

Product: New Holland ST830 Rippers Service Repair Manual
Full Download: <https://www.aresairmanual.com/downloads/new-holland-st830-rippers-service-repair-manual/>

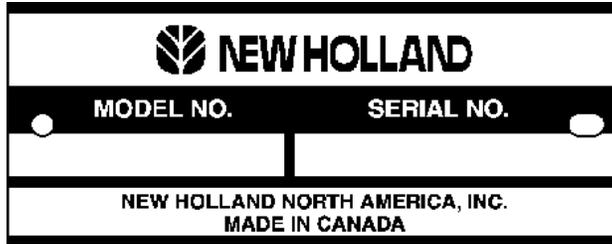
NEW HOLLAND ST830

REPAIR MANUAL

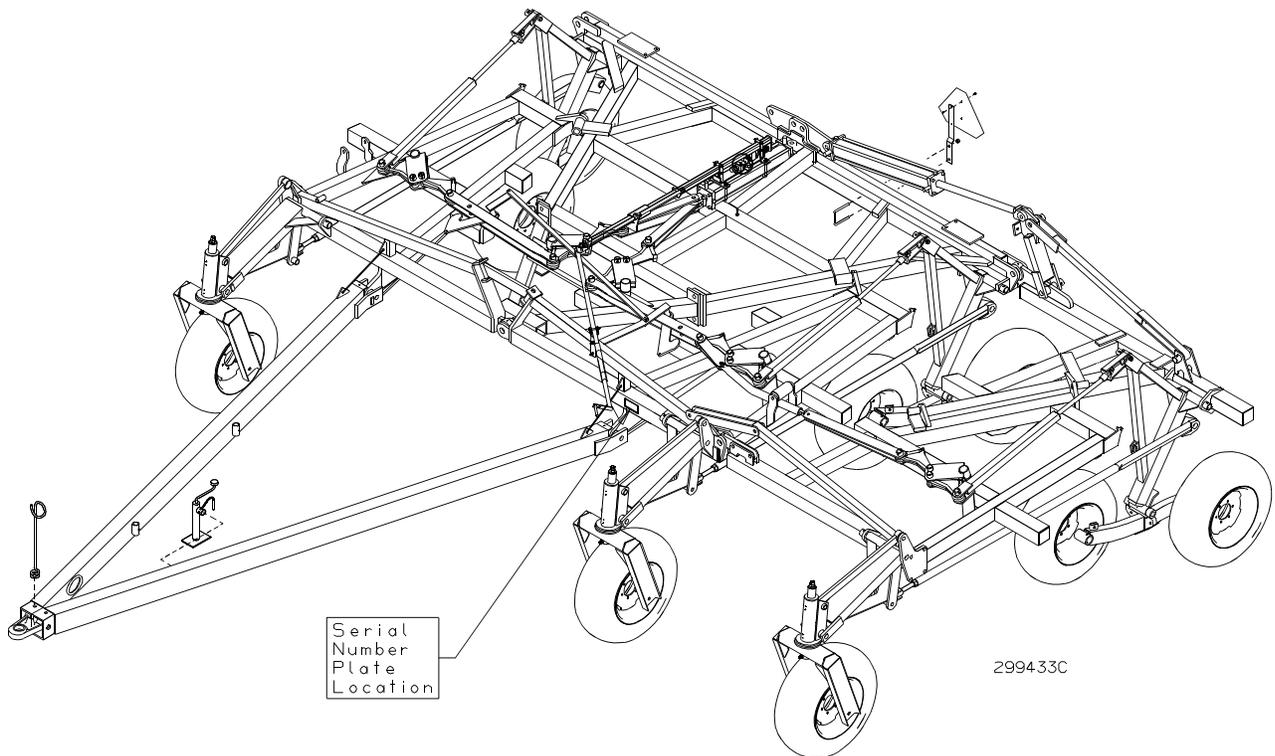


SERIAL NUMBER IDENTIFICATION

The ST830 has a Serial Number Plate attached at the location shown to identify the components installed on this machine. The plate looks like the sample below.



For easy reference, locate the Serial Number Plate at the location shown on the figure. Record the numbers on this sheet. When requiring repair parts, take this number into your dealer.



This Page is Left Blank

TABLE OF CONTENTS

Pages listed are a table of contents for that section

Section - Title	Page
1 - SAFETY	1-1
Safety	
Decal Locations	
Reflector Decals, Slow Moving Vehicle Sign and Transport Lighting	
Transport Lighting Wiring Schematic	
2 - ADJUSTMENTS	2-1
General Service Information	
Wing Lift Adjustment - Three Section Outer Wing	
Leveling Procedure	
Final Leveling	
Wheel Standard Restraint Chain Adjustment	
Sweep Pitch Adjustment	
Setting the Depth Gauge	
Weight Transfer Kit - NW-547K	
3 - MECHANICAL SERVICE	3-1
Specifications	
Machine Specification-North America-Imperial Units	
Machine Specification-North America-Metric Units	
Machine Specification-Australia - Imperial Units	
Machine Specification-Australia - Metric Units	
Troubleshooting Tables	
Grease Locations	
Daily Maintenance (Every 10 Hours)	
Weekly Maintenance (Every 50 Hours)	
Semi-Annual Maintenance (Every 200 Hours)	
Yearly Maintenance (Before Seasonal Operation or Before Storage)	
Welding Procedures	
Fold Linkages	
Wheel Bolt Torque	
Tire Pressures and Hub and Spindle Details	
Hubs / Spindles / Wheel / Walking Beams	
Caster Hub and Spindle Maintenance	
Removal and Replacement of Bushings on Bell Crank Assembly	
3 - MECHANICAL SERVICE Cont;	3-1
Ram Mount Depth Stop	
Remote Switch Installation	
Anhydrous Hitch	
Mud Scraper Installation	
4 - HYDRAULICS	4-1
Replace Seals in Cylinders	
Hydraulic Cylinder Components	
Hydraulic Schematics	
Ram Mount Depth Stop Connection	
5 - ELECTRICAL	5-1
Connector Service Kit	
6 - TRIPS AND OPENERS	6-1
Troubleshooting Tables	
Trip Compressor Tool Kit	
Tension Link Kit TP-133K - 550lb Trip	
Adjustment of Trip Assemblies	
Anti-Skewing Trip Shim Installation	
Trip Shim Kit for 650lb Trip	
7 - AIR SYSTEM	7-1
Troubleshooting Tables	
Hoses	
Theory of Operation - Air System	
Methods of Determining Adequate Carrying Velocities	
Header Assemblies	
Hose Holder Brackets and Distribution Clamps	
8 - OPTIONS	7-1
Harrow	
Heavy Harrow	
Press Wheels / Packer Gangs	
Endmarker	

This Page is Left Blank

SECTION 1

GENERAL INFORMATION

CONTENTS OF THIS SECTION

	Page
GENERAL SERVICE INFORMATION	1-3
IMPORTANT INFORMATION	1-4
SERVICE TOOLS	1-4
SAFETY	1-5
General Safety Practices	1-6
Servicing Safety Precautions	1-6
Safety During Operation	1-7
Air and Air Hoses	1-10
Hydraulics and Hydraulic Leaks	1-10
Shields	1-11
Electrical	1-11
Tires	1-11
Safety During Transport	1-12
Safety Decals	1-12
Decal Locations	1-13
SPECIFICATIONS	1-14
Implement Dimensions - Imperial-North America	1-15
Implement Weight - Imperial-North America	1-16
Implement Dimensions - Metric-North America	1-17
Implement Weight - Metric-North America	1-18
Implement Dimensions- Imperial-Australia	1-19
Implement Weight - Imperial-Australia	1-20
Implement Dimensions - Metric-Australia	1-21
Implement Weight - Metric-Australia	1-22
Reflector Decals, Slow Moving Vehicle Sign and Transport Lighting	1-23
Transport Lighting Wiring Schematic	1-24
UNITS OF MEASURE/ABBREVIATIONS	1-25
CONVERSION CHART	1-26
BOLT TORQUE INFORMATION	1-27
WELDING PROCEDURES	1-29
Modifications to the Implement	1-29
Frame Repair	1-29
Welding Repair Tips	1-29
PAINT TOUCH UP PROCEDURE	1-30

SECTION 1 - GENERAL INFORMATION

This Page is Left Blank

GENERAL SERVICE INFORMATION

DANGER!



