

FB-C, DF-C B-C, D-C Grain Drills



OPERATORS MANUAL

**FB-C, DF-C B-C, D-C
Grain Drills**

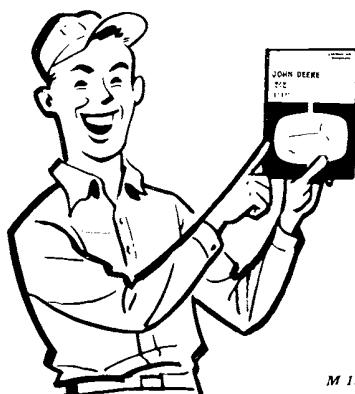
OMN159217 C2 English

**John Deere Des Moines Works
OMN159217 C2**

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ENGLISH



TO THE PURCHASER



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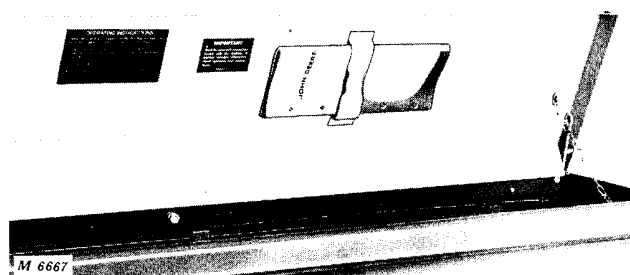
Your new Grain Drill is designed to give you many years of satisfactory service. Its successful operation depends upon the care given it and how it is operated.

The Operation and Service sections of this manual have been prepared to assist the operator in servicing and adjusting the drill to meet varying field conditions.

If you find that you need information not covered in this manual, see your John Deere dealer. He can give you prompt "know-how" service in the field or in his shop.

When in need of parts, go to your John Deere dealer. Be sure to give him a complete description of the part, the model of the drill, and the year purchased. The model and date purchased should be recorded at the bottom of this page as soon as you have received your drill.

Right-hand and left-hand reference is determined by standing at the rear of the drill and facing the direction of travel.



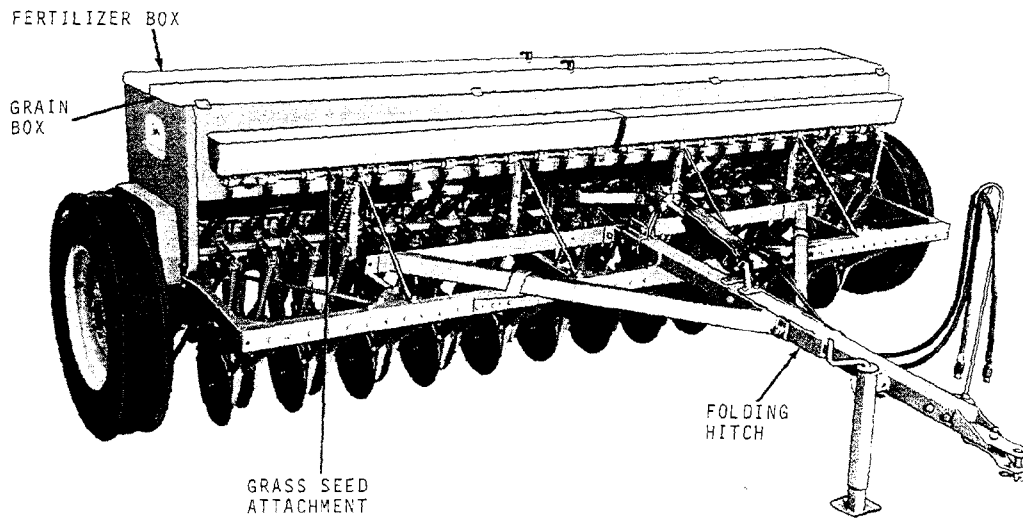
Study this manual carefully. After you are thoroughly familiar with its contents, return it to the holder inside the grain box cover for ready reference.

The warranty on this grain drill appears on your copy of the purchase order which you should have received from your dealer when you purchased the grain drill.

