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"			

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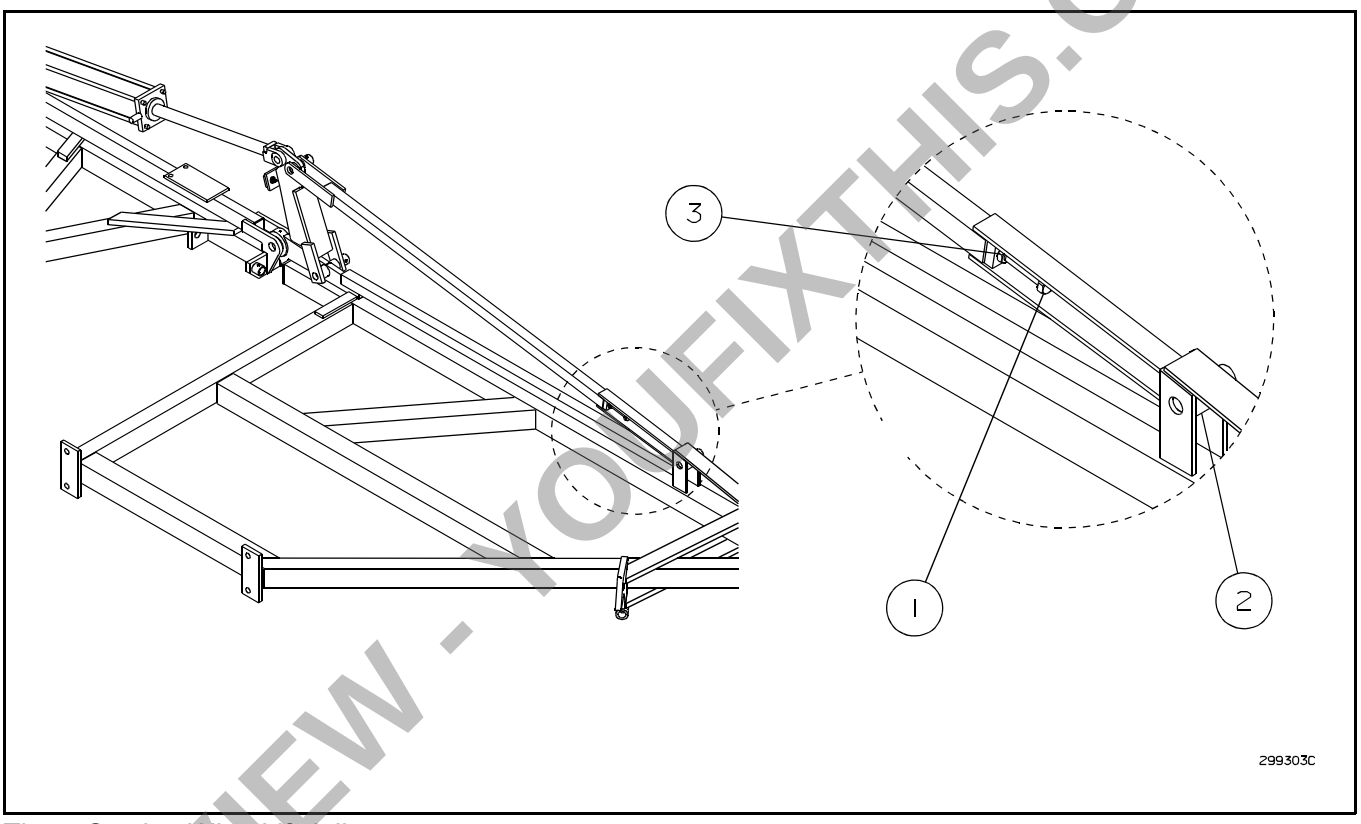
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WING LIFT ADJUSTMENT - THREE SECTION OUTER WING

IMPORTANT: Before operating the wing lift cylinders, adjust the wing lift linkage as follows. Failure to do so will result in unnecessary stress on the wings during transport of equipment.

1. Adjust bolt (1) in as far as possible.
2. Raise the wings completely and measure the distance between the roller (2) and the head of the bolt (1).
3. Lower the wings, extend bolt (1) outwards the measured distance and lock bolt in place using the jamnut (3).
4. Raise wings and check results. Bolt (1) should contact roller (2) just as cylinder bottoms.



