

# Instruction Manual



***BUILT STRONGER TO LAST LONGER***



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## 2 Introduction

The instructions contained within this handbook are provided to enable the user to achieve the best possible safe service from the trailer. Following the advice and maintenance schedules specified in this user manual will ensure your trailer will give many years of safe and reliable service.

JPM Trailers strongly advise that this user manual is read and clearly understood by any user of this trailer. If in any doubt about the procedures, specifications or any other matter relating to your trailer please contact your local Dealer or JPM Trailers directly.

IF IN DOUBT – Contact your supplier or JPM Trailers

JPM Trailers makes every effort to ensure that this manual is as accurate as possible, however, due to ongoing development we reserve the right to alter the specification. The latest version of this manual is always available in English and other languages by visiting;



[www.jpmltrailers.com](http://www.jpmltrailers.com)



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### 3 Health and Safety



#### 3.1 Symbols & Labels

##### 3.1.1 Symbols Used In This Manual

	Safety Glasses		Warning
	Safety shoes		Danger of Crushing
	Protective Gloves		Risk of Falling
	Hard Hat		No Pedestrians
	Attention		Do not touch

##### 3.1.2 Labels Used on JPM Trailers

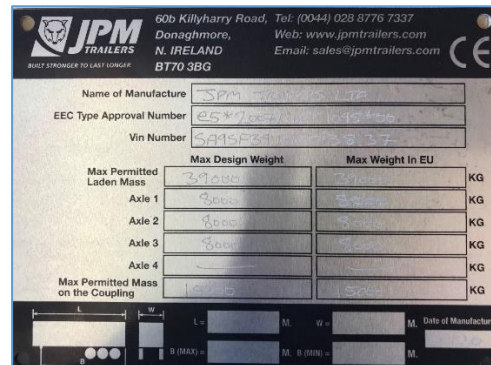
 <b>DANGER</b> KEEP CLEAR OF UNPROPPED BODY
 <b>DANGER</b>  Keep clear of door crush point
 <b>WARNING</b>  Prop door securely before carrying out maintenance

 <b>GREASE DAILY</b>
<b>CHECK WHEEL NUTS REGULARLY</b>
 <b>Warning! Keep Clear Of Ramps</b>

 <b>ATTENTION</b> 
<ul style="list-style-type: none"><li>● Check &amp; tighten all U-bolts &amp; spring bolts reg</li><li>● Check &amp; tighten all wheel nuts daily</li><li>● Grease all grease nipples weekly</li><li>● Visually check ALL hydraulic hoses daily DO NOT use trailer if any hoses are damaged Replace any damaged hoses immediately</li><li>● Check tyre pressure weekly 385 R22.5 8.5 BAR 215 R17.5 8.5 BAR</li></ul>

### 3.1.3 Chassis Plate

The dimensions and capacities of your trailer are listed on the chassis plate attached to your trailer.



### 3.1.4 License plate

Always display a licence plate on the rear of trailer if required by legislation in the country of use.

### 3.2 Asbestos



All JPM Trailers employ Asbestos Free friction material.

When servicing a used axle, take care Asbestos might be present in brake linings. Always assume that Asbestos could be present and take appropriate steps to ensure safety

### 3.3 Minimum Personnel Protective Equipment (PPE)

The minimum PPE to be worn when operating or maintaining your trailer;



Safety Glasses



Protective Gloves



Safety shoes



Hard Hat

### 3.4 Vehicle Damage

All vehicle damage must be repaired by a qualified professional and reported to JPM Trailers Ltd. Failure to do so may invalidate any warranty claim.

Your supplier or JPM trailers can advise on suitably qualified workshops.

### 3.5 Propping

If working below;

- Tipped body
- Jacked up axle
- Open rear door

Always use a suitably rated prop, following the prop manufacturer's instruction to securely support the component.

IF IN DOUBT – Contact your supplier or JPM Trailers



## 4 Operating Instructions

### 4.1 Operating Safety Guidelines

#### ALWAYS

- Use the recommended minimum PPE
- Conduct a risk assessment before commencing any operation
- Operate your tow vehicle & trailer safely
- Operate within the height, weight & speed limits
- Park trailer on level ground with handbrake applied
- Check all hoses & cables are connected before moving off
- Check brakes, lights & hydraulics are leak free & working properly
- Follow your own Health and Safety systems
- Make regular checks on vehicle, trailer and load throughout your journey

#### NEVER

- Operate your tractor & trailer without proper training
- Operate your tow vehicle & trailer without reading the user manual for both
- Allow anyone to stand near a trailer when tipping
- Work under an unpropped body or axle
- Leave an un-propped body or axle unattended
- Exceed the maximum capacities shown on the trailer plate
- Exceed the capacities for your tow vehicle
- Exceed the towing speed for your vehicle or trailer, whichever is lower
- Unhitch a loaded trailer unless in an emergency

IF IN DOUBT – Contact your supplier or JPM Trailers

The capacities shown in the column Max weight in EU must never be exceeded.

