



BMI EJECTOR TRAILERS

# **OPERATING AND SAFETY INSTRUCTIONS**



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## 1.0 Introduction

Congratulations on your purchase of a BMI ejector trailer. These trailers have a proven record in the haulage industry for reliability, durability and strength of the product.

This manual intends to give you all the required information of how to operate and maintain your BMI ejector trailer. Before starting to operate your trailer you must read the manual.

If you require any assistance or replacement parts, the contact address and telephone numbers are listed below:

**Address:**                      **The bmi group**  
                                      **Unit 20 Granville Industrial Estate**  
                                      **Dungannon Co**  
                                      **Tyrone Northern**  
                                      **Ireland BT70 1NJ**

**Telephone:**                    **+44 (0)28 8775 3999**  
**E-Mail Address:**            [spares@thebmigroup.com](mailto:spares@thebmigroup.com)  
**Web Address:**              [www.bmigroup.com](http://www.bmigroup.com)

The use of genuine 'BMI' spare parts is essential for the long and trouble free life of your trailer; any variance from this will render **warranties invalid**.

Due to our policy of continuous redevelopment and improvement, our company reserves the right to modify the design and specifications without any prior notice.



## **2.0 General Description**

The BMI ejector trailer is a high quality bulk-carrying vehicle with uses for waste disposal, recycling, or any application where control of discharge is critical.

The ejector principal overcomes the hazards of tipping trailers and allows the operator to select the discharge point accurately.

BMI ejectors are available in a wide variety of body sizes, with a choice of running gear and ancillary equipment. The six-stage ejector ram is powered from a hydraulic pump that is driven either from a truck PTO or an auxiliary engine installation.

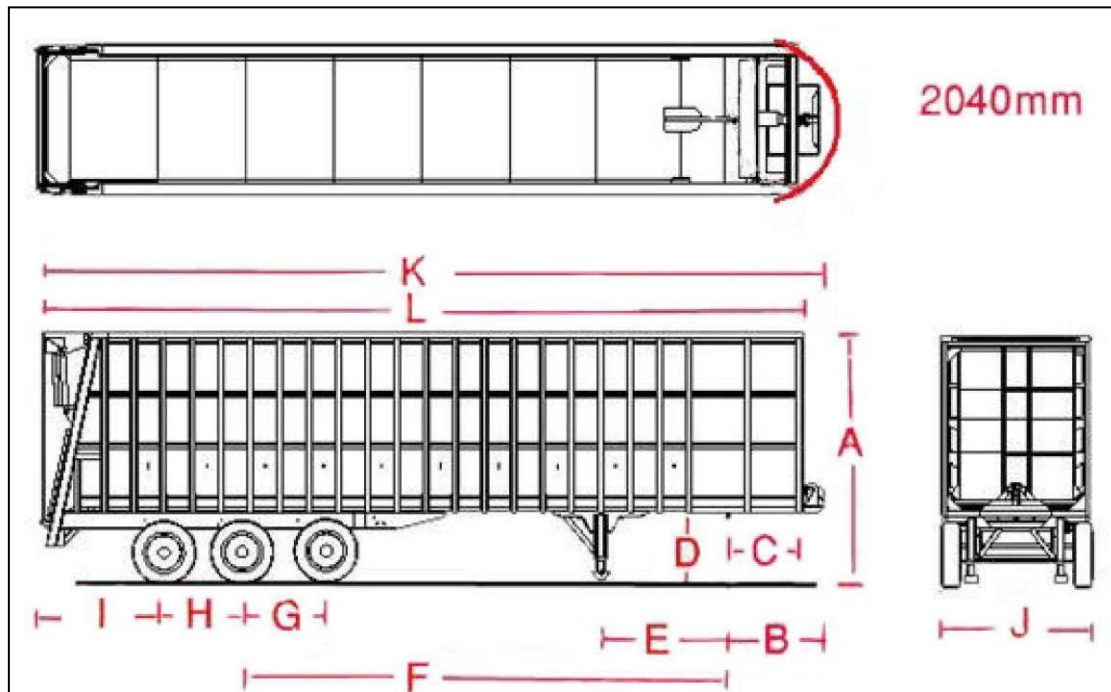
The frame and running gear for an ejector trailer follow standard approved practices but weight is minimised and hence, load capacity is maximised by the use of monocoque chassis construction. Floor supports are integrated with the trailer frame giving enhanced rigidity to the body.

Ejector bodies are fabricated from high-grade steel with a reinforcing shape design which makes it operate extremely well under all conditions of normal operation.

This manual covers the three main aspects of the ejector trailer; technical specification, operating safety and maintenance. To achieve maximum use from the trailer it should be studied in detail before the trailer is put into service.

The bmi Group operates a policy of continual product improvement and the details of any new trailer will be included in the specific manual for that trailer.

### 3.0 Trailer Specification



| Trailer Sizes (mm) |          |          |          |          |
|--------------------|----------|----------|----------|----------|
| Key                | 100 yard | 105 yard | 110 yard | 120 yard |
| A (mm)             | 4110     | 4230     | 4380     | 4530     |
| B (mm)             | 1600     | 1600     | 1660     | 1600     |
| C (mm)             | 1300     | 1300     | 1300     | 1300     |
| D (mm)             | 1300     | 1300     | 1300     | 1300     |
| E (mm)             | 2400     | 2400     | 2400     | 2400     |
| F (mm)             | 8120     | 8120     | 8120     | 8120     |
| G (mm)             | 1310     | 1310     | 1310     | 1310     |
| H (mm)             | 1310     | 1310     | 1310     | 1310     |
| I (mm)             | 2365     | 2365     | 2365     | 2365     |
| J (mm)             | 2540     | 2540     | 2540     | 2540     |
| K (mm)             | 13680    | 13680    | 13680    | 13680    |
| L (mm)             | 13450    | 13450    | 13450    | 13450    |

## 4.0 Operation Instructions

### 4.1 Health and Safety Legislation:



***The information in this chapter is issued in compliance with the Health and Safety Act 1992. Purchasers of BMI TRAILERS are advised to ensure that all of their staff concerned with the operation of the ejector trailer are fully conversant with the operation systems and have been instructed on the safety aspects of the operation.***

BMI ensure, as far as is reasonably practicable, that their products are safe to use when properly operated. No liability can be accepted for defects or accidents caused by operating the trailer outside its design limits. The following points should be brought to the operator's attention.

**HSE PUBLICATIONS AND INFORMATION - The Road Haulage Association supplies a full list of publications. The following particular web-links may be of interest to ejector trailer users:**

|                                                          |
|----------------------------------------------------------|
| <a href="#">Reversing Vehicles</a>                       |
| <a href="#">Managing Vehicle Safety at the Workplace</a> |
| <a href="#">Danger – Vehicles at work</a>                |

### 4.2 The Principle Operation guide

This principle operation guide is a simplified checklist for the highly experienced user. On the following page, a more comprehensive guide on how to operate a BMI ejector trailer is explained.

Before using the trailer you must ensure that:

The trailer is on stable ground and there are no persons at the rear or sides of the trailer.

The sheeter system is fully opened before opening the tailgate. These can be a number of different sheeter systems. If unsure, please relate to the more comprehensive guide on the following pages.

The tailgate is in the fully opened position before the blade is operated.

All safety checks have been completed before ejecting the blade.

Ensure the Suisse lead has been coupled up between the tractor unit and the trailer and the side lights are switched on.

Once the trailer has ejected its load, complete the following steps:

Retract the blade fully

Close the tailgate ensuring no persons at the rear of the trailer

Close the sheeter system.

### 4.3 The Comprehensive Operation Guide

Below is complete guide for the less experienced operator. The trailer is broken down to several key operation areas. Each must be completed before the next can be started. Please follow the steps to complete each operation.

*If unsure, please contact BMI Trailers Ltd before starting any operation.*

### 4.4 Sheeter Systems

The sheeter system is the only operation in the loading process. Please ensure that the nets are fully open before any material is inserted into the ejector trailer and then fully close the sheeter system before the ejector trailer begins transportation.

This process is repeated when off-loading the material. Please ensure the sheeter system is fully open before tailgate is open. If this is not done then it will cause damage to the sheeter at the rear of the trailer. If applicable, ensure the sheeter protection is engaged.

Once the material is fully ejected from the trailer, ensure the blade is retracted and the tailgate is fully closed before closing the sheeter system.

There are four different types of sheeter system available and the operation of each is listed below. Please refer to the system that applies to your trailer.

#### 4.4.1 Manual Half-Net Sheeter System

This is the manually operated system which works by the sheeter being controlled by the driver. Please ensure to open the half nets in the correct order. Below is a guide how to operate.

