

Harrow Attachment



JOHN DEERE

OPERATORS MANUAL

Harrow
Attachment

OMN200008 F4 English

John Deere Des Moines Works
OMN200008 F4

LITHO IN U.S.A.
ENGLISH



TO THE PURCHASER

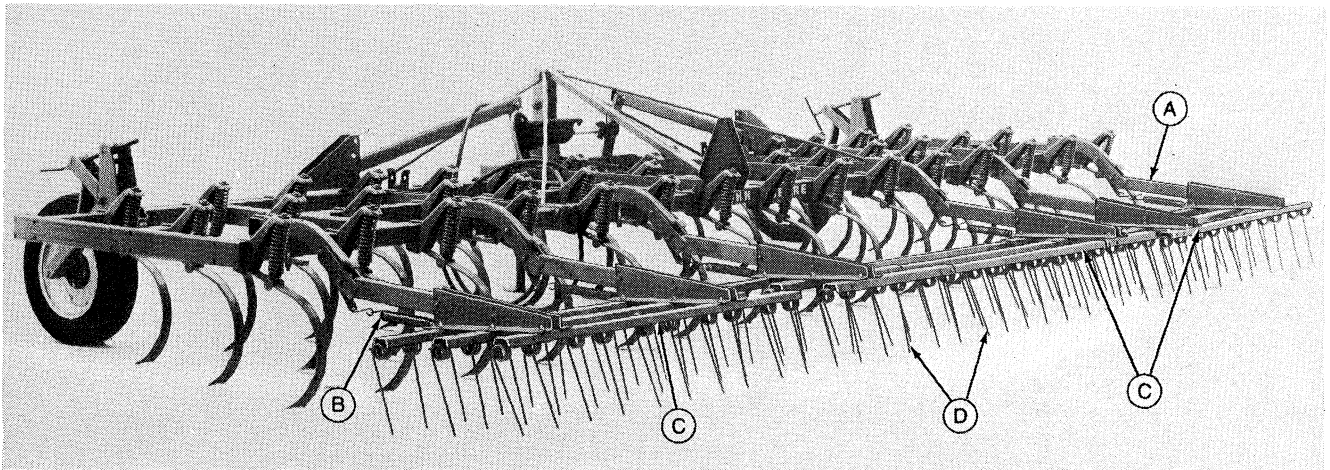


This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of bodily injury and carefully read the message that follows.

Measurements are shown with their respective Metric equivalents in parenthesis throughout this operator's manual. These equivalents are the SI (International System) Units of Measure.

"Right-hand" and "left-hand" sides are determined by facing in the direction the harrow will travel when in use.

Your warranty appears on your copy of the purchase order which you should have received from your dealer.



N36177

- A—Drawbar
- B—Down-Pressure Spring
- C—Tine Bar
- D—Tines

John Deere Harrow Attachment on Model 1010 Integral Field Cultivator

HARROW ATTACHMENT

PREDELIVERY CHECK LIST

After the harrow attachment has been completely assembled, inspect to be sure it is in good running order before delivering to the customer. The following check list is a reminder of points to inspect. Check off each item as it is found satisfactory or after proper adjustment is made.

- ☐ Make sure all the customer-ordered attachments have been installed.
- ☐ Any parts scratched in shipment have been touched up with paint.
- ☐ This harrow has been thoroughly checked and to the best of my knowledge, is ready for delivery to the customer.

Signature

Date

DELIVERY CHECK LIST

At the time the harrow is delivered, the following check list is a reminder of information which should be conveyed directly to the customer. Check off each item as it is fully explained to customer.

- ☐ Give the operator's manual to the customer and explain all operating adjustments.
- ☐ Advise the customer of all the safety precautions that must be exercised while using this harrow.
- ☐ When the harrow is transported on a road or highway at night or during the day, accessory lights and devices should be used for adequate warning to operators of other vehicles. In this regard, tell customer to check local governmental regulations.
- ☐ To the best of my knowledge, this machine has been delivered ready for field use and the customer has been fully informed as to proper care and operation.

Signature

Date

OWNER REGISTRATION

Name _____

Post Office _____

County _____ State _____

Zip Code _____

Date Sold _____

AFTER-SALE CHECK LIST

The following is a suggested list of items to be checked at a dealer-customer mutually agreeable time during the first operating season.

- ☐ Ask the customer how the harrow performs. Make certain the proper operating adjustments are understood.
- ☐ If possible, operate the harrow to see that it is functioning properly.
- ☐ Inspect harrow for loose or missing bolts.
- ☐ Check for broken or damaged parts.
- ☐ Review the operator's manual with the customer and stress the importance of safety precautions.

Signature

Date



Contents

	Page
SAFETY	2-3
PREPARING HARROW	4
TRANSPORTING AND STORAGE	5
ASSEMBLY	6-28
Identification	6
Description	7
Harrow Length Requirements	8-10
Installation	11-13
Location Diagrams	14-30
SPECIFICATIONS	31-32



Safety



Operate Safely

DO NOT operate harrow without reading this operator's manual.

DO NOT allow anyone to ride on the harrow when it is in motion. Observe operation only from the tractor platform.

Always shut off tractor engine and shift to "Park" when leaving tractor. Remove key when leaving tractor unattended.

Have the implement/harrow stationary and on level ground when raising or lowering outriggers.

DO NOT raise or lower the outriggers when moving.

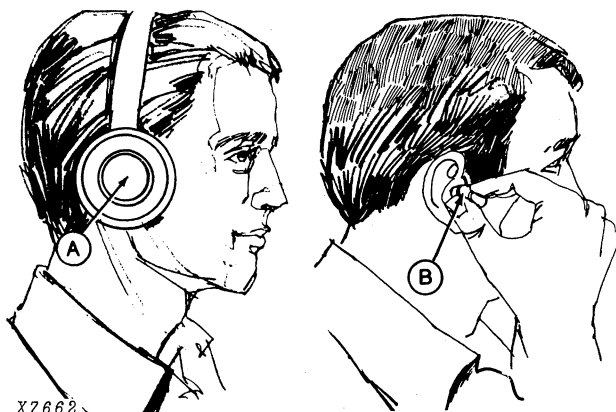
DO NOT operate close to a ditch or creek.

Slow down when turning.

Drive slowly over rough ground.

Apply both tractor brakes evenly when making emergency stops. Plan ahead.

Wear relatively tight and belted clothing to prevent being caught on some part of the machine.



Protect Against Noise

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noises.

A—Earmuffs

B—Earplugs

Avoid Fires

DO NOT refuel with the tractor engine running.

DO NOT smoke or use a lantern when refueling.

Transport Safely

Always install lockup pins on vertical fold outrigger lift implements.

Always move depth control cylinder stop forward to lock the cylinder, if equipped.

DO NOT fail to latch the tractor brakes together.

Observe overhead wires and lower outriggers, if equipped.

Shift the tractor into a lower gear when transporting down steep slopes or hills.

Keep the implement SMV emblem and reflectors clean and visible from the rear.

Stop slowly.

When transporting the harrow attachment on a road or highway at night or during the day, use accessory nhlhdlights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Practice Safe Maintenance

DO NOT adjust or clean the harrow while it is in motion. Always use a safety support when working on, under, or around the harrow.

Shut off engine and remove tractor key when working on harrow.

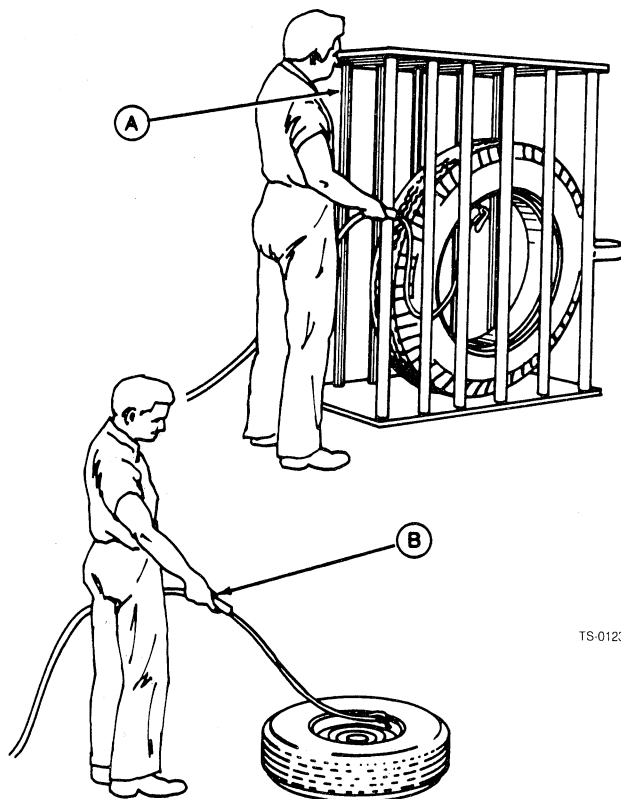
SERVICE TIRES SAFELY

Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

When sealing tire beads on rims, never exceed 35 psi (240 kPa) (2.4 bar) or maximum inflation pressures specified by tire manufacturers for mounting tires. Inflation beyond this maximum pressure may break the bead, or even the rim, with dangerous explosive force. If both beads are not seated when the maximum recommended pressure is reached, deflate, reposition tire, re-lubricate bead, and reinflate.

Detailed tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

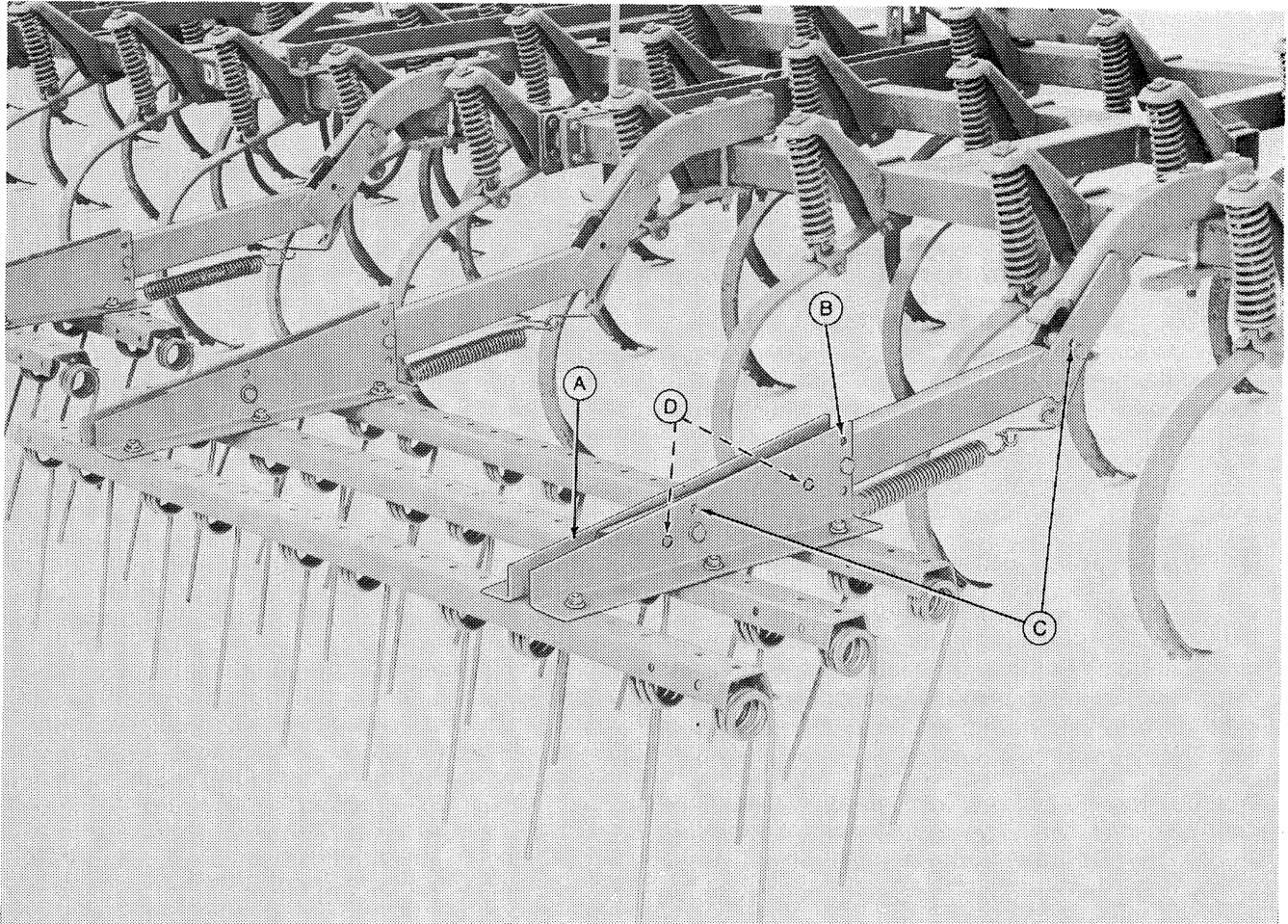
- A—Use a safety cage if available.
- B—Do not stand over tire. Use a clip-on chuck and extension hose.



TS-0123



Preparing Harrow

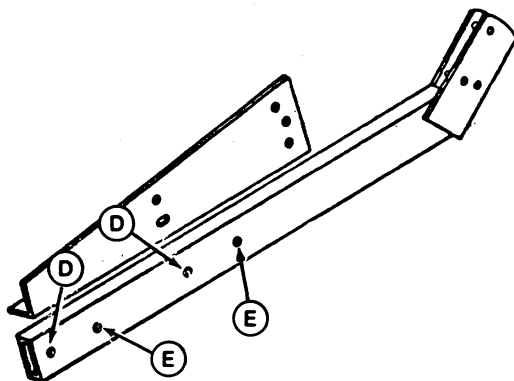


N37083

A—Support Arms
B—Leveling Holes
C—Depth Adjusting Holes

D—For Chisel Plow and Mulch Tiller
E—For Field Cultivator

Field Cultivator Mounting Illustrated



N37084

1. Level tine bars.

Position support arms (A) so bottom of tine bars and support arms are parallel to ground surface. Use one of the three sets of leveling holes (B) to adjust.

2. Adjust tine depth.

Use one of the two sets of holes (C) to adjust penetration (shown in the lighter penetration).

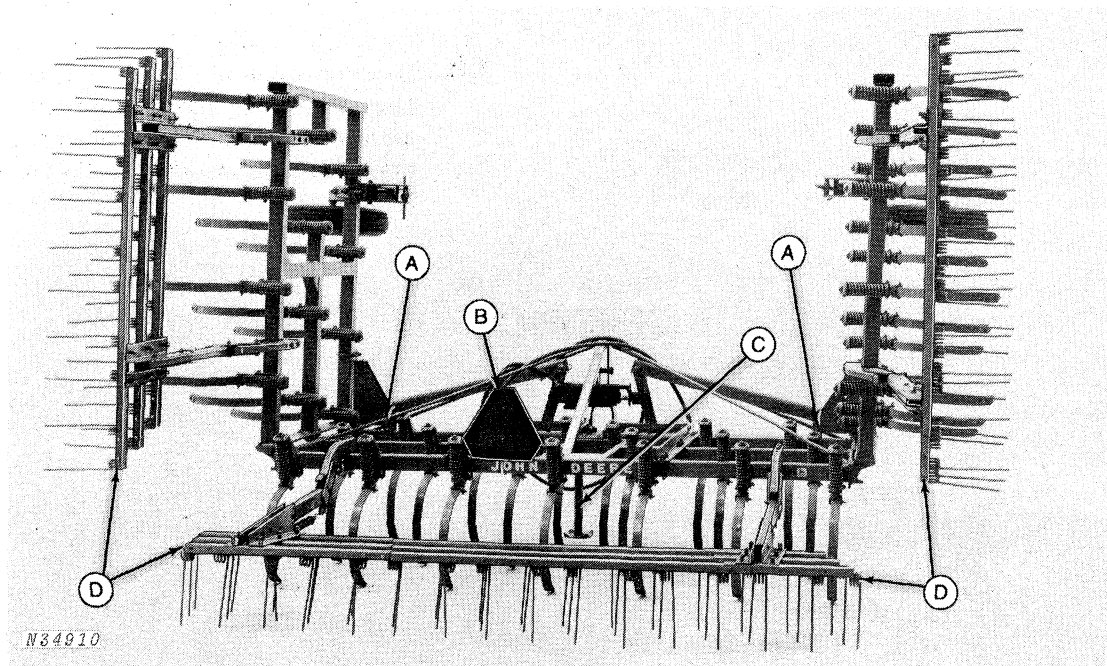
3. (Chisel Plow and Mulch Tiller with Spring-Trip Standards.) Attach support arms to support tube in second set of mounting holes (D) in tube, (holes not visible in Field Cultivator position).

4. (Chisel Plow and Mulch Tiller) Use longer S-hooks to attach spring to clip on implement. See page 13.



Transporting and Storage

TRANSPORTING



CAUTION: Do not exceed 10 mph (16 km/h) while transporting the implement with harrow attachment installed.

Make sure SMV emblem on the implement on which the harrow attachment is mounted is not obscured and that an amber reflector is showing forward and red reflectors are showing rearward.

