

Wilson Trailer Company



This manual has been prepared to help you operate your Wilson trailer Lift Deck successfully, economically, and safely. Should you have any questions, we ask that you contact a Wilson Trailer Company factory representative immediately for a clear explanation.

We thank you for expressing your confidence in us through the purchase of your new Wilson Livestock trailer.

We want you to know that it was designed to meet your specific needs for a livestock trailer and was built for long life and low cost operation. With regular, proper maintenance and your common sense use, we are confident that it will do so.



Additional manuals and decal kits for this trailer are available without charge. (Rev.6-99)

MODEL NO.

SERIAL NO.

Livestock Lift Deck Operator's Manual



This safety alert symbol is to raise your awareness to important messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

TABLE OF CONTENTS by SECTION

GENERAL INFORMATION

Normal Trailer Operation	1-1
Loading and Unloading of Livestock.....	1-1
Modification of Trailer.....	1-1

OPERATION

PSDCL-414 Lift Deck Livestock/Freight Trailer	2-1
Operation of Lift Deck	2-1

CONNECTION POINTS

Lift Cable Connection Points	2-3
Cable Clamp Installation	2-4

SUPPORT

Lift Deck Support.....	2-5
------------------------	-----

ATTACHMENT DEVICES

Attachment Devices.....	2-7
-------------------------	-----

GATE SUPPORT

Swing-to-Roof Gate Support.....	2-9
Side Brace Rods.....	2-11

LIFTABLE DOGHOUSE

Winch for Lifiable Doghouse Floor.....	2-12
Lifiable Doghouse.....	2-12

DECKS

Main Deck.....	2-13
Center Lift Deck	2-14

RAMPS

Ramps	2-15
-------------	------

CONSUMER INFORMATION

Certificate of Limited Warranty.....	3-1
New Trailer Certificate of Limited Warranty	3-2
Extended Warranty Schedule	3-3
Index.....	3-4

Normal Lift Deck Operation

Wilson Trailer Company manufactures and sells custom lift deck trailers that can be configured for transporting livestock or freight by elevating or removing decks in the front, center, and rear sections of the trailer.

NOTICE

The lifting system may not be used to lift livestock or freight unless specifically indicated by Wilson Trailer Company. Any deck lifting system must never be used to lift people.

Movement of the lift-able decks is accomplished by various winch, cable, and pulley arrangements. The winches are manually operated.

The decks are held up by removable supports that fit into permanent pockets inside the trailer. It is important that all of the supports are in place and that the lift cables are slack before loading the deck. Some lift cables may alternately be detached from the deck and put into a stowed position to avoid entangling animals.

The divide gates at the front or rear of these trailers can be moved out of the way by swinging to the side or swinging to the roof to allow freight handling devices like pallet carriers to pass. There are many versions of these lift deck trailers in use today, each having customized interiors to suit the needs of the customer.

Loading and Transport of Livestock

The loading of the trailer is important! Keep the center of gravity as low as possible. Proper placement of the larger animals should be considered.

Because load types vary, the driver needs to drive with appropriate care and within the limits of the load.

The well being of the livestock is dependent on the stock density, ventilation, the standard of driving, and quality of roads.

Frequent inspection and careful driving cannot be over-emphasized!

Modification of Trailer

Any modification made to the trailer must comply with DOT and NHTSA regulations and must not compromise the gross vehicle weight rating (GVWR) of the trailer.

(Rev. 12-98)



WARNING

Any operation of the trailer outside the limitations stated in this manual will void any responsibility of Wilson Trailer Company for any of its results.

OPERATION

PSDCL-414 Lift Deck Livestock/Freight Trailer



A Wilson Model PSDCL-414 lift deck livestock/freight trailer shown in freight configuration.

The front and rear divide gates are stowed to the roof. The optional lift-able doghouse floor is also stowed to the roof. The removable plank in the front compartment is stowed at the roof.