Be alert for overhead electrical wires. Failure to stay clear of electrical wires will result in electrocution. Electrocution can occur without direct contact with overhead electrical wires.

CAUTION!



To prevent personal injury when assembling the implement, always block up the raised section. Be sure the section is stable before assembly and never rely on a jack or hydraulic device to support the raised implement.

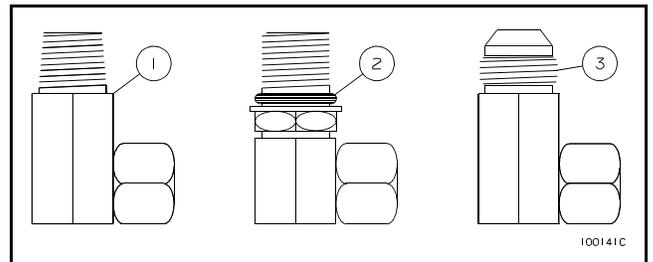
Always make sure that pressure is relieved from hydraulic circuits before servicing or disconnecting from the tractor. Failure to do so may result in hydraulic fluid being injected into the skin; this may result in gangrene.

READ ASSEMBLY INSTRUCTIONS CAREFULLY BEFORE YOU BEGIN.

1. Be sure to read and follow all instructions to ensure proper assembly and operation of the implement.
2. Assembly may require the use of a forklift or other suitable lifting device.
3. Implement must be serviced on a flat surface.
4. Left and right directions are determined from the rear of the implement facing the direction of forward travel.
5. Use a suitable sealant on hydraulic connections. Be careful to prevent sealant from entering the hydraulic system.
6. Apply a thread sealant to all female-to-male pipe thread connections.
7. Do not allow tape to enter the hydraulic system.
8. Do not use a thread sealant on ORB or swivel fitting connections.

NOTE: If you are assembling or servicing the implement inside of a building, ensure the door opening is large enough to allow the implement to be removed after assembly. Check the Specifications Tables in this section for the overall height and width in transport position.

NOTE: Additional bolt torque information can be found later in this section.



Hydraulic Fitting Identification

NOTE: Pipe thread (1) fittings, o-ring boss fittings (2) and JIC fittings (3) may be the types of hydraulic fittings used.

IMPORTANT INFORMATION

All repair and maintenance work listed in this manual must be carried out only by qualified dealership personnel, strictly complying with the instructions given and using, whenever required, the special tools.

Anyone who carries out the above operations without complying with the procedures shall be responsible for the subsequent damages.

The manufacturer and all the organizations of its distribution chain, including - without limitation - national, regional or local dealers, reject any responsibility for damages due to the anomalous behavior of parts and/or components not approved by the manufacturer himself, including those used for the servicing or repair of the product manufactured or marketed by the manufacturer.

In any case, no warranty is given or attributed on the product manufactured or marketed by the manufacturer in case of damages due to an anomalous behavior of parts and/or components not approved by the manufacturer.

The information in this manual is updated at the date of the publication. It is the policy of the manufacturer to aim for continuous improvement. Some information could not be updated due to modifications of technical or commercial type, as well as for suiting the laws and regulations of different countries.

In case of disagreement, refer to your Sales and Service Networks.

SERVICE TOOLS

There are several service tools/update kits available through the parts department, for ease of diagnosis and servicing the ST830.

ND-035K Trip shim kit.

ND-897K Trip shim kit.

TC-352K Trip shim kit (for 650 lb trips).

NW-487K Tube aligning kit.

NW-738K Ball drive update kit (1.5" ball).

NW-105K Transport lockout kit (for locking front casters for transport).

SAFETY

SAFETY-ALERT SYMBOL



This symbol is used to denote possible danger and care should be taken to prevent bodily injury. This symbol means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**

THIS SYMBOL APPEARS WITH TEXT READING “DANGER!”, “CAUTION!”, OR “WARNING!” THESE WORDS INDICATE THREE LEVELS OF POSSIBLE HAZARDS, THAT ARE DESCRIBED BELOW.

DANGER!



Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

WARNING!



Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

CAUTION!



Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. The color associated with Caution is YELLOW.

SECTION 1 - GENERAL INFORMATION

GENERAL SAFETY PRACTICES

REVIEW this manual and operator's manual before servicing equipment.

NEVER allow anyone unfamiliar, untrained, or complacent to operate the cultivator.

ALWAYS USE the jack supplied when unhooking the cultivator.

NEVER transport the cultivator at speeds higher than 30 km/hr (18 mph).

MAINTAIN YOUR CULTIVATOR in proper working condition. Unauthorized modifications to the machine may impair function and/or safety and affect machine life.

BE SURE the cultivator is securely fastened to a large farm tractor or an air cart that is attached to a large farm tractor before operating hydraulics.

USE EXTREME CARE when making adjustments.

KEEP CHILDREN AWAY from all farm equipment.

SERVICING SAFETY PRECAUTIONS

BLOCK the wheels to prevent movement when servicing.

BE SURE the press wheels are blocked and wing lock pins are in place before servicing or adjusting opener assemblies or working on the cultivator.

CAUTION!



The tractor engine should be stopped and the wheels blocked to prevent any movement during servicing.

Always be sure that the depth control safety lock is in place when servicing the cultivator.

Always be sure the wings are in field position before servicing the cultivator.

Escaping hydraulic fluid is a serious hazard. Escaping hydraulic fluid that is under pressure can penetrate the skin, causing serious injury. Relieve pressure before disconnecting the hydraulic lines.

Check/tighten all connections before applying pressure.

Never use your hand to search for leaks. Use a piece of cardboard or paper. If any fluid is injected into the skin, seek immediate medical attention. Gangrene may result if the wound is not treated within a few hours. Check your hydraulic fluid containers for warnings concerning the hydraulic fluids you use.

DO NOT walk within the radius of raised cultivator wings.

SECTION 1 - GENERAL INFORMATION

SAFETY DURING OPERATION

DO NOT ALLOW ANYONE ON THE CULTIVATOR while operating the cultivator hydraulics.

NEVER disconnect the tractor from the cultivator while the cultivator wings are raised.

KEEP CHILDREN AWAY from the cultivator during operation.

NEVER STAND within the radius of the raised wings. Hydraulic or mechanical failure may result in rapid or uncontrolled falling of the wings.

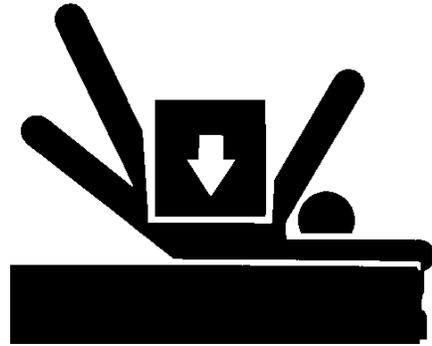
OPERATE the wings only on level ground with the depth control fully raised.



097002S

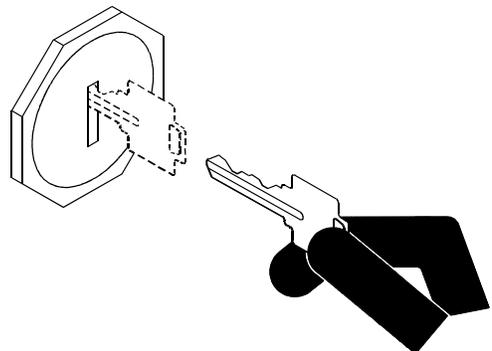
PARK ON LEVEL GROUND and block adequately.

AVOID moving machines.



098001M1

DISENGAGE POWER AND SHUT DOWN the tractor engine (remove the key from the tractor ignition), be certain that all moving parts have stopped, and all pressure in the system is relieved BEFORE cleaning, adjusting or lubricating the cultivator.