This is a Grain Drill	
(Model)	
Date Purchased	19
Serial Number	

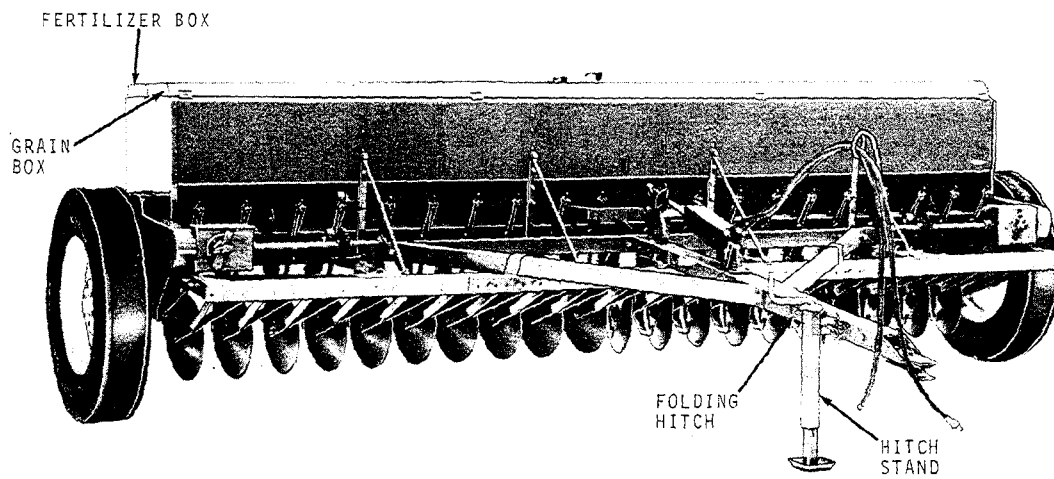
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DF208C Double-Run Feed Drill



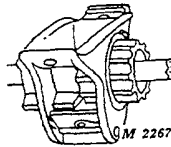
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FB177C Fluted Feed Drill

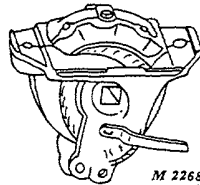
INTRODUCTION

This manual covers John Deere B-C and D-C Plain Grain Drills and FB-C and DF-C Fertilizer Grain Drills. The box on the FB-C and DF-C Drills has an adjustable partition separating the grain and fertilizer compartments. All drills can be equipped with separate grass seed attachments for seeding grass and small legumes. In addition, the B-C and FB-C Drills can be equipped with a separate brome seed attachment for accurate sowing of brome grass and similar seeds.

The B-C and FB-C Drills have "fluted force feeds" as a grain metering device which look like this:



The D-C and DF-C Drills have "double run feeds" as a grain metering device which look like this:

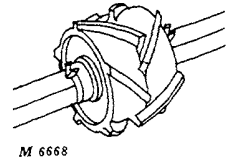


Both types of feeds have proven themselves over the years as dependable seed metering devices. The feeds are precision-built to insure accurate planting rates for a variety of seeds.

The grain feed shaft on the B-C and FB-C Drills is driven directly from the countershaft. Slow or fast feed shaft speeds can be obtained by reversing the gears on each end of the box.

The grain feed shaft on the D-C and DF-C Drills is driven through a gear box from the countershaft. Slow or fast feed shaft speeds are obtained by changing the countershaft-to-gear box drive chain to the alternate set of sprockets.

The traction-tread plastic fertilizer feed wheel on FB-C and DF-C Drills is corrosion and wear resistant and will accurately meter all dry fertilizer. Fertilizer application rates can be adjusted with the speed selectors on the gear boxes which drive the fertilizer feed shaft.



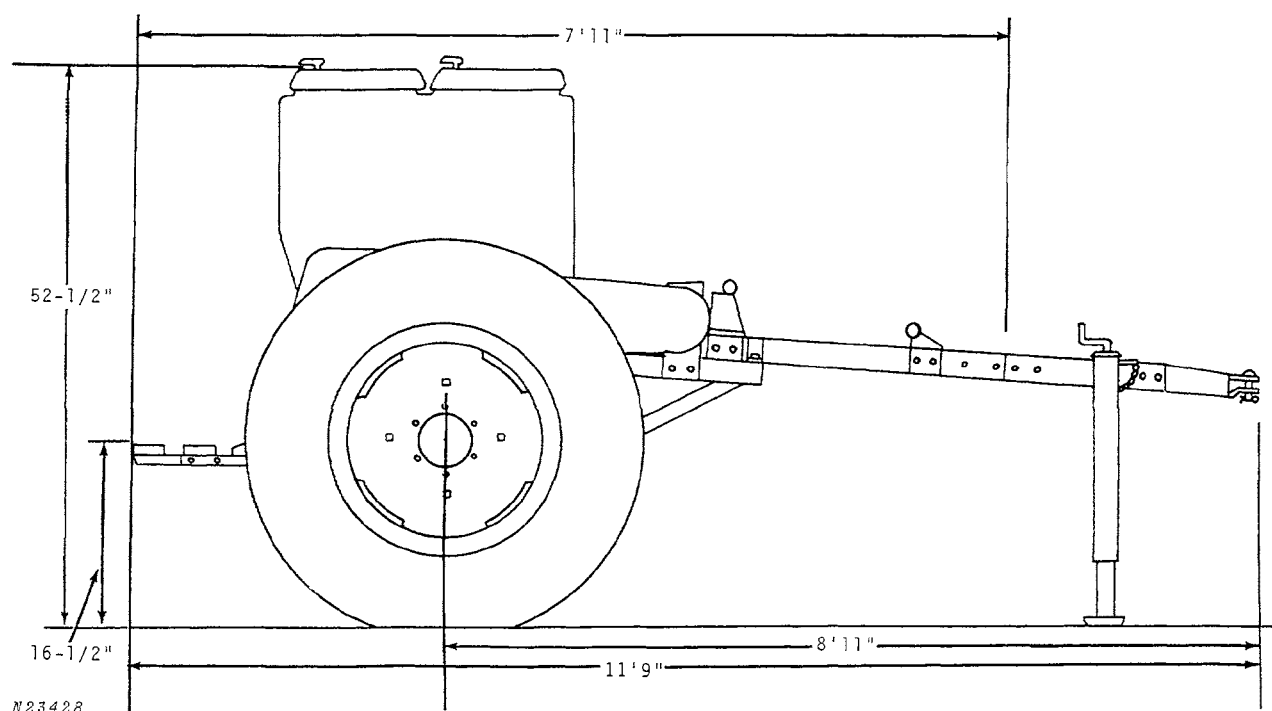
The adjustable box partition on the FB-C and DF-C Drills makes it possible for you to adjust the volume of the grain and fertilizer compartments so that both compartments will empty simultaneously.