The main floor is shown in alignment with the rear floor, creating a smooth loading platform for freight. It is specially constructed and has a floor rating for freight.

Operation of Lift Deck

Lift deck freight floor loading limits. A label with this information should be present on your trailer if built after September 2011.



OPERATION

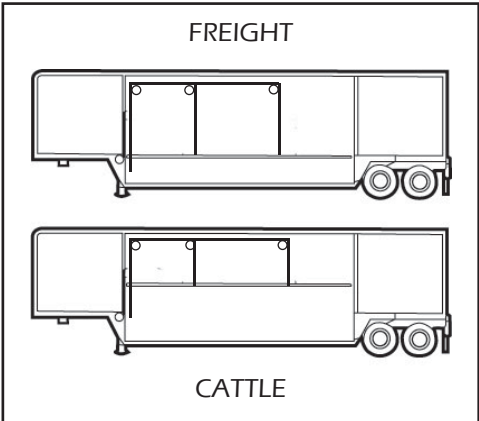
Operation of Lift Deck




When replacing cables, it is important that cables with the same dimensions and strength be used. Where auxiliary cables join the main cable, they must be connected using two wire rope clamps approximately 4 inches apart. All cables should be inspected weekly and replaced immediately when noticeable fraying of the outside cable strands occurs.


All cable pulleys are equipped with grease fittings. Pulleys should be greased monthly to avoid freeze-up and excessive cable wear.

The lift deck must be supported by the side rails when the pull out ramp is used to load cattle/livestock. The lift cables are not intended for supporting a live load.



 **CAUTION**

Do not use pull out ramp unless lift deck is resting firmly on deck rails with slack cables, or personal injury may occur.

 **WARNING**

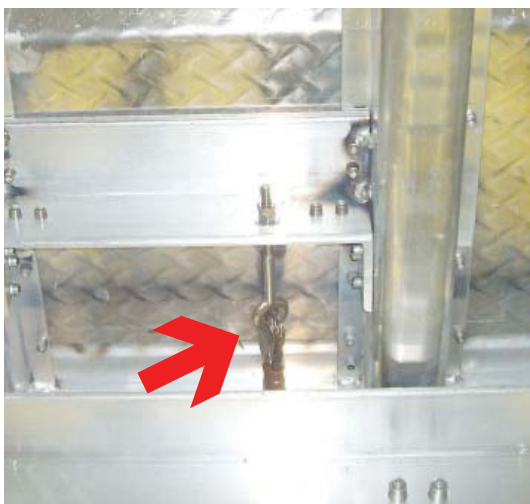
Do not stand under lift deck when it is being raised or lowered. Be sure removable deck rails are firmly in place before deck is lowered into position. The loaded lift deck must always be supported by the deck rails. Cable system is not designed to lift a loaded deck. As a safety precaution, the lift deck should be supported by means other than by the cables whenever a person positions himself underneath the lift deck for maintenance.

CONNECTION POINTS

Lift Cable Connection Points



Typical lift cable connection point at lift deck with recessed lifting eyes for use with freight. Make sure thimbles are installed when replacing cables.



Lift cable slack is adjustable by the threaded eyebolt used to level out the liftable doghouse (located under the deck).

Make the adjustment with the liftable doghouse deck sitting on rails with no load on ropes and trailer on level ground.

CONNECTION POINTS

Cable Clamp Installation

IMPORTANT

Apply first load to test assembly. This load should be equal or greater weight than loads expected in use.

Next check and use torque wrench to retighten both nuts on all U-clips to recommended torque.

The wire rope and termination should be inspected periodically for wear and abuse.