Do not exceed the lesser of;

- max coupling load of the trailer
- towing vehicle max coupling load

### 4.2 Towing Vehicle

It is important that the tow vehicle is suitable for your trailer

- The towing vehicle must have a suitable drop hitch for coupling to your trailer
- The mass of the trailer and load must not exceed the vehicles towing capacity specified by the manufacturer

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- The vehicle power is sufficient to tow the trailer and load.
- The vehicle braking power is sufficient to stop the vehicle and loaded trailer safely.



**Always ensure your tow vehicle is suitable for the trailer and the load being transported.**

#### 4.2.1 Towing Vehicle Connectors

- Drop Hitch
- 1 x 7 Pin Electrical Connector
- 1 x brake quick connector ISO 5676
- Min. 1 x hydraulic spool quick connector ISO 7241 A



If your towing vehicle has an air brake facility then your JPM trailer can be equipped to operate with your system

#### 4.3 Delivery Checks

Upon receipt of your trailer the following checks must be made prior to commencing use.

Visually check over trailer for any general defects or missing components e.g. paintwork damage which may have occurred during delivery. Should you note anything immediately contact JPM Trailers Ltd. Failure to do so may invalidate any warranty claim.

With reference to your towing vehicle user instructions and section 4 below;

1. Couple the trailer to your towing vehicle
2. Connect the trailer 7pin electrical socket to your vehicle
3. Connect the hydraulic/air hoses to your towing vehicle
4. Carry out a daily check and a weekly check as detailed in section 0
5. Ensure you are confident operating the trailer on your tow vehicle before operating the trailer loaded.



**Familiarise yourself with the trailer operation in a safe environment and unloaded before attempting to transport any load.**

#### 4.4 Coupling Instruction

1. Ensure trailer is on level, stable ground
2. Make sure the trailer handbrake is fully applied
3. Check the pressure of each tyre is correct
4. Check each wheel rim and tyre for damage
5. Check the torque of each wheel nut
6. Check trailer for any damage or missing components
7. Check the tow vehicle hitch operation & condition



8. Only couple trailer to an appropriate tow hitch



Ensure all pedestrians are kept clear of the trailer and tow vehicle

9. Couple trailer to the hitch as per the tow vehicle manufacturer's instruction.

10. Apply the vehicle handbrake, turn off engine and remove ignition key

11. Connect the trailer hoses and cables to the tow vehicle

12. If the trailer is fitted with air and hydraulic brakes only connect one brake system or the other. Connecting both systems at the same time will damage the brakes.

13. Return to the tow vehicle and start the engine, DO NOT! release the park brake

14. Operate the trailer brakes and check for correct function.

15. Have a suitably qualified person adjust if necessary.

16. Operate all the lights and check for correct function



Do not touch a leaking air or hydraulic pipe



**Air and Hydraulic systems are under high pressure and could cause injury**

17. Operate hydraulics e.g. ramps, tipping body and again check for leaks

18. Check around the trailer for any air or oil leaks

19. If any leaks are observed have repaired by a suitably qualified person

20. Check the vehicle will not foul any part of the trailer during manoeuvring tow vehicle

21. When satisfied, release the trailer handbrake

22. Return to the tow vehicle and release the handbrake when ready to move off

23. Uncoupling is a reverse of the coupling procedure

#### 4.5 Loading & Unloading

##### ALWAYS

- Use the recommended minimum PPE
- Engage tow vehicle handbrake before loading / unloading
- Ensure that tractor and trailer are parked on solid, level ground
- Always be aware of overhead hazards when loading, unloading or tipping trailer
- Distribute load evenly
- Refer to the vehicle & trailer chassis plates for maximum loading capacity

##### NEVER

- Allow pedestrians near the rear of the trailer when unloading or reversing
- Exceed the point or distributed load capacity of ramps

- Shore/prop up ramps
- Never use a damaged ramp or with debris on surface
- Load equipment with wheels or tracks wider than the width of the loading ramp