When transporting the harrow attachment on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operator's of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

A—Lockup Pin
B—SMV Emblem
C—Support Stand (1010 Field Cultivator)
D—Harrow Sections

STORAGE

Completely clean components of harrow attachment before storing it for an extended period of time. Inspect for worn and damaged parts and replace before next season.

Storage stands are recommended for the rear bar of the 1010 Field Cultivator when the harrow attachment is mounted. See your John Deere dealer.



Assembly

Leave all hardware loose (finger tight) until assembly is complete, then tighten to correct torque, page 32.



CAUTION: Support rear bar of implement securely on floor stands or blocks, or lower support stands on rear bar of machine, if so equipped, to prevent backward tip-over of implement when harrow attachment is installed.

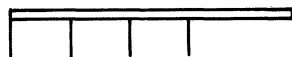
IDENTIFICATION



(A)



(B)



(C)



(D)



(E)



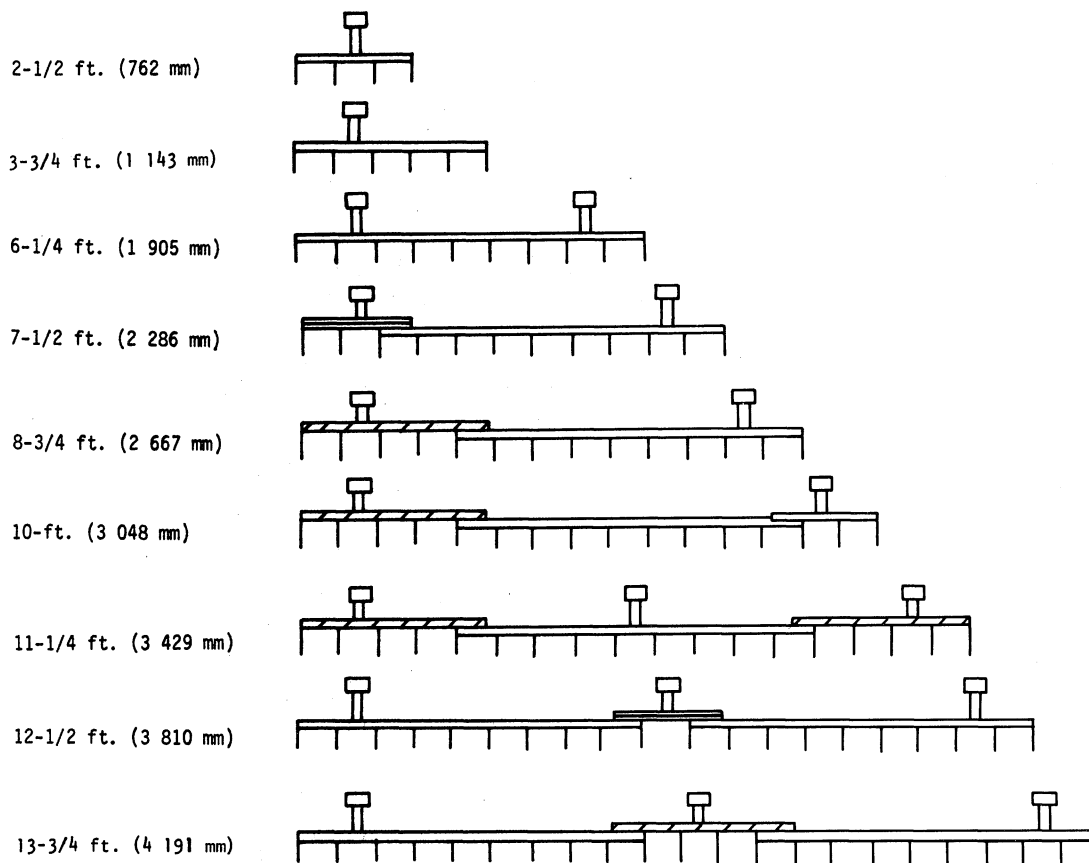
(F)

N34911

- A—One Tine Bar Extension (Remove tine to make into a connector)
- B—Two Tine Bar
- C—Two Tine Bar Extension (Remove outer tine to make into a connector)
- D—Three Tine Bar
- E—Five Tine Bar
- F—Drawbars

DESCRIPTION

	*2-1/2 ft. (762 mm)	*3-3/4 ft. (1 143 mm)	*6-1/4 ft. (1 905 mm)	*7-1/2 ft. (2 286 mm)	*8-3/4 ft. (2 667 mm)	*10 ft. (3 048 mm)	*11-1/4 ft. (3 429 mm)	*12-1/2 ft. (3 810 mm)	*13-3/4 ft. (4 191 mm)
Drawbar	1	1	2	2	2	2	3	3	3
**5-spring tine bar	-	-	1	1	1	1	1	2	2
**3-spring tine bar	-	1	-	-	-	-	-	-	-
**2-spring tine bar	1	-	-	-	-	-	-	-	-
**2-spring tine bar extension	-	-	-	-	1	1	2	-	1
**1-spring tine bar extension	-	-	-	1	-	1	-	1	-

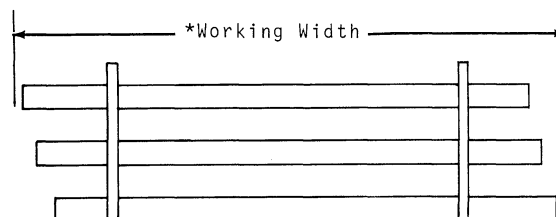


N34912

**The working width shown is for a harrow assembled in the staggered pattern.*

***Each bundle consists of three tine bars with tines.*

To obtain some harrow widths shown above, the 1- or 2-spring tine bar extensions are used as a connector. For these situations, one tine-tooth on the connector is not used.



N29503

HARROW LENGTH REQUIREMENTS FOR FIELD CULTIVATORS, CHISEL PLOWS AND MULCH TILLERS

Non-Folding Machines

Harrow Working Width	Required Lengths Center Frame
8-3/4 ft. (2 667 mm)	8-3/4 ft. (2 667 mm)
10 ft. (3 048 mm)	10 ft. (3 048 mm)
11-1/4 ft. (3 429 mm)	11-1/4 ft. (3 429 mm)
12-1/2 ft. (3 810 mm)	12-1/2 ft. (3 810 mm)
13-3/4 ft. (4 191 mm)	13-3/4 ft. (4 191 mm)
15 ft. (4 572 mm)	7-1/2 and 7-1/2 ft. (2 286 and 2 286 mm)
16-1/4 ft. (4 953 mm)	6-1/4 and 10 ft. (1 905 and 3 048 mm)
17-1/2 ft. (5 334 mm)	8-3/4 and 8-3/4 ft. (2 667 and 2 667 mm)
18-3/4 ft. (5 715 mm)	8-3/4 and 10 ft. (2 667 and 3 048 mm)
20 ft. (6 096 mm)	10 and 10 ft. (3 048 and 3 048 mm)
21-1/4 ft. (6 477 mm)	10 and 11-1/4 ft. (3 048 and 3 429 mm)

Vertical Folding Machines

940 Integral Field Cultivator (10 ft. [3 048 mm] Center Frame)
1000, 1010 Integral Field Cultivator (9-1/2 ft. [2 896 mm] Center Frame)
1600, 1610 Integral Chisel Plow (10 ft. [3 048 mm] Center Frame)

Harrow Working Width	Center Frame	Outrigger
18-3/4 ft. (5 715 mm)	6-1/4 ft. (1 905 mm)	6-1/4 ft. (1 905 mm)
20 ft. (6 096 mm)	7-1/2 ft. (2 286 mm)	6-1/4 ft. (1 905 mm)
21-1/4 ft. (6 477 mm)	8-3/4 ft. (2 667 mm)	6-1/4 ft. (1 905 mm)
22-1/2 ft. (6 858 mm)	10 ft. (3 048 mm)	6-1/4 ft. (1 905 mm)
23-3/4 ft. (7 239 mm)	11-1/4 ft. (3 429 mm)	6-1/4 ft. (1 905 mm)
25 ft. (7 620 mm)	10 ft. (3 048 mm)	7-1/2 ft. (2 286 mm)
26-1/4 ft. (8 001 mm)	11-1/4 ft. (3 429 mm)	7-1/2 ft. (2 286 mm)

For smaller machines, remove tines as necessary.

940 Drawn Field Cultivator (12-1/2 ft. [3 810 mm] Center Frame)
1000, 1010 Drawn Field Cultivator (12-1/2 ft. [3 810 mm] Center Frame)
1600, 1610 Drawn Chisel Plow (13 ft. [3 962 mm] Center Frame)

Harrow Working Width	Center Frame	Outriggers
20 ft. (6 096 mm)	7-1/2 ft. (2 286 mm)	6-1/4 ft. (1 905 mm)
21-1/2 ft. (6 553 mm)	8-3/4 ft. (2 667 mm)	6-1/4 ft. (1 905 mm)
22-1/2 ft. (6 858 mm)	10 ft. (3 048 mm)	6-1/4 ft. (1 905 mm)
23-3/4 ft. (7 239 mm)	11-1/4 ft. (3 429 mm)	6-1/4 ft. (1 905 mm)
25 ft. (7 620 mm)	12-1/2 ft. (3 810 mm)	6-1/4 ft. (1 905 mm)
26-1/4 ft. (8 001 mm)	11-1/4 ft. (3 429 mm)	7-1/2 ft. (2 286 mm)
27-1/2 ft. (8 382 mm)	12-1/2 ft. (3 810 mm)	7-1/2 ft. (2 286 mm)
28-3/4 ft. (8 763 mm)	13-3/4 ft. (4 191 mm)	7-1/2 ft. (2 286 mm)
30 ft. (9 144 mm)	12-1/2 ft. (3 810 mm)	8-3/4 ft. (2 667 mm)
31-1/4 ft. (9 525 mm)	13-3/4 ft. (4 191 mm)	8-3/4 ft. (2 667 mm)
32-1/2 ft. (9 906 mm)	12-1/2 ft. (3 810 mm)	10 ft. (3 048 mm)
33-3/4 ft. (10 287 mm)	13-3/4 ft. (4 191 mm)	10 ft. (3 048 mm)
35 ft. (10 668 mm)	12-1/2 ft. (3 810 mm)	11-1/4 ft. (3 429 mm)
36-1/4 ft. (11 049 mm)	13-3/4 ft. (4 191 mm)	11-1/4 ft. (3 429 mm)
37-1/2 ft. (11 430 mm)	12-1/2 ft. (3 810 mm)	12-1/2 ft. (3 810 mm)
40 ft. (12 192 mm)	12-1/2 ft. (3 810 mm)	13-3/4 ft. (4 191 mm)
41-1/4 ft. (12 573 mm)	13-3/4 ft. (4 191 mm)	13-3/4 ft. (4 191 mm)
42-1/2 ft. (12 954 mm)	7-1/2 and 7-1/2 ft. (2 286 and 2 286 mm)	13-3/4 ft. (4 191 mm)
43-3/4 ft. (13 335 mm)	7-1/2 and 8-3/4 ft. (2 286 and 2 667 mm)	13-3/4 ft. (4 191 mm)
45 ft. (13 716 mm)	8-3/4 and 8-3/4 ft. (2 667 and 2 667 mm)	13-3/4 ft. (4 191 mm)

1010 Drawn Field Cultivator (12-1/2 ft. [3 810 mm] Center Frame)—Five Section, Low Transport Height

Harrow Working Width	Center Frame	Outrigger	Outer Outrigger
41-1/4 ft. (12 573 mm)	11-1/4 ft. (3 429 mm)	11-1/4 ft. (3 429 mm)	3-3/4 ft. (1 143 mm)
46-1/4 ft. (14 097 mm)*	11-1/4 ft. (3 429 mm)	11-1/4 ft. (3 429 mm)	6-1/4 ft. (1 905 mm)

*Remove tines as necessary.

1050 Drawn Field Cultivator

Harrow Working Width	Center Frame	Outrigger	Outer Outrigger
48-3/4 ft. (14 859 mm)	13-3/4 ft. (4 191 mm)	10 ft. (3 048 mm)	7-1/2 ft. (2 286 mm)
50 ft. (15 240 mm)	12-1/2 ft. (3 810 mm)	10 ft. (3 048 mm)	8-3/4 ft. (2 667 mm)
56-1/4 ft. (17 145 mm)	13-3/4 ft. (4 191 mm)	11-1/4 ft. (3 428 mm)	10 ft. (3 048 mm)
61-1/4 ft. (18 669 mm)	11-1/4 ft. (3 429 mm)	13-3/4 ft. (4 191 mm)	11-1/4 ft. (3 429 mm)
62-1/2 ft. (19 050 mm)	12-1/2 ft. (3 810 mm)	13-3/4 ft. (4 191 mm)	11-1/4 ft. (3 429 mm)

IMPORTANT: Frame tube required. See page 11.

1650 Drawn Chisel Plow (13 ft. [3 962 mm] Center Frame) Five Section

Harrow Working Width	Center Frame	Outrigger	Outer Outrigger
50 ft. (15 240 mm)	12-1/2 ft. (3 810 mm)	12-1/2 ft. (3 810 mm)	6-1/4 ft. (1 905 mm)
52-1/2 ft. (16 000 mm)	12-1/2 ft. (3 810 mm)	12-1/2 ft. (3 810 mm)	7-1/2 ft. (2 286 mm)
55 ft. (16 760 mm)	12-1/2 ft. (3 810 mm)	12-1/2 ft. (3 810 mm)	8-3/4 ft. (2 667 mm)
57 ft. (17 370 mm)	12-1/2 ft. (3 810 mm)	12-1/2 ft. (3 810 mm)	10 ft. (3 048 mm)
59-1/2 ft. (18 140 mm)	12-1/2 ft. (3 810 mm)	12-1/2 ft. (3 810 mm)	11-1/4 ft. (3 429 mm)

Horizontal Fold Machines**940 Drawn Field Cultivator (12-1/2 ft. [3 810 mm] Center Frame)****Rigid - 16-1/2 - 19 ft. (5 033 - 5 795 mm)****Flexible - 22-1/2 - 29 ft. (6 858 - 8 845 mm)****1010 Drawn Field Cultivator (12-1/2 ft. [3 810 mm] Center Frame)****Rigid - 12-1/2 - 20 ft. (3 810 - 6 096 mm)****Flexible - 22-1/2 - 24-1/2 ft. (6 858 - 7 468 mm)**

Harrow Working Width	Center Frame	Outrigger
17-1/2 ft. (5 334 mm)	12-1/2 ft. (3 810 mm)	2-1/2 ft. (762 mm) (B)
20 ft. (6 096 mm)	12-1/2 ft. (3 810 mm)	3-3/4 ft. (1 143 mm) (B)
23-3/4 ft. (7 239 mm)	11-1/4 ft. (3 429 mm)	6-1/4 ft. (1 905 mm)
25 ft. (7 620 mm) (A)	12-1/2 ft. (3 810 mm)	6-1/4 ft. (1 905 mm)
26-1/4 ft. (8 001 mm)	11-1/4 ft. (3 429 mm)	7-1/2 ft. (2 286 mm)
27-1/2 ft. (8 382 mm)	12-1/2 ft. (3 810 mm)	7-1/2 ft. (2 286 mm)
30 ft. (9 144 mm)	12-1/2 ft. (3 810 mm)	8-3/4 ft. (2 669 mm)

1610 Drawn Chisel Plow (13 ft. [3 962 mm] Center Frame)

23-3/4 ft. (7 239 mm)	11-1/4 ft. (3 429 mm)	6-1/4 ft. (1 905 mm)
25 ft. (7 620 mm)	12-1/2 ft. (3 810 mm)	6-1/4 ft. (1 905 mm)
26-1/4 ft. (8 001 mm)	11-1/4 ft. (3 429 mm)	7-1/2 ft. (2 286 mm)
27-1/2 ft. (8 382 mm)	12-1/2 ft. (3 810 mm)	7-1/2 ft. (2 286 mm)

1010 Drawn Field Cultivator (15 ft. [4 572 mm] Center Frame)

22-1/2 ft. (6 858 mm)	7-1/2 and 7-1/2 ft. (2 286 and 2 286 mm)	3-3/4 ft. (1 143 mm) (B)
27-1/2 ft. (8 382 mm) (C)	7-1/2 and 7-1/2 ft. (2 286 and 2 286 mm)	6-1/4 ft. (1 905 mm)
30 ft. (9 144 mm)	7-1/2 and 7-1/2 ft. (2 286 and 2 286 mm)	7-1/2 ft. (2 286 mm)

(A) Remove tines for 20-1/2 ft. (6 248 mm) field cultivator

(B) Use special braces, see page 12.