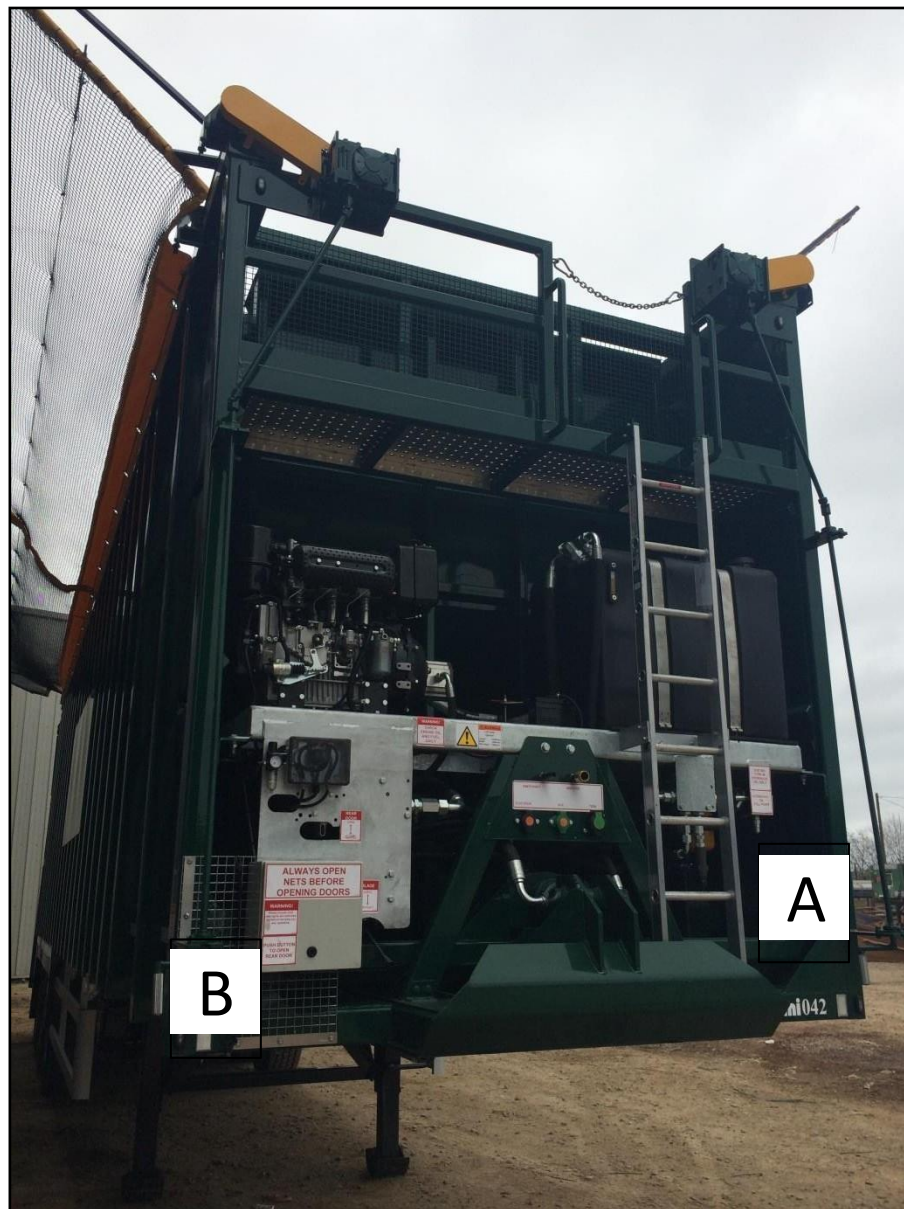
***Before operating ensure the tailgate is fully closed.***

The half-nets are opened manually by turning a handle on both sides.

First turn handle at (A) on the passenger side to operate net

Then turn handle at (B) on the driver side to open second net.

Ensure sheeter protector switch (if applicable) is engaged.





#### 4.4.2 Hydraulic Half-Net System

The hydraulic half-nets are an optional extra. The operator can open this sheeter system via two lever controls at the front of the trailer. Each lever arm controls the movement of one half of the nets. Below is a guide how to operate.

***Before operating ensure the tailgate is fully closed.***

The operator **MUST** open the passenger side net first in order to prevent damage to the sheeter system.

Open the driver side net second using the second control lever.

Below is an illustration showing how this operation is completed.



#### 4.4.3 Hydraulic Full-Net System

The hydraulic full-net system is an optional extra. The operator can open this sheeter system via one lever control at the front of the trailer. The lever arm controls the movement of the full net. Below is a guide how to operate.



***Before operating ensure the tailgate is fully closed.***

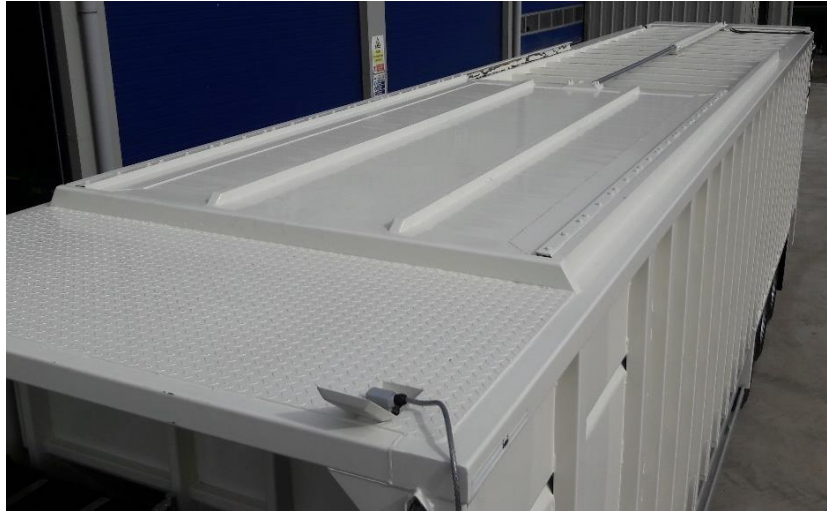
When operating this system, a distance of at least three metres must be maintained to prevent damage to other objects. Operator should take care for overhead hazards; power lines, bridge structures etc.

The operator can open the net from the front control panel via the sheeter lever. To close the sheeter, please pull the sheeter lever down.



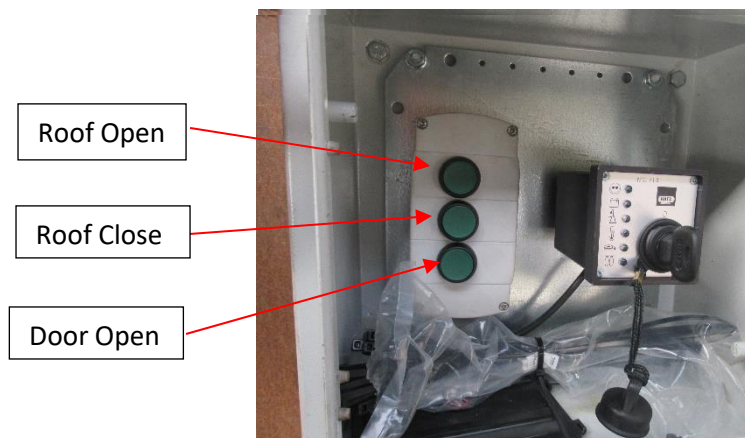
#### 4.4.4 Hydraulic Sliding roof system

The 4m front opening hydraulically operated solid alloy roof is operated from within the control box at the front of the trailer or the auxiliary control box (if supplied)



To open the roof, start the engine and press the top button of the three button controller inside the control box at the front of the trailer. Or the button on the auxiliary control box if included.

The roof is closed via the second button on the 3 button controller or the close button on the auxiliary control box.



#### **4.4.5** Hydraulic Sliding roof system 2023

The 4m front opening hydraulically operated solid alloy roof is operated from the remote system supplier with the trailer – please check your remote for the corresponding labels for roof open and closed.

To open the roof, start the engine and and press the roof open and closed functions on the remote.

Ensure the blade is fully retracted. IF the blade is out of position the strobes mounted on the side of the trailer will be flashing.





## 4.5 Tailgate

The tailgate can be controlled from the front or the back of the trailer depending on the controls on the trailer.

Ensure the sheeter system is fully opened out to prevent damage occurring.

The user can open the tailgate from the front via single push button control and close it from the rear position via dual push button controls



Unless the trailer is a 'compaction' trailer, at no time should the load be pushed against the closed rear door as this will result in severe damage.

#### 4.5.1 Standard Tailgate Prop

This extra safety feature ensures that the tailgate will not close until it is in the upright position. For normal operations, the safety prop can be kept in its secure position via a spring loaded latch.



#### 4.6 Blade

The blade can be controlled from the front of the trailer at the main control panel. The purpose of the blade is to eject the material from inside the trailer out through the opened tailgate. Please follow operational instructions.

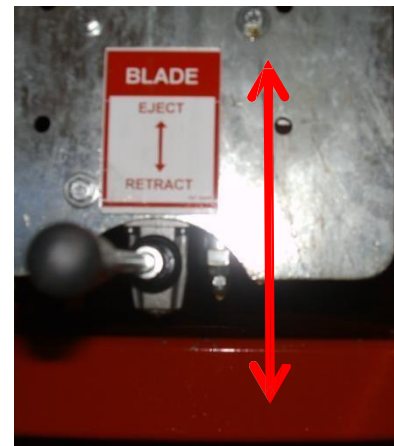
Firstly, confirm that both the sheeter system and the tailgate have both been fully opened to prevent damage to the trailer.

