

ExactApply™ Installation

BKK10805, BKK10806, BKK10807, BKK10808,
BKK10809, BKK10810, BKK10811, BKK10812, BKK10813,
BKK10814, BKK10815, BKK10816



JOHN DEERE

INSTALLATION INSTRUCTIONS

ExactApply™ Installation

KK51867 15APR20 (ENGLISH)

R4030, R4038 and R4045 Self-Propelled Sprayers

**John Deere Des Moines Works
KK51867 (15APR20)**

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A John Deere ILLUSTRATION™ Manual

KK51867-19-15APR20

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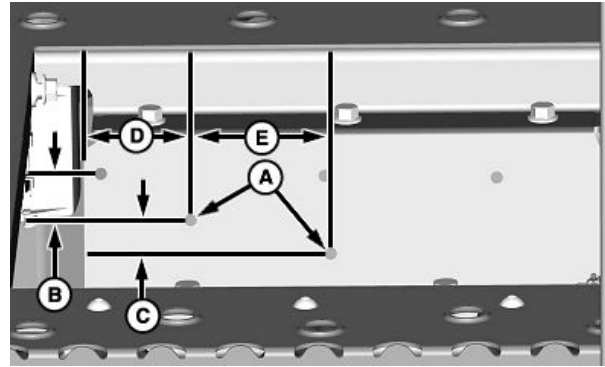
Boom Kits—27.4 m (90 ft)		
	15 in	20 in
Electrical Connector Accessory		1
Washer, 41.27 mm (1.62 in) ID	5	5
Pipe Kit, 38.1 cm (15 in)	2	
Pipe Kit, 38.1 cm (15 in)	2	
Pipe Kit, 50.8 cm (20 in)		2
Wiring Harness, Breakaway 38.1 cm (15 in)—AKK22710	2	
Wiring Harness, Nozzle Extension 38.1 cm (15 in)—AKK22712	1	
Wiring Harness, Inner Boom 38.1 cm (15 in)—AKK25246	2	
Wiring Harness, Breakaway 50.8 cm (20 in)—AKK22711		2
Wiring Harness, Inner Boom 50.8 cm (20 in)—AKK25247		2
Wiring Harness, Outer Boom—AKK22707	2	2
Wiring Harness, Center Boom—AKK25224	1	1
Nozzle Body	73	54
Hose Clamp, 38.1 mm (1.5 in)	16	16
Clamp, 25.4 mm (1 in)	8	8
Valve Replacement Fitting	5	5
Hose, 25.4 mm x 2630 mm (1 in x 103.5 in)	2	
Hose, 25.4 mm x 2895 mm (1 in x 113.9 in)		2
Spray Pipe Clamp	28	22
Bracket	14	14
Bracket	1	1
Bracket	1	1
Bracket	10	14
Bracket	4	4
Bracket	1	1
Bracket	1	1
Bracket	1	1
Hose, 25.4 mm x 3165 mm (1 in x 124.6 in)	2	
Hose, 25.4 mm x 3105 mm (1 in x 122.2 in)		2
Hose, 25.4 mm 500 mm (1 in x 19.5 in)		2
Hose, 25.4 mm x 650 mm (1 in x 25.5 in)	2	
Bracket	6	6
Bracket	1	1
Bracket	2	2
Bracket	2	2
Bracket	26	20
Aspirator	16	18
Bracket	1	1
Bracket	1	1
Bracket	2	2
Nut, M6	73	54
Hose Fitting, 25.4 mm (1 in)	2	2
T-Fitting, 25.4 mm (1 in)	2	2
T-Fitting, Flange, 25.4 mm (1 in)		2

Continued on next page

VM03385.00002DE - 19-01MAR18-3/6

6. Drill two 9 mm (0.35 in) holes (A) in the rear of the battery box using dimensions (B—E).

A—Holes	D—Dimension, 70.0 mm (2.75 in)
B—Dimension, 33.19 mm (1.30 in)	E—Dimension, 108.32 mm (4.26 in)
C—Dimension, 20.70 mm (0.815 in)	

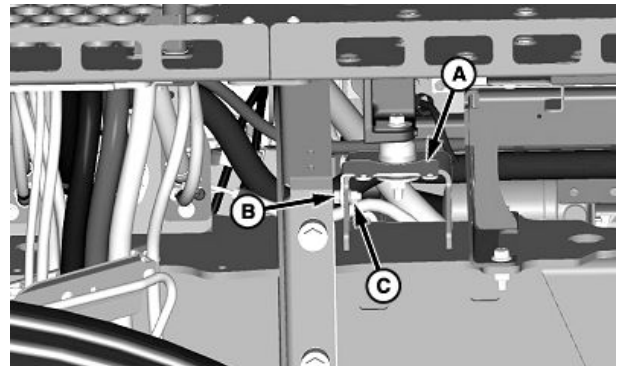


N132121—UN—23AUG17

MH69740,000064C -19-23JAN18-4/11

7. Install harness bracket (A) using cap screw (B) and nut (C).

A—Harness Bracket, Style B	C—Nut, M10
B—Cap Screw, M10 x 25	

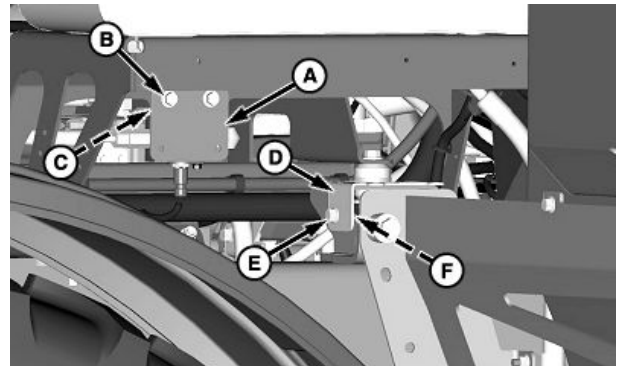


N131344—UN—23AUG17

MH69740,000064C -19-23JAN18-5/11

8. Install harness bracket (A) using cap screws (B) and nuts (C).
9. Install bracket (D) using cap screw (E) and nut (F).

A—Harness Bracket, Style D	D—Harness Bracket, Style B
B—Cap Screw, M10 x 55 (2 used)	E—Cap Screw, M10 x 25
C—Nut, M10 (2 used)	F—Nut, M10



N131346—UN—23AUG17

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MH69740,000064C -19-23JAN18-6/11

NOTE: Apply dielectric grease to all connectors. Do not over apply dielectric grease.

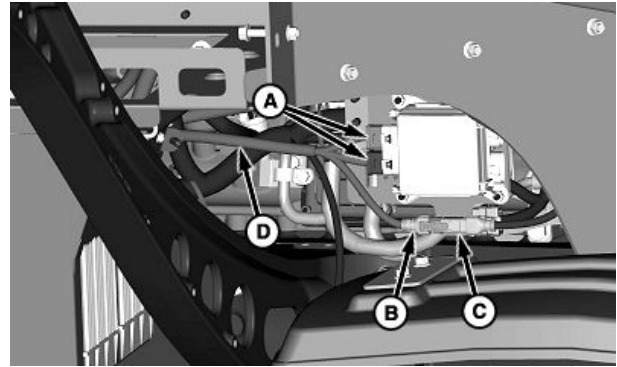
Verify that internal connector colors match.