(C) Remove tines for 23-1/2 ft. (7 163 mm) field cultivator

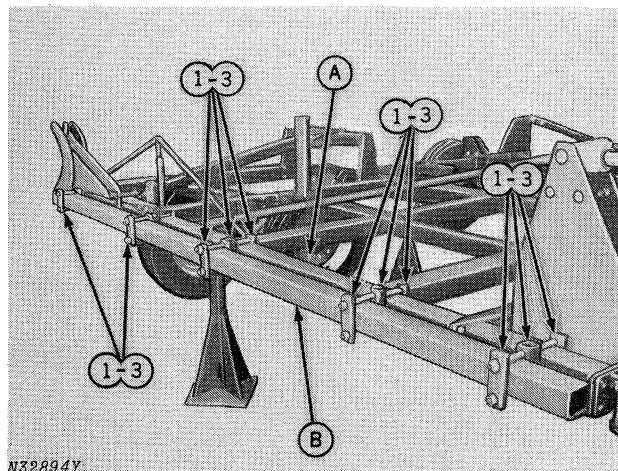
INSTALLATION

1050 Field Cultivator ONLY

1. Remove standards from rear frame (A) of inner outriggers. Measure rear frame of inner outriggers and if necessary cut off sufficient quantity of the rear frame tube (B) to make it the same length as the rear frame of inner outrigger; then attach frame tube to rear frame of outrigger with 5/8 x 10-1/4-inch cap screws, tube spacers, and straps.

Tighten cap screws only enough to hold frame tube in position.

2. Refer to "Standard Spacing" in assembly section of the John Deere 1050 Field Cultivator operator's manual, and mark the location of each standard on rear frame tube.
3. Position attaching parts so they will not interfere with standard locations; then tighten cap screws and install standards on tube.



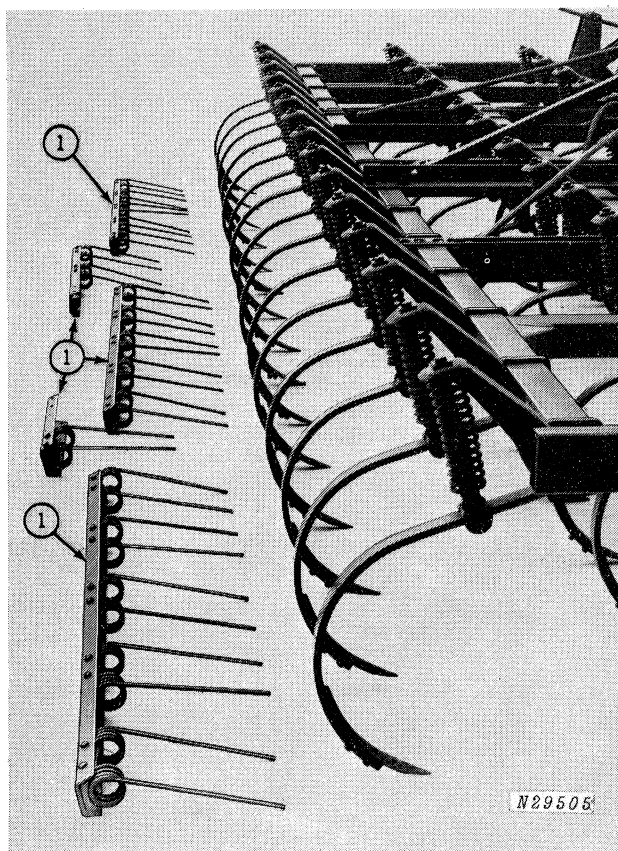
N32894Y

A—Inner Outrigger Rear Frame
B—Rear Frame Tube

All Machines

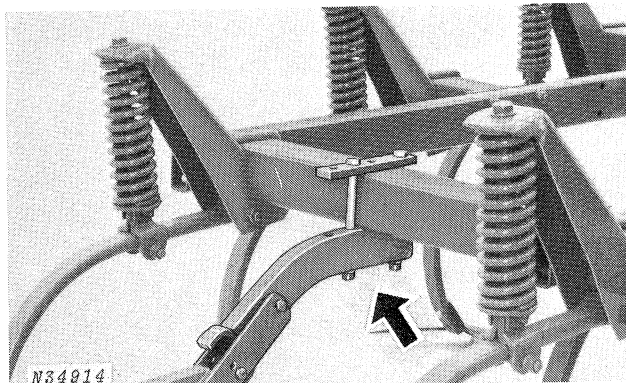
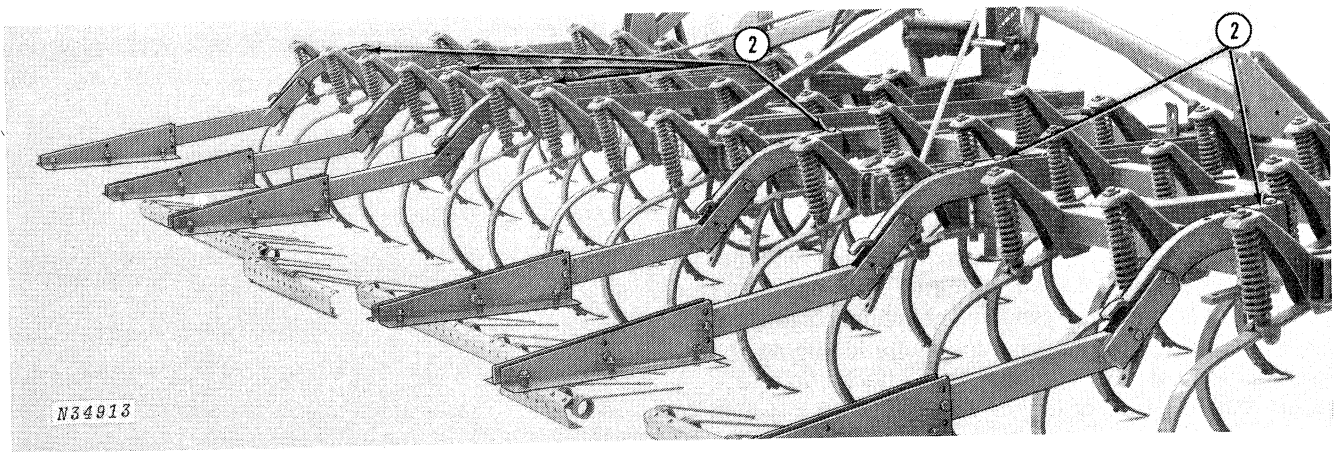
1. Position one row of tine bars directly behind implement to check working width of harrow attachment.

NOTE: Installing the drawbars, step 2, is sometimes preferred as the first step. This prevents you from having to work around the tine bars.

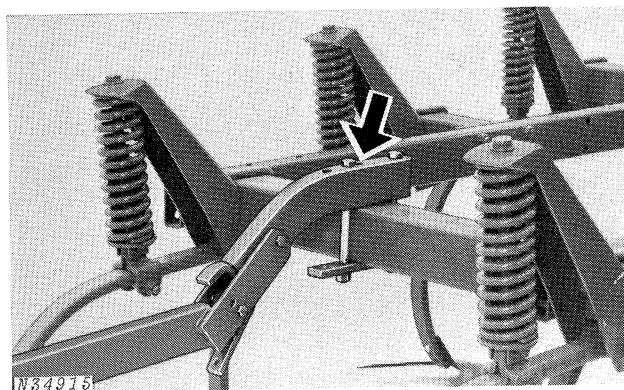


N29505

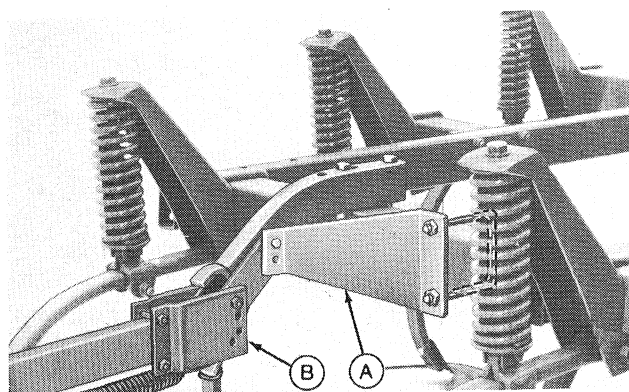
Continued on next page.



Chisel Plows and Mulch Tillers



Field Cultivators



N36056

2. Attach each harrow drawbar to implement rear frame with two 5/8 x 8-1/4-inch machine bolts, lock washers, nuts, and cap (strap). Note the difference in position for different implements, see pages 14 through 30 for approximate drawbar locations.

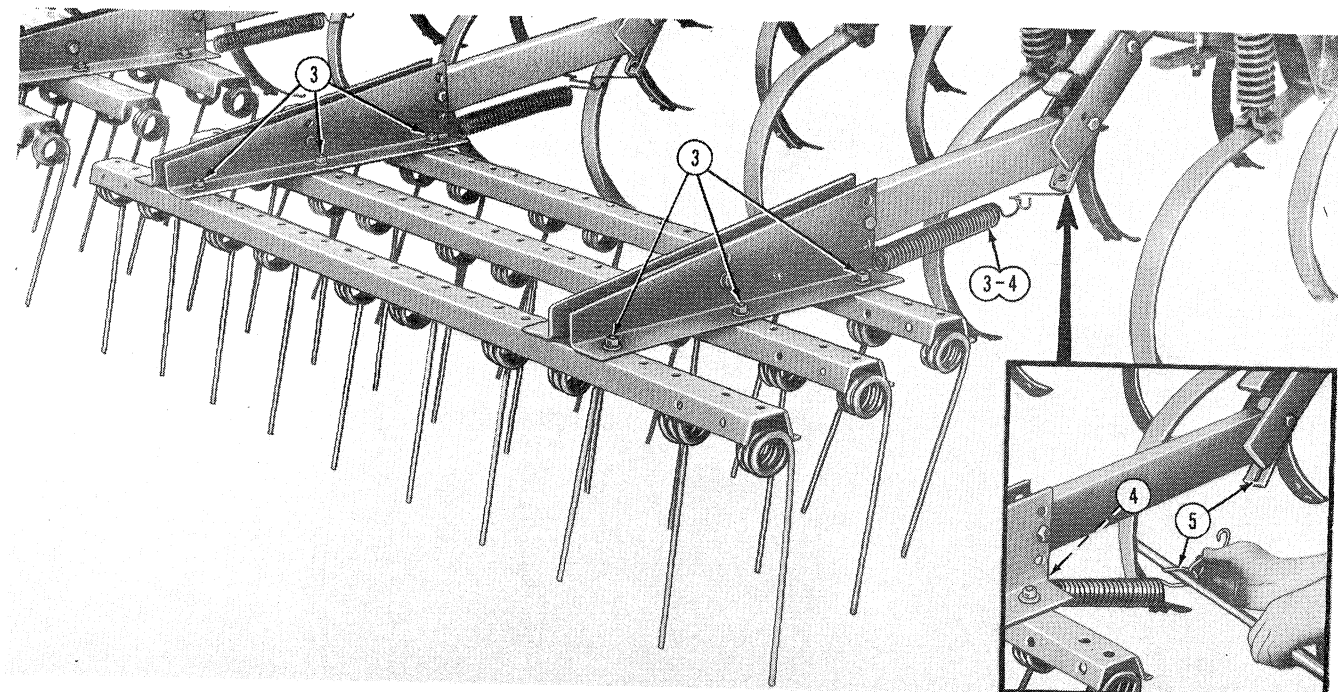
Leave all hardware loose (finger tight) until assembly is complete, then tighten.

Install additional braces (A and B) whenever a 2-1/2 or 3-3/4-foot (762 or 1 143 mm) tine bar is used on outriggers.

Install brace (A) by first removing the single cap screw in drawbar. Insert spacer (from bundle) in drawbar and attach brace with new 1/2 x 3-1/2-inch cap screw and lock nut. Attach brace to frame with U-bolt, lock washers, and nuts.

Install braces (B) with two 1/2 x 2-3/4-inch cap screws and lock nuts at the rear and one 1/2 x 3-1/2-inch cap screw and lock nut at the front.

See pages 14 through 30 for proper location of brace.



N36057

3. Position tine bars under support arms so the spring retainer is toward the front; then secure tine bars to support arms with cap screw positioned UP THROUGH tine bar and support arm. Tighten nut ON TOP.

NOTE: To install tine bar attaching cap screw, it may be necessary to remove one of the tines. Reinstall tine after installing cap screws.

NOTE: Attach tine bars with extensions so the extensions are toward the outer end of implement.

4. Place down-pressure spring hook with long shank in tine bar.
5. Position S-hook (closed end) in down-pressure spring hook with short shank; then extend spring sufficient to attach S-hook in clip under drawbar.

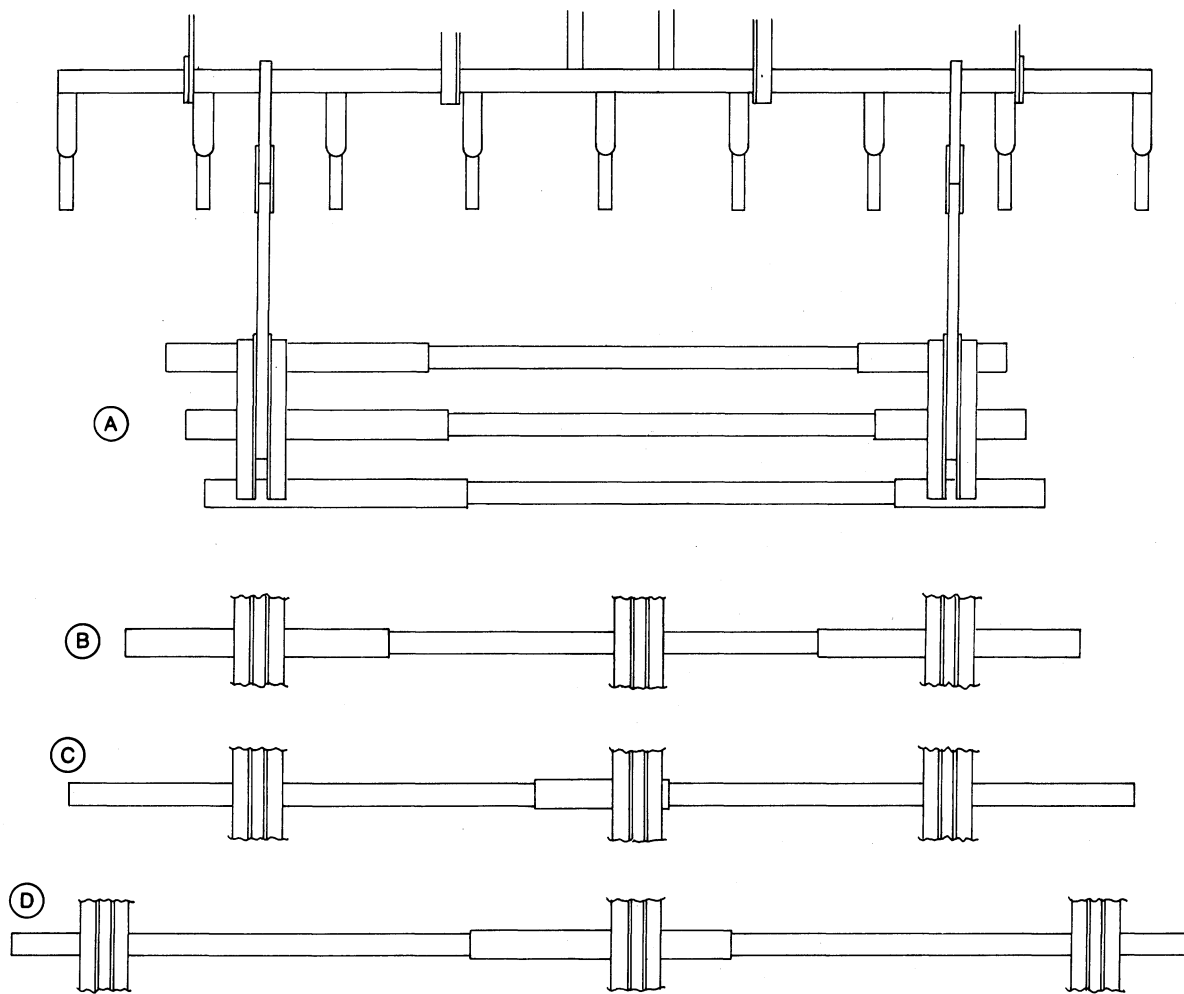
IMPORTANT: Use the **LONG S-hooks (N184274)** when support arms are in the longest position on the drawbar for Chisel Plow and Mulch Tiller. Use the **SHORT S-hooks (N184275)** when the support arms are in the shortest position for Field Cultivator on the drawbar as shown in above illustration. See page 4.

Proceed to remaining drawbars and attach down-pressure springs in same manner.