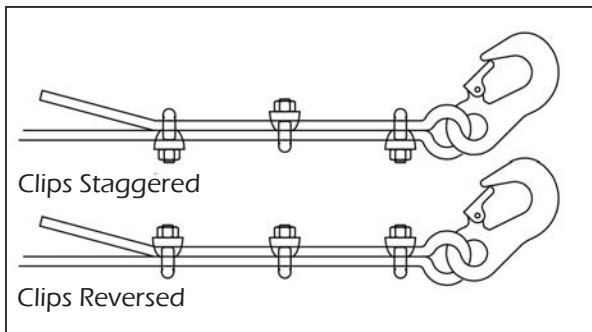
NOTE

No Slack, lines should be parallel and touching each other. No twists or gaps. Live line (as one to the wench) gets the saddle.

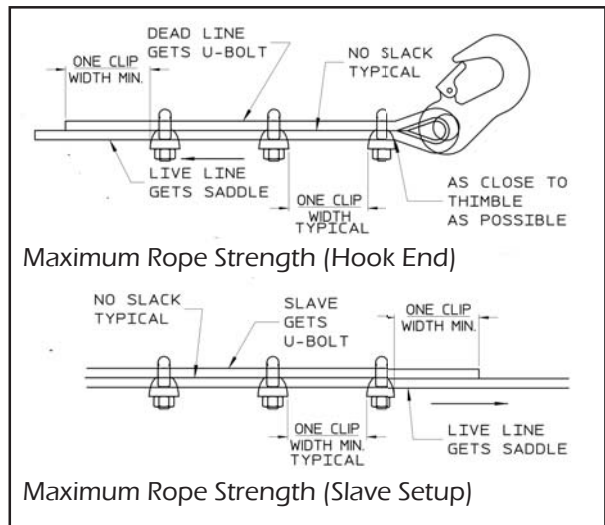
Recommended Torque Chart

CLIP SIZE (IN.)	ROPE SIZE (IN.)	NUMBER OF CLIPS	AMOUNT OF ROPE TO TURN BACK IN INCHES	TORQUE IN FT. LBS.
1/8	1/8	3	5-1/4	4.5
3/16	3/16	3	6-1/4	7.5
1/4	1/4	3	7-1/2	15
3/8	3/8	3	10-1/2	45
1/2	1/2	3	11-1/2	65

Wrong Way To Install Clips



Right Way To Install Clips

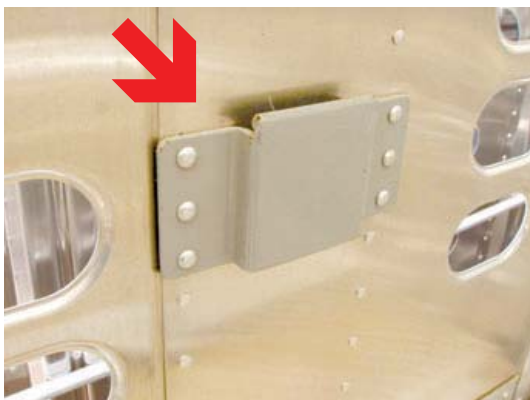


SUPPORT

Lift Deck Support



Typical removable support rail for liftable decks, shown in position to support the deck; make sure the angles are secure in the pockets.



Pocket on inside of trailer for deck support rails; located height wise in the trailer for loading and storage of the removable support rails.



Removable support rail for lift deck showing hook. Removable plank support rails have a tab to prevent them from popping out of the pockets.

Lift Deck Support



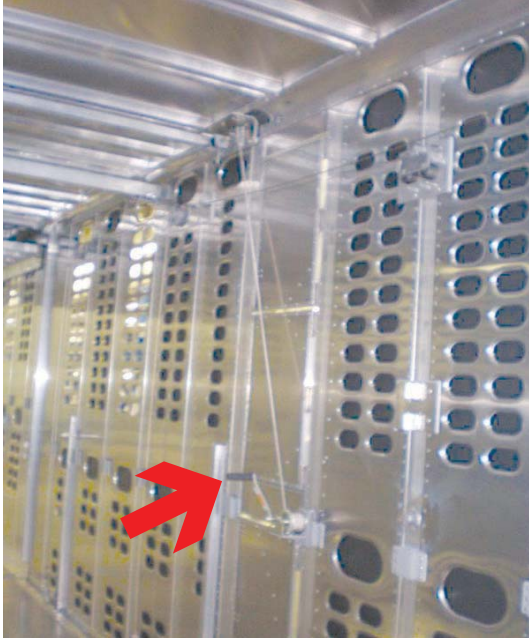
Typical high mounted pocket for storage of support rail and lifable doghouse.