The hinged tubular hitch permits a short turning radius. Folding the hitch reduces the over-all drill length to approximately 8 feet for storage or transport. The drills are equipped with a screw-type hitch jack to simplify hitching to the tractor.

Drill settings for both grain and fertilizer are accurately calculated with the rate calculator supplied with the drill.

7.50 x 20 double-ribbed concave tread tires provide adequate flotation when the drill is filled to capacity.

SPECIFICATIONS



DRILL	Number of Furrow Openers	Spacing of Feeds	Drilling Width	Over-All Width	Weight Empty*	Tire Size (20-in. wheels only)	Wheel Revolutions per Acre**
FB246C	24	6"	12'0"	14'8"	2415 lbs.	7.50 x 20	372
FB177C	17	7"	9'11"	12'6"	2093 lbs.	7.50 x 20	450
FB217C	21	7"	12'3"	14'8"	2247 lbs.	7.50 x 20	365
FB168C	16	8"	10'8"	13'0"	2102 lbs.	7.50 x 20	419
FB208C	20	8"	13'4"	15'8"	2361 lbs.	7.50 x 20	335
DF208C	20	8"	13'4"	15'8"	2390 lbs.	7.50 x 20	335
DF1610C	16	10"	13'4"	15'8"	2324 lbs.	7.50 x 20	335
B246C	24	6"	12'0"	14'8"	2103 lbs.	7.50 x 20	372
B177C	17	7"	9'11"	12'6"	1810 lbs.	7.50 x 20	450
B217C	21	7"	12'3"	14'8"	1974 lbs.	7.50 x 20	365
B168C	16	8"	10'8"	13'0"	1894 lbs.	7.50 x 20	419
B208C	20	8"	13'4"	15'8"	2101 lbs.	7.50 x 20	335
D208C	20	8"	13'4"	15'8"	2130 lbs.	7.50 x 20	335
D1610C	16	10"	13'4"	15'8"	2116 lbs.	7.50 x 20	335

*The approximate weight given is for a drill equipped with remote hydraulic cylinder, tractor hitch, footboards, cover chains and single-disk furrow openers.

**The wheel revolutions per acre shown above are for pneumatic tires inflated as recommended on page 9.

DRILL	Grain Box Capacity (60 lbs. per bu.)									Fertilizer Box Capacity (65 lbs. per cu. ft. of fertilizer)			
	Minimum			Maximum			Maximum Partition to rear			Minimum		Maximum	
	Cu. Ft.	Lbs.	Bu.	Cu. Ft.	Lbs.	Bu.	Cu. Ft.	Lbs.	Bu.	Cu. Ft.	Lbs.	Cu. Ft.	Lbs.
FB246C	19.9	954	15.9	29.7	1428	23.8	43.5	2088	34.8	17.6	1144	27.5	1787
FB177C	16.4	786	13.1	24.5	1176	19.6	35.9	1728	28.8	14.6	949	22.7	1475
FB217C	19.9	954	15.9	29.7	1428	23.8	43.5	2088	34.8	17.6	1144	27.5	1787
FB168C	17.2	828	13.8	25.7	1236	20.6	37.7	1812	30.2	15.3	994	23.8	1547
FB208C	21.5	1032	17.2	32.1	1542	25.7	47.0	2256	37.6	19.1	1241	29.7	1930
DF208C	21.5	1032	17.2	32.1	1542	25.7	47.0	2256	37.6	19.1	1241	29.7	1930
DF1610C	21.5	1032	17.2	32.1	1542	25.7	47.0	2256	37.6	19.1	1241	29.7	1930
B246C	19.9	954	15.9	43.5	2088	34.8	----	----	----	----	----	----	----
B177C	16.4	786	13.1	35.9	1728	28.8	----	----	----	----	----	----	----
B217C	19.9	954	15.9	43.5	2088	34.8	----	----	----	----	----	----	----
B168C	17.2	828	13.8	37.7	1812	30.2	----	----	----	----	----	----	----
B208C	21.5	1032	17.2	47.0	2256	37.6	----	----	----	----	----	----	----
D208C	21.5	1032	17.2	47.0	2256	37.6	----	----	----	----	----	----	----
D1610C	21.5	1032	17.2	47.0	2256	37.6	----	----	----	----	----	----	----