DRAWBAR LOCATION DIAGRAMS

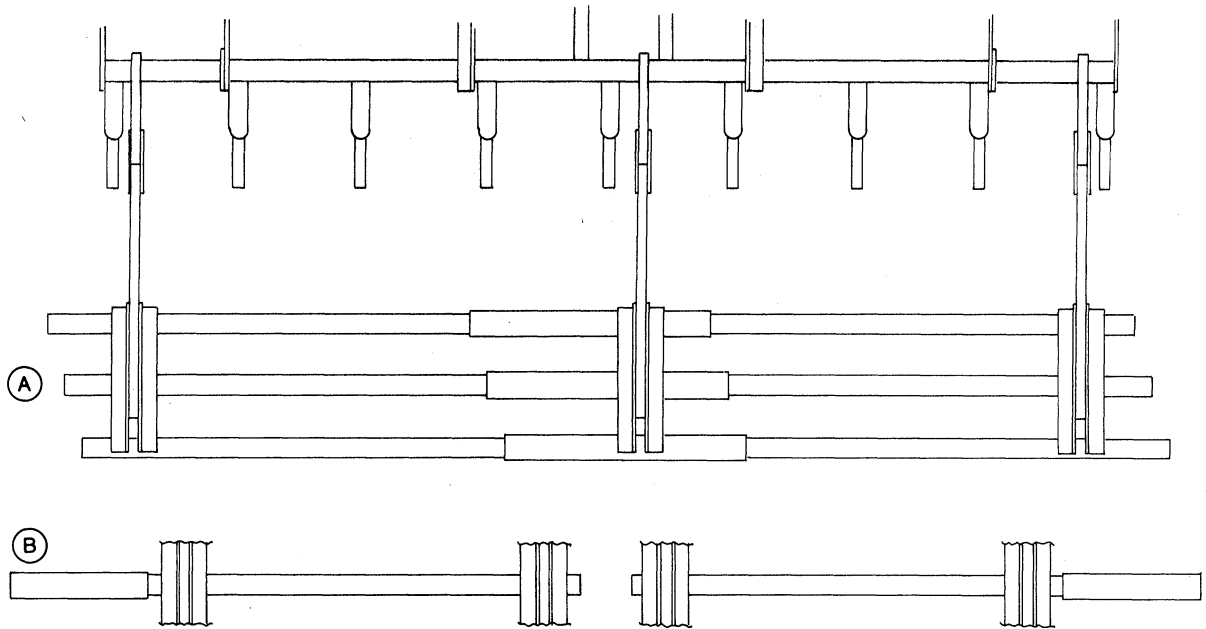
NOTE: All dimensions shown are for harrow working width. Single tine bar in diagrams represents center tine bar in a group of three.

Field Cultivators - Integral, 940, 1010, 1100

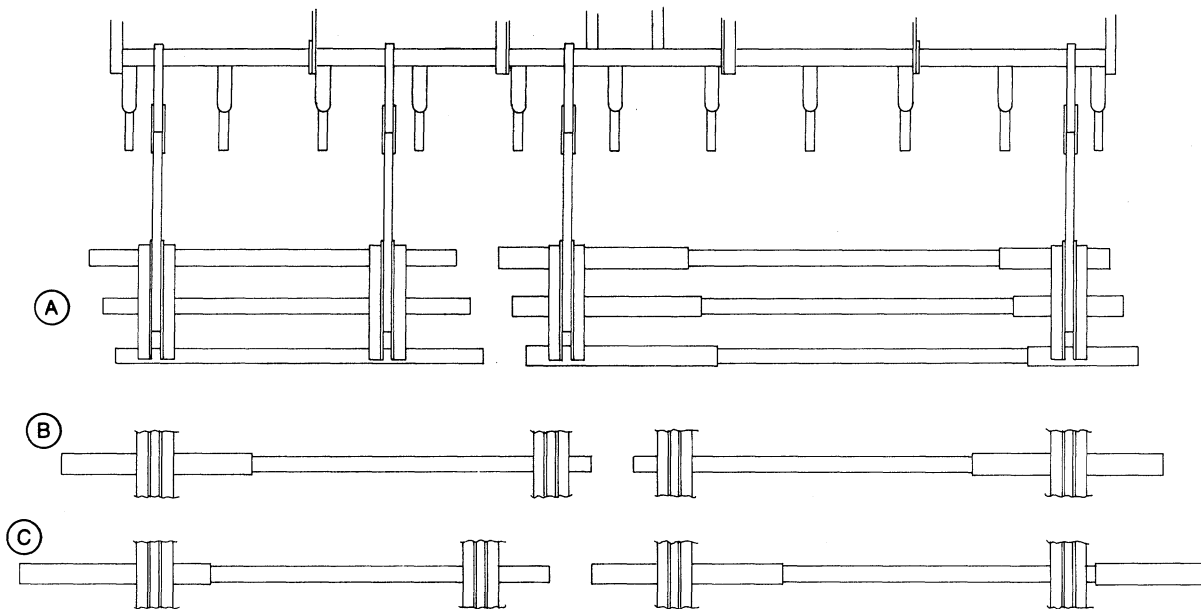


N79078A1

- A—10 ft (3 048 mm)
- B—11-1/4 ft (3 429 mm)
- C—12-1/2 ft (3 810 mm)
- D—13-3/4 ft (4 191 mm)

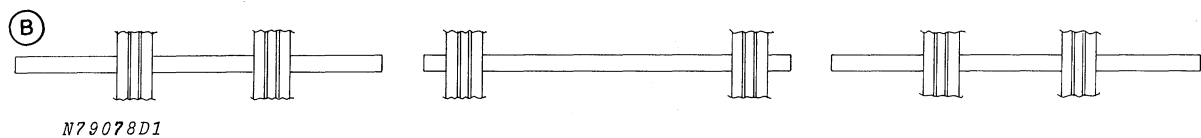
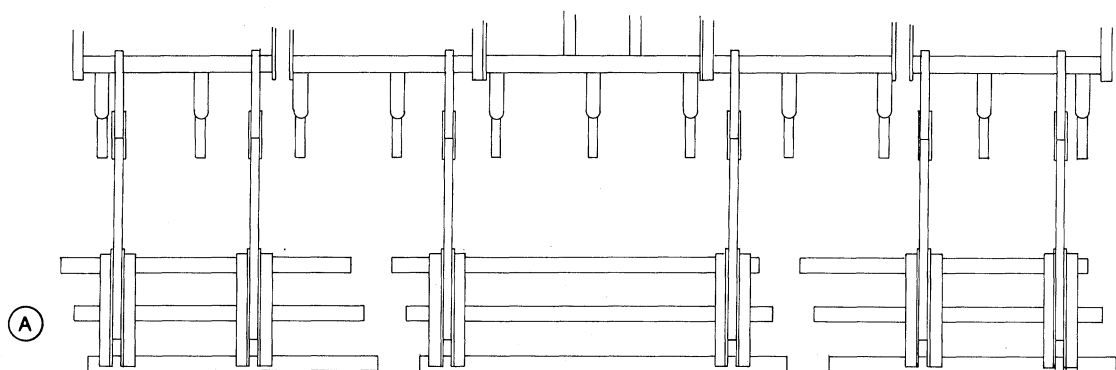


N79078B1
A—13-3/4 ft (4 191 mm) B—15 ft (4 572 mm)



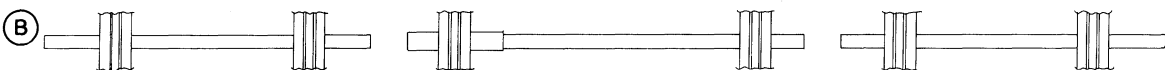
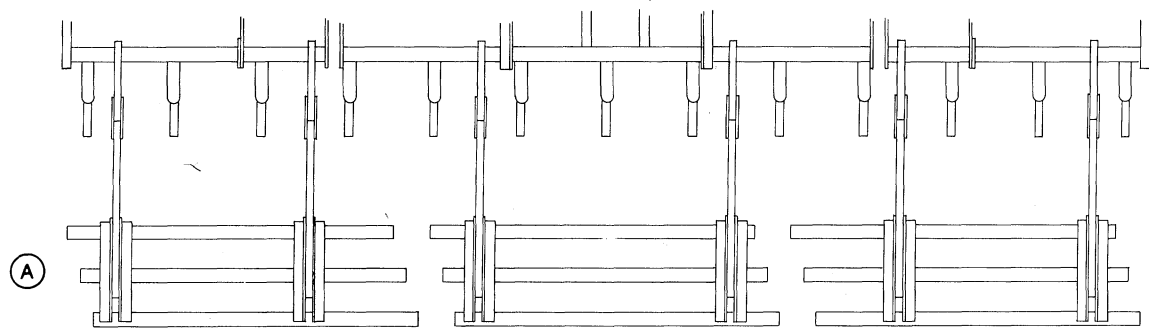
N79078C1
A—16-1/4 ft (4 953 mm) B—17-1/2 ft (4 334 mm) C—18-3/4 ft (5 715 mm)

Field Cultivators—Continued



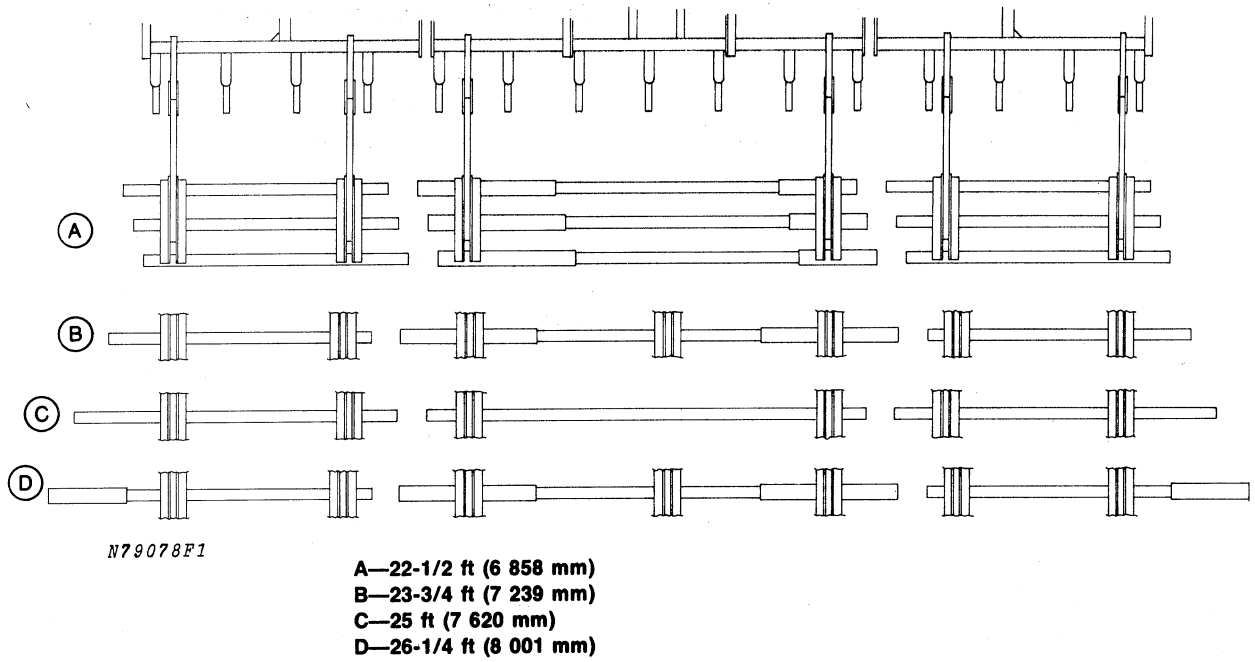
N79078D1

A—18-3/4 ft (5 715 mm) Reduced to 16-1/2 ft (5 029 mm)
B—18-3/4 ft (5 715 mm)

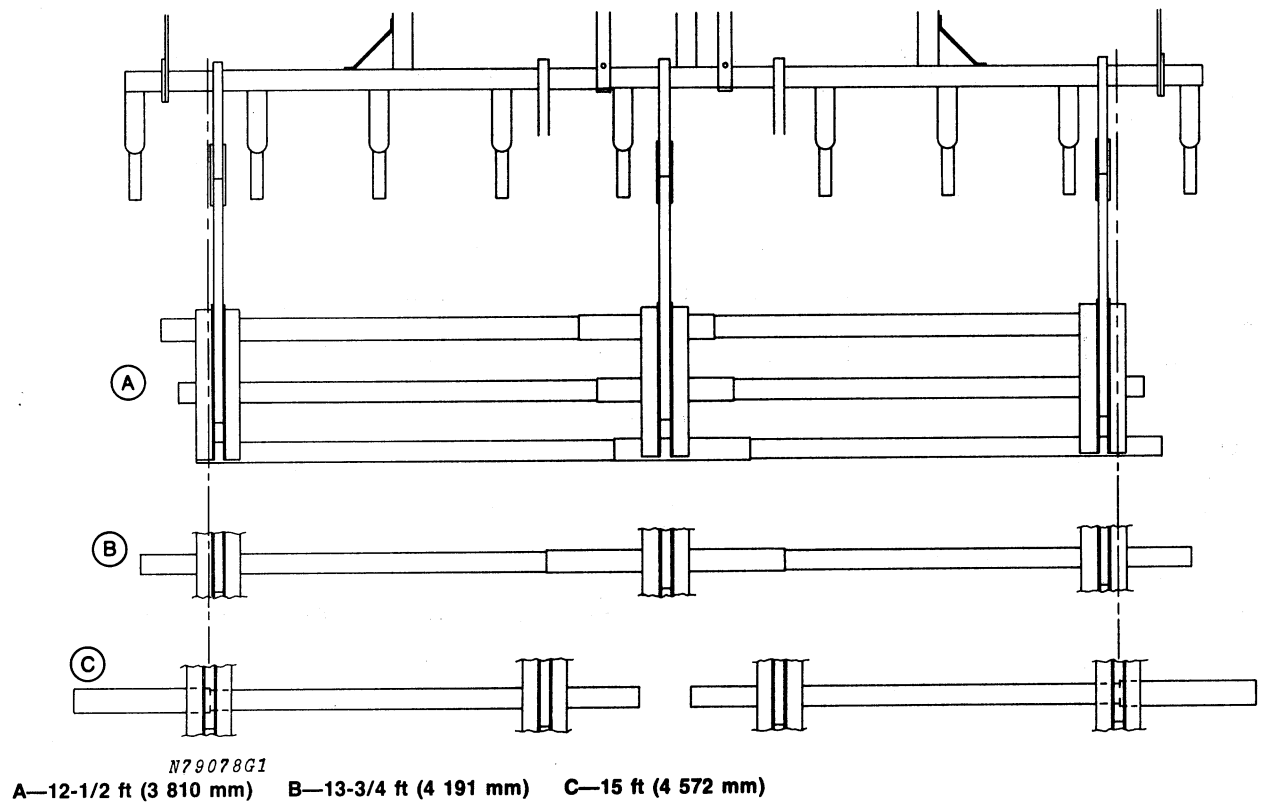


N79078E1

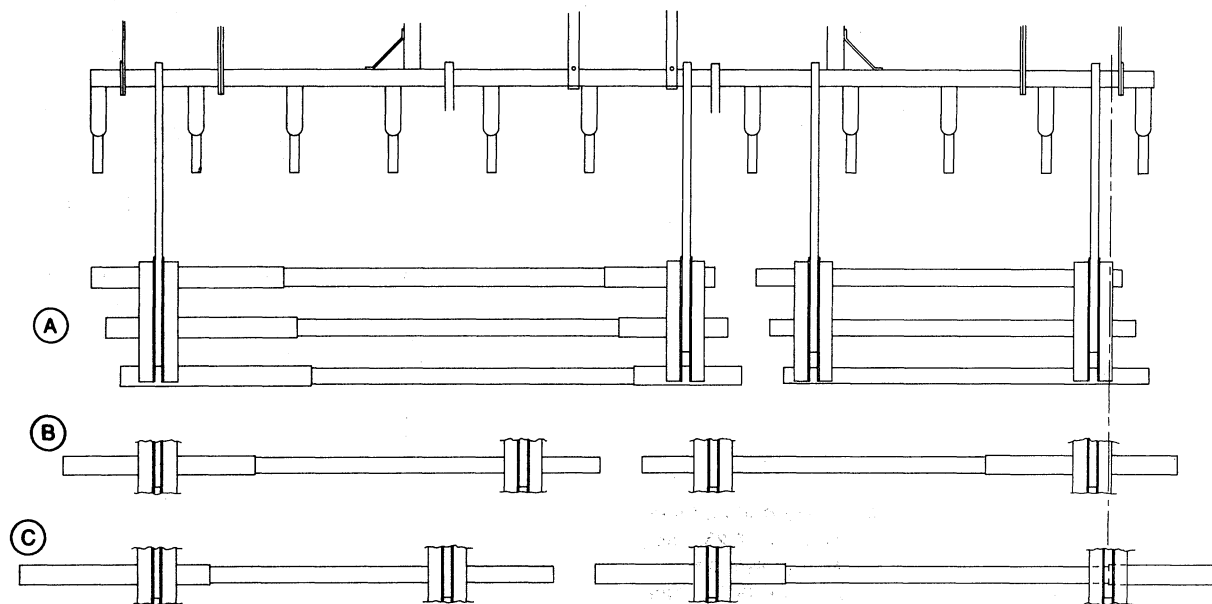
A—18-3/4 ft (5 715 mm)
B—20 ft (6 096 mm)
C—21-1/4 ft (6 477 mm)