192169C

SECTION 1 - GENERAL INFORMATION

READ the operators manual thoroughly.

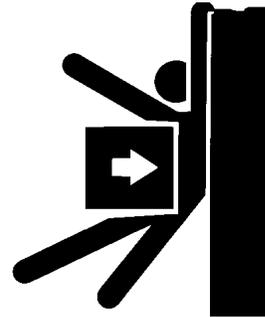
KEEP service area clean.



098002M1

DO NOT enter tight areas.

BE CERTAIN machine is tagged 'out of order' or work area is supervised.



098003M1

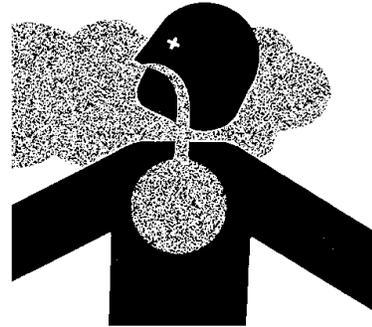
BE CERTAIN all moving parts have stopped before servicing.



098004M1

SECTION 1 - GENERAL INFORMATION

AVOID toxic vapors. Breath clean air.



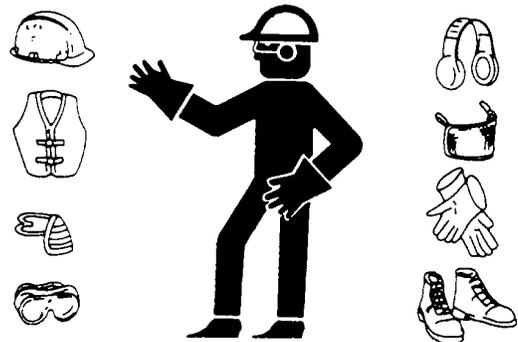
0960039S

DO NOT permit smoking.



196150S

WEAR protective clothing.



192078S

SECTION 1 - GENERAL INFORMATION

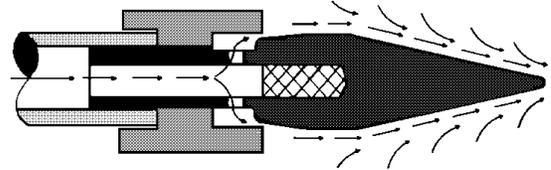
AIR AND AIR HOSES

COMPRESSOR HOSES may move unexpectedly when suddenly disconnected.



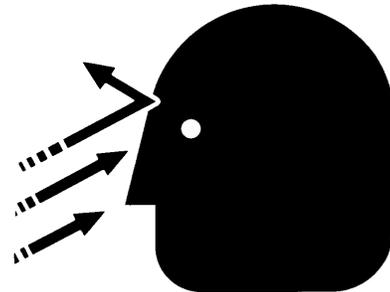
098005M1

USE PROPER air nozzles. Do not use compressed air to clean clothes or direct it toward any part of yourself.



098006M1

AVOID getting chemicals into eyes. Use eye protection.



098007M1

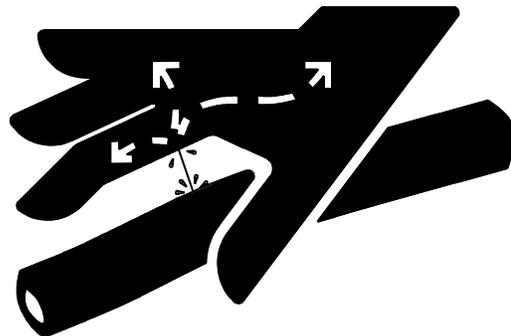
HYDRAULICS AND HYDRAULIC LEAKS

AVOID high-pressure fluids.

ESCAPING HYDRAULIC FLUID IS A SERIOUS HAZARD. Escaping hydraulic fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting the hydraulic lines. Check/tighten all connections **BEFORE** applying pressure.

BEWARE excessive hydraulic pressure. Explosive structural failure can result.

BEWARE air locks in cylinders. Large cylinder displacements can occur without hydraulic oil flow.



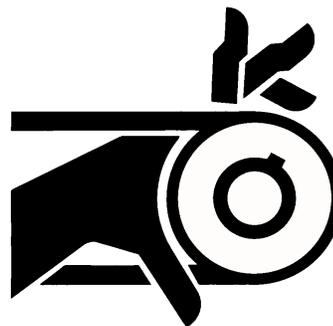
000002C

SHIELDS

REPAIR damaged shields.

KEEP all shields in place.

BE EXTRA CAUTIOUS when repairing or servicing without protective shields.



098008M1

ELECTRICAL

REMOVE the ground wire to avoid arcing contacts.

REMOVE GROUND WIRE when welding.



098009M1

TIRES

USE A CAGE IF POSSIBLE when setting tires on rims.

AVOID excessive air pressure.

DO NOT OVER-INFLATE tires. NEVER lean over a tire while inflating it.



0960041S

SECTION 1 - GENERAL INFORMATION

SAFETY DURING TRANSPORT

CHECK with local authorities regarding transport on public roads. Obey all applicable laws and regulations.

ONLY TOW at a safe speed (30 km/hr/18 mph). Use caution when turning corners or meeting traffic.

BE SURE transport lighting is plugged in and that the red taillight(s), amber flashers, and amber signal lights are all working properly.

ALWAYS be certain that no one is behind or near the cultivator before moving it.

BE SURE all safety transport locks are in place before transporting the cultivator.

BE SURE the reflector decals are clearly visible from all sides of the cultivator and the 'Slow Moving Vehicle' sign is at the rear of the cultivator in clear view of overtaking traffic.

BE SURE the tractor weight is equal to or greater than the total weight of the air cart and cultivator.

BE SURE all the wheel bolts are torqued to proper specifications before transporting the cultivator.

WATCH for power poles and overhead power lines.

ALWAYS lock the tractor drawbar when transporting the cultivator.

ALWAYS park the cultivator on level ground and block the wheels before unhooking from the towing vehicle.

NEVER subject the cultivator to steep side grades while in transport position.

ALWAYS use the hitch jack supplied with the cultivator when unhooking from the tractor.

NEVER brake or decelerate during cornering.

ALWAYS enter corners slowly. SLOW the machine to turning speed before entering a corner. DO NOT decelerate while executing the turn.

SAFETY DECALS

KEEP SAFETY DECALS CLEAN. Wipe clean when necessary.

CHECK that the safety decals are not obstructed by the openers. If the decals are covered up, replace in a location that is clear to view.

REPLACE missing or unreadable decals. New decals are available from your dealer.

To replace decals:

1. Remove the old decal. Clean the area where the new decal will be affixed.
2. Remove the decal backing. Carefully affix the decal to the cultivator.
3. Work the air bubbles out from under the decal. Use a clean piece of paper or the decal backing itself.

SECTION 1 - GENERAL INFORMATION

DECAL LOCATIONS

The following safety decals are affixed to the cultivator.