Three-Section Wing Lift Adjustment

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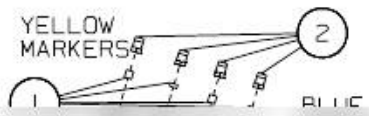
CENTER SECTION ASSEMBLY - 4 METER (13 FOOT)

REF	DESCRIPTION	REF	DESCRIPTION
1	GREASE ZERK, STRAIGHT .25" NFT	25	CYLINDER PIN (Monarch Cylinders - clevis end)
2	LOCKNUT 1" UNC	26	SNAP RING
3	LOCKNUT .375" UNC	27	CYLINDER PIN (Monarch Cylinders - clevis end)
4	FLAT WASHER, .688" ID - FOR .625"BOLT	27	CYLINDER PIN (Monarch Cylinders - rod end)
5	S.M.V. SIGN	28	CYLINDER - 5" X 40" - MONARCH* 3000 PSI (43', 45' and 47' Machines) (Shown)
6	BOLT 1 X 7 GR. 5	28	CYLINDER - 5" X 30" - MONARCH* 3000 PSI (37', 39' and 41' Machines) (Not Shown)
7	BOLT 1 X 3 GR. 5	29	BUSHING, SPHERICAL - SEALED
8	BOLT .25 X .75 GR. 5	30	BUSHING, TENSION
9	LOCKNUT .25" UNC	31	FLAT WASHER, 1.51" ID X 2.5" OD -HARDENED
10	LOCKNUT .625" UNC	32	FLEX TUBE, 1.56" ID X 2.19" - FLANGED
11	BOLT .625 X 2 GR. 5	33	HOSE CLAMP FLAT
12	BUSHING, TENSION	34	BRACKET, S.M.V. SIGN
13	BOLT 1 X 8 GR. 5	35	CENTER SECTION FRAME PIVOT JUNCTION
14	U-BOLT SQ .625" X 4.063" X 5.375"D	36	LINK, KING POST
15	BOLT 1.25 X 4.5 GR. 5	37	ROLLER REST (43', 45' and 47' Machines)
16	LOCKNUT 1.25" UNC	38	MOUNT PLATE, CYLINDER (25', 27', 29', 31', 33', 35', 37', 39' and 41' Machines)
17	BUSHING, TENSION	39	SLEEVE, 1" ID X 1.5" OD X 5.625" LONG
18	FLAT WASHER, .1062" ID - FOR 1"BOLT	40	SLEEVE, 1" ID X 1.5" OD X 6.875" LONG
19	FLAT WASHER, 1.063" ID X 3" OD -HARDENED	41	SPACER, 1.438" OD X 2.25" LONG
20	SNAP RING	42	MOUNTING SHELL, SPHERICAL BUSHING - 1.5" BALL
21	BOLT 1" X 8.5" UNC GR5	43	CENTER SECTION FRAME, FRONT - LEFT 13'
22	CYLINDER - 4" X 32" - MONARCH*(25'. 27', 29', 31', 33' and 35' Machines)	44	CENTER SECTION FRAME, FRONT - RIGHT 13'
23	DECAL - "GREASE 50 HOURS"	45	CENTER SECTION FRAME, REAR 13'
24	DECAL - "GREASE 200 HOURS"	46	DECAL - "CAUTION PROCEED CAUTIOUSLY"

4 Meter (13') Center Section Components

* Monarch® is a registered trademark of Monarch Industries Limited.

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TROUBLESHOOTING TABLES

NOTE: For troubleshooting problems with your specific opener, refer to the operator's manual for that opener.

PROBLEM	POSSIBLE CAUSES	POSSIBLE SOLUTIONS
Shovels behind tractor wheels not entering ground.	1. Soil has been compressed so the sweep does not enter the same amount of soil.	1. Lower the shank to enter the suitable amount of soil. Optional spacer blocks are available which will lower the shanks. Contact the parts department.
On 5-section machines with harrows mounted, the harrows interfere with each other when winging up.	1. Harrows are locked in the raised position.	1. Harrows may interfere with each other if locked in the raised position on some 5-section machines. When winging up, place the harrows in the lowered position.
Front shovels not cutting as deep as rear shovels.	1. Cultivator is not level. 2. Incorrect tire pressures.	1. Refer to Section 2 to level cultivator. 2. Inflate tires to correct pressure.
Cultivator not cutting evenly from side to side.	1. Cultivator is not level. 2. Incorrect tire pressures. 3. Incorrect sweep pitch. 4. Trips fastened to frame incorrectly. 5. Mud build-up on tires.	1. Refer to Section 2 to level cultivator. 2. Inflate tires to correct pressure (refer to Section 3). 3. Refer to Section 2 to adjust sweep pitch. 4. Ensure trip is square on frame and entire trip mount face contacts frame. 5. Mud scrapers are required for seeding. See your dealer.