#### 4.5.1 Hydraulic/ Sprung Ramps

1. Inspect ramps for debris or damage
2. Remove the ramp securing method e.g. chain, strap, pin
3. Ensure no object could contact with ramps during lowering



Ensure all pedestrians are kept clear of the trailer and tow vehicle

4. If sprung ramp carefully lower each ramp
5. If Hydraulic ramp, enter tow vehicle and operate hydraulics to lower ramps
6. Observe ramps release one at a time.
7. Observe for pedestrians, obstacles or other hazards
8. Check the ramp gradient is less than 30% (16.5 degrees)
9. Ensure the ramps are on level solid ground before loading/unloading
10. Securely restrain the load being carried
11. Check ramps have been raised and secured with chain, pin etc. for transport

#### 4.5.2 Manual Ramps



Ramps must be fixed to the trailer before loading/unloading

Ensure ramps are secured to the trailer by one of the fixation system below:

- By provided clamps sticking it through the loading side and the truck parapet turned down
- By pin provided (using the hole provided on the ramp's head)
- By a chain (using the ring provided under the ramp)

#### 4.5.3 Loading Excavators

- Accelerate slowly and maintain a slow, steady speed
- Place excavator's arm on the ground between the ramps and use the arm to lower/raise the machine gently to aid loading
- Ensure tipping body is fully lowered before loading/unloading
- Never allow the excavator to 'rock' over the trailer edge and hit ramps
- Never Brake or turn sharply whilst on the ramps

#### 4.5.4 Tipping Body

1. Always park the trailer and tow vehicle in alignment before commencing tipping operation
2. Ensure the trailer is level across the axle
3. Apply the tow vehicle handbrake



Ensure all pedestrians are kept clear of the trailer and tow vehicle

4. Open the trailer rear door



Never tip a trailer body with the rear door closed

5. Open spool valve slowly and observe the body rising
6. Ensure the trailer remains level across the axle during the tipping operation
7. Observe for pedestrians or other hazards i.e. powerlines, roof trusses etc.
8. Maintain a controlled tipping speed of the trailer body especially as the last ram stage is engaged



The load may suddenly shift during tipping.

9. Stop raising the trailer body and allow the load to settle before continuing
10. Drive forward slowly to ensure trailer is empty then stop



Never enter or allow anyone to climb a tipped trailer body



Do not leave a tipped trailer body unpropped

11. Apply vehicle handbrake and lower trailer body fully
12. Close trailer rear door



Exercise extreme care when clearing obstructions from rear door or trailer body

#### 4.5.5 Wading/ Water Submersion

The sudden cooling affect could cause water and dirt to enter the bearing and cause premature wear.



Do not allow warm hubs to become submerged in water

## 5 Maintenance & Inspection

### 5.1 Safety Guidelines

#### **ALWAYS**

- Use genuine JPM Trailers components
- Use suitable tools for the job
- Work in good, safe working conditions
- Wear minimum PPE listed above
- Allow components to cool after use before touching

#### **NEVER**

- Work under an unpropped body or axle
- Leave an un-propped body or axle unattended
- Work without supervision

### 5.2 Vehicle Maintenance & Repairs

All trailer inspection, maintenance and repairs must be carried out by a qualified professional. Your supplier or JPM trailers can advise on suitably qualified workshops in your area.

If your trailer sustains serious damage, i.e. involved in an accident you must report this to JPM Trailers Ltd. They can advise on the suitability of repair and supply original replacement parts. Failure to do so may invalidate any warranty claim.

### 5.3 Specifications

Refer to the axle manufacturer's instruction for all specifications regarding components relating to;

- Axles
- Wheels
- brakes
- suspension

e.g. nut tightening torques, greasing points, grease grade

## 5.4 Axle Manufacturer Maintenance Information

### 5.4.1 ADR Axles

[www.adraxles.com](http://www.adraxles.com)

[ADR Axle Maintenance Manual](#)



### 5.4.2 Granning Axles

[www.granningaxles.ie](http://www.granningaxles.ie)

[Granning Axles Maintenance Manual](#)



IF IN DOUBT – Contact your supplier or JPM Trailers

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## 5.5 Maintenance & Inspection Checks