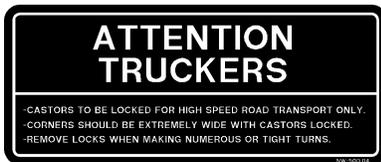
NW-500.03



23260



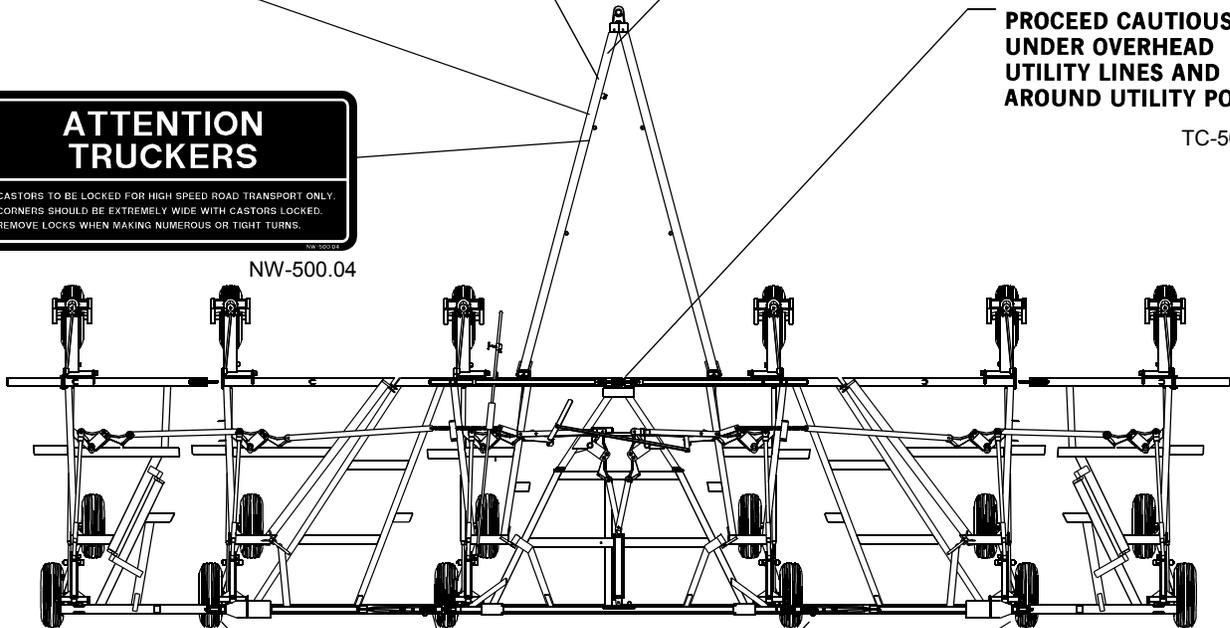
GD-500.40



NW-500.04



TC-500.10

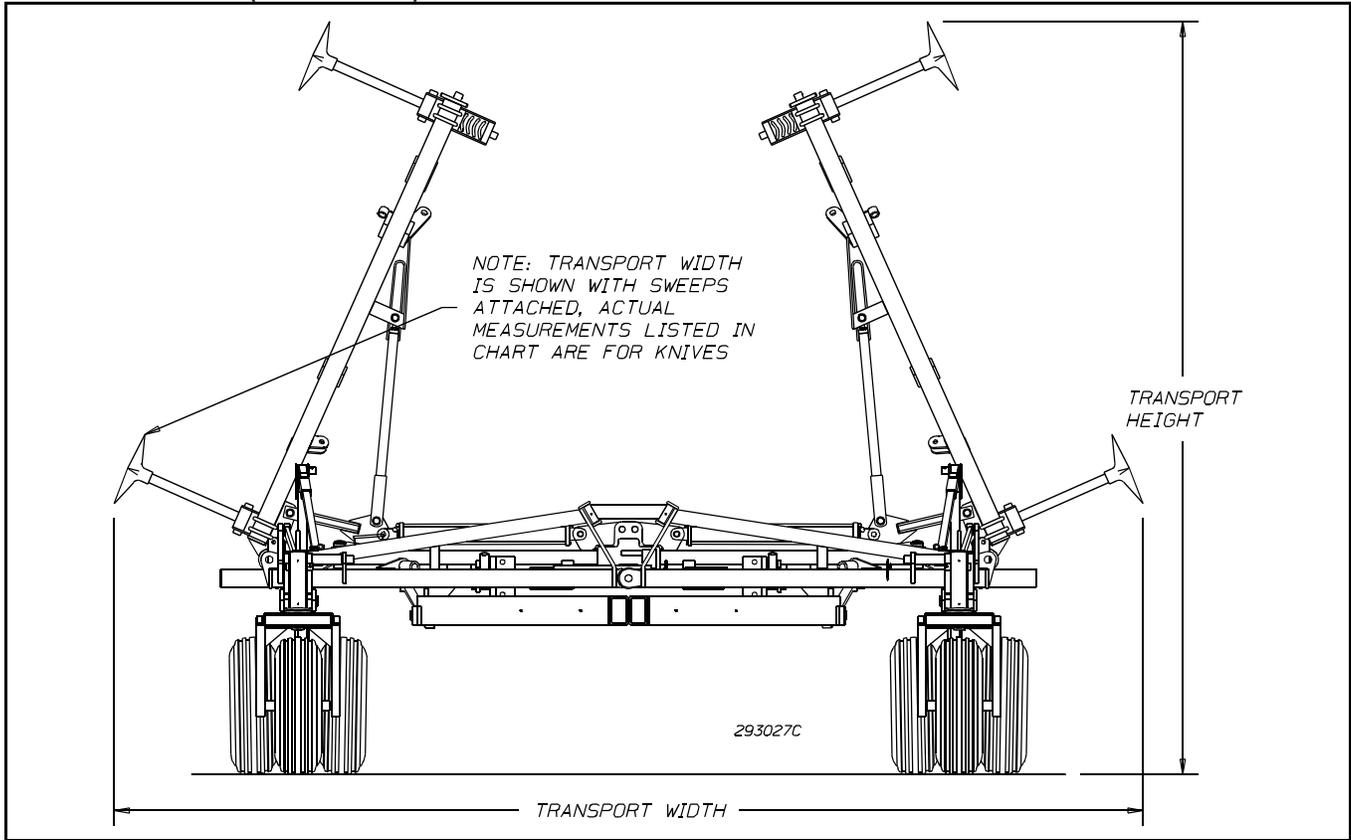


TC-500.08

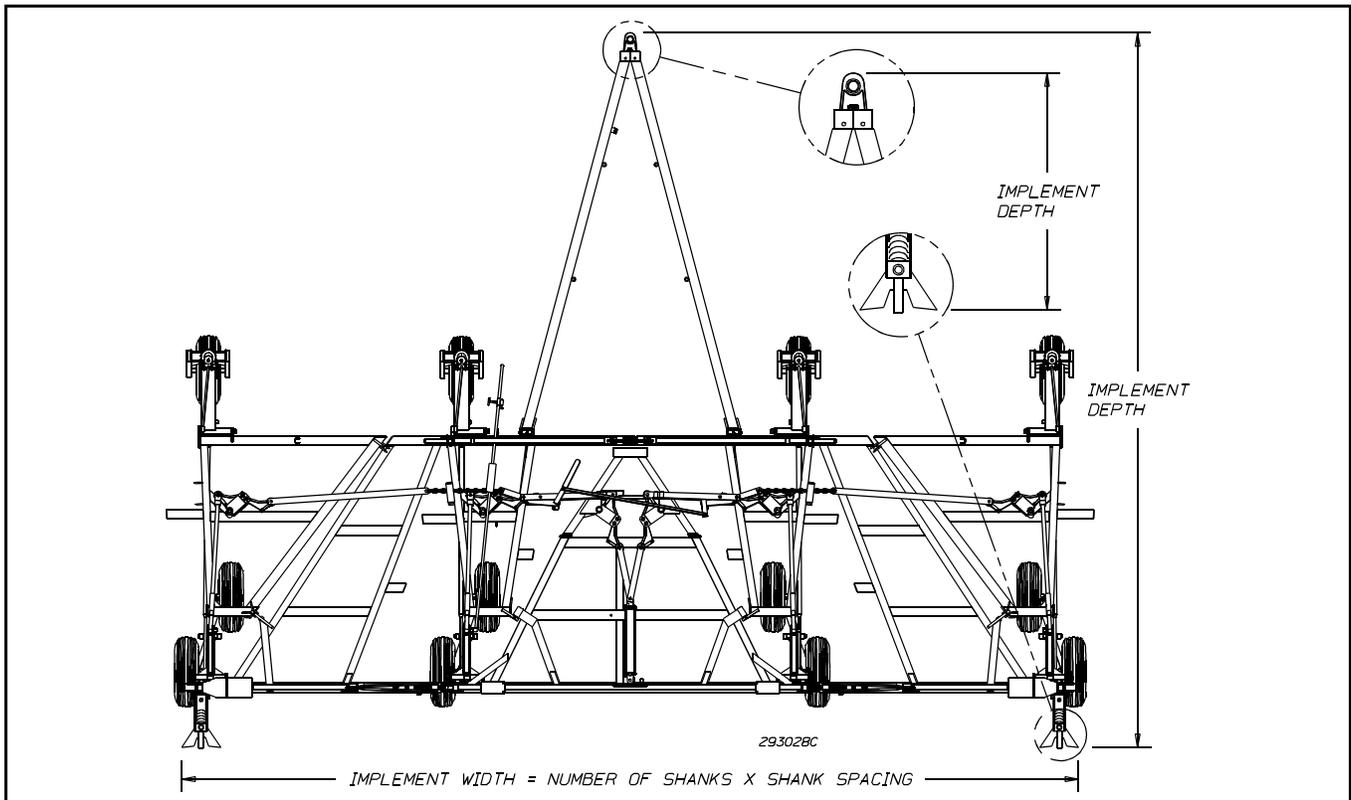
299306C

SECTION 1 - GENERAL INFORMATION

SPECIFICATIONS (STANDARD)