Connector (C) is located on the previously installed switched power harness on machines with serial number **below 170000**.

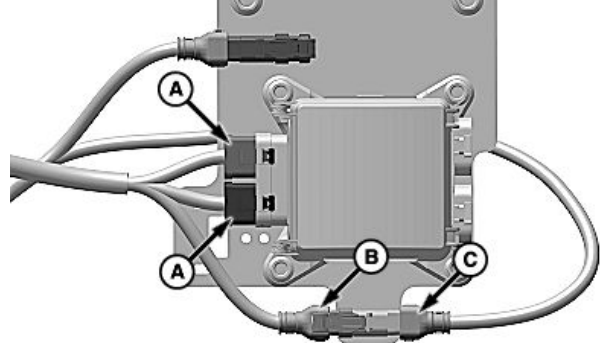
Connector (C) is integrated into the machine harness near the installed fuse box on machines with serial number **above 170001**.

15. Connect power cable connectors (A) to the fuse box.
16. Connect connectors (B and C).
17. Route power cable (D) into the battery box as shown.
18. Install the power cable to fuse as shown using supplied nut (E).
19. Retain power cable to the battery box using tie band with push-in retainer (F).

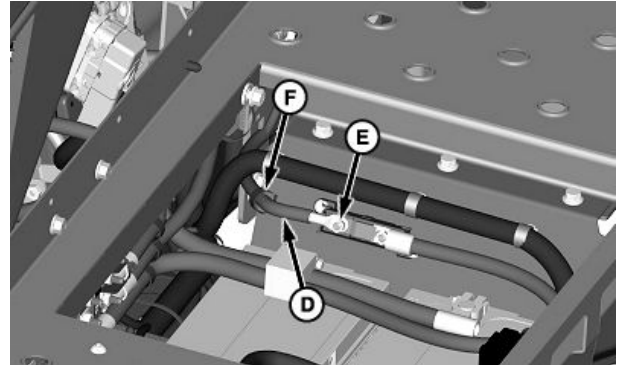
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|--------------------------|----------------------------------|
| A—Power Cable Connectors | D—Power Cable |
| B—Connector | E—Nut |
| C—Connector | F—Tie Band with Push-In Retainer |



Serial Number 170001 and above



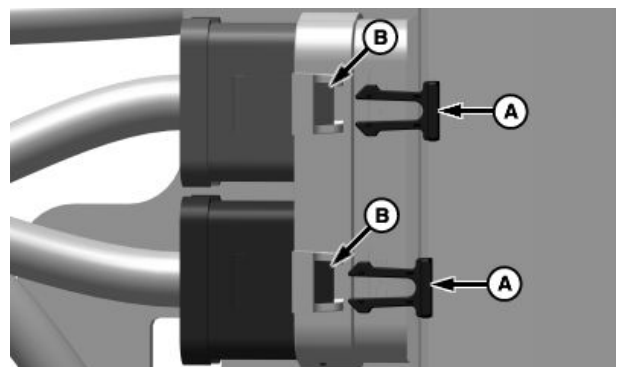
Serial Number 170000 and below



CS12167.0000B38 -19-12APR18-15/55

20. Install connector locks (A) under connector tabs (B).

- | | |
|-------------------|------------------|
| A—Connector Locks | B—Connector Tabs |
|-------------------|------------------|



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CS12167.0000B38 -19-12APR18-16/55

N132126 —UN—23AUG17

N133865 —UN—09NOV17

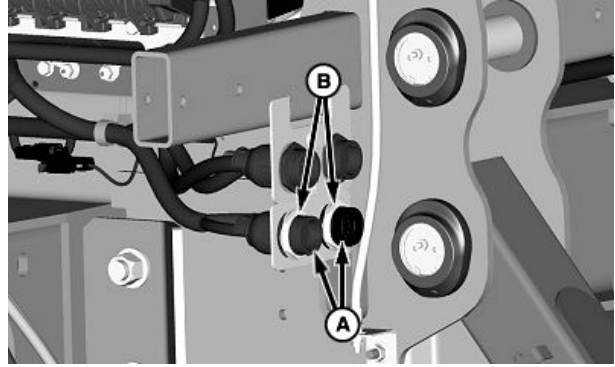
N132127 —UN—23AUG17

N133863 —UN—09NOV17

48. Install connectors (A) to bracket using nuts (B).

A—Connectors

B—Nuts



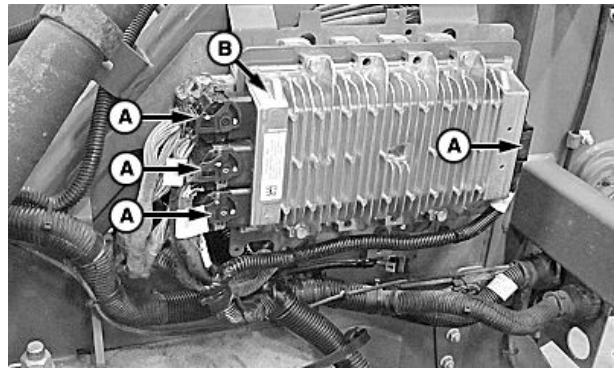
N132536—UN—23AUG17

CS12167,0000B38 -19-12APR18-37/55

49. Connect connectors (A) to the electronic control unit (B).

A—Harness Connectors

B—Electronic Control Unit



N133868—UN—07DEC17

CS12167,0000B38 -19-12APR18-38/55

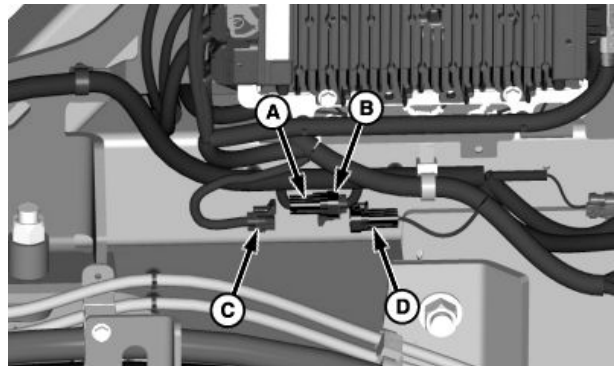
NOTE: Apply dielectric grease to all connectors. Do not over apply dielectric grease.

50. Connect CAN connections on machines **equipped WITHOUT direct injection.**

- a. Disconnect machine CAN connectors (A and B).
- b. Connect CAN connectors (A and C).
- c. Connect CAN connectors (B and D).