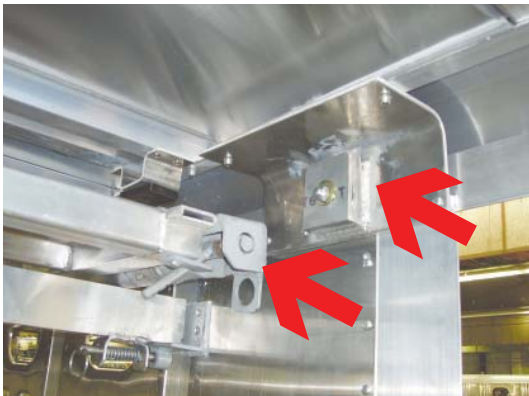
Deck rail in stored position. Note tab to retain the support rail in the pocket.

ATTACHMENT DEVICES

Attachment Devices



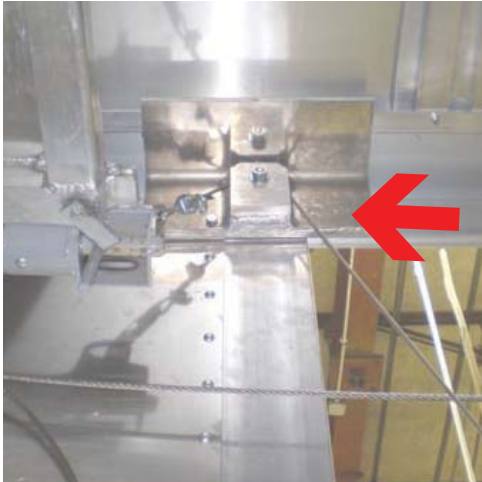
Swing-to-roof divide elevation winch.



Cable attachment point and pulley for divide lift winch rope.

ATTACHMENT DEVICES

Attachment Devices



Swing-to-roof cable attached to gate.



Swing-to-roof elevation cable in use.

GATE SUPPORT

Swing-to-Roof Gate Support



Swinging divide gate to roof with winch.



Swing-to-roof gate support in the stowed position.



Pins are temporarily put under liftable decks and swing to the roof gates from outside the trailer under deck support rails and gate supports are installed.

Use these pins to avoid personnel getting under a gate or a deck supported only by cables.

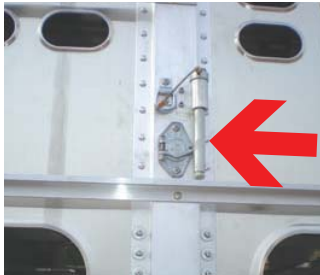


WARNING

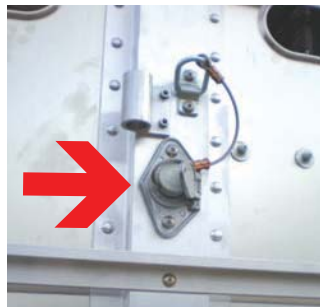
Pins must be removed once supports are installed.