Before operating the blade, warn everyone in the vicinity of the trailer that they must stay clear of the rear of the trailer as it ejects the material.

To operate the blade:

Once the safety information above has been carried out, the operator can activate the blade by pushing the lever up to start the ejector ram pushing the blade out.

Once the material has been fully ejected, the lever can be pushed down to retract the blade back to the front of the trailer.



If the blade stops manoeuvring before the material inside the trailer is fully ejected, it is strongly advised that you retract the blade fully and start once more. If the operator does not fully retract the blade before starting the ejection process, it will damage the hydraulic ram. **This will void the warranty.**

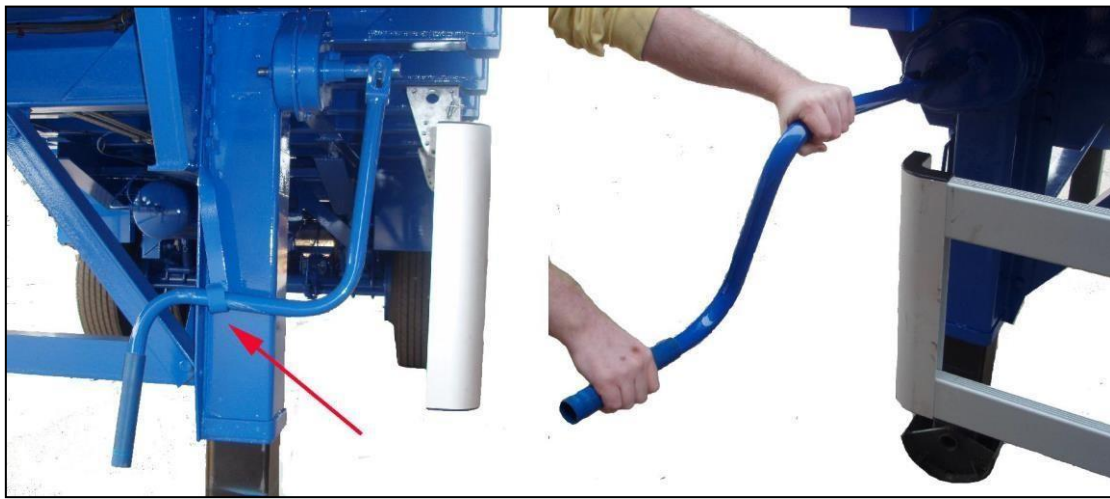
Do not attempt to speed up the operation of the ejector ram by increasing the system pressure or engine revolutions beyond prescribed limits. **This will void the warranty.**

#### 4.7 Landing Legs

The landing legs are used when the trailer is in stationary position when unhooked from the tractor unit. They are operated by the use of the manual handle which, when turned, retracts and extrudes out the landing legs to the desired height.

Ensure the handle is securely placed back into its holder after use.

If on soft ground, position a plank under the legs to prevent them from sinking.



#### 4.8 Coupling Trailer to Tractor Unit

Ensure that the trailer mechanical parking brake is applied.

Check that the fifth wheel jaws are open and the rear end is tilted downwards.

Ensure that the support legs are adjusted to the correct coupling height. If necessary, adjust using the lower gear.

Align the tractor and trailer and slowly reverse the tractor into coupled position.

Check the security of the coupling by attempting to move forward with the trailer brakes applied. Visually check that the tractor and trailer are correctly coupled and securely locked.

Connect the electrical couplings and airlines to their respective couplings.

Raise the support legs to their fullest extent and secure in the running position.

Check that the trailer brakes have released and release the parking brake.

#### 4.9 Uncoupling Trailer from Tractor Unit

Apply the trailer parking brake.

Lower the front support legs to take the weight of the trailer. If on soft ground, position a plank under the legs to prevent them from sinking.

Disconnect the electrical coupling and airlines and attach them to the dummy coupling to avoid contamination.

Unlock and release the fifth wheel coupling and slowly drive the tractor clear of the trailer.

#### 4.10 Loading Trailer

Customers have various methods of loading their ejector trailers. To ensure the safety of the operator and to prevent damage to the Bmi ejector trailer, please consider these cautions.

When loading the trailer unit you must be careful not to damage the sides or the roof severely as this could result in the blade sticking, or to the sheeter system not being able to operate correctly. **This will void your warranty.**

Pay Load; the trailers are designed and constructed to carry the rated payload distributed evenly along the length of the trailer. Concentrated loads will reduce the capacity of the trailer and may impair safe handling. Operators must ensure that axle load regulations are not infringed by incorrect loading or positioning of such loads. **This will void your warranty if not followed.**

Operators must ensure that the axle loading limits and neck ratings for the vehicle are not exceeded. These limits are to be found on the plates attached to the main rail. Unless otherwise arranged, the trailers are designed for highway use only. **This will void your Warranty if not followed.**

#### 4.11 Engine

There are four different engines which can be used on the Bmi ejector trailers, each having a different specification. All the engines are activated via a start box on the main control panel. The engines types are listed below and explained in more detail:





#### **4.11.1 Lombardini Series 11LD**

The Lombardini Series 11LD engine is one with little protective covering. When using this engine, be aware that the maximum torque is 32.8 Nm; and the minimum allowable oil pressure is 1.5 Bar. The complete list of specifications is listed below:

The engine is a four stroke air cooled diesel engine with direct injection

- Axial blower air cooling
- Mechanical fuel lift pump
- Forced lubrication with gear pump
- Full flow oil filtration with external cartridge filter
- Torque regulator
- Electric starting
- Oil cooler

#### **4.11.2 Lombardini Sileo**

The Lombardini Sileo engines are the quietest engine in the Lombardini range. They have a power pack which is covered and protected. Every part of the engine is protected inside this covering which makes it very resilient. There is a control panel mounted on the shell where the hour counter is also positioned for handy maintenance programming. As a result of the sheet, there is protection to the atmosphere. The rest of the specifications are listed below:

- It is a four stroke diesel engine with 3 - 4 vertical cylinders in a row
- Cast iron mono block with re-bore-able integral barrels
- Indirect injection
- Liquid cooled with axial fan and air / liquid radiator
- High capacity dry air filter
- Exhaust silencer

#### **4.11.3 Hatz Silent Pack**

This Hatz engine is the quietest engine in the field, produced with an outer shell containing everything inside the shell to protect the operation of the working components. Specifications listed below:

- The engine is a four stroke air cooled diesel engine
- Direct fuel injection
- The oil pressure is at minimum 0.6 Bar.

#### **4.11.4 Standard 2-Cylinder Hatz**

One of the most robust and durable in this market segment, the extremely compactly built two- cylinder engine is distinguished by its high reliability and, not least, flexible in application thanks to its dimensions. The light metal construction of the housing and die-cast aluminium cylinder heads keep the weight low, between 88 kg and 105 kg depending on the version.

#### 4.11.5 3 Cylinder Yanmar

- EU Stage5 Ready  
Cleanest engine in its category
- No Scheduled Maintenance DPF\* for 6,000 hours  
Seamless operation in the field
- Tough and Reliable Power
- Best in Class Fuel Consumption

#### 4.11.6 Engine Safety

For each one of the engines, the following must be adhered to for personal safety:

Never start the engine when any persons are in the trailer.

Once the engine is started, allow it to reach the optimum pre-set RPM before operating the hydraulics.

The exhaust must **NEVER** be touched when the engine is in operation or shortly after operation as it will be extremely hot.

Do not use the engines in small enclosed spaces as the fumes of the engines are toxic.

Stop the engine before any maintenance work is carried out or before refueling.

Never wear baggy or loose fitting clothing when operating the engine.

If the engine has run dry, prime the fuel before attempting to start the engine.

Always make sure the batteries are kept away from hot parts of the engine as this could result in flames.

Never use contaminated diesel

#### 4.12 Remote Control

Ensure the following before you start to use the remote

That the Suisse lead has been coupled up between the tractor unit and the trailer and the side lights are switched on.

That the red airline has been coupled up between the tractor unit and the trailer

That the hydraulics have been coupled up and the PTO is engaged

That emergency stop buttons have been reset.

That the power button on the remote is on and green.