A—Machine CAN Connector
B—Machine CAN Connector

C—ExactApply™ CAN Connector
D—ExactApply™ CAN Connector



N132537—UN—23AUG17

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CS12167,0000B38 -19-12APR18-39/55

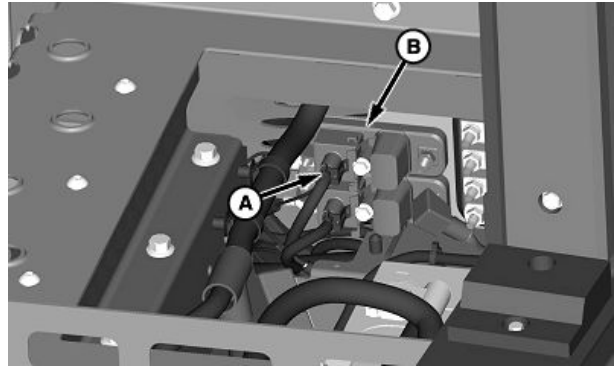
- c. Disconnect connector (A) from direct injection relay (B).

NOTE: Do not over apply dielectric grease.

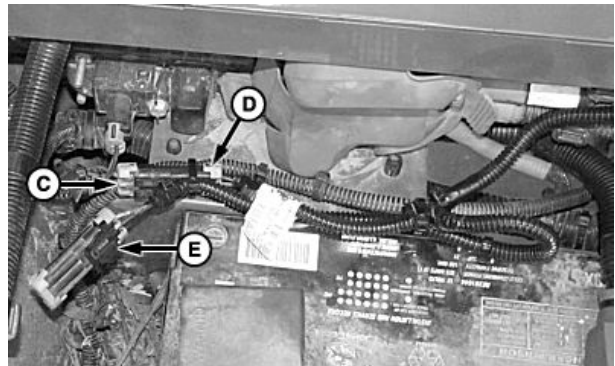
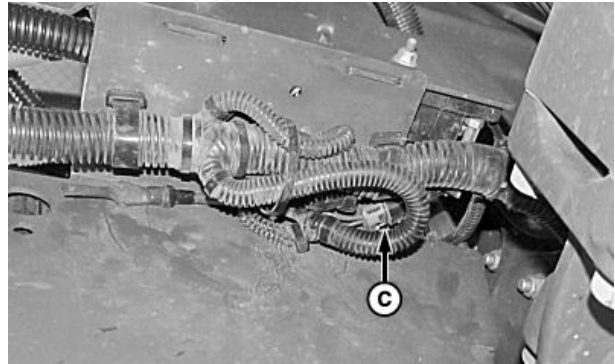
- d. Apply dielectric grease to the switched power harness connector.
- e. Connect switched power harness to the relay.
- f. Connect the original relay connector to the installed harness.
1. **If machine is not equipped with two relays:** Locate machine harness connector (C) and connect to relay.
 2. Remove cap from connector (D) and connect to machine harness (C).
 3. Install cap on the harness connector (E).

A—Connector
B—Direct Injection Relay
C—Machine Harness Connector

D—Connector
E—Connector



If Equipped with Direct Injection Relay



CS12167,0000B37 -19-12APR18-5/64

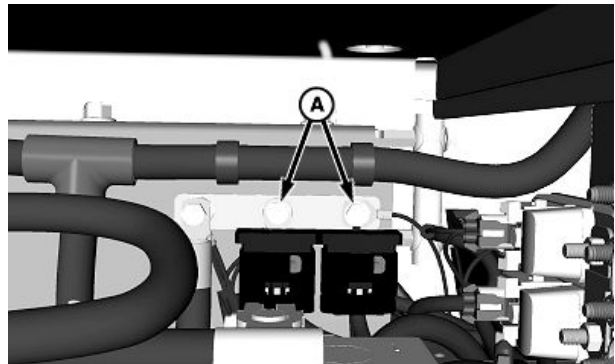
N132539 —UN—24AUG17

N134392 —UN—13DEC17

N134393 —UN—13DEC17

- g. Remove and retain cap screws (A).
- h. Install ring terminals using previously removed cap screws.

A—Cap Screw (2 used)



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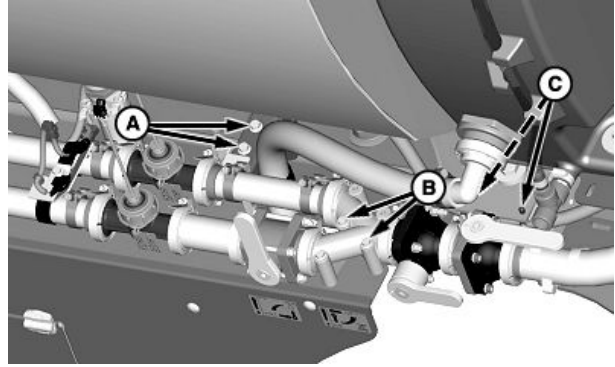
CS12167,0000B37 -19-12APR18-6/64

N132538 —UN—24AUG17

e. Remove and discard cap screws (A and B) and nuts. Remove push-in retainers (C).

A—Cap Screws (2 used)
B—Cap Screws (2 used)

C—Push-In Retainers



N132809—UN—18SEP17

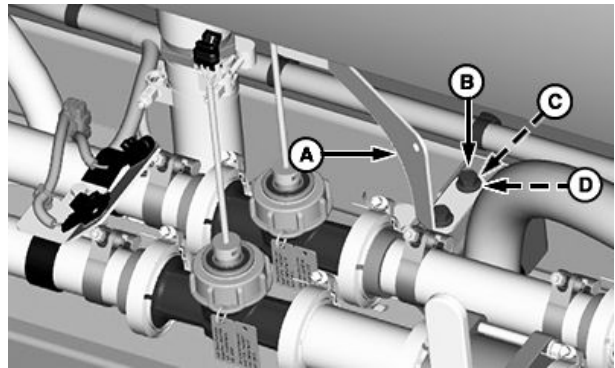
CS12167,0000B37 -19-12APR18-25/64

f. Install washers (C) between the supplied bracket (A) and mounting surface.

g. Install harness bracket (A) using cap screws (B) and nuts (D).

A—Style C Harness Bracket
B—Cap Screw, M10 x 80 (2 used)

C—Washer, M13 (2 used)
D—Nut, M10 (2 used)



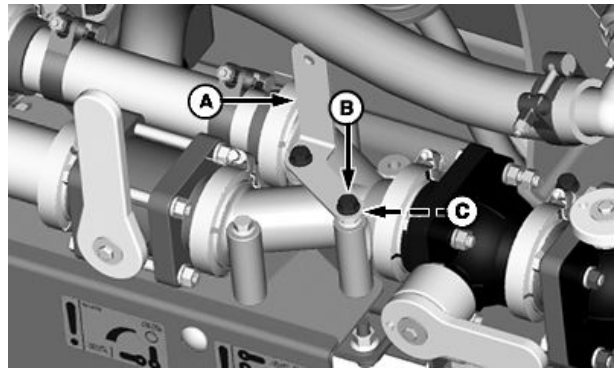
N133839—UN—08NOV17

CS12167,0000B37 -19-12APR18-26/64

h. Install harness bracket (A) using cap screws (B) and nuts (C).