GATE SUPPORT

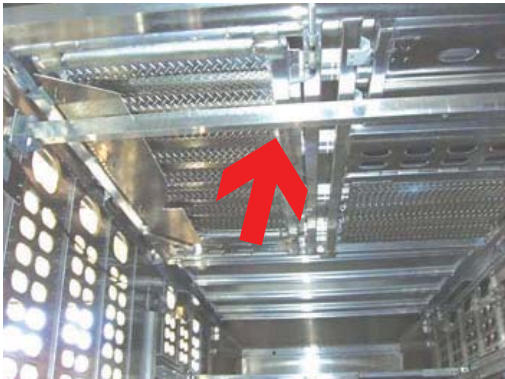
Swing-to-Roof Gate Support



Pin stowed for transport, viewed from outside of trailer.



Pin inserted, viewed from outside of trailer.



Swing-to-roof gate support deployed and holding up the gate.

Before removing lifting cable, make sure the support is in position, remove the pins, and lower the gate on to the support.

GATE SUPPORT

Swing-to-Roof Gate Support



Floor pins for swing-to-roof gate.

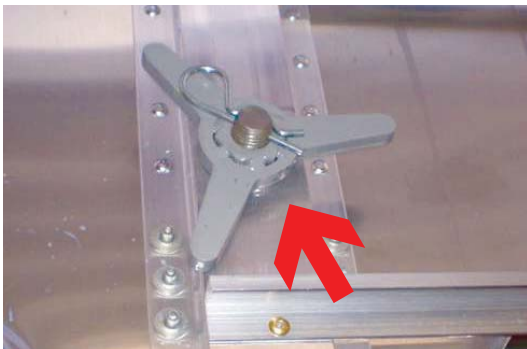


Side Brace Rods



Side brace rods must be in place under the deck to prevent trailer side deflection when the trailer is being used to haul livestock.

Rods stowed.



Rods installed for hauling livestock. Pin clip inserted.

LIFTABLE DOGHOUSE

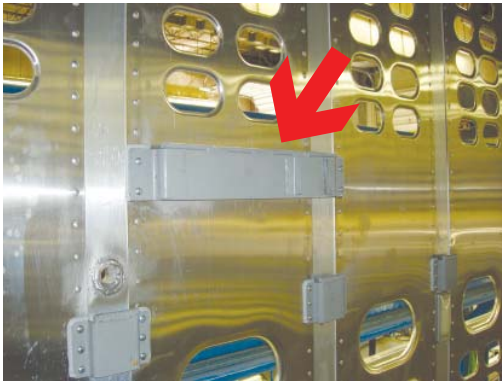
Winch for Lifiable Doghouse Floor



Winch for liftable doghouse floor located curbside behind rear tire. Store crank in panel box or cab.

IMPORTANT
Inspect for frayed cables frequently.

Lifiable Doghouse

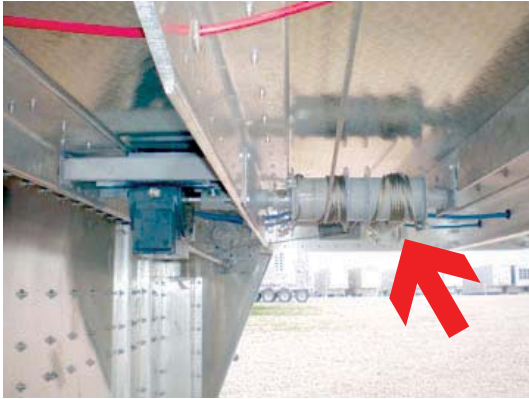


Lifiable doghouse safety gate pocket.

Store safety gate above the rear floor.

DECKS

Main Deck



The winch for liftable main deck is located under the front of the trailer.

IMPORTANT
Inspect cables and grease pulleys frequently.



Crank handle for the main deck winch is stored in the nose panel box or in the cab.



DECKS

Main Deck



Main deck removable support at the front divide gate shown in livestock hauling position.

Store in the belly when in freight position.