Front View - 3-Section



Top View - 3-Section

SECTION 1 - GENERAL INFORMATION

MACHINE SPECIFICATIONS - NORTH AMERICA - IMPERIAL UNITS

IMPLEMENT DIMENSIONS

	Frame Width (Feet)			Number of Shanks		Width of Cut		Transport Width	Transport Height	Overall Length
	center	inner	outer	9"	12"	9"	12"			
3-Section Models	13	-	6	35	-	26'3"	-	18'8"	12'6"	25'4"
	13	-	6	37	-	27'9"	-	18'8"	12'6"	25'4"
	13	-	6	-	27	-	27'	18'8"	12'6"	25'4"
	13	-	6	-	29	-	29'	18'6"	12'6"	25'4"
	13	-	9	43	-	32'3"	-	18'6"	15'2"	25'4"
	13	-	9	45	-	33'9"	-	18'6"	15'2"	25'4"
	13	-	9	-	33	-	33'	18'6"	15'2"	25'4"
	13	-	9	-	35	-	35'	18'6"	15'2"	25'4"
	16	-	9	47	-	35'3"	-	21'8"	15'2"	26'2"
	16	-	9	49	-	36'9"	-	21'8"	15'2"	26'2"
	16	-	9	-	36	-	36'	21'8"	15'2"	26'2"
	16	-	9	-	38	-	38'	21'8"	15'2"	26'2"
	13	-	12	51	-	38'3"	-	18'8"	17'11"	25'4"
	13	-	12	53	-	39'9"	-	18'8"	17'11"	25'4"
	13	-	12	-	39	-	39'	18'8"	17'11"	25'4"
	13	-	12	-	41	-	41'	18'8"	17'11"	25'4"
	16	-	12	55	-	41'3"	-	21'8"	17'11"	26'2"
	16	-	12	57	-	42'9"	-	21'8"	17'11"	26'2"
	16	-	12	-	42	-	42'	21'8"	17'11"	26'2"
	16	-	12	-	44	-	44'	21'8"	17'11"	26'2"
5-Section Models	13	9	12	59	-	44'3"	-	18'8"	13'10"	26'2"
	13	9	6	61	-	45'9"	-	18'8"	13'10"	24'4"
	13	9	6	-	45	-	45'	18'8"	13'10"	24'4"
	13	9	6	-	47	-	47'	18'8"	13'10"	25'4"
	16	9	6	63	-	47'3"	-	21'8"	13'10"	26'2"
	16	9	6	65	-	48'9"	-	21'8"	13'10"	26'2"
	16	9	6	-	48	-	48'	21'8"	13'10"	26'2"
	16	9	6	-	50	-	50'	21'8"	13'10"	26'2"
	16	12	6	71	-	53'3"	-	21'8"	16'10"	26'2"
	16	12	6	73	-	54'9"	-	21'8"	16'10"	26'2"
	16	12	6	-	54	-	54'	21'8"	16'10"	26'2"
	16	12	9	-	56	-	56'	21'8"	16'10"	26'2"
	16	12	9	79	-	59'3"	-	21'8"	16'10"	26'2"
	16	12	9	81	-	60'9"	-	21'8"	16'10"	26'2"
	16	12	9	-	60	-	60'	21'8"	16'10"	26'2"
16	12	9	-	62	-	62'	21'8"	16'10"	26'2"	

NOTE: Dimensions include sweeps; 12" sweeps on 9" shank spacing, and 16" sweeps on 12" shank spacing. Specifications subject to change without notice.

SECTION 1 - GENERAL INFORMATION

IMPLEMENT WEIGHT

	Base Width	Number of Shanks		Total Weight (lbs)	
		9" Shank Spacing	12" Shank Spacing	550 lb trips 9" Shank Spacing	650 lb trips 12" Shank Spacing
3-Section Machines	26'3"	35	-	11,648	-
	27'9"	37	-	11,881	-
	27'	-	27	-	11,145
	29'	-	29	-	11,417
	32'3"	43	-	12,913	-
	33'9"	45	-	13,177	-
	33'	-	33	-	12,400
	35'	-	35	-	12,686
	35'3"	47	-	13,567	-
	36'9"	49	-	13,831	-
	36'	-	36	-	13,002
	38'	-	38	-	13,288
	38'3"	51	-	14,782	-
	39'9"	53	-	15,046	-
	39'	-	39	-	14,037
	41'	-	41	-	14,323
	41'3"	55	-	15,478	-
	42'9"	57	-	15,742	-
42'	-	42	-	14,682	
44'	-	44	-	14,967	
5-Section Machines	44'3"	59	-	18,351	-
	45'9"	61	-	18,584	-
	45'	-	45	-	17,443
	47'	-	47	-	17,715
	47'3"	63	-	19,096	-
	48'9"	65	-	19,329	-
	48'	-	48	-	18,136
	50'	-	50	-	18,408
	53'3"	71	-	20,874	-
	54'9"	73	-	21,107	-
	54'	-	54	-	19,669
	56'	-	56	-	19,941
	59'3"	79	-	22,222	-
	60'9"	81	-	22,486	-
	60'	-	60	-	21,007
62'	-	62	-	21,293	

NOTE: Weights provided are based on a 550 lb trips for 9" spacing and 650 lb trips for 12" spacing; and do not include ground engaging tools or harrows.