A—Style D Harness Bracket
B—Cap Screw, M8 x 100 (2 used)

C—Nut, M8 (2 used)



N132693—UN—11SEP17

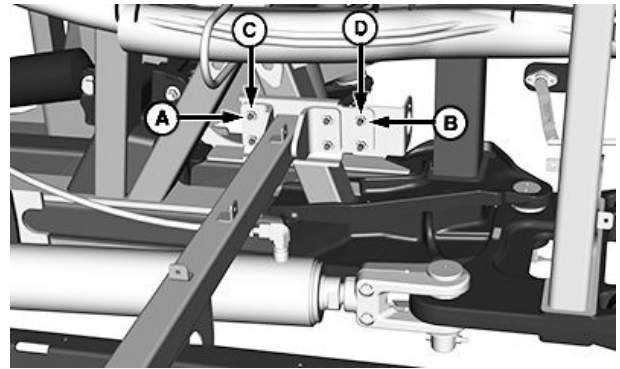
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CS12167,0000B37 -19-12APR18-27/64

53. Remove and discard nuts (A-B) and cap screws (C-D).

A—Nut (2 used)
B—Nut (2 used)

C—Cap Screw (2 used)
D—Cap Screw (2 used)



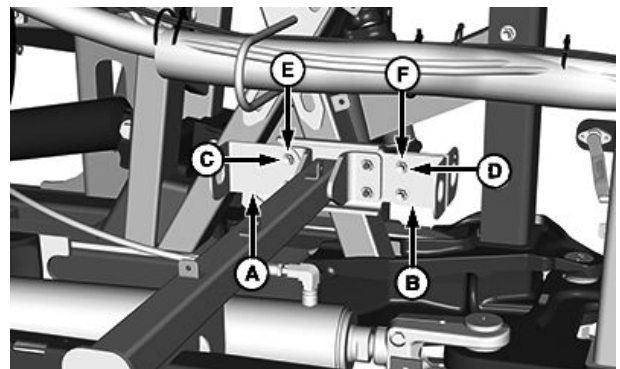
N132044—UN—10AUG17

CS12167,0000B37 -19-12APR18-54/64

54. Install supplied brackets (A-B), cap screws (C-D), and nuts (E-F).

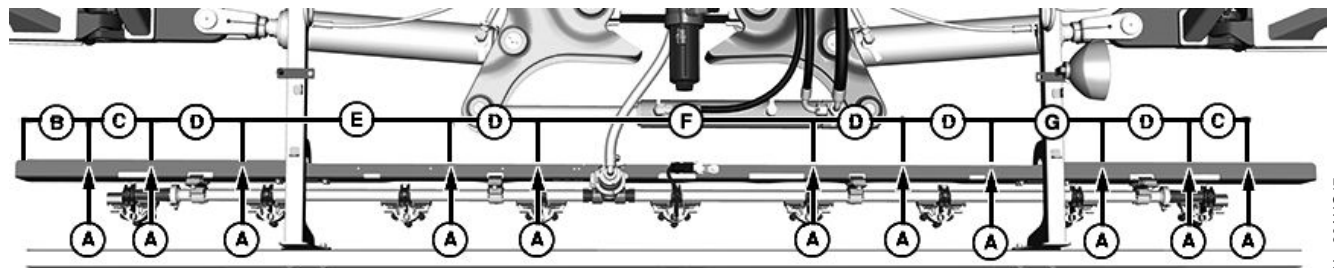
A—Bracket
B—Bracket
C—Cap Screw, M8 x 20 (2 used)

D—Cap Screw, M10 x 35 (2 used)
E—Nut, M8 (2 used)
F—Nut, M10 (2 used)



N132045—UN—10AUG17

CS12167,0000B37 -19-12APR18-55/64



N132361—UN—23AUG17

A—Hole Location
B—Measurement, 227.50 mm (9 in)
C—Measurement, 166.50 mm (7 in)
D—Measurement, 250 mm (10 in)
E—Measurement, 571 mm (22 in)
F—Measurement, 775 mm (31 in)
G—Measurement, 321 mm (13 in)

NOTE: Drill holes in machines with serial numbers below 170001 only.

55. Mark and drill harness mounting holes in center spray pipe mounting plate on machines with **38.1 mm (15 in)** spacing.

- a. Mark hole locations (A) on center frame harness using measurements (B-G).
- b. Drill eleven 6 mm (15/64 in) holes at previously marked locations.

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CS12167,0000B37 -19-12APR18-56/64

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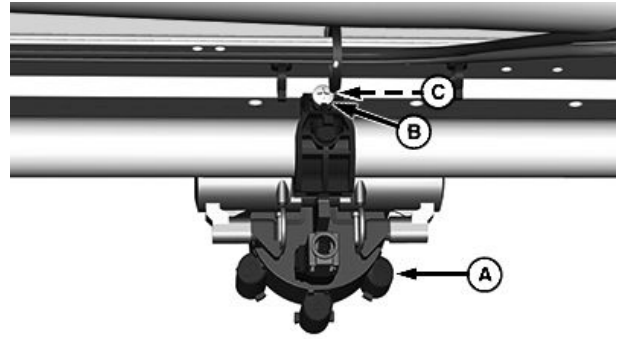
IMPORTANT: Apply an anti-seize compound to the nozzle body mounting screw when installing with power tools. Use only low speed power tools when installing nozzle body to avoid damaging hardware.

8. Install supplied nozzle bodies on inner boom spray pipes.
 - a. Install supplied nozzle body (A) using screw (B), and nut (C). Tighten to specification.

Specification

Nozzle Body Mounting	
Cap Screw—Torque.....	2 N-m (17.7 lb-in)

- b. Repeat steps as necessary.



A—Nozzle Body
B—Screw, M6 x 30

C—Nut, M6

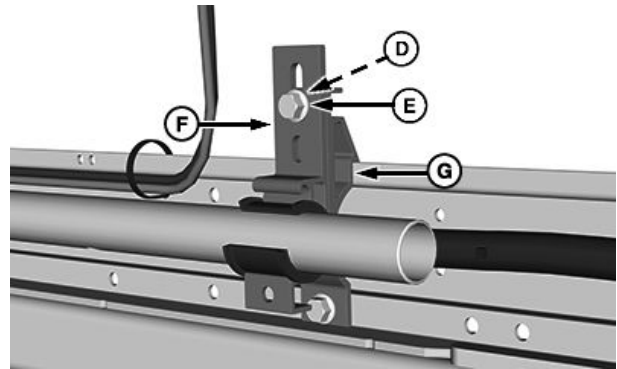
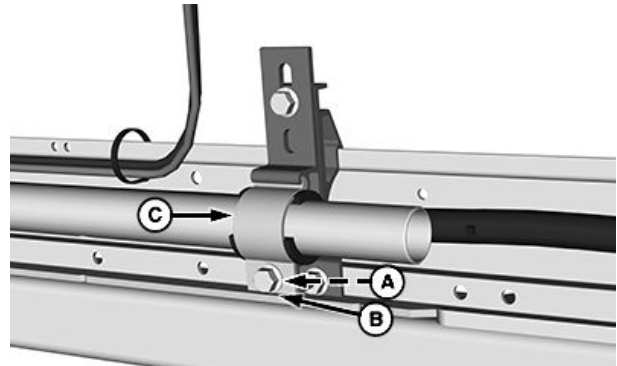
VM03385,00002E2 -19-25JAN18-8/47

N131836—UN—24JUL17

9. Remove Style A spray pipe brackets.
 - a. Remove and retain nut (A), cap screw (B), and clamp (C).
 - b. Remove and retain nuts (D) and cap screws (E).
 - c. Remove and discard brackets (F-G).
 - d. Repeat steps as necessary.