Center Lift Deck

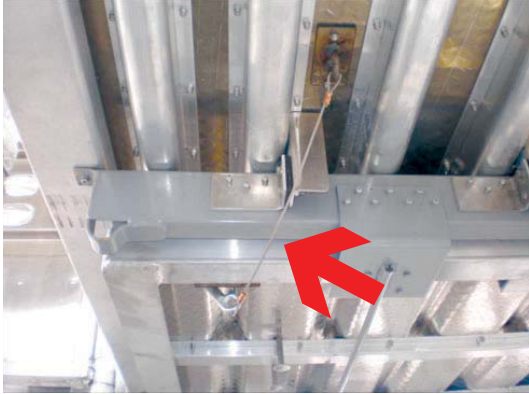


Center lift deck is in the livestock position and resting on the removable support rails.

Store removable rails in the belly when in the freight position.

RAMPS

Ramps



Cable to secure pull out ramp during transport.



Drop ramp option with funnel/door brace in loading position.



RAMPS

Ramps



Folding removable bullbar with pull-out ramp in loading position.



CONSUMER INFORMATION

Certificate of Limited Warranty



The following warranty is given to the owner of each new Wilson trailer sold by Wilson Trailer or its authorized dealers in the United States and Canada during the period of time and upon the conditions set out in the Extended Warranty Schedule.

Warranty Coverage

Wilson Trailer will repair or replace, at its option, any factory-installed part that is defective in material or factory workmanship under normal use, maintenance and service. Normal use excludes any operation in excess of GVWR (gross vehicle weight rating) and any use the Owner's Manual states is not recommended. Warranty repairs will be made and adjusted in accordance with the Extended Warranty Schedule as it appears on the following page. Any repaired or replaced parts are covered only for the remainder of this warranty. All parts replaced under this warranty become the property of Wilson Trailer.

This warranty begins on the date the trailer is delivered to the first retail purchaser or the date it is first placed into service as a demonstrator or leased trailer, whichever comes first.

Non-coverage Items

This warranty does not cover the following items:

- Tires.
- Axles, wheels, tires, suspension, trailer frame and other components and structure damaged through the use of single axle dump valves.
- Non-standard features or items specified by the purchaser.
- Parts that fail due to lack of required maintenance or use of non-equivalent parts.
- Normal wear or deterioration on any part.
- Any trailer normally driven outside the United States or Canada.
- The replacement of expendable maintenance items when the replacement is not due to a defect in material or factory workmanship.
- Any preowned trailer

(Rev. 07-16)

CONSUMER INFORMATION

New Trailer Certificate of Limited Warranty

To Get Warranty Service

Parts claimed to be defective in material or workmanship must be brought to the attention of Wilson Trailer or the selling dealer by taking the trailer to the dealer or by written notification within ten (10) days of discovery, and any repairs or replacement must be commenced within forty-five (45) days thereafter. Wilson Trailer has the right to inspect the claimed defect and determine whether the part is covered by this warranty. If you cannot get warranty service, or you are dissatisfied with the service or with a warranty decision, contact Technical Service and Claims Manager, Wilson Trailer, P.O. Box 6300, Sioux City, IA 51106.

Owner's Responsibility

As the owner of this trailer, you have the responsibility to perform the required maintenance at the proper intervals and make reasonable and normal use of the trailer.

Limitations and Disclaimers

Wilson Trailer disclaims any responsibility for any loss of time or use of the parts or trailers in which the parts are installed, transportation, cargo loss, or other incidental or consequential damage. Any implied warranties, including the implied warranty of merchantability and fitness for a particular purpose, are limited to the duration of this written warranty. Wilson Trailer makes no warranty as to quality or performance of its trailer other than set forth above.

Serial Number _____

G.V.W. Rating _____

Purchased By _____

Date In Service _____

Selling Dealer _____

By  _____

(Authorized Signature)

(Rev. 07-16)

CONSUMER INFORMATION

Extended Warranty Schedule

Per Written Warranty Conditions Covering Defect in Material and Workmanship as to Construction and Assembly and Installation Only.

