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## **LST RANGE**

### OPERATING & SAFETY INSTRUCTIONS

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**For all spare parts please visit:**

[www.marshall-trailers.co.uk](http://www.marshall-trailers.co.uk)

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**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](mailto:admin@marshall-trailers.co.uk)

Website: [www.marshall-trailers.co.uk](http://www.marshall-trailers.co.uk)

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## EC Declaration of Conformity

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

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Declares that the product:

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**Make:** Charles J. Marshall (Aberdeen) Ltd

**Type:** Livestock Trailer

**Model:**

**Serial No:**

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

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

**Name & Title of  
Authorised Person:**

**Charles R. Marshall** Managing Director

**Date:**

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

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**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 apply the parking brake when the trailer is left unhitched from the tractor.
2. Connect the hydraulic hoses for the sheep deck at the front to the tractor.
3. Place tractor spool valve into constant pump. Spool valve will only operate if oil feed from correct direction. If there is no operation, switch the hydraulic hoses around at spool valve on the tractor.
4. Raise or lower handle on spool valve located on the near-side, rear for desired operation.
5. Before operating hydraulic deck check gates are in correct position. Failure to do this could result in damage to gates and container. Never lift hydraulic deck with gates in the raised cattle position.
6. Never lower hydraulic deck with bottom sheep gate in the locked position. Failure to unlatch gate will result in damage to gate.
7. Always ensure load top deck first before loading the bottom deck.
8. Never operate the hydraulic deck if there is a human present inside the livestock container.
9. Never lower the hydraulic deck until all livestock have exited the bottom deck and it is completely clear of any obstructions that could cause an issue.
10. Always fully raise the hydraulic deck when in operation to allow the locking pins to lock in position.
11. Ensure all dividing gates are properly secured and latched for operation.
12. Always leave the hydraulic deck in the lowered position when not in operation.



## MAINTENANCE INSTRUCTIONS

1. Hydraulic Hoses – Check regularly for signs of chaffing, wear or perishing. Replace as necessary.
2. Pins & Bushes – Remove pins and check annually for wear. Replace as necessary.
3. Hubs & Bearings – Must be greased regularly depending on usage. It is recommended that they are checked for wear initially after 14 days and then six monthly thereafter. Castle nuts in the hubs should be checked after the first forty hours of work, then six monthly thereafter.
4. U-bolts & Spring-locating Bolts – if the trailer is fitted with spring suspension, then these should be checked every 8 hours for the first week of operation and then monthly thereafter.
5. Suspension – spring and rocker suspension bushes should be greased every eight hours of use.
6. Tyre pressure should be checked regularly (See page 6).
7. 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).
8. Tow Hitch – Check for wear regularly and replace as necessary.
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. Any repairs must be carried out by a qualified engineer or mechanic. If the trailer is fitted with the hydraulic decks option, then any repairs underneath the deck require the deck to be supported with a mechanical prop.

### 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



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## 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.



### 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



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## Marshall Pre-delivery Inspection Check

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Dealer Name:

Customer Name:

Address & Post Code:

Model:

Serial Number:

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### 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

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)

Tail door fitted & adjusted correctly

Rams & hydraulic hoses checked for leaks

Ensure relevant paperwork is completed & handed to the operator

Signed:

Date:

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**General overall condition satisfactory**

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**To be returned when completed:**

**Email:** admin@marshall-trailers.co.uk

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