



Bale/Low Loader Trailers

OPERATING & SAFETY INSTRUCTIONS

For all spare parts please visit:

www.marshall-trailers.co.uk

For all trailer models please contact:

Charles J. Marshall (Aberdeen) Ltd
Chapel Works, Bucksburn, Aberdeen AB21 9TL

Telephone: 01224 722777

Email: admin@marshall-trailers.co.uk

Website: www.marshall-trailers.co.uk





EC Declaration of Conformity

Charles J. Marshall (Aberdeen) Ltd of
Chapel Works, Bucksburn, Aberdeen, AB21 9TL United Kingdom

Declares that the product:

Make: Charles J. Marshall (Aberdeen) Ltd

Type: Marshall Trailer

Model:

Serial No:

Conforms to the essential health & safety requirements of 98/37/EC
as amended by 2006/42/EC directive.

Place of Issue: Chapel Works, Bucksburn, Aberdeen, AB21 9TL United Kingdom

**Name & Title of
Authorised Person:**

Charles R. Marshall Managing Director

Date:

We enclose our instructions for the safe operation of this machine,
the working of which is fully understood by the undersigned

Customer Signature:

Date:



SAFETY INSTRUCTIONS

IMPORTANT SAFETY ADVICE:

STOP. THINK. CALL 01224 722777

Safety First: Please read and fully understand the contents of this instruction manual, if you are in any doubt whatsoever about the safe operation of this machine, please contact Charles J. Marshall (Aberdeen) Ltd on Tel. 01224 722777.

1. Always ensure that no one is on or around the chassis or body during tilting operations.
DO NOT ENTER THE DANGER AREA FOR ANY REASON.
2. Always apply the parking brake when the trailer is to be left unhitched from the tractor.
3. If using a retrofitted rear tow hitch, please be aware this is only designed for towing a second trailer empty. Please also note that the rear tow hitch is not designed as a towing-out point, designated rear towing-out points can be found on the back of the chassis members.
4. Ensure to NEVER overload the bed of the trailer. The rating of bale trailers is as follows.

BC-21	BC-25-10T	BC-25-12T	BC-28	BC-32-TAN	BC-32-TRI	BC-36-TAN	BC-36-TRI
10T	10T	12T	14T	14T	16T	16T	16T

Our two low-loader trailers are rated as follows.

LL-26-TAN	16T
LL-33-TRI	21T



MAINTENANCE INSTRUCTIONS

1. Check all hydraulic hoses for chaffing, signs of wear and perishing.
2. Hinge Points shall wear, causing serious damage and posing an obvious safety problem. Pins should be removed and checked annually. Replace as necessary, not forgetting ram bolts.
3. Hubs / Bearings must be greased regularly; we recommend they are checked after the first fourteen days of work, then six monthly thereafter.
4. U-bolts & spring-locating bolts should be checked every eight hours for the first week of operation and then monthly thereafter.
Castle nuts should be checked after the first forty hours of work, then six monthly thereafter.
5. Tyre condition and pressure should be checked regularly (See page 6).
6. Wheel nuts should be checked when the machine is new, then after operating for one hour, then one day and weekly thereafter. The same procedure applies if nuts have been removed and replaced (18mm stud diameter = 270Nm / 22mm stud diameter = 475Nm).
7. Check the tow hitch for wear and replace it accordingly.
8. Check all chassis securing points and lashing points to ensure their strength for signs of wear or cracking.
9. Lights should be kept clean and if not in use for some length of time, coating with some form of oil spray is recommended.
10. On tandem/tridem axle trailers, springs/rocker bushes should be greased every eight hours of use.
11. Tipping rams should have any exposed surfaces and the top of the stages coated in grease regularly to prevent corrosion of the rods.

BRAKE ADJUSTMENT

This can be done by loosening the nut behind the clevis, then rotating the piston, adjustment will appear from the ram. Remember to tighten the locknut when completed.



FOR SPARE PARTS GO TO:
www.marshall-trailers.co.uk



LOW LOADER SPECIFIC INSTRUCTIONS

1. Connect hydraulic hoses to tractor spool valve.
2. Rotate locking handle at the rear side to raise the ram safety stops.
3. If no rear ramp spool valve is fitted the entire rear ramp can now be operated from inside the tractor by simply operating the spool valve in different directions.
4. If the low loader is fitted with the rear spool valve place the tractor into constant pump and return to the rear spool valve where you can now operate the handle to raise or lower the rear ramp.
5. When lifting a weight on the rear beavertail portion of the trailer ensure that the load being lifted does not exceed 6500 KG.
6. When raising the rear ramp loaded always ensure the front of the trailer has been loaded first to ensure that the backend of the tractor is not lifted off the ground in a seesaw effect.
7. Before moving off always ensure rear ramp is in the fully raised position and the locking handle has been engaged.
8. Also before moving off ensure rear clip-on ramps have been stowed away correctly and locked into place.
9. Always ensure your load has been properly secured to the low loader.



AIR BRAKE INSTRUCTIONS

1. To connect the air brakes, plug the yellow and red Suzi's into the corresponding connectors on the tractor. Ensure the hydraulic braking system is left unplugged.
2. Trailers equipped with rocking beam suspension will have a manual load sensing system that adjusts the brake force via a handle mounted on the front upstand. There are three settings for the different braking forces; fully loaded, half-loaded or empty. This should be adjusted to match the corresponding trailer load.
3. Trailers equipped with spring suspension will have an automatic load sensing system that adjusts the braking force automatically depending on the trailer load.
 - a. The braking force range can be adjusted on the load sensing valve, which is located above the axles in the centre. The trailer should be unhitched, and the handbrake applied before making any adjustments.
 - b. On the valve there is a load sensing lever with a brake force indicator next to it. Joined onto this lever is a threaded bar that joins the lever to the load sensing bar that runs between the axles.
 - c. To increase the braking force, adjust the threaded bar to allow the lever to move higher. Carry out the opposite to reduce the braking force.
4. The large black air tank must be drained regularly to prevent moisture from building up in the system; this is done by pulling the drain valve at the bottom of the tank.
5. Regularly check all pipes for kinks, damage, or loose connections.