- A—Nut
B—Cap Screw
C—Clamp
D—Nut (2 used)

- E—Cap Screw (2 used)
F—Bracket
G—Bracket

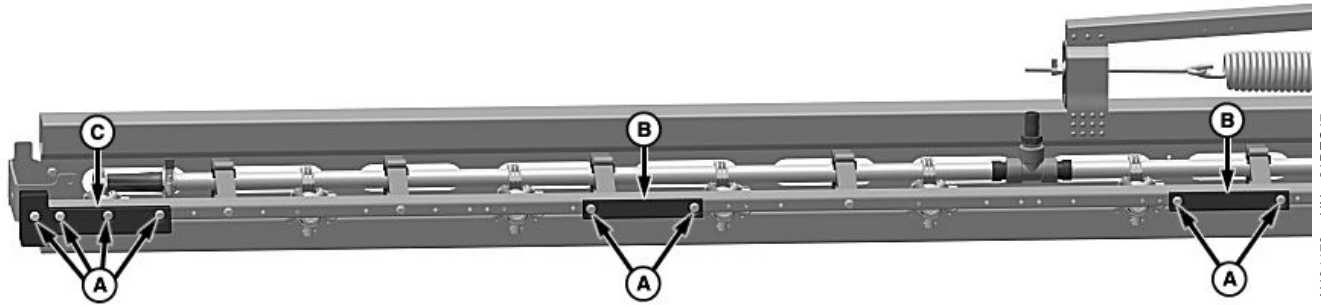


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N131710—UN—07AUG17

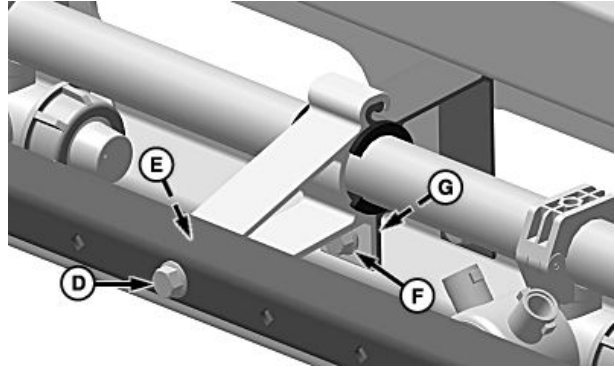


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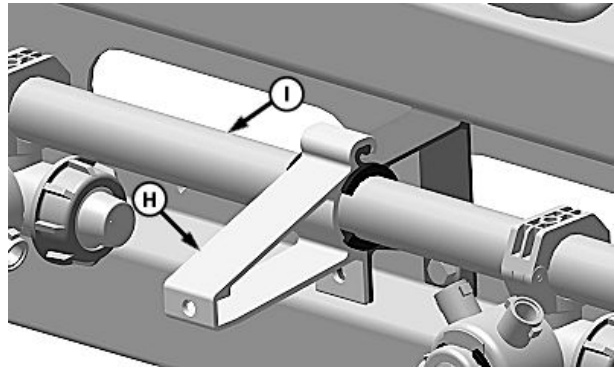
37. Remove breakaway spray pipe (H).

- a. Remove cap screws and nuts (A) and discard fold pads (B).
- b. Remove and retain cap screws (A) and fold pads (C).
- c. Remove cap screw (D) and nut (E). Repeat across breakaway.
- d. Remove cap screw (F) and nut (G). Repeat across breakaway.
- e. Remove bracket (H) and spray pipe (I).

- | | |
|--------------------------------|----------------------|
| A—Cap Screws and Nuts (8 used) | F—Cap Screw (7 used) |
| B—Fold Pads (2 used) | G—Nut (7 used) |
| C—Fold Pad | H—Bracket (7 used) |
| D—Cap Screw (7 used) | I—Spray Pipe |
| E—Nut (7 used) | |



N134129 —UN—21DEC17



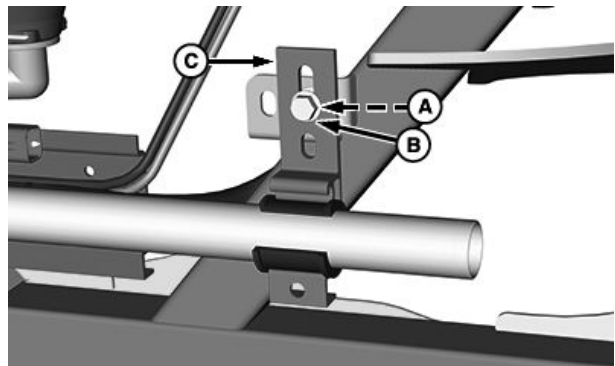
N134130 —UN—21DEC17

VM03385.00002E2 -19-25JAN18-29/47

38. Remove and discard Style B spray pipe brackets on the outer boom.

- a. Remove and retain nut (A) and cap screw (B).
- b. Remove and discard bracket (C).

- | | |
|-------------|-----------|
| A—Nut | C—Bracket |
| B—Cap Screw | |

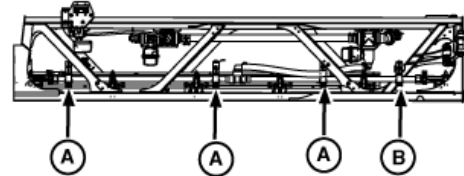
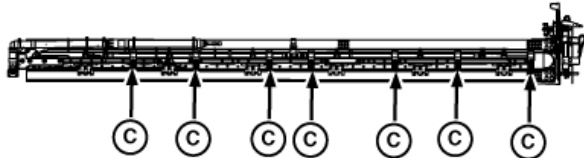
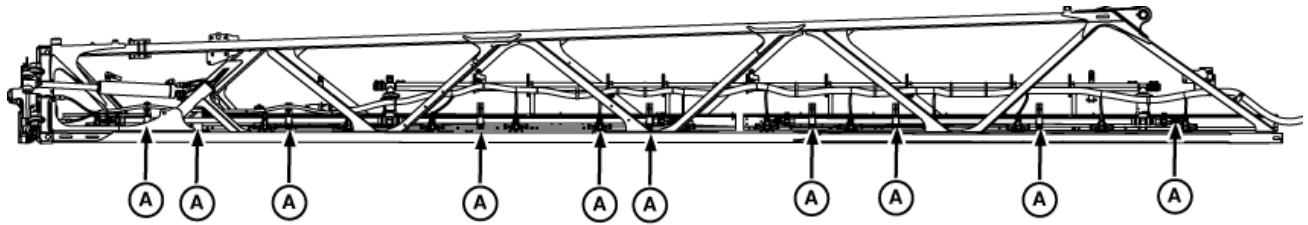