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	GRADE 2*				GRADE 5, 5.1, OR 5.2				GRADE 8 OR 8.2				L9 (ALLOY)			
	Dry **		Lubricated**		Dry **		Lubricated**		Dry **		Lubricated**		Head		Nut	
SIZE	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft	N·m	lbf·ft

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THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF DEATH OR SERIOUS INJURY.

M171C

If Safety Decals on this machine use the words **Danger, Warning or Caution,** which are defined as follows:

- **DANGER:** Indicates an immediate 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 an potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.

WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow CNH America LLC instructions on machine operation and maintenance.

NW-010V2 Issued March, 2005

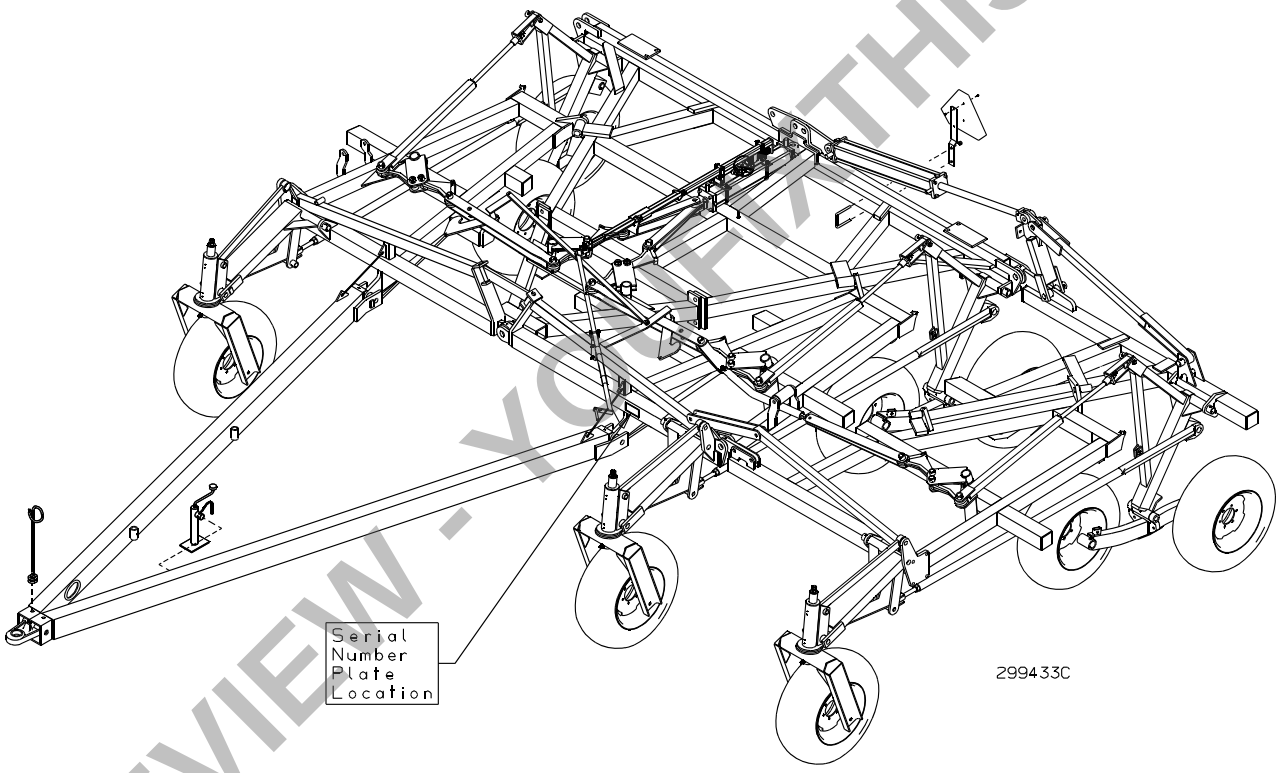
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This implement has a Product Identification Number (PIN) plate. The plate looks like the sample at right. For easy reference, locate the PIN plate at the location shown on the figure below. Record the number on this sheet. When requiring repair parts, take this number into your dealer.