Field Cultivators - Flexible - 940, 1000, 1010

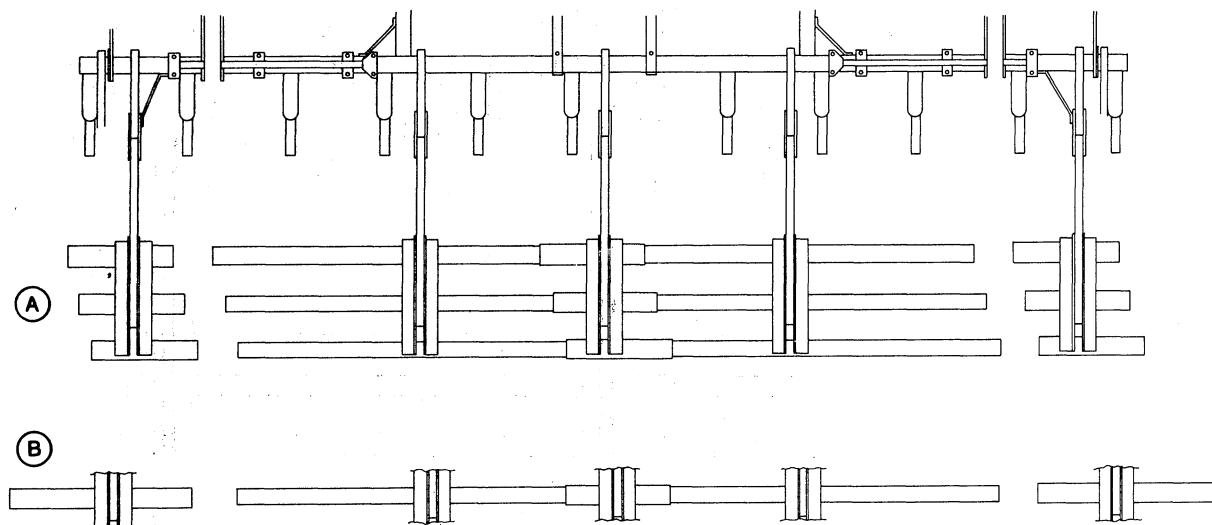


Field Cultivators—Continued



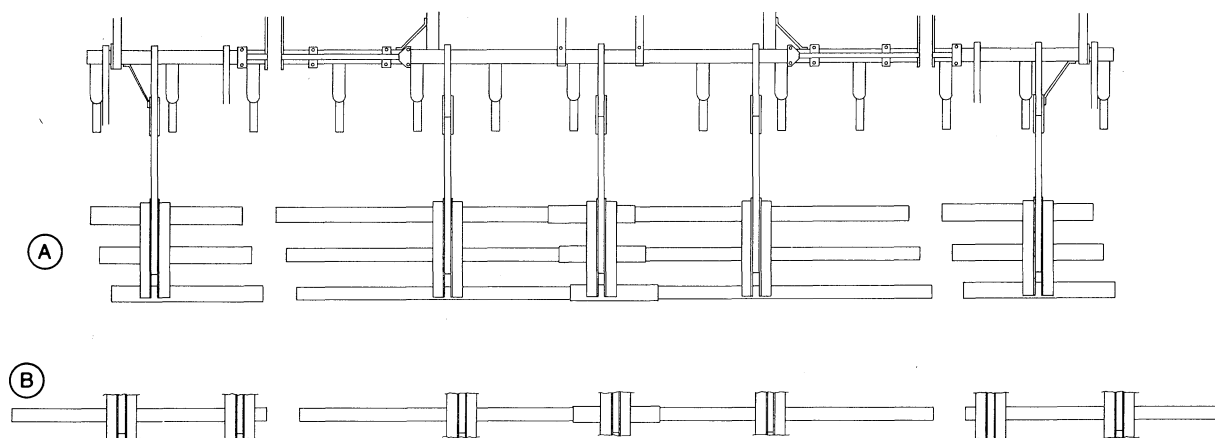
N79078H1

A—16-1/4 ft (4 953 mm)
 B—17-1/2 ft (4 334 mm)
 C—18-3/4 ft (5 715 mm)



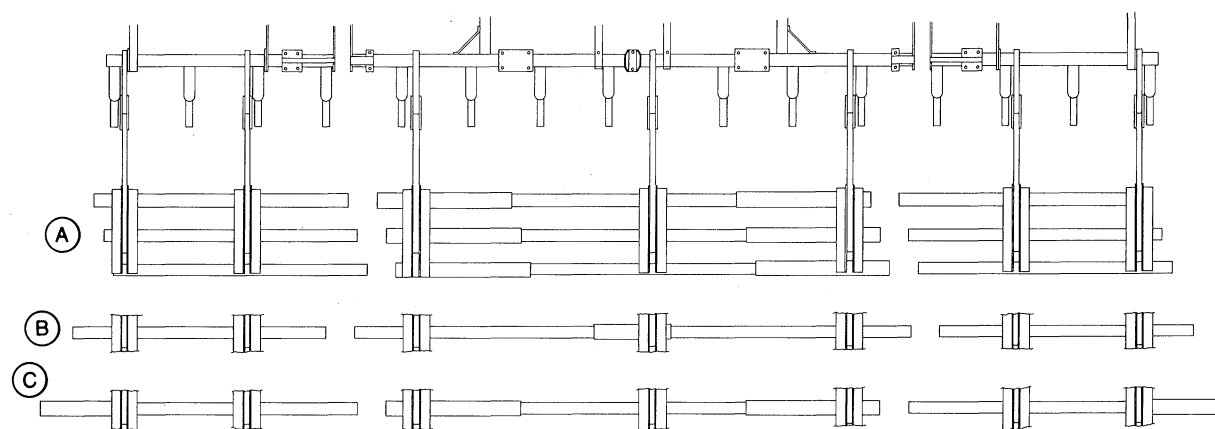
N79078I1

A—17-1/2 ft (4 334 mm) B—20 ft (6 096 mm)



N79078J1

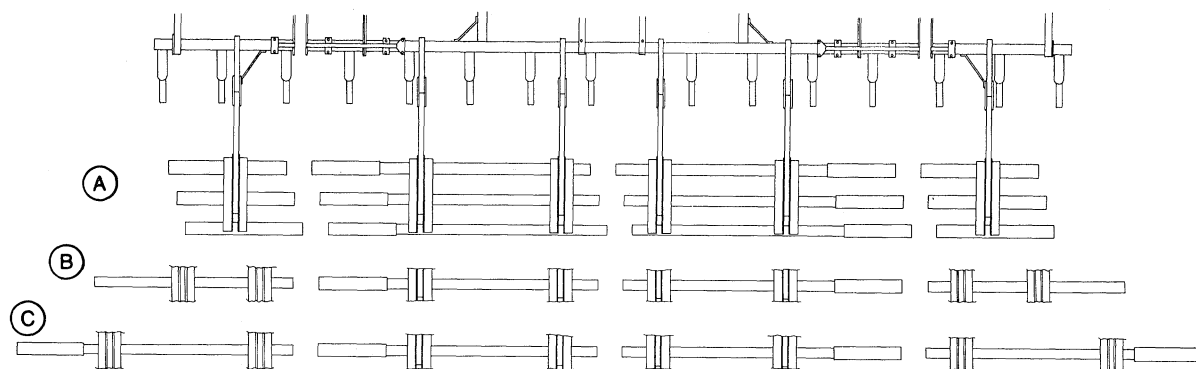
A—20 ft (6 096 mm)
B—25 ft (7 620 mm)



N79078K1

A—23-3/4 ft (7 239 mm)
B—25 ft (7 620 mm)
C—26-1/4 ft (8 001 mm)

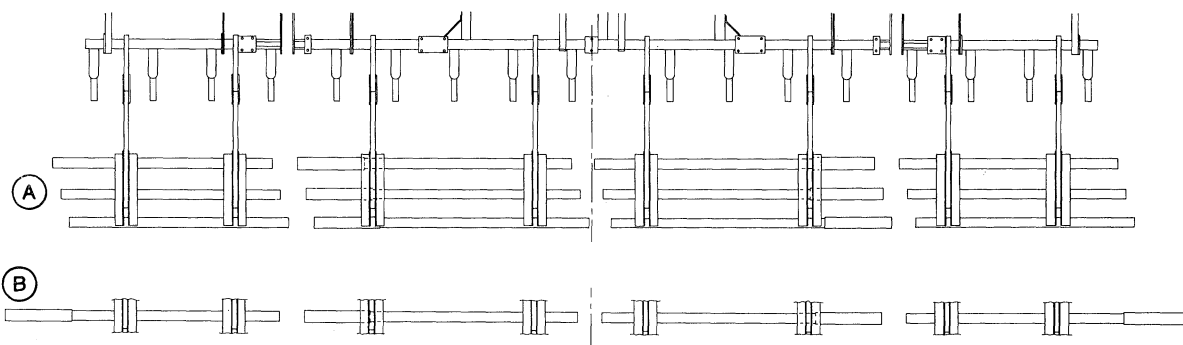
Field Cultivators—Continued



N79078L1

N79078L1

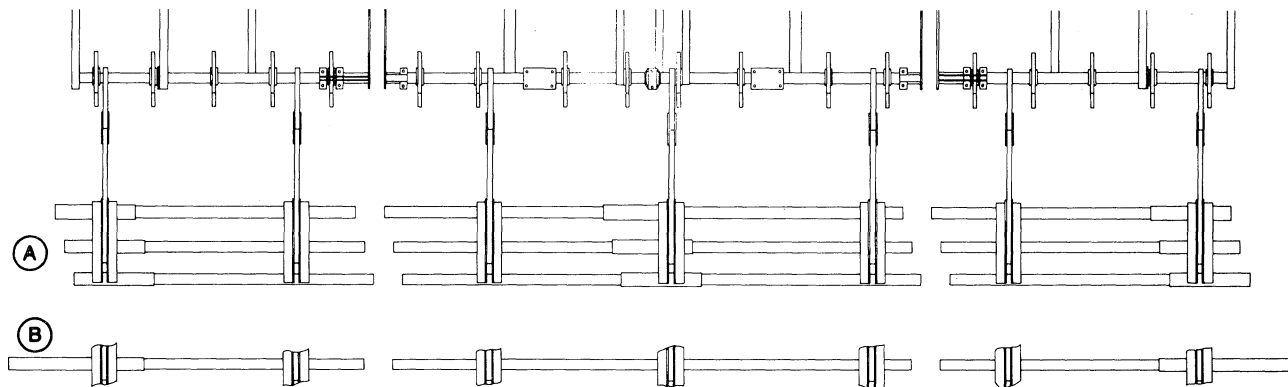
A—22-1/2 ft (6 858 mm)
B—27-1/2 ft (8 382 mm)
C—30 ft (9 144 mm)



N79078M1

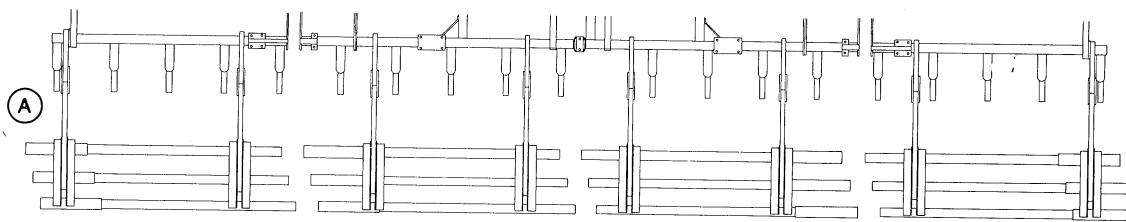
N79078M1

A—27-1/2 ft (8 382 mm)
B—30 ft (9 144 mm)



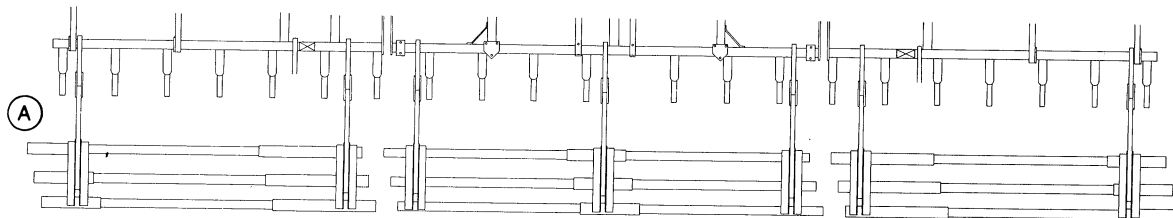
N37536

A—27-1/2 ft. (8 382 mm)
B—30 ft. (9 144 mm)

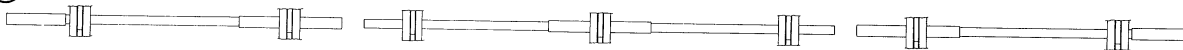


N79078N1

A—30 ft (9 144 mm)



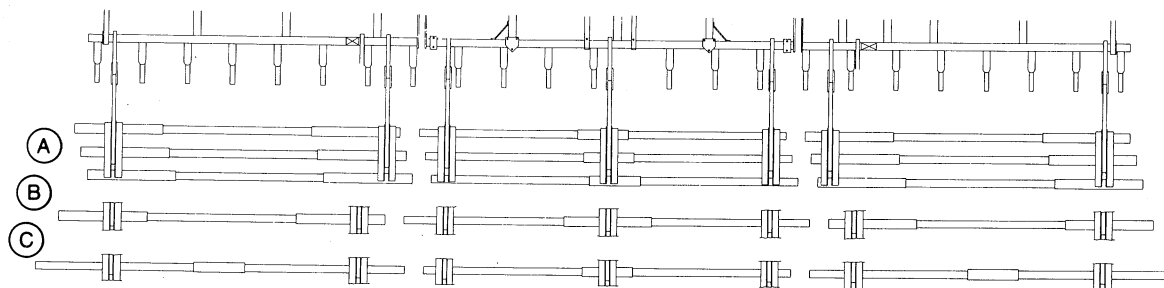
(B)



N7907801

A—32-1/2 ft (9 906 mm)

B—33-3/4 ft (10 287 mm)



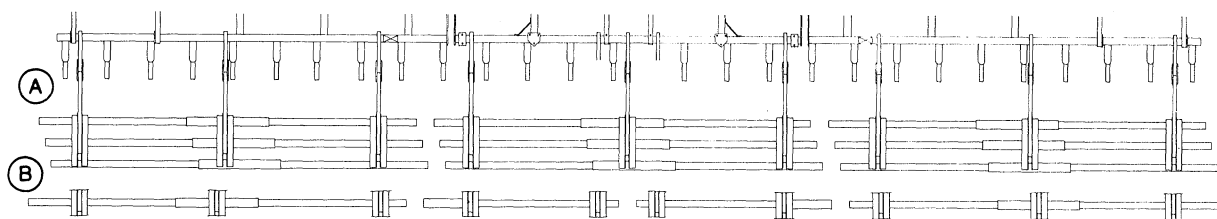
N79078P1

A—35 ft (10 668 mm)

B—36-1/4 ft (11 049 mm)

C—37-1/2 ft (11 430 mm)

Field Cultivators—Continued

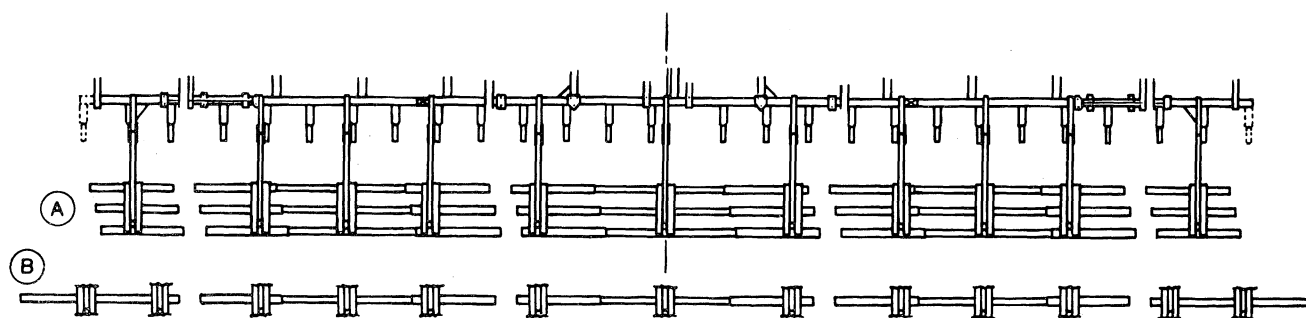


N79078Q1

A—41-1/4 ft (12 573 mm)

B—42-1/2 ft (12 954 mm)

Five Section - 1010



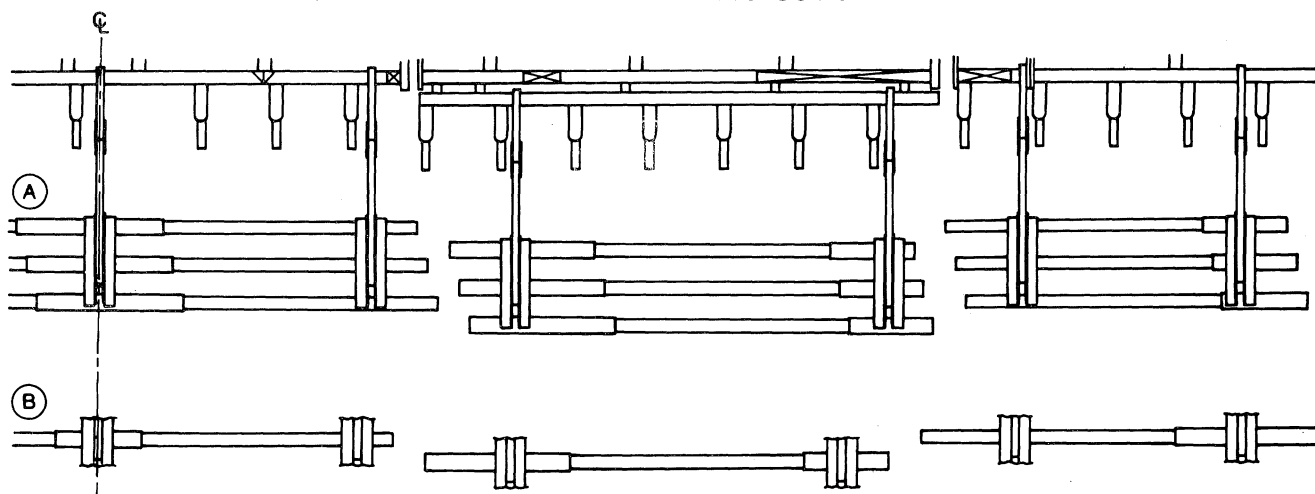
36058

A—41-1/4 ft (12 573 mm)

B—46-1/4 ft (14 097 mm)*

*Remove tines as necessary.