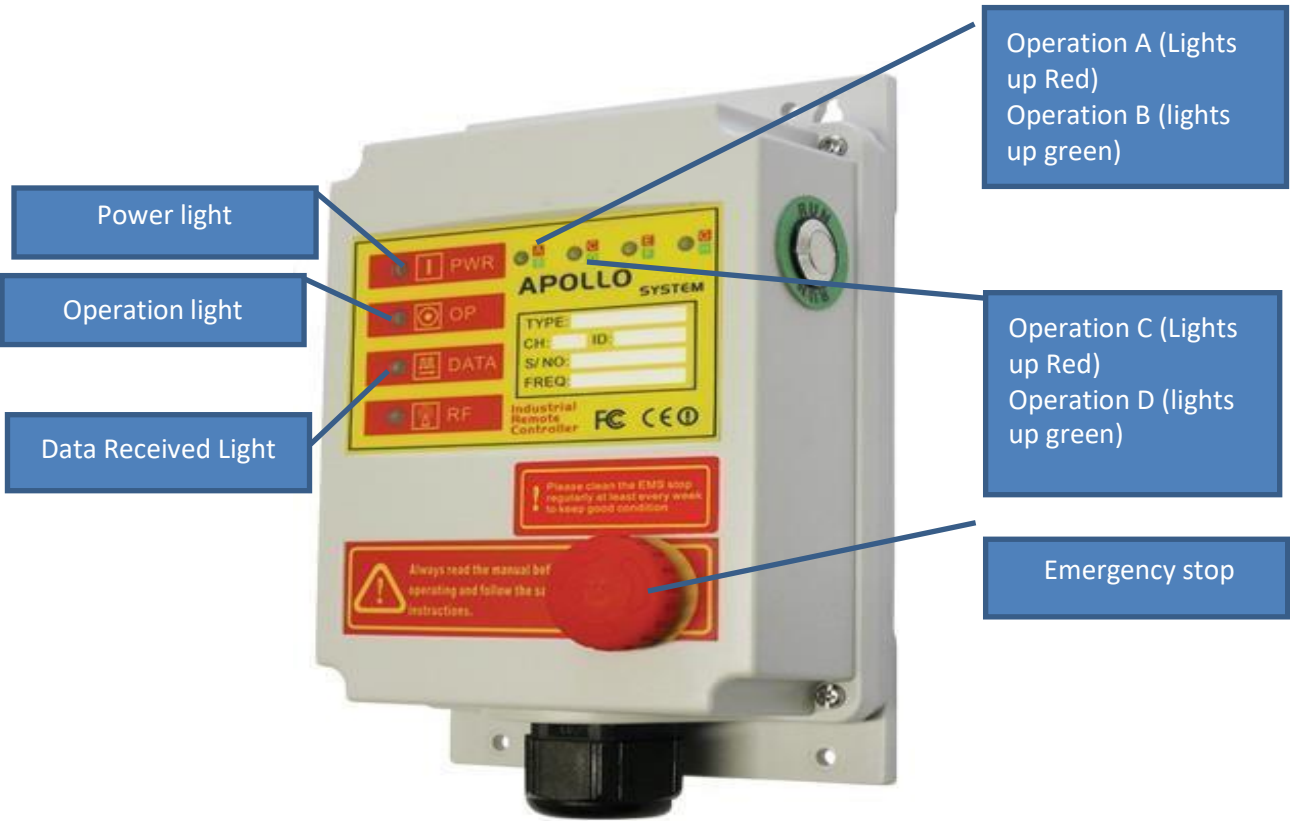
That the power button on the receiver is on and green.

When you select a function the correct colour on the receiver lights up.

#### Correct Operation

1. Insert safety catch and release emergency stop to turn on the remote.
2. Choose a function and press and hold the button
3. When finished remove the safety catch and/or press the emergency stop button.

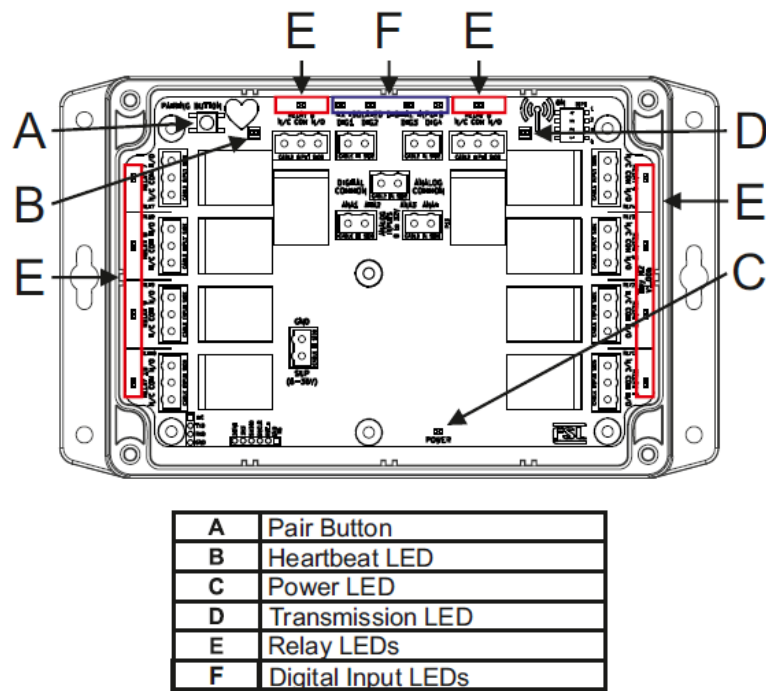
4.12.1 The Apollo Receiver



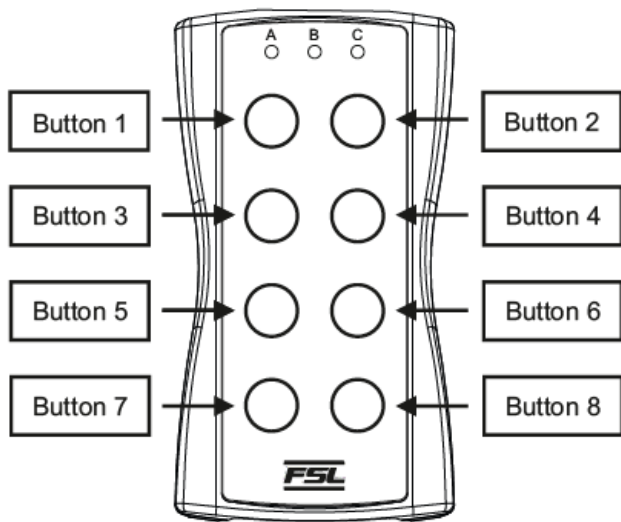
4.12.2 Your Remote control with functions



4.12.3 The FSL Reciever



4.0.1 The FSL Remote



## 5.0 Compactor Tailgate Options

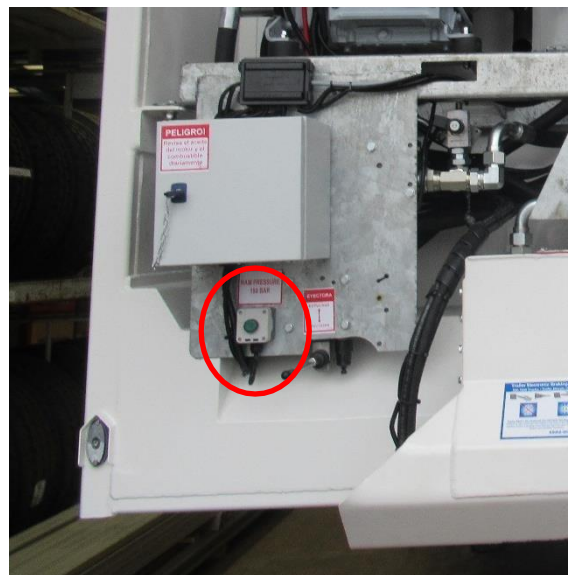
### 5.1 Option 1

Our most common option for the ejector tailgate arrangement is shown below. The off-loading of this compactor is hydraulically controlled and operates like our conventional ejector trailers with options of the controls being at the front or rear of the compactor.



Should extra pressure be needed to fully eject the load, (Doors open) the green push button can be pressed along with operating the manual ejection lever.

**This button should never be used for compaction.**

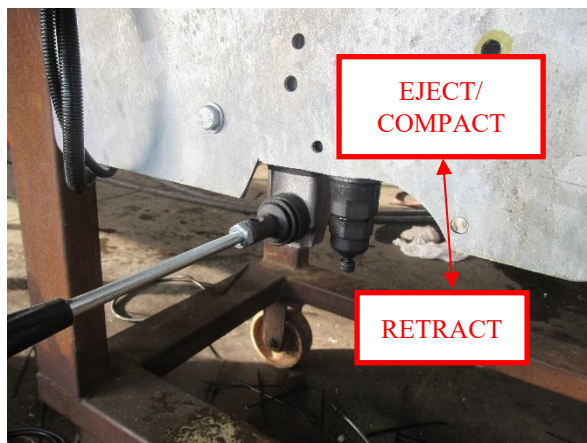


### 5.1.1 Compaction with option 1 hydraulic door.

For compacting the load with this option of back door, the back door should be fully closed, the chains should be attached to the latching points and fully tightened.



Compaction can be controlled from the auxiliary control box or the ejection lever at the front of the trailer.



**NOTE:** Compaction should only occur at maximum 90 bar pressure. Both the manual lever and the auxiliary control box will operate the ram at maximum 90 bar pressure.



Check what remote system is installed on your trailer. As different trailers can have 2-10 functions the location on the remote for eject and compact may differ.

For these functions your remote will have bespoke labels stating eject and compact.

Before compacting, please follow the steps for tying down the door and latching in place. After this you can use the control panel or remote styles below depending on your trailer specification.