NOTE: This PIN plate replaces the Serial Number plate found on machines manufactured prior to June 2004.





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BALL HOUSING AND/OR BALL JOINT REPLACEMENT ON THE 16 FOOT CENTER SECTION

Repair or replacement of the ball joint on the 16' center section is more difficult. Allow generous amounts of time for disassembly and reassembly.

For the 16' center section, (8) will have to be disassembled in order to repair the ball joint. Refer to the following parts explosion for more detail.

To align the center joint proceed as follows:

1. The frame members must first be assembled with the polyurethane sleeve (4) in place.

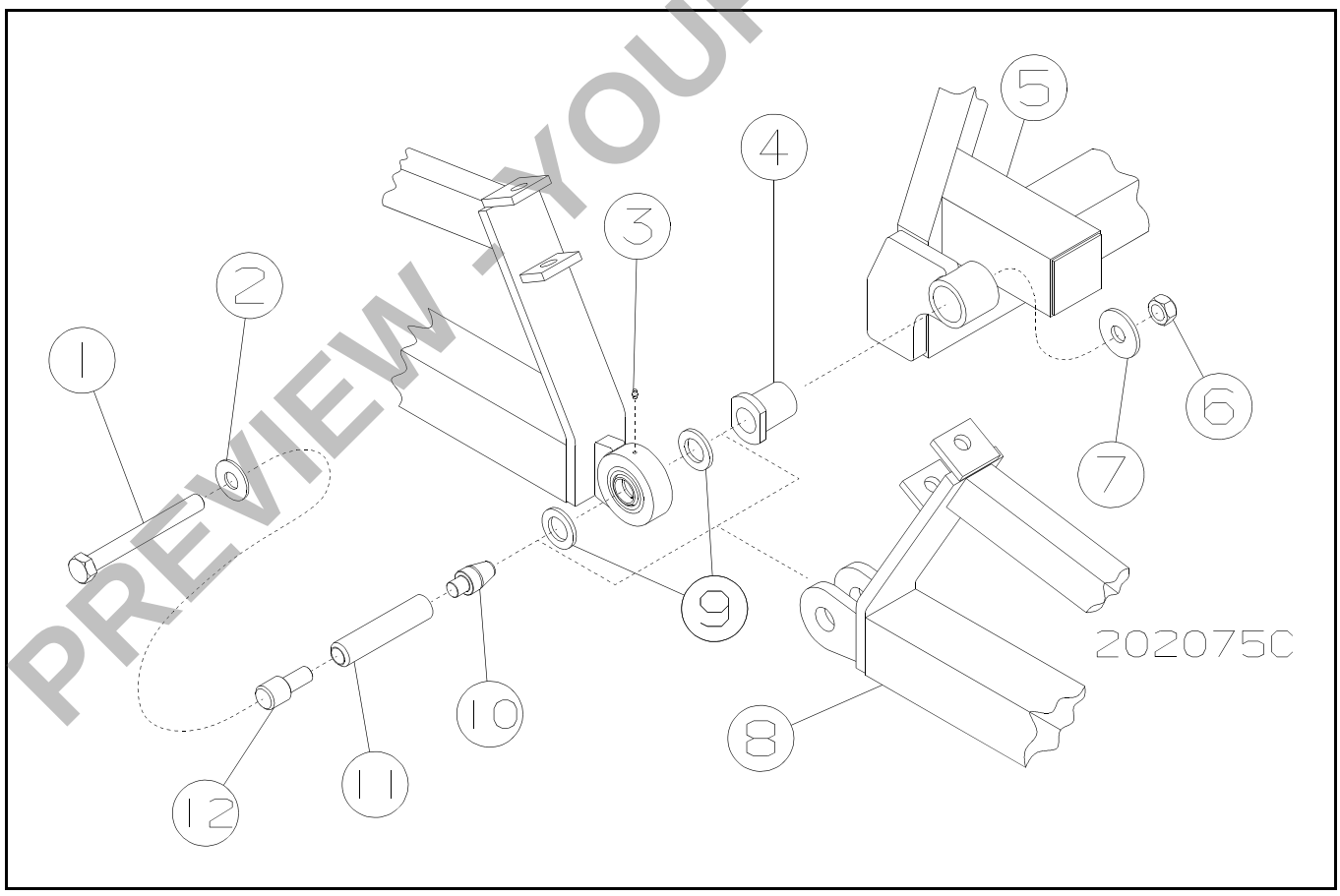
2. Assemble (10) and (12) into the 1.0" ID x 1.5" OD x 6.875" long sleeve (11). If pieces (10) and (12) are not available, the chamfered end of sleeve should be inserted into the joint first.