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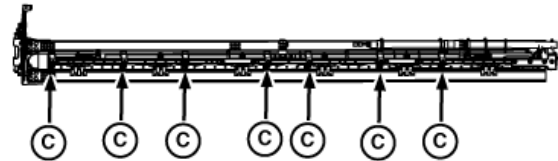
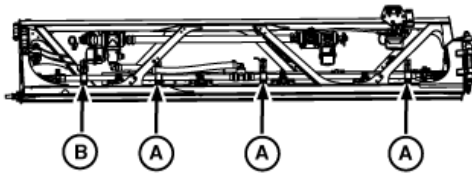
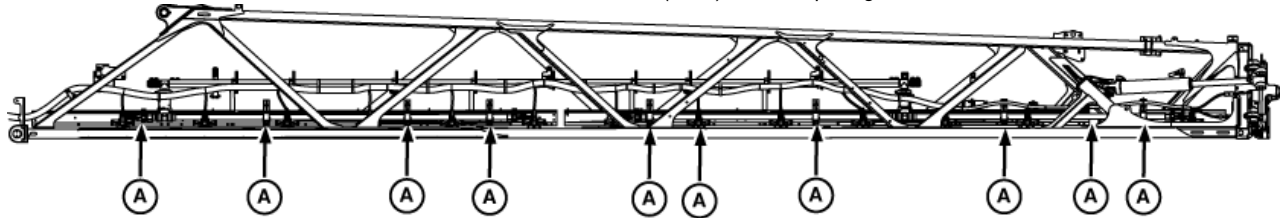
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Remove and Install Boom Components—30.5 m (100 ft) Boom

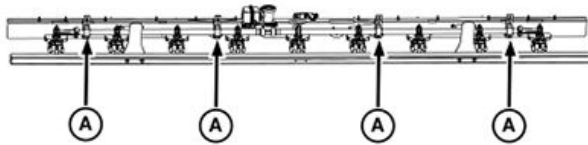


Left-Hand Boom—38.1 cm (15 in) Nozzle Spacing

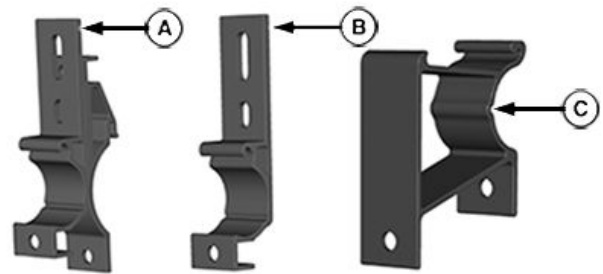


Right-Hand Boom—38.1 cm (15 in) Nozzle Spacing

N132046 —UN—10AUG17



Center Boom—38.1 cm (15 in) Nozzle Spacing



Bracket Styles

A—Style A

B—Style B

C—Style C

1. Identify the spray pipe bracket styles and locations on machines with 38.1 cm (15 in) nozzle spacing.

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VM03385,00002E3 -19-25JAN18-1/50

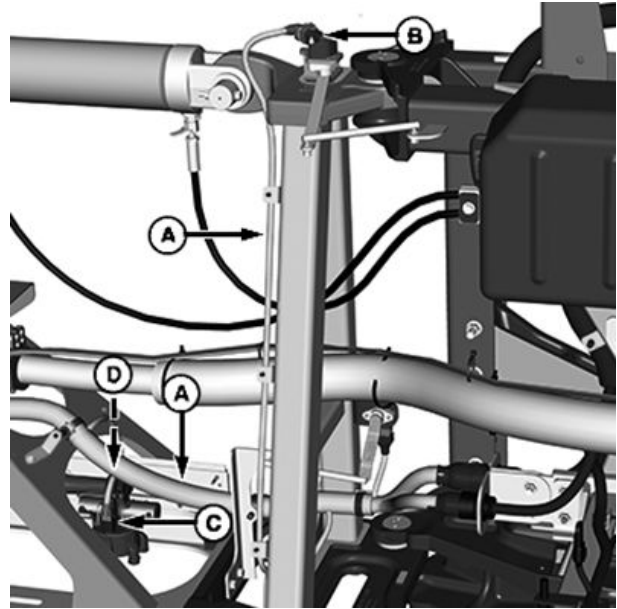
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N132028 —UN—09AUG17

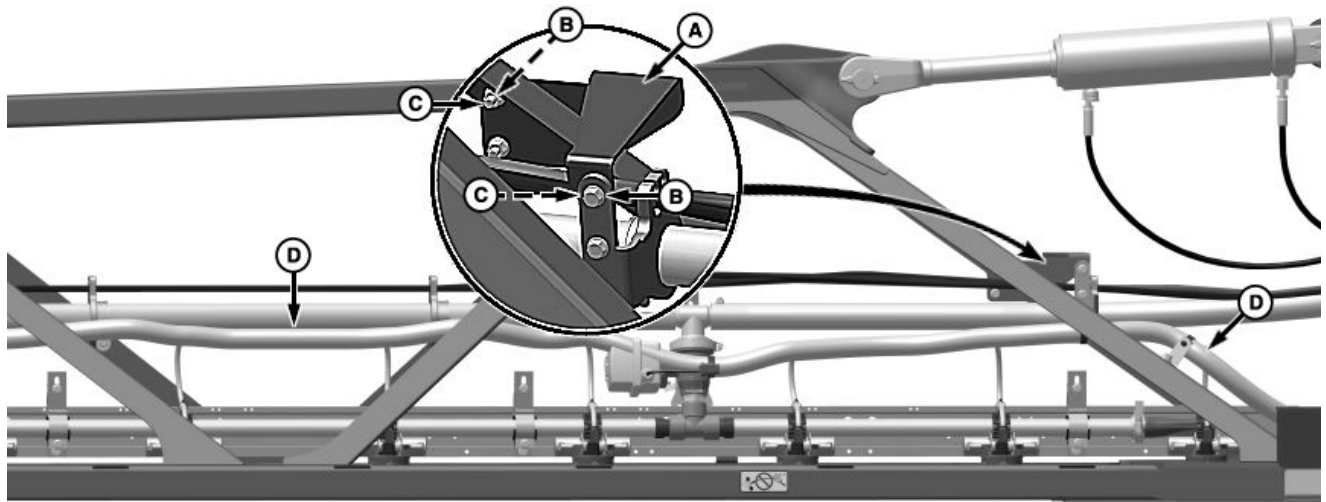
- 23. Route harness (A) as shown. Retain using installed push-in retainers.
- 24. Connect connector (B) to the boom fold sensor.
- 25. Connect connector (C) to the nozzle body as shown. Retain using tie band (D).