## 5.2 Option Two

The loading of this compactor is achieved by manually opening the 'barn doors' via unlocking the door mechanisms. The off-loading of this compactor is hydraulic control and operates like our conventional ejector trailers with options of the controls being at the front or rear of the compactor.



### 5.3 Option Three

This final option is manually operated and requires no hydraulic assistance at any stage of the loading or unloading process. The doors are locked in place by four 30mm catches which are cam operated with damper assist. The top door can be opened separately from the bottom and it is centrally hinged to enable it to be folded over on itself for a smaller swing radius.



## 6.0 Ejector Trailer General Maintenance

Before attempting any maintenance, please isolate the ejector trailer. Please ensure you have qualified technicians to carry out checks and required maintenance to BMI ejector trailers.

Daily for the first 1000 Km

- Torque load wheel nuts.
- Torque load Kingpin bolts (190 Nm).
- Connect the electrical plugs and check the operation of the lights.

| Axles    | Wheel Nuts | Shocks         | Suspension     |
|----------|------------|----------------|----------------|
| Mercedes | 600 Nm     | 200Nm + ½ turn | 800Nm + ½ turn |
| SAF      | 600 Nm     | 500Nm          | 400Nm + 120°   |
| BPW      | 630 Nm     | 425Nm          | 660Nm          |
|          |            |                |                |

Daily after first 1000 Km

- Connect the electrical plugs and check the operation of the lights.
- Check brakes

Weekly for the first 6000Km

- Torque load the wheel nuts
- Torque load the suspension and 'U' bolts
- Torque load Kingpin bolts. (190 Nm)
- Check the level of hydraulic fluid in the tank

Monthly

- Connect the air supply and charge the tanks.
- Visually check the operation of the brakes.
- Ensure that the trailer inflates to ride height.
- Check the level of hydraulic oil.
- Check the operation of the hydraulic tailgate and ejector ram.
- Check the tyre pressure.
- Check all bolts/fasteners, hinges, rams/arms on sheeter system
- Check hydraulic system pressure.
- Check the operation of the landing legs.
- Grease blade guides using EP2 multi-purpose grease.

Yearly

- Replace oil filter in hydraulic circuit.
- Replace nylon side runners on blade (If applicable).
- Replace nylon floor runners on blade (If applicable).
- Replace rubber scrapers around blade.
- Replace hydraulic oil in tank with recommend brands.
- Replace air filters/oil filters/fuel filters.

Please note, the components list can be found on the following pages. The use of genuine BMI spare parts is essential for a long and trouble free life; any variance from this will render **warranties invalid**.

If a BMI ejector trailer is out of operation for more than two months, all the above checks must be carried out, including the point below:

Carry out a road test before returning to full duties.

## 6.1 Hydraulic Maintenance

Before attempting any maintenance, please isolate the ejector trailer. Please ensure you have qualified technicians to carry out checks and required maintenance to BMI ejector trailers. The hydraulic system is an important aspect of the trailer as it operates the blade, tailgate and sheeter system. Please follow these checks when you are completing a weekly, monthly and yearly maintenance check. These checks also apply if you are having trouble with any of the hydraulic operated features of the trailer.

Ensure gate valve is fully opened at tank exit port.

All control levers are at the neutral position before starting the engine.

Check oil levels.

Ensure all connections are secure and there are no oil leaks.

Ensure the quick release couplings are fully engaged before operating the trailer. Note this only applies to PTO operated trailers.

Check the Suisse lead has been coupled up between the tractor unit and the trailer and the side lights are switched on.

Complete a system pressure / flow check. Please follow the instructions below.

Ensure the trailer is empty.

First, attach gauge lead to test point A (see picture on next page).

Fully extend the blade.

Maximum system pressure should read 150Bar / 2175 PSI

The blade should fully extend within three to three and half minutes.

Complete a retract pressure / flow check. Please follow the instructions below:

Ensure the trailer is empty.

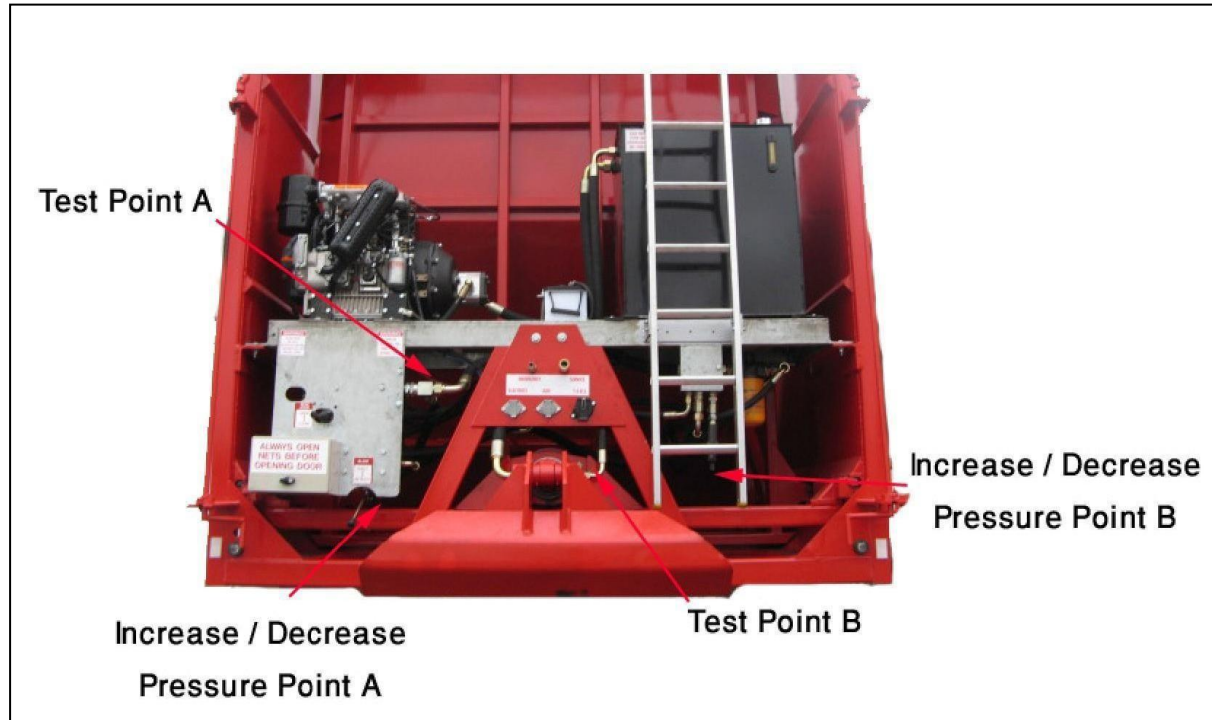
First, attach gauge lead to test point B (see picture on next page).

Fully retract the blade.

Maximum system pressure should read 140Bar / 2030 PSI

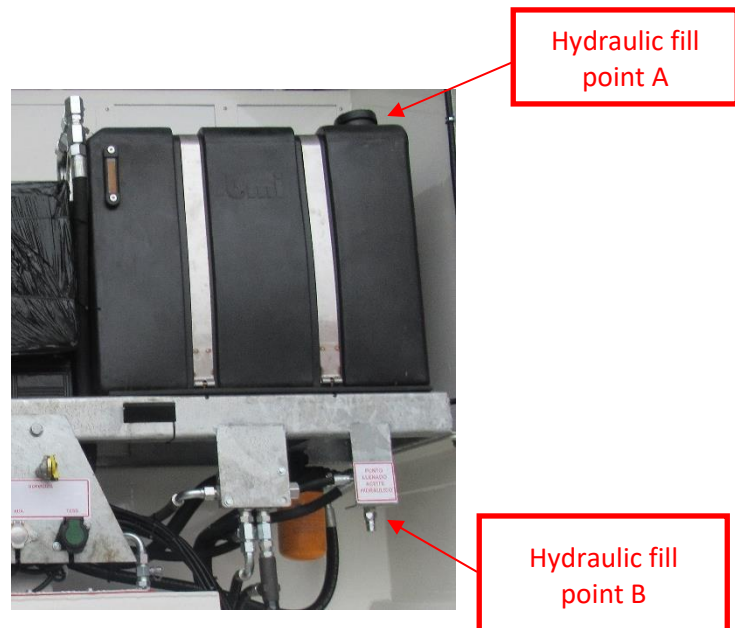
The blade should fully retract within one to one and half minutes.

If the BMI trailer that you are testing is not achieving the pressures or flow rates stated above please contact BMI Trailer Ltd immediately to receive advice to solve the issue. Under no circumstances should you adjust the pressure setting without receiving approval by BMI Trailers Ltd. **Failure to comply with this will result in voiding your warranty.**



## 6.2 Hydraulic Oil Refill Points

There are two locations where hydraulic oil can be inserted into the oil tank, at the top and bottom of the tank. The lower option allows the tank to be filled at ground level using a quick release coupling.