When reassembling the center section, the kit NW-487K will help assist in the realignment of the center joint, wings, and center section. Kit NW-487K (Center Tube Alignment) includes two parts: a tube aligning point (10) and a tube aligning base (11). These parts will assist in driving the sleeve (11) back into the center pivot point after the ball joint or ball joint housing has been replaced.

3. Drive in the assembly ensuring that the required platewashers (9) are in position. When sleeve is partially installed remove (10) to prevent interference with the center section (5).

4. Drive in assembly until sleeve is flush with front hinge of (8).

5. Remove (12) from the sleeve and complete the assembly of the joint.



Center Joint Alignment

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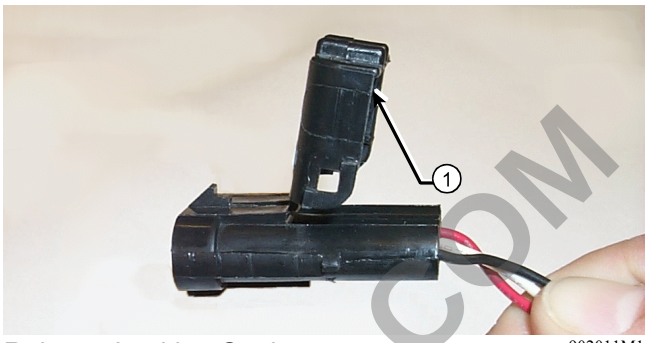
CONTACT REMOVAL (PACKARD WEATHER PACK)

Terminal Removal

This tool is designed to remove Weather Pack and Compac 1 terminals from the connector.

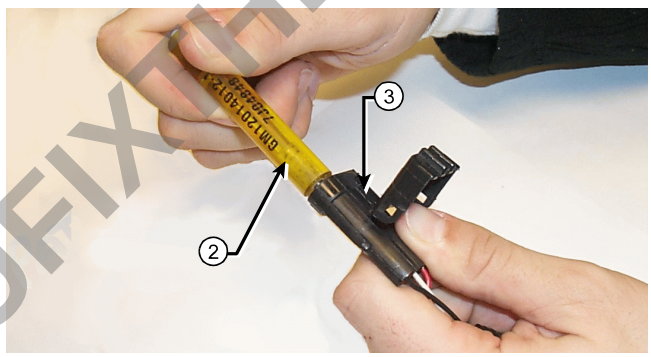
1. Open connector secondary lock (1).

2. Grasp the lead and push the terminal to the forward-most position.



Release Locking Seal 902011M1

3. Insert tool (2) straight into front of connector cavity (3) until it rests on cavity shoulder.

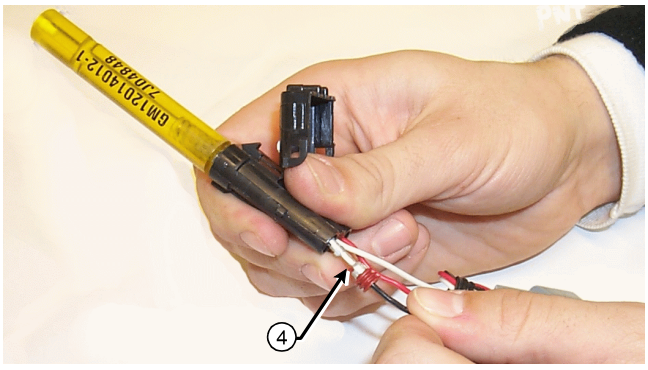


Insert Tool to Release Connector 902012M1

4. While securely holding the connectors, grasp the lead (4) and pull it out of the connector cavity.

5. Terminal tangs will depress to unseat terminal. Gently pull the terminal out of the back of the connector.

6. Never use excessive force to pull terminal out of the connector. Use of force will result in lock tang damage.



Remove Connector 902013M1

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