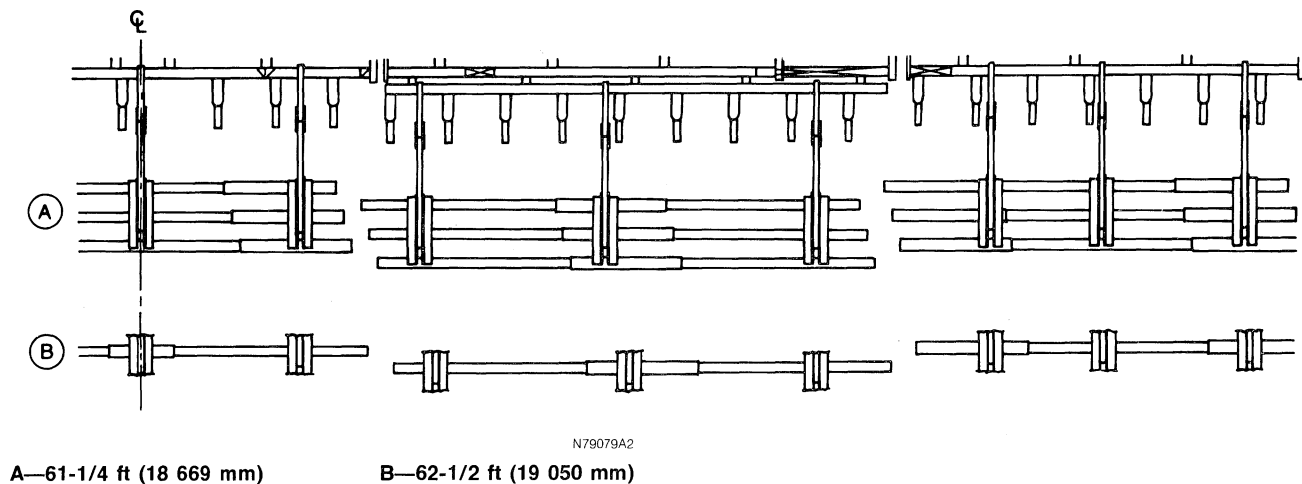
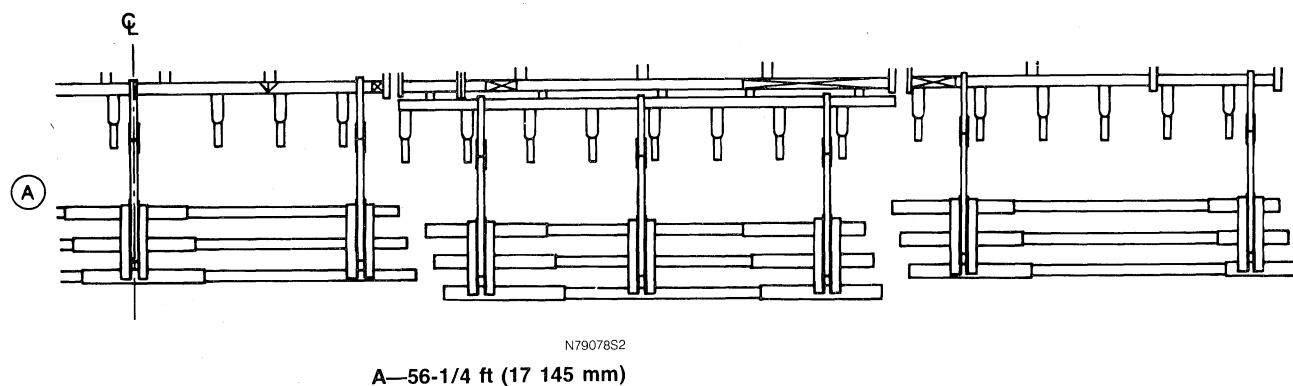
Five-Section - 1050



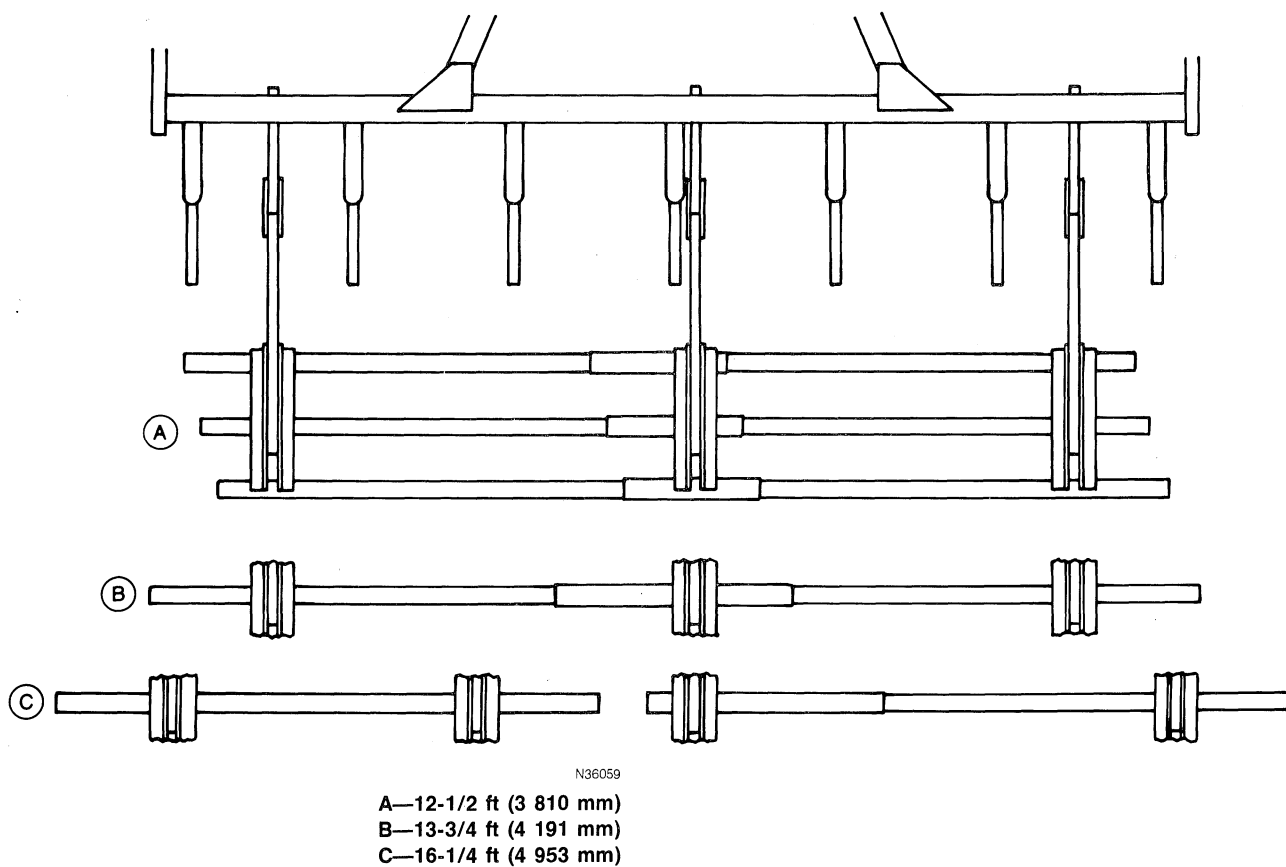
N79078R2

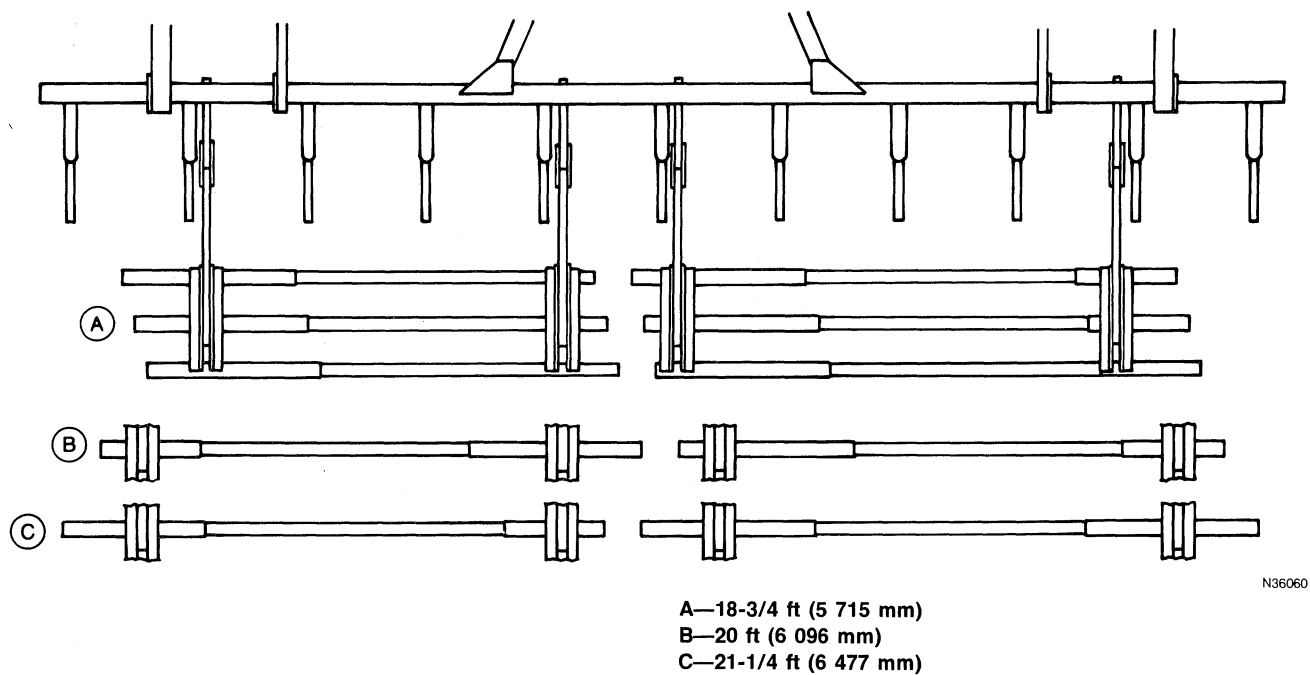
A—48-3/4 ft (14 859 mm)

B—50 ft (15 240 mm)

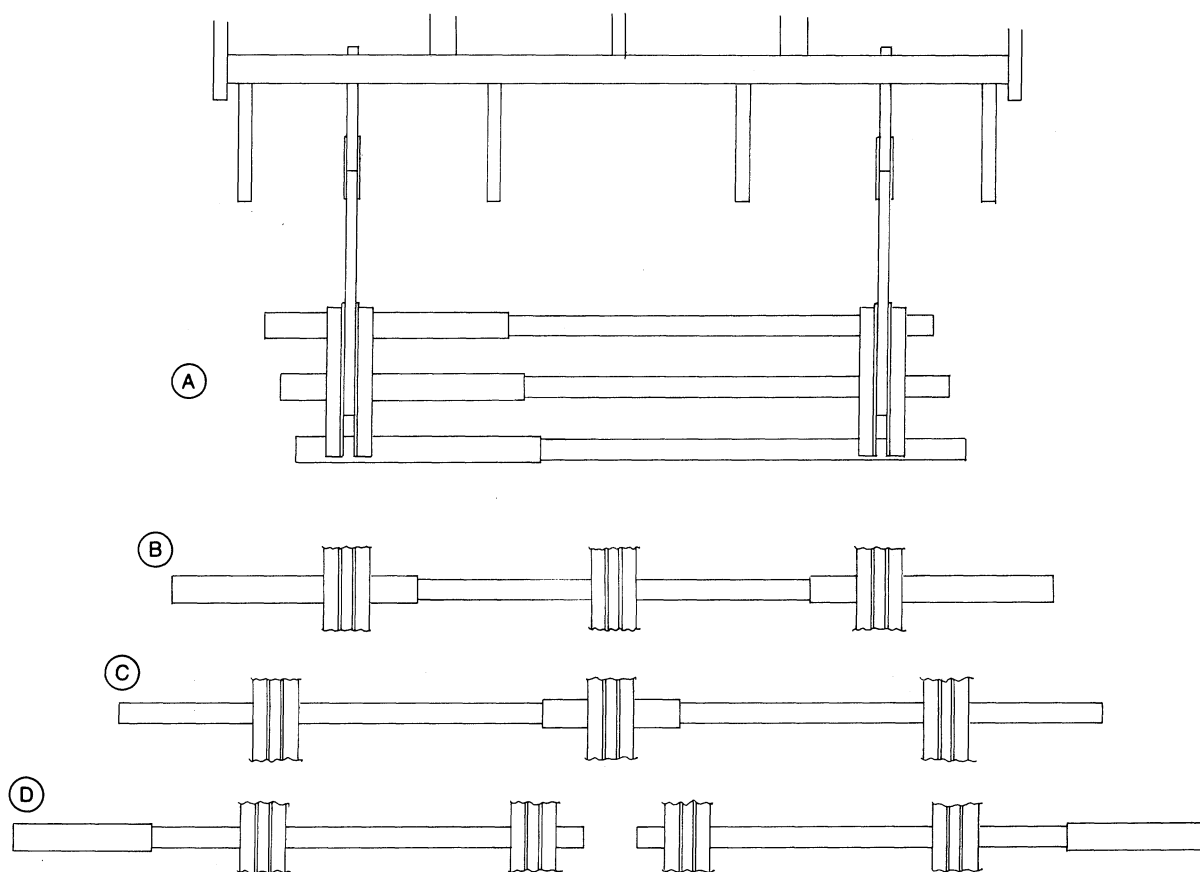


Chisel Plows - Integral, Two Bar - 1610





Chisel Plows - Integral-1600, 1610



N79079B1

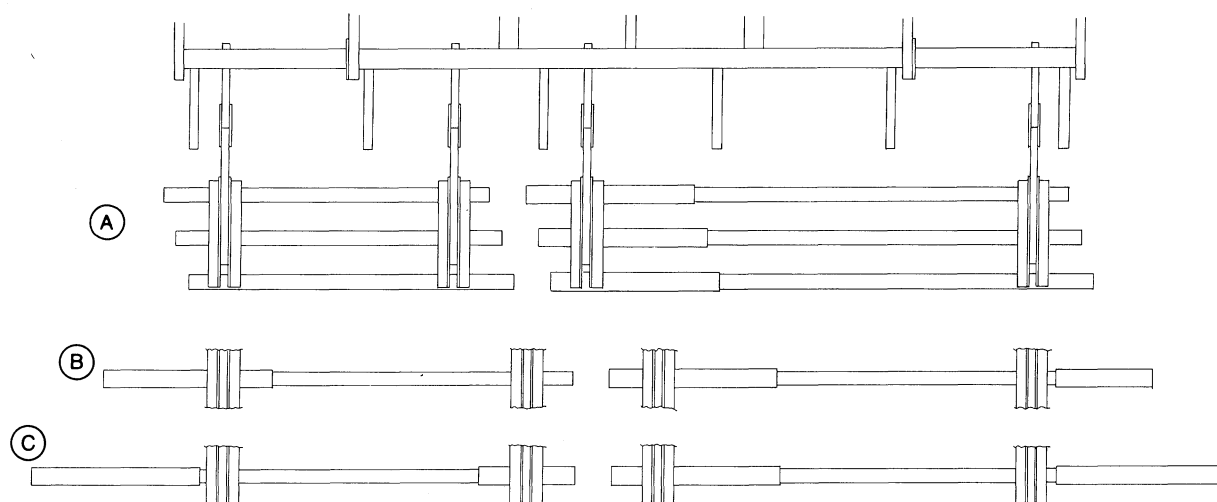
A—8-3/4 ft (2 667 mm)

B—11-1/4 ft (3 429 mm)

C—12-1/2 ft (3 810 mm)

D—15 ft (4 572 mm)