SECTION 1 - GENERAL INFORMATION

MACHINE SPECIFICATIONS - NORTH AMERICA - METRIC UNITS

IMPLEMENT DIMENSIONS

Frame Width (Meters)				Number of Shanks		Width of Cut (Meters)		Transport Width (Meters)	Transport Height (Meters)	Overall Length (Meters)
center	inner	outer	229 mm	305 mm	229 mm	305 mm				
3-Section Models	3.96	-	1.83	35	-	8	-	5.7	3.8	7.7
	3.96	-	1.83	37	-	8.5	-	5.7	3.8	7.7
	3.96	-	1.83	-	27	-	8.2	5.7	3.8	7.7
	3.96	-	1.83	-	29	-	8.8	5.6	3.8	7.7
	3.96	-	2.74	43	-	9.8	-	5.6	4.6	7.7
	3.96	-	2.74	45	-	10.3	-	5.6	4.6	7.7
	3.96	-	2.74	-	33	-	10.1	5.6	4.6	7.7
	3.96	-	2.74	-	35	-	10.7	5.6	4.6	7.7
	4.88	-	2.74	47	-	10.8	-	6.6	4.6	8
	4.88	-	2.74	49	-	11.2	-	6.6	4.6	8
	4.88	-	2.74	-	36	-	10.9	6.6	4.6	8
	4.88	-	2.74	-	38	-	11.6	6.6	4.6	8
	3.96	-	3.66	51	-	11.7	-	5.7	5.5	7.7
	3.96	-	3.66	53	-	12.1	-	5.7	5.5	7.7
	3.96	-	3.66	-	39	-	11.9	5.7	5.5	7.7
	3.96	-	3.66	-	41	-	12.5	5.7	5.5	7.7
	4.88	-	3.66	55	-	12.6	-	6.6	5.5	7.9
	4.88	-	3.66	57	-	13	-	6.6	5.5	7.9
	4.88	-	3.66	-	42	-	12.8	6.6	5.5	7.9
	4.88	-	3.66	-	44	-	13.4	6.6	5.5	7.9
5-Section Models	3.96	2.74	3.66	59	-	13.5	-	5.7	4.2	7.9
	3.96	2.74	1.83	61	-	13.9	-	5.7	4.2	7.4
	3.96	2.74	1.83	-	45	-	13.7	5.7	4.2	7.4
	3.96	2.74	1.83	-	47	-	14.3	5.7	4.2	7.7
	4.88	2.74	1.83	63	-	14.4	-	6.6	4.2	8
	4.88	2.74	1.83	65	-	14.9	-	6.6	4.2	8
	4.88	2.74	1.83	-	48	-	14.6	6.6	4.2	8
	4.88	2.74	1.83	-	50	-	15.2	6.6	4.2	8
	4.88	3.66	1.83	71	-	16.3	-	6.6	5.1	8
	4.88	3.66	1.83	73	-	16.7	-	6.6	5.1	8
	4.88	3.66	1.83	-	54	-	16.5	6.6	5.1	8
	4.88	3.66	2.74	-	56	-	17.1	6.6	5.1	8
	4.88	3.66	2.74	79	-	18	-	6.6	5.1	8
	4.88	3.66	2.74	81	-	18.5	-	6.6	5.1	8
	4.88	3.66	2.74	-	60	-	18.3	6.6	5.1	8
4.88	3.66	2.74	-	62	-	18.9	6.6	5.1	8	

NOTE: Dimensions include sweeps - 305 mm sweeps on 183 mm or 229 mm shank spacing, and 410 mm sweeps on 305 mm shank spacings. Specifications subject to change without notice.

SECTION 1 - GENERAL INFORMATION

IMPLEMENT WEIGHT

	Base Model Width (Meters)	Number of Shanks		Total Weight (kgs)	
		229 mm Shank Spacing	305 mm Shank Spacing	229 mm Shank Spacing 250 kg trips	305 mm Shank Spacing 295 kg trips
3-Section Models	8	35	-	5,283	-
	8.5	37	-	5,389	-
	8.2	-	27	-	5,055
	8.8	-	29	-	5,179
	9.8	43	-	5,857	-
	10.3	45	-	5,977	-
	10.1	-	33	-	5,625
	10.7	-	35	-	5,754
	10.8	47	-	6,154	-
	11.2	49	-	6,274	-
	11	-	36	-	5,898
	11.6	-	38	-	6,027
	11.7	51	-	6,705	-
	12.1	53	-	6,825	-
	11.9	-	39	-	6,367
	12.5	-	41	-	6,497
	12.6	55	-	7,021	-
	13	57	-	7,141	-
12.9	-	42	-	6,660	
13.4	-	44	-	6,789	
5-Section Models	13.5	59	-	8,324	-
	14	61	-	8,430	-
	13.7	-	45	-	7,912
	14.3	-	47	-	8,035
	14.4	63	-	8,662	-
	14.9	65	-	8,768	-
	14.6	-	48	-	8,226
	15.2	-	50	-	8,350
	16.2	71	-	9,468	-
	16.7	73	-	9,574	-
	16.5	-	54	-	8,922
	17.1	-	56	-	9,045
	18.1	79	-	10,080	-
	18.5	81	-	10,200	-
	18.3	-	60	-	9,529
18.9	-	62	-	9,658	

NOTE: The weights provided do not include ground engaging tools or harrows.

SECTION 1 - GENERAL INFORMATION

MACHINE SPECIFICATIONS - AUSTRALIA- IMPERIAL UNITS

IMPLEMENT DIMENSIONS

Frame Width (Feet)				Number of Shanks for the following shank spacing widths			Width of Cut (Feet) for the following shank spacing widths			Transport Width	Transport Height	Overall Length
center	inner	outer	7.2"	9" / 9" alternate	12"	7.2"	9" / 9" alternate	12"				
3-Section Models	13	-	6	43	-	-	25'10"	-	-	18'8"	12'6"	25'4"
	13	-	6	-	35	-	-	26'3"	-	18'8"	12'6"	25'4"
	13	-	6	47	-	-	28'2"	-	-	18'8"	12'6"	25'4"
	13	-	6	-	-	29	-	-	29'	18'6"	12'6"	25'4"
	13	-	6	-	39	-	-	29'3"	-	18'8"	12'6"	25'4"
	13	-	9	57	-	-	34'2"	-	-	18'8"	15'2"	25'4"
	13	-	9	-	-	35	-	-	35'	18'6"	15'2"	25'4"
	13	-	9	-	47	-	-	35'3"	-	18'8"	15'2"	25'4"
	16	-	9	62	-	-	37'2"	-	-	21'8"	15'2"	26'2"
	16	-	9	-	-	38	-	-	38'	21'8"	15'2"	26'2"
	16	-	9	-	51	-	-	38'3"	-	21'8"	15'2"	26'2"
	13	-	12	-	-	41	-	-	41'	18'8"	17'11"	25'4"
	13	-	12	-	55	-	41'3"	-	-	18'8"	17'11"	25'4"
	16	-	12	-	-	44	-	-	44'	21'8"	17'11"	26'2"
	16	-	12	68	-	-	40'10"	-	-	21'8"	17'11"	26'2"
	16	-	12	-	59	-	-	44'3"	-	21'8"	17'11"	26'2"
5-Section Models	13	9	6	77	-	-	46'2"	-	-	18'8"	13'10"	26'2"
	13	9	6	-	-	47	-	-	47'	18'8"	13'10"	26'2"
	13	9	6	-	63	-	-	47'3"	-	18'8"	13'10"	26'2"
	16	9	6	82	-	-	49'2"	-	-	21'8"	13'10"	26'2"
	16	9	6	-	-	50	-	-	50'	21'8"	13'10"	26'2"
	16	9	6	-	67	-	-	50'3"	-	21'8"	10'10"	26'2"
	16	12	6	92	-	-	55'2"	-	-	21'8"	16'10"	26'2"
	16	12	6	-	-	56	-	-	56'	21'8"	16'10"	26'2"
	16	12	6	-	75	-	-	56'3"	-	21'8"	16'10"	26'2"
	16	12	9	102	-	-	61'2"	-	-	21'8"	16'10"	26'2"
	16	12	9	-	-	62	-	-	62'	21'8"	16'10"	26'2"
	16	12	9	-	83	-	-	62'3"	-	21'8"	16'10"	26'2"

NOTE: Dimensions include sweeps - 12" sweeps on 7.2" or 9" shank spacing, and 16" sweeps on 12" shank spacing. Specifications subject to change without notice.

SECTION 1 - GENERAL INFORMATION

IMPLEMENT WEIGHT

	Base Model Width (Feet)	Number of Shanks			Total Weight with:		
		7.2" Shank Spacing	9" and 9" Alternate Shank Spacing	12" Shank Spacing	350 lb trips	550 lb trips	650 lb trips
					7.2" Shank Spacing	9" and 9" Alternate Shank Spacing	12" Shank Spacing
3-Section Models	25.8	43	-	-	11,978	-	-
	26.25	-	35 / 35	-	-	11,648	-
	28.2	47	-	-	12,604	-	-
	29	-	-	29	-	-	11,417
	29.25	-	39 / 39	-	-	12,175	-
	34.2	57	-	-	14,267	-	-
	35	-	-	35	-	-	12,686
	35.25	-	47 / 47	-	-	13,567	-
	37.2	62	-	-	15,042	-	-
	38	-	-	38	-	-	13,288
	38.25	-	51 / 51	-	-	14,188	-
	41	-	-	41	-	-	14,323
	41.25	-	55 / 55	-	-	15,403	-
	44	-	-	44	-	-	14,967
	40.8	68	-	-	-	16,439	-
44.25	-	59 / 59	-	-	18,351	-	
5-Section Models	46.2	77	-	-	19,974	-	-
	47	-	-	47	-	-	17,715
	47.25	-	63 / 63	-	-	18,868	-
	49.2	82	-	-	20,791	-	-
	50	-	-	50	-	-	18,408
	50.25	-	67 / 67	-	-	19,613	-
	55.2	92	-	-	22,673	-	-
	56	-	-	56	-	-	19,941
	56.25	-	75 / 75	-	-	21,391	-
	61.2	102	-	-	24,259	-	-
	62	-	-	62	-	-	21,293
	62.25	-	83 / 83	-	-	22,833	-

NOTE: Weights provided do not include ground engaging tools or harrows.