<p>% Allowable to owner (from date in service to original purchaser) for Material and Labor excluding component parts and accessories.</p>	<u>Vendor Items</u>		
	Axles	Side Structures	Dog House & Gate Latches
	Suspensions	Front Assemblies	Door Hardware
	Wheels	Rear Assemblies	Gate, Ramp, & Dog House Hinges
	Hubs and Drums	Crossmembers	Drop Leg Landing Gears
	Air Brake Valves and ABS Components	Undercarriage	Tire Carriers
	Tires	Metal Gates	Aluminum Roll-up Gates
	2 Speed Landing Gears	Dog House	Roll-up Tracks
	Axle Bearings	Metal Roof Skin	Painting (Outside Only)
	Axle Oil Seals	Roof Bows	Air Lines and Fittings
Lights and Wiring Harness	King Pin Assembly	Panel/Tool Boxes	
Axle Springs	Metal Roof Caps		
Translucent Roofs	Metal Flooring		
Lift Axle Controls	Ramps		
%	MONTHS	MONTHS	MONTHS
100	Use Vendor's Warranty Schedule	1 - 12	1 - 12
50		13-24 Months	-
0		Over 24	Over 12

This warranty shall not apply from owner operation exceeding the GVWR rating of the trailer.

(Rev. 11-12)

WILSON TRAILER COMPANY

INDEX

A
ATTACHMENT DEVICES2-7

B
Brace Rods, Side.....2-11

C
Cable Connection Points, Lift2-3
Center Lift Deck2-14
Certificate of Limited Warranty.....3-1
Certificate of Limited Warranty, New Trailer.....3-2
CONNECTION POINTS.....2-3
CONSUMER INFORMATION3-1

D
DECKS2-13
Deck, Center Lift2-14
Deck, Main.....2-13
Deck Support, Lift.....2-5
Devices, Attachment.....2-7
Doghouse Floor, Winch for2-12
Doghouse, Lifiable.....2-12

E
Extended Warranty Schedule3-3

F
Floor, Winch for Lifiable Doghouse.....2-12

G
GATE SUPPORT2-9

H
I
INDEX.....3-4
INFORMATION, CONSUMER3-1

J
K
L
Lift Cable Connection Points2-3
Lift Deck, Center2-14
Lift Deck, PSDCL-4142-1
Lift Deck, Operation of2-1
Lift Deck Operation, Normal.....1-1
Lift Deck Support.....2-5
Lifiable Doghouse.....2-12
Lifiable Doghouse Floor, Winch2-12
Limited Warranty, Certificate of.....3-1
Loading & Transport of Livestock1-1

M
Main Deck.....2-13
Modification of Trailer.....1-1

N
New Trailer Certificate of Limited Warranty.....3-2
Normal Lift Deck Operation.....1-1

O
OPERATIONS.....2-1
Operation, Normal Lift Deck.....1-1
Operation of Lift Deck1-1

P
POINTS, CONNECTION.....2-3
Points, Lift Cable Connection2-3
PSDCL-414 Lift Deck.....2-1

Q
R
RAMPS.....2-15
Rods, Side Brace.....2-11

S
Schedule, Extended Warranty3-3
Side Brace Rods.....2-11
SUPPORT2-5
Support, Gate2-9
Support, Lift Deck.....2-5
Support, Swing-to-Roof2-9
Swing-to-Roof Support2-9

T
Trailer, Modification.....1-1
Trailer Certificate of Limited Warranty, New.....3-2
Transport of Livestock, Loading1-1

U
V
W
Warranty, Certificate of Limited.....3-1
Warranty Schedule, Extended3-3
Winch for Lifiable Doghouse Floor.....2-11

XYZ

Livestock Lift Deck Operator's Manual



WILSON TRAILER COMPANY

4400 So. Lewis Boulevard • Sioux City, Iowa 51106
Telephone • 712-252-6500

www.wilsontrailer.com
E-Mail: sales@wilsontrailer.com