### 5.5.1 Daily Checks

1. Check the tyre pressure of each wheel
2. Check the each wheel rim and tyre for damage
3. Check the torque of each wheel nut
4. Operate the trailer brakes and check for correct function
5. Have a suitably qualified person adjust if necessary
6. Operate all the lights and check for correct function
7. Check trailer for any air or oil leaks
8. Have a suitably qualified person repair if necessary
9. Check the condition of drawbar eye, springs, bolts;
  - cracks
  - dents
  - corrosion
10. Grease all pivot points;
  - Hydraulic Rams
  - Tipping body
  - Suspension
  - Handbrake ratchet
  - Coupling eye
12. Drain water from air tank



**Coupling eye must only be replaced with a ring of the correct specification**

### 5.5.2 Weekly Checks

1. Grease the brake linkages and actuators
2. Operate tipping function (if applicable) and check for correct operation
3. Operate the loading ramps (if applicable) and check for correct operation
4. Torque suspension U bolts
5. Inspect the chassis structure – welds, fixing points for wear, corrosion and cracks
6. Check all hub caps are present

### 5.5.3 Annual Checks

Remove and inspect the tipping body/ramp pivot pins, and ram bolts for condition. Replace if necessary

IF IN DOUBT – Contact your supplier or JPM Trailers

## 5.6 Brakes

### 5.6.1 Brake Lining

All brake linings fitted to JPM Trailers employ Asbestos free friction material. These should be checked every 3 months and replaced before they reach the wear limit.

When servicing any used axle, assume Asbestos could be present in brake linings and take appropriate steps to ensure safety.



**Breathing Asbestos can be harmful to your health**



**BRAKE LININGS Must BE REPLACED AS A COMPLETE AXLE SET**

Once new lining have been fitted, braking performance will be reduced until the new lining have 'bedded in'.

### 5.6.2 HYDRAULIC/AIR BRAKE ADJUSTMENT

All JPM Trailers are supplied with brake systems compatible with either air or hydraulic brake systems. Due to normal wear the brake system must be adjusted to maintain the trailers braking capability.

This is done by adjusting the brake chamber rod length in accordance with the braking manufacturer's instruction.

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**Brake adjustment must only be performed by a suitably qualified person**



**Never change the position of the brake rod clevis on the brake lever**

### 5.6.3 Anti-Lock Braking (ABS)

After any brake adjustment or hub removal i.e. bearing replacement it is important that the ABS braking system operation is checked by a qualified person.

## 5.7 Bearing Adjustment

Check the end float of the wheel bearings and adjust if required following the axle manufacturers instruction.



**Prevent Dirt entering the hub**

Ensure the hub remains clean to prevent premature bearing failure.

## 5.8 Tyre Inspection

The same laws apply to trailers as apply to vehicles, so ensure that there is sufficient tread to last until the next service, i.e. Minimum 1.6 mm tread depth across three quarters of the outer tyre face for the whole circumference.



**Damaged Tyres may have sharp objects or edges**



**Wear Protective gloves when handling wheels tyres**

Check for;

- Cuts, bulges, valve damage or any other damage to the tyre or wheel rim.
- Foreign objects or protruding carcass wire
- Uneven tyre wear
- Correct tyre pressures

### 5.8.1 Tyre Pressure

All tyre pressures must lie within the tyre manufacturer's recommended pressure range for the particular tyre fitted.

All punctures or damage must be inspected and repaired by a specialist tyre distributor.



Do not fit tubes to tubeless tyres

### 5.9 Washing

Regular cleaning of your trailer is advised to;

- Aid inspection of components
- Prevent premature component failure
- Maintain the appearance of the trailer

Care should be shown when using pressure washing equipment as this may result in damage to the protective paintwork. Avoid detergents with a high caustic content.

### 5.10 Laying Up For an Extended Period

When parking the trailer for a long period it is advised to chock the wheels and release the handbrake to avoid the brake shoes adhering to the brake drum surface.

The axle should be propped to raise the tyres from the ground to prevent flat spots and reduce the risk of the sidewall cracking.

Clean dirt from trailer and touch up any damaged paint.

Rain water should not be allowed to gather in the trailer body.

Grease should be applied to all pivot points.

Protect the hydraulic, air and electrical connectors

### 5.11 Security Precautions

The trailer's VIN Number is stamped on the chassis and on the chassis plate. You should keep a record of the VIN for identification when ordering spare parts or in the unfortunate event that the trailer is stolen.