A—Harness
 B—Connector
 C—Connector
 D—Tie Band



N131952—UN—20SEP17

VM03385.00002E3 -19-25JAN18-21/50



N134221—UN—30NOV17

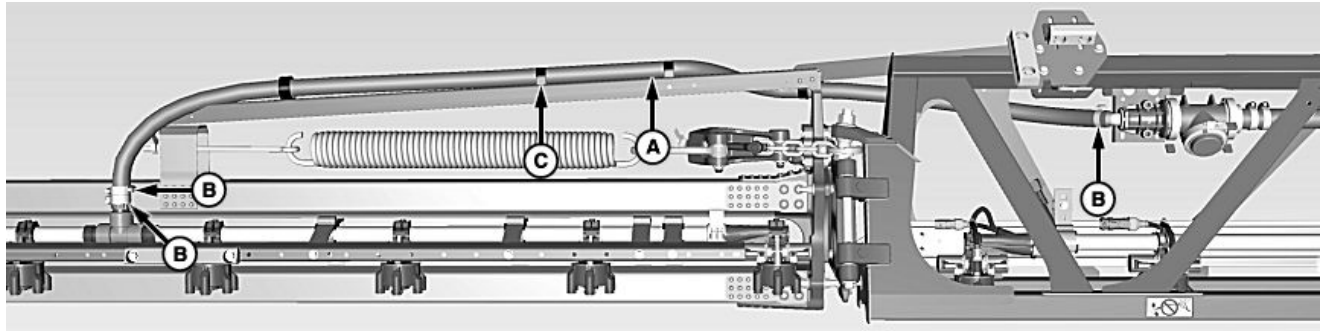
A—Bracket
 B—Cap Screw (4 used)
 C—Nut (4 used)
 D—Harness

- 26. Install bracket (A) using existing cap screws (B) and nuts (C).

- 27. Route harness (D) as shown. Retain using installed push-in retainers and tie bands.

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VM03385.00002E3 -19-25JAN18-22/50



N134382—UN—12DEC17

A—Hose, 2455 mm (96.6 in) **B—Clamp (3 used)** **C—Tie Band**

58. Install supplied hose (A) using clamps (B). Retain using tie band (C) as shown.

VM03385.00002E3 -19-25JAN18-43/50

59. Modify outer boom gussets on machines with serial numbers below 170000.

- a. Locate outer boom gussets (A) for modification.
- b. Remove paint from the repair area. (See Remove Paint Before Welding or Heating in this instruction.)

A—Outer Boom Gussets



N132546—UN—11SEP17

Outer Boom Gussets

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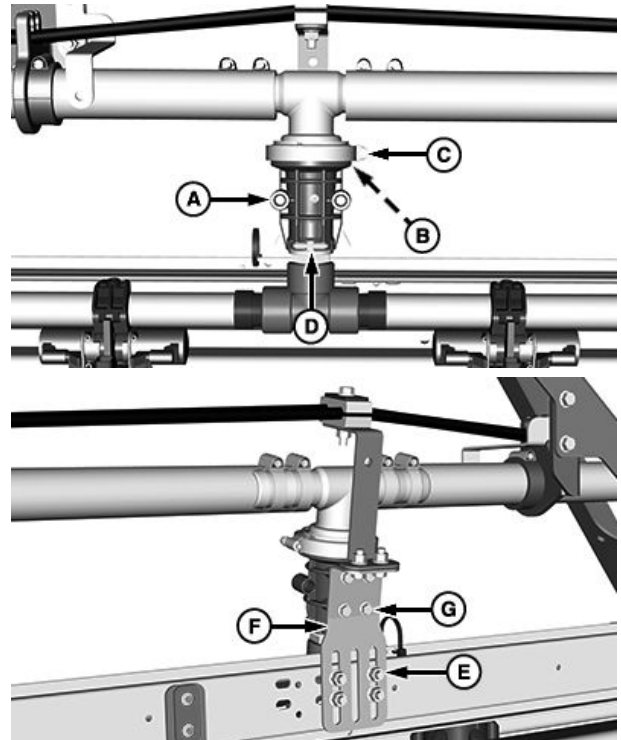
VM03385.00002E3 -19-25JAN18-44/50

10. Install supplied fittings as necessary.

- a. Install supplied fitting (A) using gasket (B), clamp (C), and pin (D).
- b. Loosen cap screws and nuts (E).
- c. Adjust bracket (F) as necessary and install previously removed cap screws (G).

A—Fitting
B—Gasket
C—Clamp
D—Pin

E—Cap Screw and Nuts (4 used)
F—Bracket
G—Cap Screws (4 used)



N134205—UN—30NOV17

N134206—UN—30NOV17

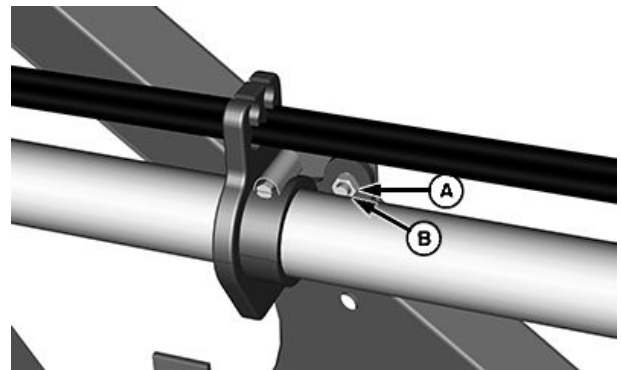
VM03385,00002E4 -19-25JAN18-10/52

11. Remove hardware for Style A brackets.

- a. Remove and discard nuts (A) and cap screws (B).
- b. Repeat steps as necessary.

A—Nut (2 used)

B—Cap Screw (2 used)



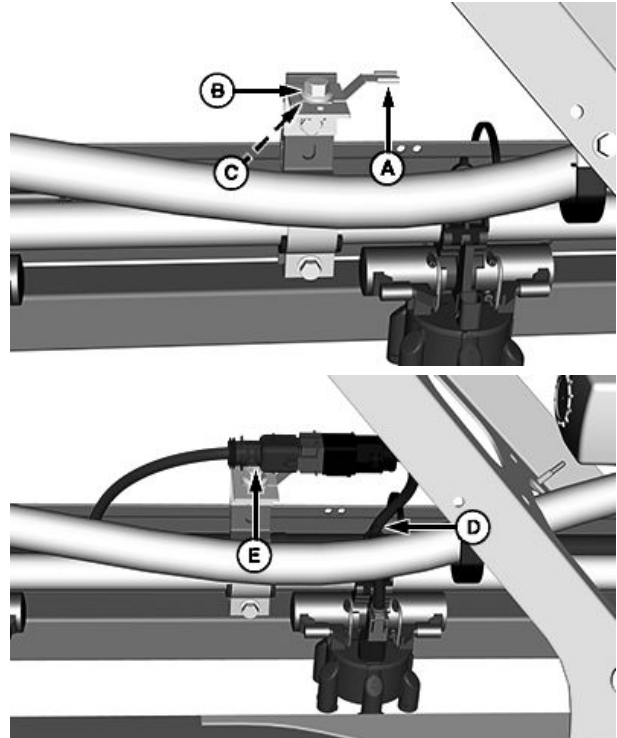
N132027—UN—09AUG17

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VM03385,00002E4 -19-25JAN18-11/52

43. Install supplied bracket (A) using cap screw (B) and nut (C).
44. Connect jumper harness (D) to harness connector (E). Jumper harness also connects to the nozzle body.