## 7.0 Engines General Maintenance

**These are general guidelines, for more detailed engine maintenance the engine manufacturer's manual should be followed.**

For each engine, the following should be carried out every **8 – 15 hours** of operation:

- Check the oil levels by removing the dipstick
- The air cleaner should be checked before starting the engine
- Check the combustion air intake

For each engine the following should be carried out every **250 hours** of operation:

- Engine oil change (use recommend brands)
- Clean fan, cooling fins and oil cooler
- Check the tightness of threaded connections
- Clean mesh from exhaust pipe
- Check for fuel contamination

For each engine the following should be carried out every **500 hours** of operation:

- Maintain the air cleaner
- Check and adjust the valve clearances
- Change the engine oil
- Change the oil filter

For each engine the following should be carried out every **1000 hours** of operation:

- Renew the fuel filter

## 8.0 Spare Parts List

Below is a list of components that are required to be replaced in order to maintain the BMI trailers warranty. Please refer to the warranty & claims procedure on how to complete any claims.

| Part number            | EJ Part list and description                                              |
|------------------------|---------------------------------------------------------------------------|
|                        |                                                                           |
| <b>Hydraulic parts</b> |                                                                           |
|                        |                                                                           |
| PN 0119                | 12VDC AIR SOLENOID VALVE KIT + AIR FITTINGS (per Pair)                    |
| PN 0120                | 24VDC AIR SOLENOID VALVE KIT + AIR FITTINGS (per Pair)                    |
| HY 1104                | 3/8" CONTROL VALVE SINGLE BANK                                            |
| HY 1106                | HOSE BURST V/V (RBXB-R3/8)                                                |
| HY 1107                | VARIABLE 3/8 FLOW RESTRICTOR (EG03RVR)                                    |
| HY 1108                | 3/8" SINGLE PILOT OPERATED CHECK VALVE (FPS3/8)                           |
| HY 0002                | 3/8" DA SPRING MONO CONTROL VALVE TRIPLE BANK                             |
| HY 0003                | 3/8" CONTROL VALVE DOUBLE BANK                                            |
| HY 0004                | 3/8" CONTROL VALVE DOUBLE BANK WITH ONE AIR SOLENOID                      |
| HY 0005                | 3/4 " MAIN CONTROL VALVE SOLENOID                                         |
| HY 0008                | FRONT MTD 3 BANK CONTROL VALVE(102N1PA12DDD)                              |
| HY 0010                | 3/8" CONTROL VALVE TRIPLE BANK WITH ONE AIR SOLENOID                      |
| HY 0014                | 3/8"CONTROL VALVE SINGLE BANK AIR SOLENOID                                |
| HY 0016                | 3/8" CONTROL VALVE DOUBLE BANK WITH TWO AIR SOLENOIDS                     |
| HY 0019                | 3/8" CONTROL VALVE TRIPLE BANK WITH THREE AIR SOLENOIDS                   |
| HY 1193                | FLOW CONTROL (VUR-3V)                                                     |
| HY 1702                | HIGH PRESSURE IN LINE FILTER (FMP0653A25AN)                               |
| HY 1704                | IN LINE RELIEF VALVE (SGRA06/G12)                                         |
| HY 4482                | 2" SUCTION FILTER (LSUSP102B32F2601)                                      |
| HW 0455                | 102 valve handle housing                                                  |
| HY 0021                | 102 VALVE HANDLE                                                          |
| HY 0029                | 25 MICRON SPIN ON ELEMENT FOR ABOVE FILTER                                |
| HY 0030                | 3/8 MONOBLOCK DIRECTIONAL CONTROL VALVE 2 LEVER 45L - 2nd SPOOL PNEUMATIC |
| HY 0031                | 3/8 MONOBLOCK DIRECTIONAL CONTROL VALVE 3 LEVER 45L - 3rd SPOOL PNEUMATIC |
| HY 0032                | 3/4 MONOBLOCK DIRECTIONAL CONTROL VALVE 1 LEVER 90L - DETENT, HPCO        |
| HY 0033                | 3/4 MONOBLOCK DIRECTIONAL CONTROL VALVE 1 LEVER 90L - PNEUMATIC, HPCO     |
| HY 0034                | 3/8 MONOBLOCK DIRECTIONAL CONTROL VALVE 1 LEVER 45L - PNEUMATIC           |
| HY 0035                | 3/4 SECTIONAL DIRECTIONAL CONTROL VALVE 1 LEVER - PNEUMATIC, HPCO         |
| HY 0036                | VARIABLE 3/8 FLOW RESTRICTOR - BARREL TYPE                                |
| HY 0037                | 3/4" IN LINE CHECK VALVE                                                  |
| HY 0038                | 3/8" BI-DIRECTIONAL FLOW CONTROL                                          |
| HY 0039                | 210 BAR PRESSURE FILTER + 25 MICRON ELEMENT - no by-pass                  |
| HY 0040                | REPLACEMENT 25 MICRON PRESSURE ELEMENT                                    |
| HY 0041                | 100mm LEVEL/TEMPERATURE GAUGE                                             |
| HY 0042                | IN LINE RELIEF VALVE                                                      |
| HY 0043                | 1 1/4" BSP SUCTION STRAINER - FLOW RATE 170L/MIN                          |
| HY 0045                | CHROME FILLER BREATHER CAP WITH 150mm WIRE BASKET                         |
| HY 0046                | 150 L/Min PRESSURE COMPENSATED FLOW REGULATOR COMBINED TYPE               |
| HY 0047                | 3/8" BSP HOSE BURST VALVE - ML/FML BODY                                   |
| HY 0048                | 3/8" BSP SINGLE ACTING PILOT CHECK VALVE                                  |
| HY 0049                | PLASTIC FILLER BREATHER CAP - NON SPILL                                   |
| PN 0035                | 3/4" BSP PNEUMATIC DIVERTOR VALVE                                         |
| EL 0060                | LIMIT SWITCH BODY                                                         |
| EL 0061                | LIMIT SWITCH HEAD                                                         |
| HY 4333                | POLYETHYLENE HYD. TANK (straps only)                                      |
| HY 4333                | POLYETHYLENE HYD. TANK made up complete                                   |
| HY 1482                | Dump Valve (1VRHS10R1PA03)                                                |
| HY 1700                | RETURN LINE FILTER C/W BY PASS                                            |
| HY 1701                | 25 Micron spin on filter (CH100A25A)                                      |

|                          |                                                  |
|--------------------------|--------------------------------------------------|
| HY 0050                  | 195mm HAND LEVER FOR GM08 SERIES VALVE           |
| HY 0051                  | 225mm HAND LEVER FOR GM16 SERIES VALVE           |
| HY 0052                  | FRONT CAP ASSY FOR GM08 SERIES VALVE             |
|                          |                                                  |
|                          |                                                  |
| <b>VM Engine</b>         |                                                  |
| SP 3000                  | Stop start solenoid for Vm (1.197.206)           |
| SP 0001                  | VM engine Key switch barrel (3.888.0258)         |
| SP 0002                  | VM engine Air filter (41132017f)                 |
| SP 0003                  | VM engine fan belt (465105381)                   |
| SP 0005                  | VM engine Wiring loom                            |
| SP 0013                  | VM Engine Fuel filter (45310054A)                |
| SP 0014                  | VM Engine Oil filter (41150031A)                 |
| SP 0015                  | VM Engine Fuel Cap                               |
| SP 0019                  | VM engine mounts                                 |
| SP 3015                  | VM engine Air filter housing 31132013            |
| SP 3030                  | VM engine oil filter housing 11150015A           |
| SP 3035                  | VM oil filler cap (11770001)                     |
| SP 3037                  | Gasket set for VM engine                         |
| SP 3038                  | VM exhaust (Original) 11062030                   |
| SP 3039                  | VM Manifold gasket (22022066)                    |
| SP 3040                  | Vm exhaust gasket (22022061)                     |
| SP 3044                  | VM cap Sun 3105 (41120047A)                      |
| SP 3045                  | VM sun 3105 (V belt)                             |
| SP 3058                  | VM Flywheel (90590123F)                          |
| SP 3073                  | VM top gasket kit 12032135                       |
| SP 3130                  | VM lift pump (1 518 0017)                        |
| SP 3132                  | O ring for VM lift pump (4 632 0251)             |
| HW 0095                  | 44cc gear pump For VM engine                     |
| SP 3004                  | Ring gear for Sun 2105                           |
|                          |                                                  |
| <b>Lombardini Engine</b> |                                                  |
|                          |                                                  |
| SP 0004                  | Lombardini engine Fuel cap ( 9043097 ) Screw     |
| SP 3005                  | Lombardini fuel cap (9043092) Twist              |
| SP 0008                  | Lombardini sileo engine fuel filter ( 21 75 143) |
| SP 0009                  | Lombardini sileo engine oil filter ( 21 75 104)  |
| SP 0010                  | Lombardini sileo engine Air filter ( 21 75 124)  |
| SP 0011                  | Lombardini Engine 11LD626 Fuel Filter ( 2175046) |
| SP 0012                  | Lombardini Engine 11LD626 Oil filter (2175040)   |
| HW 0022                  | SILEO 1600 ENGINE LDW1603SSILEO                  |
| HW 0023                  | LOMBARDINI ENGINE GSE25 11LD626-3                |
| HW 0059                  | 34cc Gear Pump HP1050                            |
| SP 3006                  | Lombardini fuel injector pump (659372)           |
| SP 3014                  | Lombardini sileo key panel (7245 459)            |
| SP 3015                  | VM engine Air filter housing 31132013            |
| SP 3022                  | Lombardini exhaust Silencer (5460353)            |
| SP 3017                  | Lombardini exhaust tail pipe (917018)            |
| SP 3018                  | Lombardini exhaust stud (6780171)                |
| SP 3019                  | Lombardini Exhaust nuts (3240163)                |
| SP 3024                  | Lombardini exhaust gusset (4500079)              |
| SP 3021                  | Lombardini key switch (7245417) 11LD626          |
| SP 3023                  | Lombardini Regulator (7362228)                   |
| HW 0120                  | Lombardini fuel tank small (8103021)             |
| HW 0452                  | Lombardini Alternator 1157518                    |
| HW 0454                  | Lombardini Fan belt(24403580)                    |
| SP 0034                  | Lombardini mechanical lift pump (6585139)        |
| SP 0035                  | Lombardini Starter motor (5840261)               |
| SP 3016                  | Lombardini exhaust Silencer (5460353)            |