Examples of additional precautions to prevent theft are;

- A Coupling lock
- Marking the chassis with the owner's personnel ID

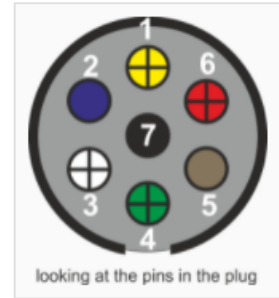
### 5.12 Trailer Light Socket Wiring

JPM trailers are supplied with a wiring ISO 1724:2003 connector (12N 7 Pin)



## 12N WIRING CODE

Pin Number	Wire Colour	Function
1	Yellow	Left indicator
2	Blue	Fog lights
3	White	Earth
4	Green	Right indicator
5	Brown	Side light
6	Red	Brake lights
7	Black	Side light



If your tow vehicle is equipped with ISO 11446 (Euro 13 pin) connector an adapter to convert from 13 pin to 7 pin is required to operate your trailer lights.

## 6 Spare Parts

To ensure the continued safe and efficient operation of your trailer only the correct replacement parts should be fitted. These can be supplied by your dealer or JPM Trailers directly.

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+44 (0)2887767337

[www.ipmtrailers.com/spare-parts/](http://www.ipmtrailers.com/spare-parts/)





## 8 Approvals

ZERTIFIKAT ♦ CERTIFICATE ♦ CERTIFICADO ♦ CERTIFICAT

**CERTIFICATE**  
No. Z1 10 05 35513 005

  
Product Service

**Holder of Certificate:** **DI.MA. s.r.l.**  
Viale Lazio 4  
20009 Rozzano (MI)  
ITALY



**Certification Mark:**



**Product:** **Loading rails  
(Loading ramps with and without borders)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition the certification holder must not transfer the certificate to third parties. See also notes overleaf.

Test report no.: MEC 03064.03

Valid until: 2015-05-24

Date: 2010-06-04  
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(Detlef Wolff-Kammer)



TUV SUD Product Service GmbH - Zertifizierstelle - Robertstrasse 85 - 80339 München - Germany

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## 9 Warranty

### 9.1 Registration

Fill out the registration form attached and return to JPM within 14 days of purchase. Failure to do so will invalidate the trailers warranty.

### 9.2 Terms & Conditions

Subject to hereunder provided, the Sellers undertake to correct either by repair, or at their election, by replacement, any defect of material or workmanship which in any of its goods within twelve months after delivery of such goods to a first user, with the exception of contractors or commercial users when warranty period is six months.

The term 'goods' when used in this document means the article or articles described in invoice as sold by the Sellers but does not include equipment or proprietary parts or accessories not manufactured by the Sellers. The Sellers, however, undertake to pass on so far as they legally can, to the first user the benefit of any warranty given to the Sellers by the suppliers of such equipment, parts or accessories.

The understanding shall not apply to:

- Any goods, which have not been sold by the first user.
- Any goods which have been damaged by unfair wear and tear, neglect and improper use.
- Any goods the identification marks of which have been altered or removed.
- Any goods which have not received the basic normal maintenance such as tightening or proper adjustment of fittings and normal lubrication.
- Any goods which have been altered or repaired other than on instruction or with having written approval by the Sellers.
- Any second-hand goods or part thereof.

Any allegedly defective part or parts returned to the Sellers must be sent carriage paid. No claim for repair or replacement will be entertained unless, upon discovery of the alleged defect, written notification is sent to the Sellers giving, at the same time, the name of the Buyer from whom the goods were purchased and the date of purchase together with full details of the alleged defect and the circumstances involved, also the serial number of the trailer etc.

The Sellers shall be under no liability to their Buyers and first and subsequent users of their goods or to any other persons for loss or damages howsoever arising out of, or in any way connected with or arising from the manufacture, sale, handling, repair, maintenance, replacement or use of its goods or the failure of malfunction of any of its goods.

Representation and / or warranties made by any person (including Buyers and employees and other representatives of the Sellers) which are inconsistent or conflicting with these conditions are not bonding upon the Sellers unless given in writing and signed by a Director of the Sellers

### 9.3 Making a Warranty Claim

If you wish to make a claim under warranty;

- Immediately, stop using the trailer.
- List the details of the trailer and damaged items.
- Consult with your supplier. They will contact JPM regarding your claim and advise on the action to be taken.



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# Registration Form

Trailer Model : .....

Serial Number:.....

Name of customer : .....

Address : .....

.....

.....

.....

Phone number : .....

Date purchased : .....

Dealer : .....

Date of purchase : .....

I have received full instructions on how to safely use and service the above equipment and have received the owners manual.

Signature : .....

Failure to complete and return this form in 14 days , or alteration ore falsification of any part thereof will nullify any contractual obligations JPM Trailers LTD have in respect of the equipment supplied .