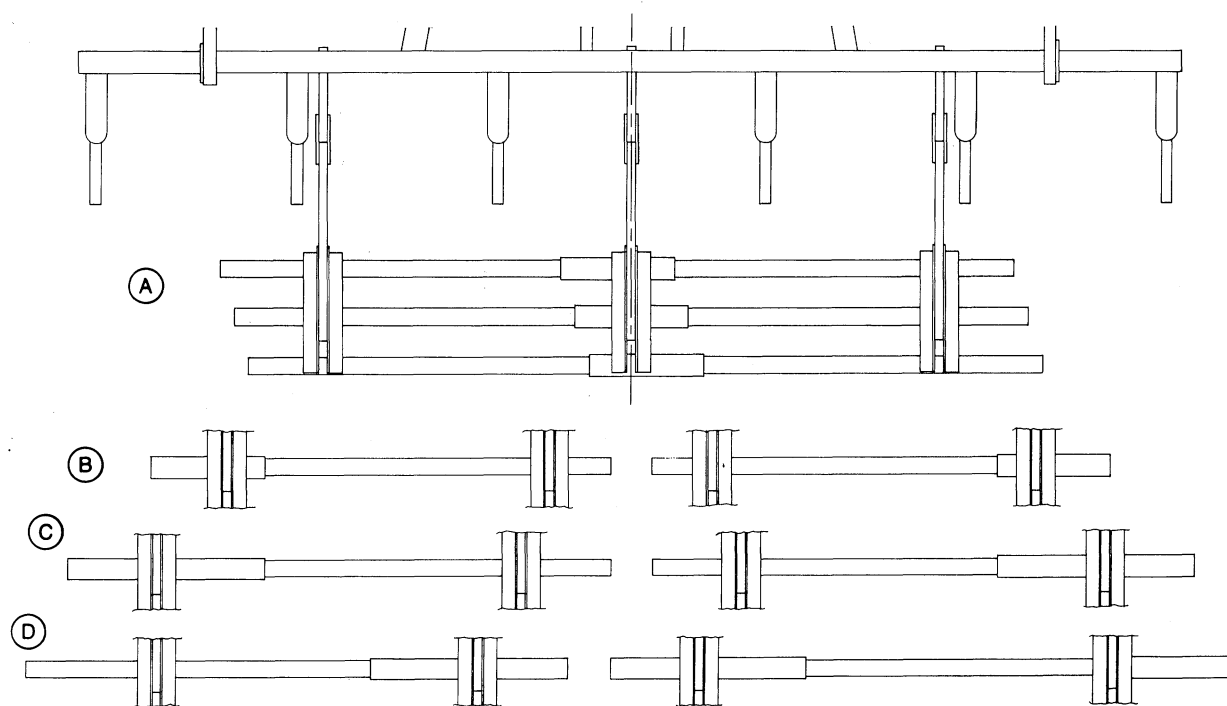
Chisel Plows—Continued



N79079C1

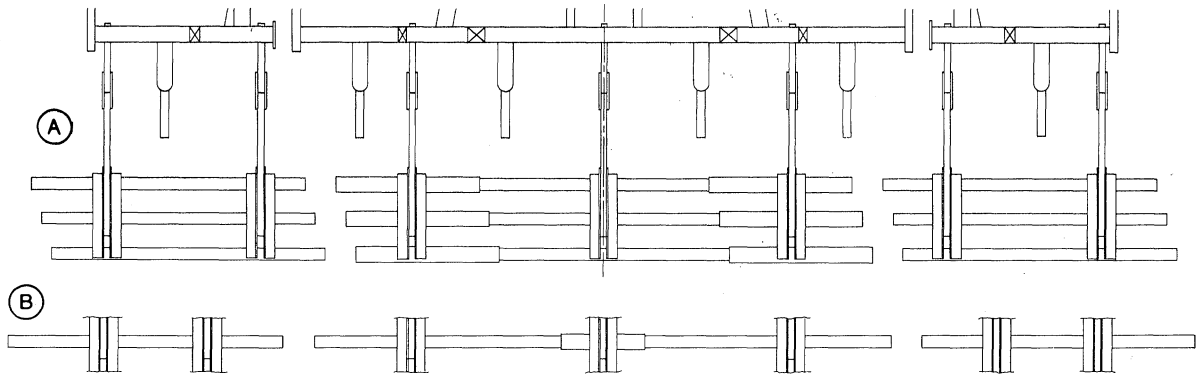
- A—16-1/4 ft (4 953 mm)
- B—18-3/4 ft (5 715 mm)
- C—21-1/4 ft (6 477 mm)

Chisel Plows - Flexible-1600, 1610



N79079D1

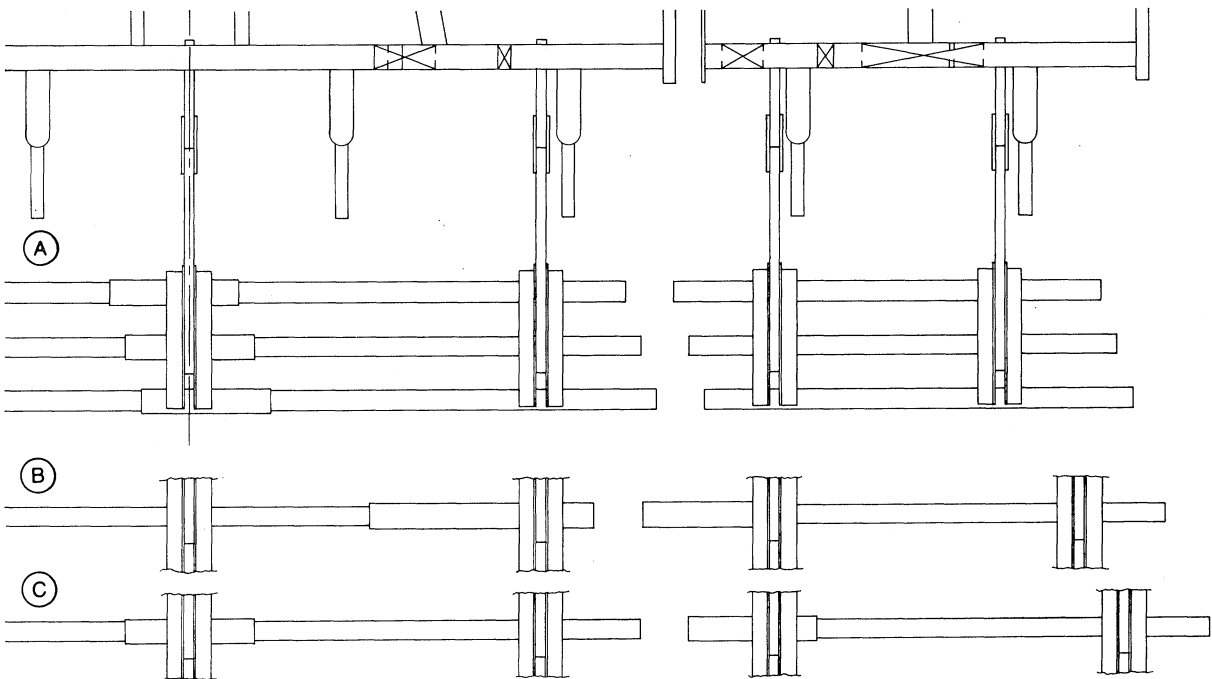
- A—12-1/2 ft (3 810 mm)
- B—15 ft (4 572 mm)
- C—17-1/2 ft (4 334 mm)
- D—18-3/4 ft (5 715 mm)



N79079E1

A—23-3/4 ft (7 239 mm)

B—25 ft (7 620 mm)



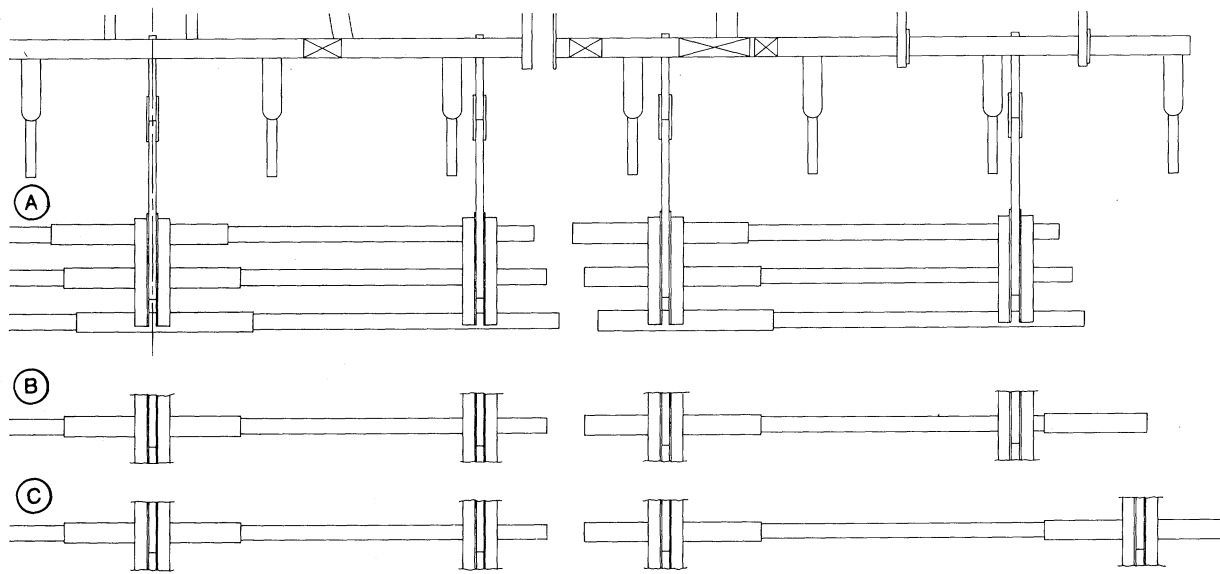
N79079F1

A—25 ft (7 620 mm)

B—26-1/4 ft (8 001 mm)

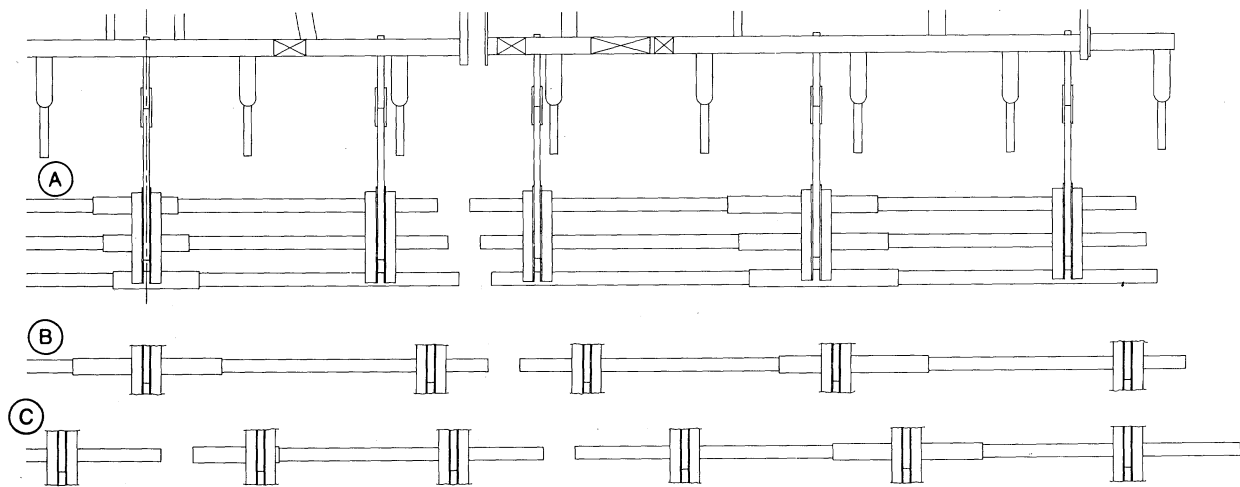
C—27-1/2 ft (8 382 mm)

Chisel Plows—Continued



N79079G1

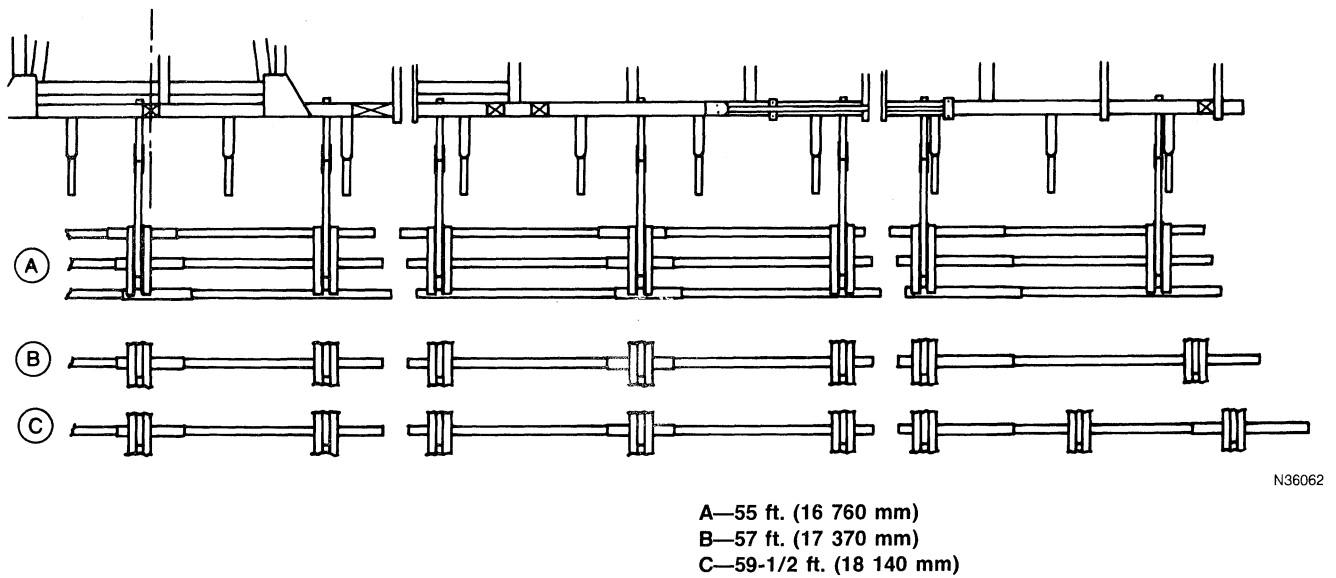
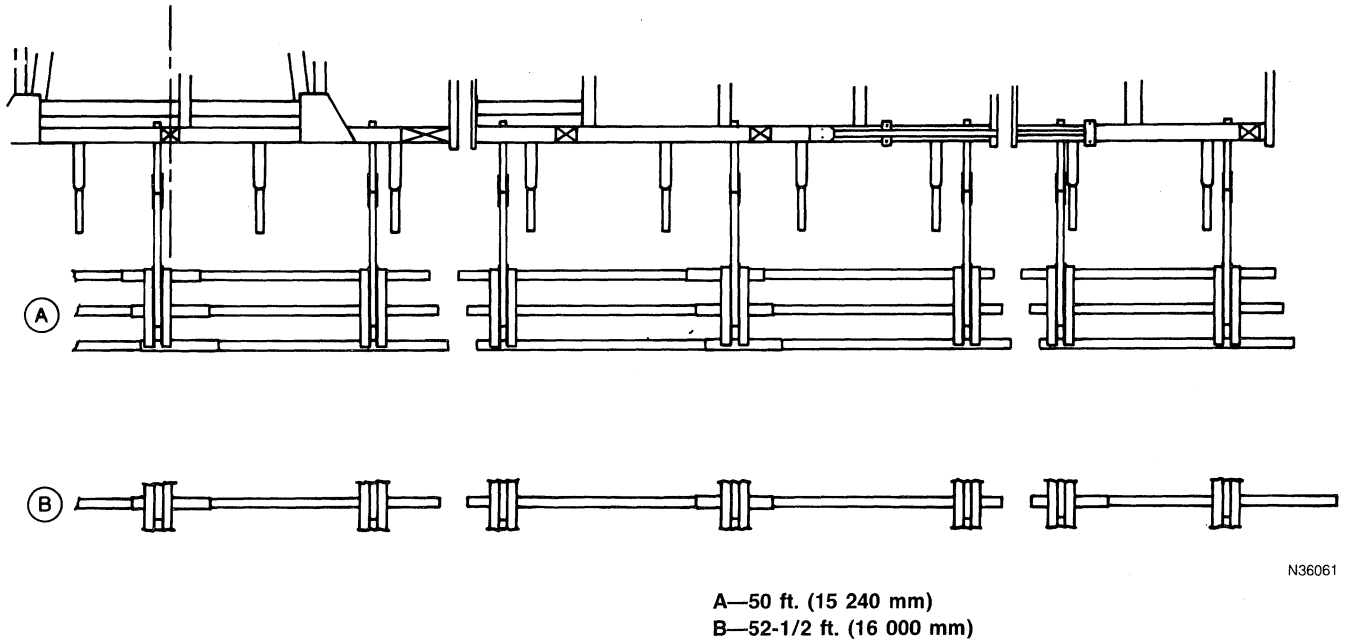
- A—31-1/4 ft (9 525 mm)
- B—33-3/4 ft (10 287 mm)
- C—36-1/4 ft (11 049 mm)