|                           |                                               |
|---------------------------|-----------------------------------------------|
| SP 3020                   | Lombardini exhaust gusset (4500079)           |
| SP 3024                   | Gasket to suit lombardini exhaust (450079)    |
| SP 3041                   | Lombardini injector (6615104)                 |
| SP 3050                   | Lombardini stop-start solenoid(3586074)       |
| SP 3087                   | Lombardini dip stick 1400519                  |
| SP 3107                   | LOMBARDINI SILEO EXHAUST SILINER (5460624)    |
| SP 3110                   | PUSH ROD LOMBARDINI (1410053)                 |
| SP 3123                   | HEAD GASKET (4730 621 LOMBARDINI)             |
| SP 3150                   | LOMBARDINI SOLENOID (3587 105 )               |
|                           |                                               |
| <b>HATZ Engine</b>        |                                               |
|                           |                                               |
| HW 0020                   | ENGINE 4L41C (HATZ)                           |
| HW 0021                   | HATZ ENGINE 3L41C 12V                         |
| HW 0105                   | 30cc Gear Pump FOR HATZ ENGINE                |
| HW 0106                   | cast iron pump mounting plate FOR HATZ ENGINE |
| HW 0107                   | Pump Hub (13 tooth)FOR HATZ ENGINE            |
| HW 0108                   | Engine flange FOR HATZ ENGINE                 |
| SP 3019                   | HATZ ENGINE MOUNTS (01060100)                 |
| SP 3007                   | Hatz oil filter (40065301)                    |
| SP 3008                   | Hatz Air filter 00952900                      |
| SP 3009                   | Hatz Fuel filter (50251500)                   |
| SP 3010                   | Hatz pre fuel (50317000)                      |
| SP 3011                   | Hatz Fan Belt (50141501)                      |
| SP 3012                   | Hatz 1000 hour kit 3l (00991506)              |
| SP 3013                   | Hatz 1000 hour kit 4l (01203306)              |
| SP 3027                   | Hatz fuel cap (50385801)                      |
|                           |                                               |
| <b>Hydraulic half net</b> |                                               |
|                           |                                               |
| HW 0040                   | HYDRAULIC HALF NET (SHEETER SYSTEM)           |
| HW 0433                   | Front lid assy Hydraulic double flip 764      |
| HW 0056                   | Ladder assy (on special offer)                |
| SP 0040                   | H section for hydraulic sheeter systems       |
| HW 0436                   | Centre lid assy hydraulic double flip         |
| HW 0437                   | Rear lid assy hydraulic double flip           |
| HW 0044                   | Double hinge                                  |
| HW0438                    | Single hinge                                  |
| HW 0439                   | Actuator assy hydraulic double flip           |
| HW 0233                   | 1/2 NET (Bmi version 12500 long)              |
| HW 0010                   | Half Net Hydraulic double flip (original net) |
| HW 0440                   | Hydraulic Cylinder For Double flip            |
| HW 0052                   | ROLLER ASSEMBLY                               |
|                           |                                               |
| <b>Sidewinder</b>         |                                               |
|                           |                                               |
| HW 0041                   | SIDEWINDER kit                                |
| HW 0055                   | REAR LID ASSY hydraulic single flip           |
| HW 0045                   | Centre lid assy hydraulic single flip         |
| HW 0056                   | Ladder assy (on special offer)                |
| SP 0040                   | H section for hydraulic sheeter systems       |
| HW 0044                   | Double hinge                                  |
| HW0438                    | Single hinge                                  |
| HW 0058                   | Universal Lid Ext                             |
| HW 0441                   | Centre Lid Ext                                |
| HW 0054                   | Front Lid Assy                                |
| HW 0053                   | Actuator assy single flip                     |
| HW 0442                   | Wind deflector single flip                    |
| HW 0025                   | Full Nets black (Bmi version)                 |

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| HW 0422                          | Full Net Donovan (T1906) (only if in stock)                    |
| HW 0052                          | ROLLER ASSEMBLY                                                |
| <b>New Manual Half Net</b>       |                                                                |
| AW 15133                         | Nylon block                                                    |
| EJ 25695                         | Passenger side rear arm                                        |
| EJ 25705                         | Driver side rear arm                                           |
| EJ 25710                         | Passenger side front arm                                       |
| EJ 25715                         | Driver side front arm                                          |
| EJ 27092                         | GEAR BOX SIDE PLATE                                            |
| EJ 27094                         | GEAR BOX FRONT PLATE                                           |
| EJ 27095                         | GEAR BOX ATTACHMENT PLATE                                      |
| EJ 27096                         | GEAR BOX HOUSING GUSSET                                        |
| EJ 27097                         | GEAR BOX CHAIN TIGHTENING PLATE                                |
| EJ 27100                         | 40mm UCP208 BEARING MOUNT RHS                                  |
| EJ 27102                         | TOP BEARING GUARD                                              |
| EJ 27104                         | 40mm UCP208 BEARING MOUNT LHS                                  |
| EJ 27105                         | BEARING TOP REAR PLATE                                         |
| EJ 27192                         | 20mm BEARING HOLDER BOTTOM                                     |
| EJ 27193                         | 20mm BEARING HOLDER TOP                                        |
| FA 3216                          | M10 x 140mm EYE BOLT FULLY THREADED                            |
| HW 0112                          | UNIVERSAL JOINT 20/20                                          |
| HW 0113                          | UNIVERSAL JOINT 20/18                                          |
| HW 0114                          | 20mm FLANGE BEARING                                            |
| HW 0125                          | GEAR BOX DRIVER SIDE (HUCO- MODEL FCW, TYPE 70, RATIO 1:40,    |
| HW 0126                          | GEAR BOX PASSENGER SIDE (HUCO- MODEL FCW, TYPE 70, RATIO 1.40) |
| HW 0127                          | 40mm bearing                                                   |
| HW 0129                          | GEAR BOX CHAIN 5/8 (5M Box)                                    |
| HW 0133                          | GEAR BOX LARGE SPROCKET 20 TOOTH                               |
| HW 0134                          | GEAR BOX SMALL SPROCKET 14 TOOTH                               |
| HW 0233                          | 1/2 NET (Bmi version 11300 long)                               |
| HW 0375                          | D ring                                                         |
| HW 0428                          | 6mm Wire Rope per M                                            |
| HW 0429                          | 6mm Wire rope catches                                          |
|                                  | Chain guard                                                    |
| <b>Old manual half net parts</b> |                                                                |
| SP 0016                          | Renold gear box Blue (JPM22)                                   |
| SP 6001                          | Half coupling                                                  |
| SP 6000                          | Rubber star                                                    |
| <b>Sheeter protection</b>        |                                                                |
| EL 0060                          | Limit switch body (zkm1h29)                                    |
| EL 0061                          | Limit switch head (zkd08)                                      |
| EL 0062                          | 12 vdc coil and din plug (CCS012D)                             |
| HY 0001                          | N/O BI-Direct 30L 210bar (GS021600N)                           |
| HY 4256                          | Line body 3/8 BSP (LB10506A)                                   |
| <b>Chassis PARTS</b>             |                                                                |
| HW 0002                          | KING PIN (Complete                                             |
| HW 0001                          | King pin dome                                                  |
| HW 0006                          | BMI MUDFLAP WITH LOGO (CP18)                                   |
| HW 0051                          | SOLID STATE FUEL PUMP (40165)                                  |
| HW 0230                          | TLM/03 TANK LEVEL MONITOR                                      |
| HW 0135                          | JOST LANDING LEG SET E0201 (C/W ROCKER FEET)                   |