SECTION 1 - GENERAL INFORMATION

MACHINE SPECIFICATIONS - AUSTRALIA - METRIC UNITS

IMPLEMENT DIMENSIONS

Frame Width (Meters)			Number of Shanks for the following shank spacing widths			Width of Cut (Meters) for the following shank spacing widths			Transport Width (Meters)	Transport Height (Meters)	Overall Length (Meters)	
center	inner	outer	183 mm	229 mm	305 mm	183 mm	229 mm	305 mm				
3-Section Models	3.96	-	1.83	43	-	-	7.9	-	-	5.7	3.8	7.7
	3.96	-	1.83	-	35	-	-	8	-	5.7	3.8	7.7
	3.96	-	1.83	47	-	-	8.6	-	-	5.7	3.8	7.7
	3.96	-	1.83	-	-	29	-	-	8.8	5.6	3.8	7.7
	3.96	-	1.83	-	39	-	-	8.9	-	5.7	3.8	7.7
	3.96	-	2.74	57	-	-	10.4	-	-	5.7	4.6	7.7
	3.96	-	2.74	-	-	35	-	-	10.7	5.6	4.6	7.7
	3.96	-	2.74	-	47	-	-	10.8	-	5.7	4.6	7.7
	4.88	-	2.74	62	-	-	11.3	-	-	6.6	4.6	8
	4.88	-	2.74	-	-	38	-	-	11.6	6.6	4.6	8
	4.88	-	2.74	-	51	-	-	11.7	-	6.6	4.6	8
	3.96	-	3.66	-	-	41	-	-	12.5	5.7	5.5	7.7
	3.96	-	3.66	-	55	-	12.6	-	-	5.7	5.5	7.7
	4.88	-	3.66	-	-	44	-	-	13.4	6.6	5.5	8
	4.88	-	3.66	68	-	-	12.4	-	-	6.6	5.5	8
	4.88	-	3.66	-	59	-	-	13.5	-	6.6	5.5	8
5-Section Models	3.96	2.74	1.83	77	-	-	14.1	-	-	6.6	4.2	8
	3.96	2.74	1.83	-	-	47	-	-	14.3	6.6	4.2	8
	3.96	2.74	1.83	-	63	-	-	14.4	-	5.7	4.2	8
	4.88	2.74	1.83	82	-	-	15	-	-	6.6	4.2	8
	4.88	2.74	1.83	-	-	50	-	-	15.2	6.6	4.2	8
	4.88	2.74	1.83	-	67	-	-	15.3	-	6.6	3.3	8
	4.88	3.66	1.83	92	-	-	16.8	-	-	6.6	5.1	8
	4.88	3.66	1.83	-	-	56	-	-	17.1	6.6	5.1	8
	4.88	3.66	1.83	-	75	-	-	17.2	-	6.6	5.1	8
	4.88	3.66	2.74	102	-	-	18.7	-	-	6.6	5.1	8
	4.88	3.66	2.74	-	-	62	-	-	18.9	6.6	5.1	8
	4.88	3.66	2.74	-	83	-	-	19	-	6.6	5.1	8

NOTE: Dimensions include sweeps - 305 mm sweeps on 183 mm or 229 mm shank spacing, and 410 mm sweeps on 305 mm shank spacings. Specifications subject to change without notice.

SECTION 1 - GENERAL INFORMATION

IMPLEMENT WEIGHT

Base Model Width (Meters)	Number of Shanks			Total Weight (kg)			
	183 mm Shank Spacing	229 mm and 229 mm alternate Shank Spacing	305 mm Shank Spacing	160 kg trips	250 kg trips	295 kg trips	
				183 mm Shank Spacing	229 mm and 229 mm alternate Shank Spacing	305 mm Shank Spacing	
3-Section Models	7.9	43	-	-	5,433	-	-
	8	-	35 / 35	-	-	5,283	-
	8.6	47	-	-	5,717	-	-
	8.8	-	-	29	-	-	5,179
	8.9	-	39 / 39	-	-	5,523	-
	10.4	57	-	-	6,471	-	-
	10.7	-	-	35	-	-	5,754
	10.8	-	47 / 47	-	-	6,154	-
	11.3	62	-	-	6,823	-	-
	11.6	-	-	38	-	-	6,027
	11.7	-	51 / 51	-	-	6,436	-
	12.5	-	-	41	-	-	6,497
	12.6	-	55 / 55	-	-	6,987	-
	13.4	-	-	44	-	-	6,789
	12.4	68	-	-	7,457	-	-
13.5	-	59 / 59	-	-	8,324	-	
5-Section Models	14.1	77	-	-	9,060	-	-
	14.3	-	-	47	-	-	8,035
	14.4	-	63 / 63	-	-	8,558	-
	15	82	-	-	9,431	-	-
	15.2	-	-	50	-	-	8,350
	15.3	-	67 / 67	-	-	8,896	-
	16.8	92	-	-	10,284	-	-
	17.1	-	-	56	-	-	9,045
	17.2	-	75 / 75	-	-	9,703	-
	18.7	102	-	-	11,004	-	-
	18.9	-	-	62	-	-	9,658
19	-	83 / 83	-	-	10,357	-	

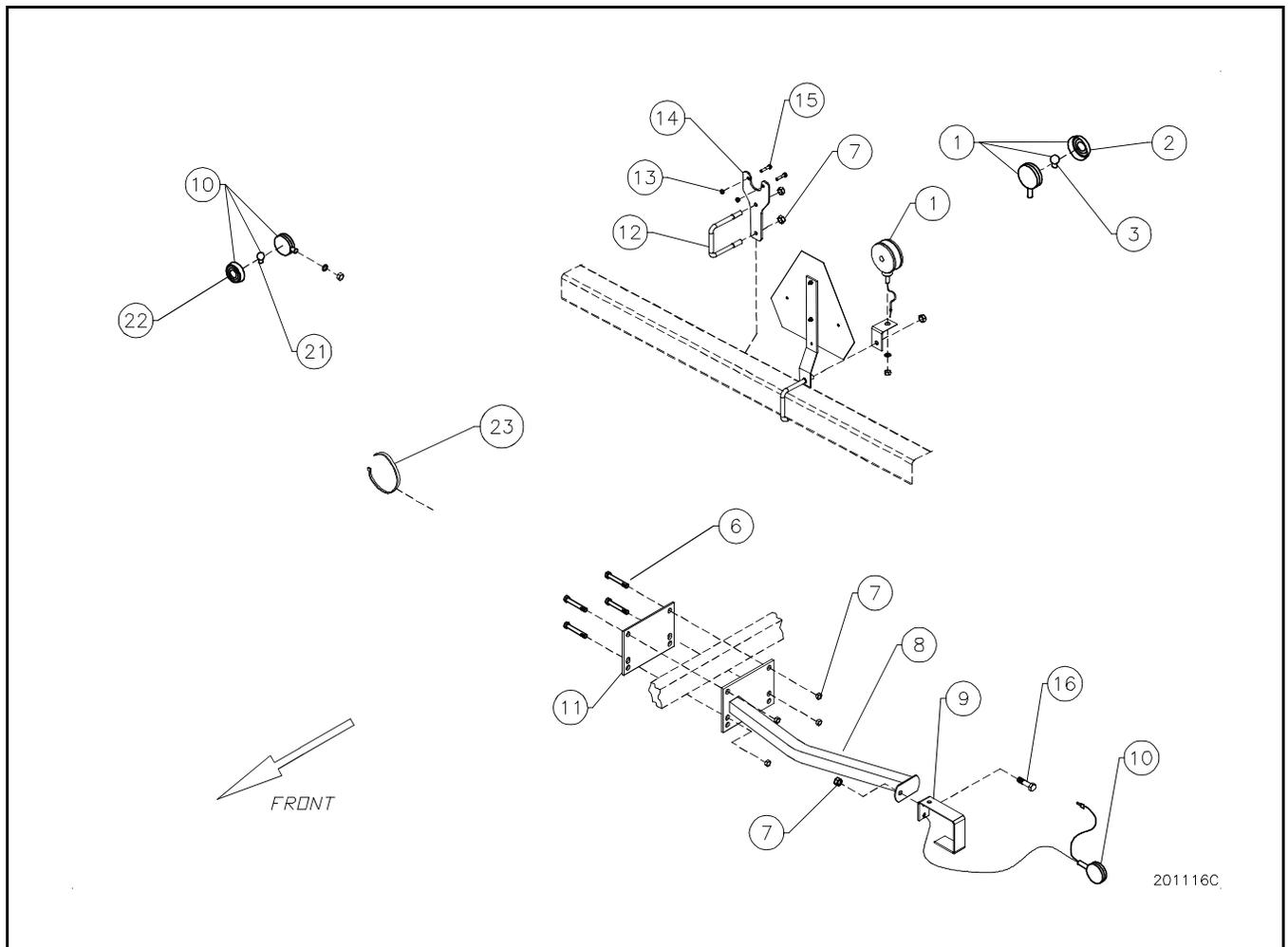
NOTE: Weights provided do not include ground engaging tools or harrows.