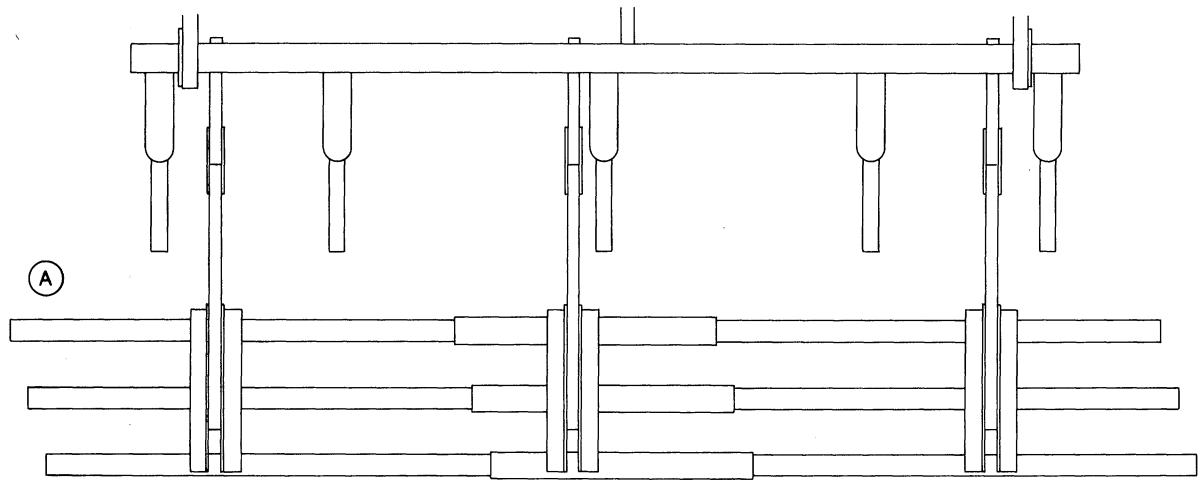
N79079H1

- A—40 ft (12 192 mm)
- B—41-1/4 ft (12 573 mm)
- C—42-1/2 ft (12 954 mm)

Five Section - 1650

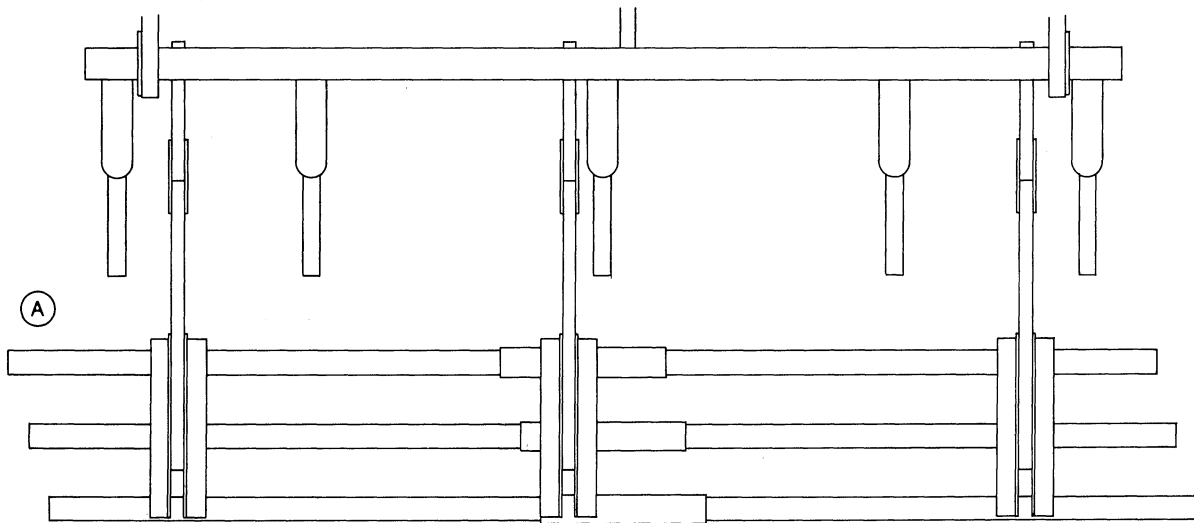


Mulch Tiller - 1700, 1710, 1710A



N79079I1

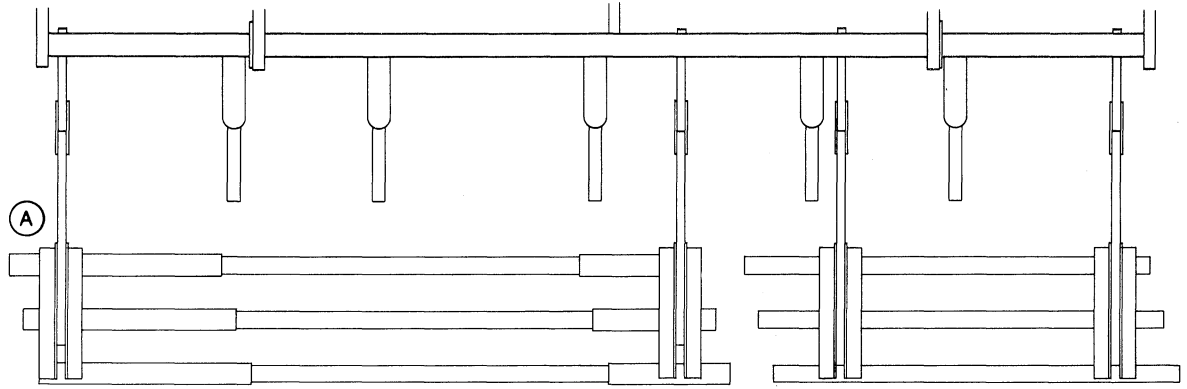
A—13-3/4 ft (4 191 mm)



N79079J1

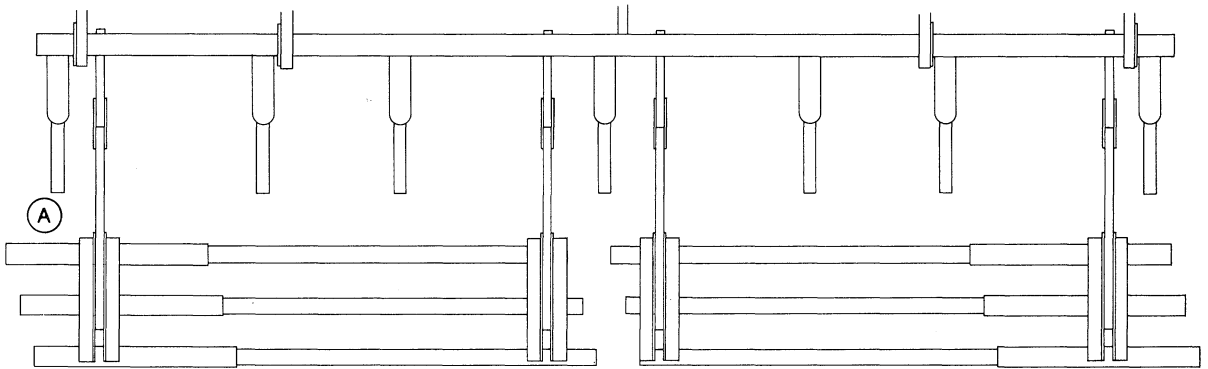
A—12-1/2 ft (3 810 mm)

Mulch Tillers—Continued



N79079K1

A—16-1/4 ft (4 953 mm)



N79079L1

A—17-1/2 ft (4 334 mm)



Specifications

WEIGHT

Folding Machines

Harrow Working Width	Weight
18-3/4 Ft. (5 715 mm)	498 lbs. (226 kg)
20 Ft. (6 096 mm)	519 lbs. (235 kg)
21-1/4 Ft. (6 477 mm)	537 lbs. (244 kg)
22-1/2 Ft. (6 858 mm)	558 lbs. (253 kg)
23-3/4 Ft. (7 239 mm)	621 lbs. (282 kg)
25 Ft. (7 620 mm)	640 lbs. (290 kg)
26-1/4 Ft. (8 001 mm)	663 lbs. (301 kg)
27-1/2 Ft. (8 382 mm)	682 lbs. (309 kg)
28-3/4 Ft. (8 763 mm)	700 lbs. (318 kg)
30 Ft. (9 144 mm)	718 lbs. (326 kg)
31-1/4 Ft. (9 525 mm)	736 lbs. (334 kg)
32-1/2 Ft. (9 906 mm)	760 lbs. (345 kg)
33-3/4 Ft. (10 287 mm)	778 lbs. (353 kg)
35 Ft. (10 668 mm)	886 lbs. (402 kg)
36-1/4 Ft. (11 049 mm)	904 lbs. (410 kg)
37-1/2 Ft. (11 430 mm)	924 lbs. (419 kg)
40 Ft. (12 192 mm)	960 lbs. (435 kg)
41-1/4 Ft. (12 573 mm)	978 lbs. (444 kg)(A)
42-1/2 Ft. (12 954 mm)	1026 lbs. (466 kg)
43-3/4 Ft. (13 335 mm)	1044 lbs. (474 kg)(B)
45 Ft. (13 716 mm)	1023 lbs. (464 kg)
46-1/4 Ft. (14 097 mm)	1199 lbs. (545 kg)
48-3/4 Ft. (14 859 mm)	1152 lbs. (523 kg)
50 Ft. (15 240 mm)	1170 lbs. (531 kg)
50 Ft. (15 240 mm)	1256 lbs. (570 kg)(C)
52-1/2 Ft. (16 000 mm)	1298 lbs. (589 kg)(C)
55 Ft. (16 760 mm)	1334 lbs. (606 kg)(C)
56-1/4 Ft. (17 145 mm)	1356 lbs. (616 kg)
57 Ft. (17 370 mm)	1776 lbs. (806 kg)(C)
59-1/2 Ft. (18 140 mm)	1502 lbs. (682 kg)(C)
61-1/4 Ft. (18 669 mm)	1519 lbs. (689 kg)
62-1/2 Ft. (19 050 mm)	1448 lbs. (657 kg)

(A) - 1075 lbs. (488 kg) with Low Transport Height

(B) - 1199 lbs. (544 kg) with Low Transport Height

(C) - 1650 Chisel Plow

WEIGHT—Continued

Non-Folding Machines

Harrow Working Width	Weight
8-3/4 Ft. (2 667 mm)	205 lbs. (93 kg)
10 Ft. (3 048 mm)	226 lbs. (103 kg)
11-1/4 Ft. (3 429 mm)	289 lbs. (131 kg)
12-1/2 Ft. (3 810 mm)	308 lbs. (140 kg)
13-3/4 Ft. (4 191 mm)	326 lbs. (148 kg)
15 Ft. (4 572 mm)	374 lbs. (170 kg)
16-1/4 Ft. (4 953 mm)	392 lbs. (178 kg)
17-1/2 Ft. (4 334 mm)	410 lbs. (186 kg)
18-3/4 Ft. (5 715 mm)	431 lbs. (196 kg)
20 Ft. (6 096 mm)	452 lbs. (205 kg)
21-1/4 Ft. (6 477 mm)	515 lbs. (234 kg)

ADAPTABILITY

The harrow attachment can be installed on other manufacturer's tillage equipment that use 2-1/2, 3, or 4-inch (64, 76, 102 mm) square rear bars.

TORQUE VALUE CHART

TORQUE VALUES

Recommended Torque Value in Foot-Pounds (N·m)
Coarse and Fine Threads

Bolt Diameter	Three Radial Dashes	Six Radial Dashes
1/4	10 (14)	14 (19)
5/16	20 (27)	30 (41)
3/8	35 (47)	50 (68)
7/16	55 (75)	80 (101)
1/2	85 (115)	120 (163)
9/16	130 (176)	175 (237)
5/8	170 (230)	240 (325)
3/4	300 (407)	425 (576)
7/8	445 (603)	685 (929)
1	670 (908)	1030 (1396)

Specifications and design are subject to change without notice.

MEMORANDA

MEMORANDA

MEMORANDA

MEMORANDA

THIS SPACE RESERVED FOR OFFICE USE

John Deere Distribution Service Center
Department S/P
P.O. Box 186, Moline, IL 61266-0186

Please send to . . .

Name _____

Address _____

Town _____ State _____

Zip _____ Phone (____) _____

To order these publications, fill out this form and the payment information and mail it to the address above. Make checks payable to Deere & Co. Service Publications. Please allow three weeks for delivery. No COD orders, please. Do not send cash or stamps. To place credit card orders, call **1-800-522-7448**. If you want manuals or catalogs for equipment not shown on this list, provide the model number, serial number, and name of the product.

Title	Order Number	Price Each	x Quantity	= Total
Harrow Attachment				
Parts Catalog	PC-1328	x	x	=
Operator's Manual	OM-N200008	x	x	=
		x	x	=
		x	x	=
		x	x	=
		x	x	=
		x	x	=
FMO Manual—Tractors	FMO-10102B	x	x	=
FMO Manual—Tillage	FMO-11102B	x	x	=
FMO Manual—Planting	FMO-12102B	x	x	=
FMO Manual—Crop Chemicals	FMO-13102B	x	x	=
FMO Manual—Hay & Forage Harvesting	FMO-14102B	x	x	=
FMO Manual—Combine Harvesting	FMO-15102B	x	x	=
FMO Manual—Preventive Maintenance	FMO-16103B	x	x	=
FMO Manual—Machinery Management	FMO-17102B	x	x	=
FMO Manual—Machine Safety	FMO-18102B	x	x	=
SET OF 9 FMO MANUALS (above)	FMO-394 Set	x	x	=
FOS Manual—Hydraulics	FOS-1003B	x	x	=
FOS Manual—Electrical Systems	FOS-2005B	x	x	=
FOS Manual—Engines	FOS-3005B	x	x	=
FOS Manual—Power Trains	FOS-4005B	x	x	=
SET OF 4 FOS MANUALS (above)	FOS-90 Set	x	x	=
FOS Manual—Shop Tools	FOS-5104B	x	x	=
FOS Manual—Welding	FOS-5205B	x	x	=
FOS Manual—Belts and Chains	FOS-5303B	x	x	=
FOS Manual—Bearings and Seals	FOS-5404B	x	x	=
FOS Manual—Tires and Tracks	FOS-5505B	x	x	=
FOS Manual—Mowing and Spraying Equipment	FOS-5604B	x	x	=
FOS Manual—Air Conditioning	FOS-5705B	x	x	=
FOS Manual—Fuels, Lubricants & Coolants	FOS-5805B	x	x	=
FOS Manual—Fiber Glass	FOS-5902B	x	x	=
FOS Manual—Fasteners	FOS-6002B	x	x	=
FOS Manual—Iden. of Parts Failures	FOS-6102B	x	x	=
SET OF 11 FOS MANUALS (above)	FOS-71 Set	x	x	=
SET OF ALL 15 FOS MANUALS	FOS-181 Set	x	x	=
Conservation Farming	FC-10101B	x	x	=
Machinery Maintenance	FMW-10101B	x	x	=
Farm Business Management	FBM-10101B	x	x	=
Catalogs of Available Service Publications:				
Agricultural Product Publications	CPC-1703	No Charge		
Industrial Product Publications	CPC-1852	No Charge		
Consumer Product Publications	CPC-1704	No Charge		

NOTE: If you want manuals or catalogs for equipment not shown on this list, list the model number, serial number, and name of the product.

For current prices of John Deere Service Literature, please call 1-800-522-7448

Subtotal
Illinois State Residents add 6%
for Retail Occupation Tax or
show tax exemption number.

Check or money order in U.S.
Dollars enclosedTotal
(Do not send cash or stamps)

Service to keep you on the job

We, at your John Deere dealers, pride ourselves in having what it takes to help keep you on the job...

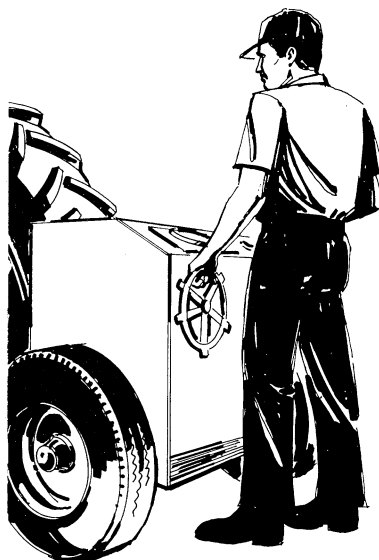
John Deere Parts.

We help minimize downtime by putting the right parts in your hands in a hurry. That's why we maintain a large and varied inventory—to stay a jump ahead of your needs.



The right tools.

Precision tools and testing equipment enable our Service Department to locate and correct troubles quickly... to save you time and money.



Well-trained technicians.

School is never out for John Deere service technicians. Training schools are held regularly to be sure our personnel know your equipment and how to maintain it. Result? Experience you can count on!



Prompt service.

Our goal is to provide prompt, efficient care when you want it and where you want it. We can make repairs at your place or at ours, depending on the circumstances. See us. Depend on us.

John Deere Service Superiority: We'll be around when you need us