EASY SECURE SYSTEM INSTRUCTIONS

1. Connect hydraulic hoses to the tractor ensuring that each side is plugged into its own spool. The hoses are marked with colour coded transfers to ensure these can be correctly identified.
2. Each side can be operated independently, and it is not always required to drop both sides down when loading.
3. To raise the side of the easy secure open the ball valves located on the front of the trailer and ensure the area around the trailer is clear of any obstacles.
4. Raise the side beam to the up position. Once fully up and the webbing has gone tight close the ball valves on the front of the trailer and place the locking pins into the holes, which are positioned just below the arm assemblies.
5. Repeat this process for the second side beam.
6. To lower the side beams, remove the locking pins and open the ball valves on the front of the trailer. Then place the tractor spool valve into the float position and let the side beam lower under its own weight.
7. Always ensure the load is not sitting on top of the side beams before operating.
8. NEVER drive on public roads when the sides are in the lowered position and always ensure the sides are fully raised and secured before moving off.
9. When the trailer is not in use leave the side beams in the lowered position to protect the hydraulic rams from corrosion.
10. DO NOT use the easy secure system to square up a poorly stacked load. The system is designed to hold a load in place, and not to push loads into position.
11. Prior to using the system, it should be checked for oil leaks, damaged nets and the pins and bushes are in good condition. Grease should also be applied to all grease points.



TYRE PRESSURE CHART

PART NUMBER	SIZE	MAX. HEIGHT	SPEED	MAX. TYRE PRESS.
PLEASE NOTE THIS CHART IS FOR REFERENCE ONLY EACH TYRE BRAND CAN HAVE DIFFERENT RATINGS.				
083-01-26-12	26 x 1200 x 12	800kg	25km/h	20psi
083-01-100-12	10.0/80x12 10ply	1000kg	30km/h	45psi
083-01-100-15	10.0 x 15.3	1500kg	30km/h	52psi
083-01-115-15	11.5 x 15	2000kg	30km/h	52psi
083-01-125-15	12.5 x 15.3	2650kg	40km/h	60psi
N/A	15/70 x 18	3200kg	40km/h	75psi
083-01-15-22.5	15 x 22.5 (385/65R 22.5)	4500kg	80km/h	90psi
083-01-400R-60	400R-60x22.5	4500kg	80km/h	90psi
083-01-1555-17	15-55 x 17	2120kg	40km/h	52psi
083-01-1670-20	16/70 x 20	3000kg	40km/h	49psi
083-01-165-70	16.5 x 70 x 18	3200kg	40km/h	54psi
N/A	18 x 22.5	5800kg	80km/h	90psi
N/A	BN2 340/457-1300 x 18	2600kg	40km/h	60psi
N/A	BN3 1300 x 530 x 533	4500kg	40km/h	53psi
N/A	BN4 22/70-20	4500kg	40km/h	33psi
083-01-340-65	XP27 Radial 340/65R 18	2650kg	90km/h	72psi
083-01-400-60	400-60 x 22.5	4000kg	40km/h	51psi
083-01-550-45	550-45 x 22.5	4375kg	40km/h	41psi
083-01-560-45	560-45 x 22.5	4575kg	45km/h	58psi
083-01-560-60	560-60 x 22.5	5595kg	50km/h	58psi
083-01-500-60	500-60 x 22.5	5450kg	40km/h	41psi
083-01-550-60	550-60 x 22.5	5300kg	40km/h	44psi
083-01-445-45	445-45 X 19.5	4500kg	100km/h	100psi
083-01-335-50	355-50 X 22.5	4550kg	80km/h	100psi
083-01-184-30	18.4 x 30 14 pr	3550kg	40km/h	39psi
083-01-184-34	18.4 x 34 14 pr	3650kg	40km/h	36psi
083-01-231-26	23.1 x 26	3950kg	40km/h	36psi
083-01-281-26	28.1 x 26	6100kg	40km/h	33psi
083-01-305-32	30.5 x 32	7100kg	40km/h	39psi
083-01-750-60	750 x 60 x 30.5	8500kg	40km/h	60psi



Marshall Pre-delivery Inspection Check

Dealer Name:

Customer Name:

Address & Post Code:

Model:

Serial Number:

Check

Completed

Check tyre pressure (See chart on page 6)

Tighten wheel nuts

18mm stud diameter = 270Nm & 22mm stud diameter = 475Nm

Check U-bolt torque 19mm bolt diameter = 270Nm

22mm bolt diameter = 540Nm & 24mm bolt diameter = 600Nm

Check the bolts on the hitch are tightened to 500Nm (if fitted with bolt on hitch)

Grease hubs

Check external wheel pressure (Ensure no side movement on wheels)

Grease tandem springs or oscillating rocker if fitted

Check all securing bolts

Check lights (If applicable)

Check for damaged paint & touch up if necessary

Check brake rams (Extend & return freely)

Rams & hydraulic hoses checked for leaks

Ensure relevant paperwork is completed & handed to the operator

Signed:

Date:

General overall condition satisfactory

To be returned when completed:

Email: admin@marshall-trailers.co.uk

Post: Charles J Marshall (Aberdeen) Ltd
Chapel Works, Bucksburn, Aberdeen AB21 9TL.