SECTION 1 - GENERAL INFORMATION

REFLECTOR DECALS, SLOW MOVING VEHICLE SIGN AND TRANSPORT LIGHTING

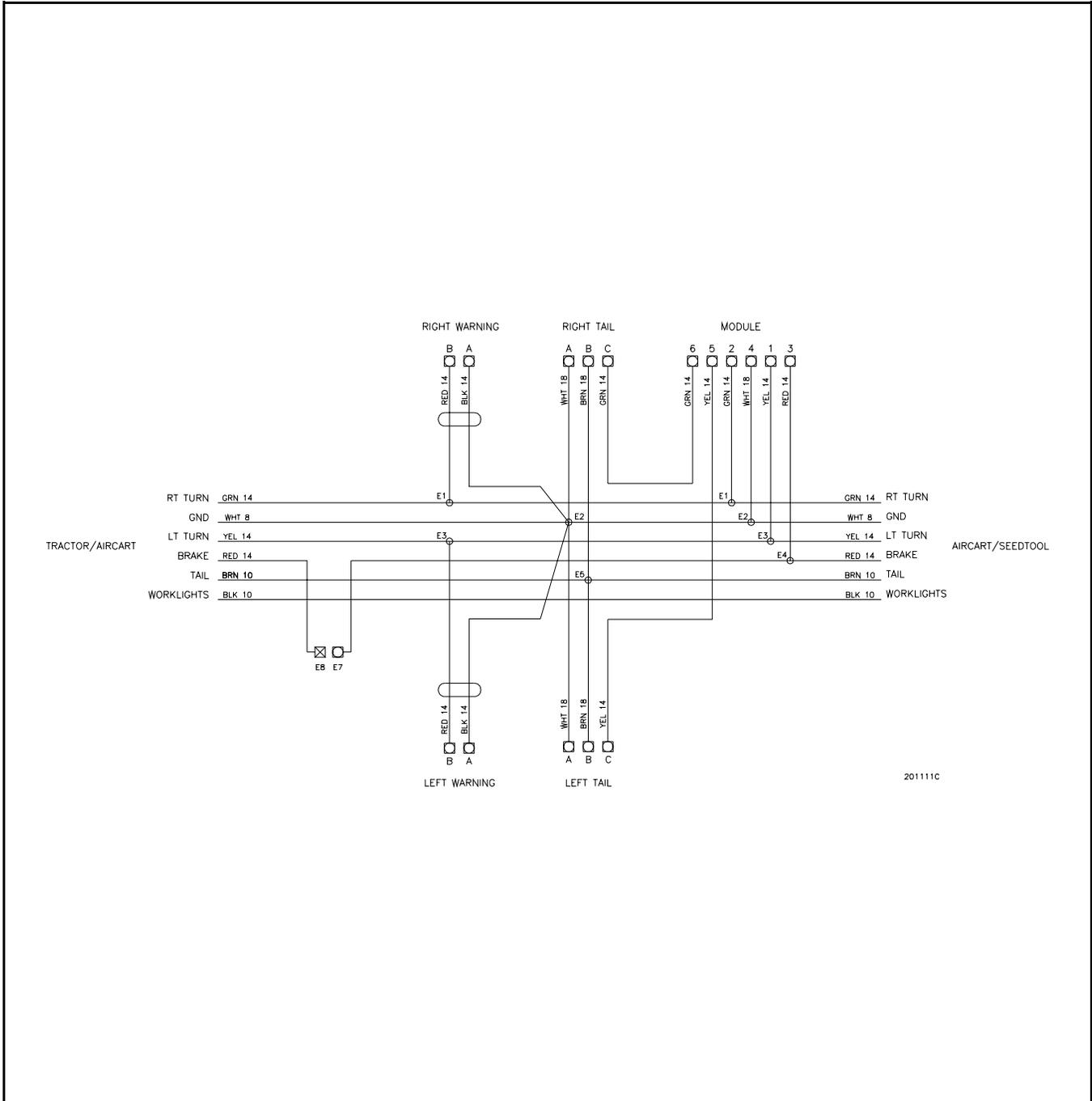
REF	DESCRIPTION	REF	DESCRIPTION
1	TAIL LIGHT ASSEMBLY, RED	10	LIGHT ASSEMBLY, WARNING - AMBER
2	LENS, RED	11	BACKING PLATE, UNIVERSAL
3	BULB, DOUBLE CONTACT	12	U-BOLT SQ .5" X 4.125"W X 5.25"D
4	MOUNT BRACKET, RED LIGHT	13	LOCKNUT .313" UNC
5	MOUNT BRACKET, RED LIGHT	14	BRACKET, PLUG RECEPTACLE
6	BOLT .5 X 3.5 GR. 5	15	BOLT .313 X 1.5 GR. 5
6	BOLT .5 X 5.5 GR. 5	16	BOLT .5 X 1 GR. 5
6	BOLT .5 X 7.5 GR. 5	21	BULB, SINGLE CONTACT
7	LOCKNUT .5" UNC	22	LENS, AMBER
8	BRACKET, AMBER LIGHT	23	CABLE TIE STRAP 21"
9	SHIELD, AMBER SAFETY LIGHT	23	CABLE TIE STRAP 14"

Transport Lights, Reflector Decals and SMV Sign



Transport Lighting Assembly

SECTION 1 - GENERAL INFORMATION



201111C

Transport Lighting Wiring Schematic

UNITS OF MEASURE

ABBREVIATIONS

Acres	ac	Kilometers per hour	km/hr
Atmospheres	atm	Kilopascal	kPa
Bushel	bu	Kilowatt	kW
Centimeters	cm	Liters per hectare	L/ha
Cubic Meters	m ³	Liters per minute	L/min
Cubic Feet	ft ³	Liters	L
Degrees Fahrenheit	F°	Meters	m or M
Degrees Celsius	C°	Miles per hour	mph
Feet	ft	Milliliters	mL
Fluid ounces	oz	Millimeters	mm
Gallons/minute	gal/m	Newton Meters	N·M
Gallons per acre	gal/ac	Ounces	oz
Gallons	gal	Pound force inches	lbf·in
Hectares	ha	Pound force feet	lbf·ft
Horsepower	hp	Pounds per square inch	PSI
Inch	in	Pounds	lbs
Kilograms per hectare	kg/ha	Pounds per acre	lbs/ac
Kilograms	kg	Ton (short)	t
Kilometer	km	Tonne	t