equipment is sold **AS IS/WHERE IS WITH ALL FAULTS.**

2.This warranty does not cover any New Machine, Demonstration Machine, or their equipment, parts, or components altered or modified in any way without MBW's prior written consent. This warranty does not cover the use of parts not specifically approved by MBW for use on MBW products. This warranty does not cover misuse, neglect, shipping damage, accidents, acts of God, the operation of any New Machine or Demonstration Machine in any way other than recommended by MBW in accordance with its specifications, or any other circumstances beyond MBW's control. This warranty does not cover any New Machine or Demonstration Machine repaired by anyone other than MBW factory branches or authorized MBW distributors.

3.This warranty does not cover, and MBW affirmatively disclaims, liability for any damage or injury resulting directly or indirectly from design, materials, or operation of a New Machine or Demonstration Machine or any other MBW product. MBW's liability with respect to any breach of warranty shall be limited to the provisions of this document and in no event shall exceed an amount equal to the purchase price of the New Machine or Demonstration Machine purchased from MBW.

4.This warranty does not cover engines, motors, and other assemblies or components produced by other manufacturers and used on a New Machine or Demonstration Machine, as said engines, motors, and other assemblies or components may have warranties provided by the manufacturer thereof. This warranty does not apply to consumable items, such as v-belts, filters, trowel and screed blades, seals, shock mounts, batteries, and the like, all of which are sold **AS IS/WHERE IS WITH ALL FAULTS.**

5.This warranty does not cover the cost of transportation and other expenses which may be connected with warranty service but not specifically mentioned herein.

6.This warranty does not cover any updates to any New Machine, Demonstration Machine, or any other MBW product. MBW reserves the right to improve or make product changes without incurring any obligation to update, refit, or install the same on New Machines or Demonstration Machines previously sold.

WHAT MUST YOU DO TO OBTAIN WARRANTY COVERAGE? Each New Machine or Demonstration Machine is accompanied by a Warranty Registration Card. You must sign, date, and return the Warranty Registration Card to the place of origin of the New Machine or Demonstration Machine, either to MBW, Inc. at P.O. Box 440, Slinger, Wisconsin 53086 or MBW Europe Ltd. at Units 2 & 3 Cochrane Street, Bolton BL3 6BN, United Kingdom, within ten days after purchase assignment to a rental fleet, or first use.

This signed warranty card is the buyer's affirmation that he has read, understood, and accepted the warranty at the time of purchase. Failure to return the warranty card as specified herein renders the warranty null and void. In order to receive warranty coverage consideration, warranty claims must be submitted within thirty (30) days after the New Machine or Demonstration Machine fails. Warranty claims must be submitted to MBW, Inc., MBW (UK), Ltd. or MBW FRANCE SARL, and written authorization for the return of merchandise or parts under the warranty must be obtained before shipment to MBW.

WHAT WILL MBW DO? MBW's obligation under this warranty is limited to the replacement or repair of parts for a New Machine or Demonstration Machine at MBW factory branches or at authorized MBW distributors, and such replacement or repair is the exclusive remedy provided hereunder. Labor must be performed at an authorized MBW distributor. MBW reserves the right to inspect and render a final decision on each warranty case, and MBW's repair or replacement is solely within the discretion of MBW.

IT IS EXPRESSLY AGREED THAT THIS SHALL BE THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. UNDER NO CIRCUMSTANCES SHALL MBW BE LIABLE FOR ANY COSTS, LOSS, EXPENSE, DAMAGES, SPECIAL DAMAGES, INCIDENTAL DAMAGES, OR PUNITIVE DAMAGES ARISING DIRECTLY OR INDIRECTLY FROM THE USE OF THE NEW MACHINE OR DEMONSTRATION MACHINE WHETHER BASED UPON WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR ANY OTHER LEGAL THEORY.

THE FOREGOING WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR USE, AND FITNESS FOR A PARTICULAR PURPOSE, AND ALL OTHER OBLIGATIONS OR LIABILITY ON MBW'S PART. MBW NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME ON BEHALF OF MBW ANY OTHER LIABILITY OR WARRANTY IN CONNECTION WITH THE SALE OR SERVICE OF ANY NEW MACHINE, DEMONSTRATION MACHINE, OR ANY OTHER MBW PRODUCT.

EXTENDED RAMMER WARRANTY - MODELS R422, R442, R482 & R483.

This extended warranty commences on the last day of MBW's standard, one year, "limited warranty" and runs for an additional four years (48 months). This extended warranty is limited to part replacement and shipping costs of rammer **bellows and non-metallic slide bearings only.** This extended warranty does not cover labor, down time, or any other cost beyond that of component replacement and freight. This extended warranty is subject to all limitations set fourth in MBW's "limited warranty", above.



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EC Declaration Of Conformity

We : **MBW Europe Limited**

Of : **Units 2 & 3 Cochrane Street, Bolton BL3 6BN United Kingdom**

In accordance with the following directive(s)

89/392/EEC

Hereby declare under sole responsibility that :

Product : **MBW DOUBLE BEAM SCREED**
Model : **D.B.S**
Serial number(s) : **-----**

Is in conformity with the applicable requirements of the following harmonized standards

EN292 - SAFETY OF MACHINERY PART 1 & 2

The undersigned declares, on behalf of MBW Europe Limited that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications.

The unit complies with all the applicable essential Health and Safety Requirements of the directive.

Name : **Greig Sandiford**

Position : **Managing**

Director Date : **01/01/2021**

Signature :