|                       |                                                    |
|-----------------------|----------------------------------------------------|
| HW 0281               | JOST LANDING LEG SET E0501 (C/W ELEPHANT FEET)     |
| HW 0136/37            | TTC LANDING LEG SET                                |
| HW 0156               | TOOLBOX (only) 800mm 40086                         |
| HW 0187               | TOOLBOX FITTINGS FOR JBX80 40090                   |
| HW 0153               | AIR WEIGH SYSTEM TRAILER SCALE W/ EXTRA LONG CABLE |
| HW 0110               | EBS KIT FOR TRAILER KB933G2                        |
| HW 0099               | SAREL BOX ELSTEEL ENCLOSURE 300X200X150            |
| HW 0164               | DIGITAL HOUR METER                                 |
| HW 0165               | 250 BAR PRESSURE GAUGE                             |
|                       |                                                    |
| <b>BODY PARTS</b>     |                                                    |
|                       |                                                    |
| HW 0012               | TOP SECTION LADDER CLA3OD                          |
| HW 0184               | 3 STEP LADDER 40275                                |
| HW 0030               | EJECTOR RAM (222 6 Stage)                          |
| EJ 20110              | DOOR RAM                                           |
|                       |                                                    |
| <b>SIDE RAIL KIT</b>  |                                                    |
|                       |                                                    |
| HW 0015               | Hinged sideguard leg                               |
| HW 0016               | Aluminium rail                                     |
| HW 0019               | End cap kit                                        |
|                       |                                                    |
| <b>Lift axle kit</b>  |                                                    |
|                       |                                                    |
| HW 0140               | AUTO DROP (AR20-K)                                 |
| HW 0142               | LIFT AXLE VALVE K008546                            |
| EJ 25161              | Airbag                                             |
|                       |                                                    |
| <b>Lights</b>         |                                                    |
|                       |                                                    |
| EL 0031               | Rear combination lamp R/H                          |
| EL 0032               | Rear combination lamp L/H                          |
| EL 0034               | Junction Box                                       |
| EL 0053               | Rear Marker Lamp                                   |
| EL 0052               | Front Marker Lamp                                  |
| EL 0054               | LED Side Light w/ bracket                          |
| EL 0076               | Front side LED Marker lamp                         |
| EL 0063               | LED Number Plate Lamp                              |
| EL 0038               | Socket Type 24N (Normal)                           |
| EL 0039               | Socket Type 24S (Supplementary)                    |
| DC 0305               | ECE70 Marker Board 565x195mm                       |
| HW 0185               | Euro Number Plate Catches                          |
| EL 0043               | Clear Adhesive Reflector                           |
| EL 0041               | JUNCTION BOX                                       |
| EL 0065               | LED HELLA HAMBURGER LIGHT                          |
| EL 0138               | HELLA BULB HAMBURGER LIGHT                         |
| EL 0139               | HELLA BULB REVERSE LIGHT                           |
| EL 0222               | HELLA BULB FOG LIGHT                               |
| EL 0080               | REFLECTIVE TRIANGLE                                |
|                       |                                                    |
| <b>SAF Axle Parts</b> |                                                    |
|                       |                                                    |
| SP 0051               | Saf Disc break 4079001302                          |
| SP 0052               | Saf break Calliper (3080005100) LH                 |
| SP 0053               | Saf break Calliper (3080005000) RH                 |
| SP 0054               | Safbreak pads (3057008400)                         |
| SP 0073               | Saf bush (RGA032178) copy                          |
| SO 0074               | SHOCK SAF (2376007302)                             |



|         |                                                       |
|---------|-------------------------------------------------------|
| SP 0075 | SBS SAF BRAKE PAD SET (20.3.057.0096.00)              |
| SP 0076 | BEARING KIT FOR 33073045+3056 (20.3.434.3020.00)      |
| SP 0077 | BRAKE DISC B9 SERIES 430mm (20.4.079.0017.01)         |
| SP 0078 | 4079001700 FIXING KIT (20.3.434.3663.00)              |
| SP 0079 | SBS SAF CALIPER R/H INC BOLTS (20.3.302.1157.00)      |
| SP 0080 | SBS SAF CALIPER L/H INC BOLTS(20.3.080.0081.00)       |
| SP 0081 | DUST SHIELD ASSY SNK 420 (20.3.005.0173.00)           |
| SP 0082 | BRAKE DRUM 420X180 INTRADRUM (20.1.064.0260.02)       |
| SP 0083 | BEARING KIT 3.307.3043.00 (20.3.434.3019.00)          |
| SP 0084 | o-ring-integral hub cap (20.4.315.0082.00)            |
| SP 0085 | S9 4218 BRAKE REPAIR SOLOUTION KIT (20.S9-4218-KT)    |
| SP 0086 | CAMSHAFT BEARING ASSY REPAIR KIT (20.3.434.3652.00)   |
| SP 0096 | saf shock absorber 450 r/h                            |
| SP 0102 | SAF CHAMBER 16/24 DOUBLE DIAPHRAGM (20.4.454.1077.64) |
| SP 0105 | SAF AIR BAG 20.3.229.0029.00                          |
| SP 0112 | USED SAF AXLES 2090mm                                 |

## 9.0 Warranty and Claims Procedure

Every care and attention is taken in the production of your trailer/chassis, however, should you feel that a claim on warranty should be made, please contact BMI Trailers without delay quoting the serial number stamped on the manufacturer's plate.

We cannot act on your claim without this number.

### Basic Guidelines to making a Claim

Customers are to report any issues they may be having to their regional sales managers, either by telephone or email message. This is to ensure the repair/replacement is processed in a timely manner. However, this **MUST** be followed up, **in writing** to the sales manager, with a detailed description of the fault/failure, including photographs (where applicable). Bmi cannot guarantee full or part payment of invoice(s) for labour or materials, without prior agreement and arrangement with our Warranty Department.

The Sales Manager must fill out a customer complaint form with these details, and forward this and any related emails from the customer to the Service Department. Sales Managers must ensure that correct contact details are included within this report.

Our Service department will then liaise with the customer and ascertain whether a repair or replacement parts are required. If a repair is necessary, the customer will be allocated a service agent or a booking appointment within the nearest bmi Service Depot will be organised to get the issue resolved.

Alternatively, if a replacement part is required, these will be dispatched directly.

All jobs must be signed off by either bmi Service or our approved service agents. They will carry out a full investigation, and if it is deemed valuable for future projects, a report may be compiled with details of the issue, and subsequent resolution. The report will also include details on any warranty claim if applicable. Please note, any claims on parts can only be granted if the defective part is returned to one of the bmi Depots.

At this point, an invoice will be raised for the claim. If the issue is deemed to be covered by warranty, the invoice will be forwarded on internally to bmi Account Dept. However, if it is found that the issue has arisen due to customer fault, the invoice will be forwarded onto the customer for payment. Please note that a customer making a claim on an assumed defective component may be liable for the full cost of testing the components (including carriage) if, on inspection it is found to be functioning correctly.

All reports will be discussed and evaluated during monthly review meetings, where preventative planning will be put in place where necessary.

## **Specific Warranty Notes**

### **Braking Pre-Dominance**

The braking system fitted to the trailer conforms to the current legislation and is based on braking calculations which are designed to produce the braking performance currently required by EE directive.

However, due to the numerous variations in tractor unit braking system designs and their effects on the braking performance of the vehicle combination as a whole, The bmi Group cannot be held responsible for any incompatibility between the two vehicles.

Any customer experiencing 'Over braking' or 'Under braking' on the trailer should include a pre-dominance check in their inspection of the system.

### **Axle Alignment**

At the time of manufacture, the axle alignment is carried out in accordance with the procedures laid down by the suspension manufacturers. It must therefore be noted that before releasing the trailer we have set the axle alignment correctly and any subsequent adjustment is not covered under our warranty policy.

## 10. Customer Acceptance Form

I \_\_\_\_\_ confirm that the 'operating and safety instructions manual' is fully understood and that all operatives of the trailer have been explained correctly on the operating requirements as detailed in this manual and health and safety aspects of the trailer before it went into operation.

Company:

Telephone No:

Date trailer went into service:

Trailer Fleet Number:

Trailer chassis number:

## 11.0 Trouble Shooting

Please refer to the section which relates to the area with which you are having trouble.

### *Half Net manual system*

If the half net system is not opening, please carry out the following checks:

- Check chain tension
- Check sprocket is not damaged
- Check gearbox operation
- Check if system is fully lubricated.

### *Hydraulic Half Net / Full Net System*

If the hydraulic net system is not opening, please carry out the following checks:

- Check hinge assemblies are lubricated or damaged
- Check for oil leaks on the hydraulic pipes
- Check for damage on the sheeter arms

### *Tailgate*

If the tailgate is not opening, please complete the following checks:

- Ensure the sheeter system is fully opened
- Ensure there is nothing obstructing the door hinges
- Check the adjustment of the flow control valve on the engine skid. (See picture).
- The door should open/close in approximately 25 to 30 seconds.

### *Blade*

If the blade is not extending, please complete the following checks:

- Ensure there is nothing obstructing the blade movement on the floor or side channels
- Refer to the hydraulic maintenance section. Complete the checks.
- Refer to the operation of the blade in section 4.6.

If the problem still persists, please contact The bmi Group for further assistance. Please note that under no circumstances should you attempt to adjust the pressure setting without receiving approval by The bmi Group.

**Failure to apply to this will result in voiding your warranty.**

NOTES