A—Bracket	D—Jumper Harness
B—Cap Screw, M10 x 16	E—Connector
C—Nut, M10	



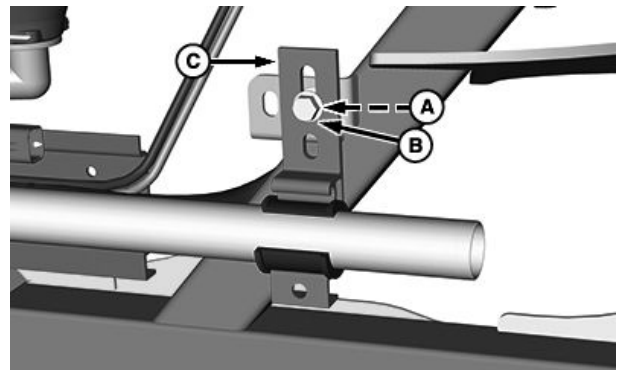
N132267—UN—17AUG17

N132268—UN—17AUG17

VM03385.00002E4 -19-25JAN18-31/52

45. Remove and discard Style B spray pipe brackets on the outer boom.
- Remove and retain nut (A) and cap screw (B).
 - Remove and discard bracket (C).

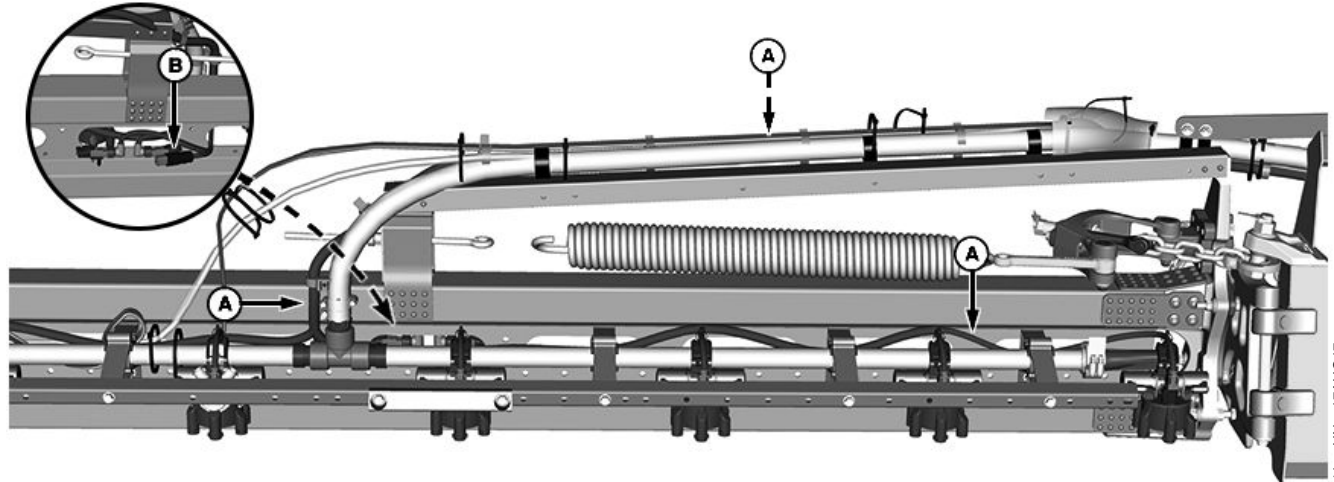
A—Nut	C—Bracket
B—Cap Screw	



N134188—UN—22NOV17

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VM03385.00002E4 -19-25JAN18-32/52



N132041—UN—17AUG17

A—Harness

B—Connector

64. Route harness (A) as shown. Retain using installed push-in retainers.

65. Connect connector (B) to the BoomTrac™ sensor.

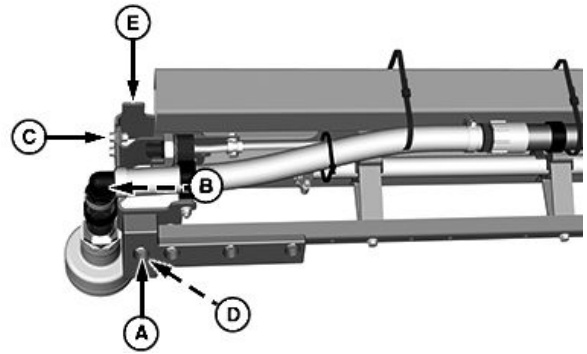
VM03385.00002E4 -19-25JAN18-50/52

66. Remove and retain cap screws (A-C) and nuts (D).

67. Remove and discard bracket (E).

A—Cap Screw (2 used)
B—Cap Screw (2 used)
C—Cap Screw (4 used)

D—Nut (8 used)
E—Bracket



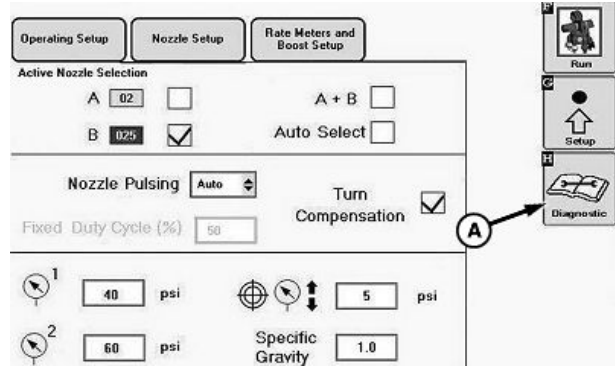
N132273—UN—17AUG17

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17. Access nozzle information by pressing the Diagnostic softkey (A).

A—Diagnostic Softkey

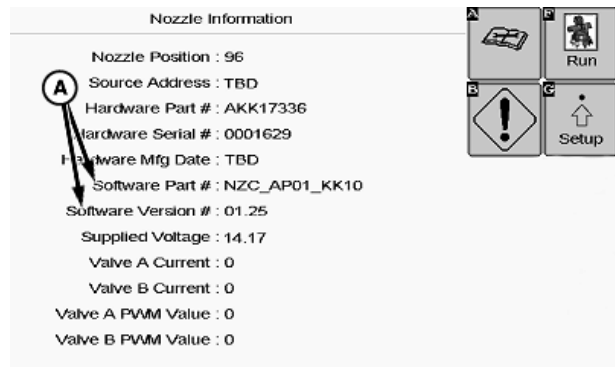


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18. Verify that all nozzle bodies contain the correct software part number and version number (A).

A—Software Part Number and Version Number



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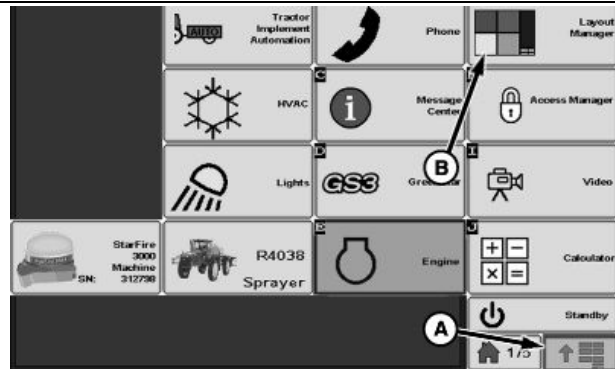
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Set up Run Pages

1. Select Menu button (A).
2. Select Layout Manager button (B).

A—Menu Button

B—Layout Manager Button



N133328—UN—16OCT17

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