DRILL	Grass Seed Capacity (60 lbs. per bu.)			Brome Seed Capacity	
	Cu. Ft.	Lbs.	Qts.	Cu. Ft.	Bu.
FB246C	1.8	85	46	2.8	2.2
FB177C	1.4	69	36	2.3	1.8
FB217C	1.8	85	46	2.8	2.2
FB168C	1.5	74	38	---	---
FB208C	1.9	91	48	---	---
DF208C	1.9	91	48	---	---
DF1610C	1.9	91	48	---	---

DRILL	Grass Seed Capacity (60 lbs. per bu.)			Brome Seed Capacity	
	Cu. Ft.	Lbs.	Qts.	Cu. Ft.	Bu.
B246C	1.8	85	46	2.8	2.2
B177C	1.4	69	36	2.3	1.8
B217C	1.8	85	46	2.8	2.2
B168C	1.5	74	38	---	---
B208C	1.9	91	48	---	---
D208C	1.9	91	48	---	---
D1610C	1.9	91	48	---	---

(Specifications and design subject to change without notice.)

OPERATION — GENERAL

The "Operation - General" section of this manual contains operating information common to B-C, D-C, FB-C and DF-C Drills. Operating information common only to the FB-C and DF-C Drills begins on page 24. Turn to page 27 for information pertaining only to the B-C and FB-C Drills and page 32 for information pertaining only to the D-C and DF-C Drills.

Proper maintenance procedure before using your drill will assure trouble-free field performance and accurate drilling of grain, fertilizer and grass seed.

IMPORTANT: Turn the grain, fertilizer and grass seed feed shafts with an adjustable wrench to loosen parts that may bind due to rust and dirt. Be sure all drives are disengaged. Do this before moving the drill.

Check tire inflation and lubricate the drill.

Inspect and clean all tubes to be sure they are clean and free of obstructions. Replace worn or damaged tubes.

Care in selecting a fertilizer which will flow freely under most weather conditions will avoid trouble in the field. Keep fertilizer dry and break up lumps when filling the box. Fill the fertilizer box in the field. Transporting the drill with the box full causes the fertilizer to pack resulting in improper feeding and possible damage to the gear box drive.

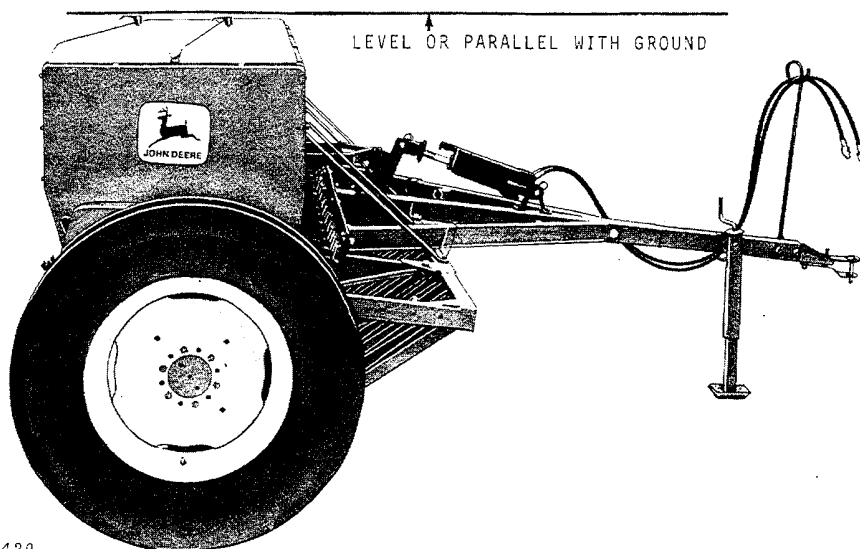
Seed and fertilizer combinations being drilled may require the use of only one or two of the three boxes (grain, fertilizer, grass seed). To eliminate unnecessary wear, disengage the feed shaft drive of those boxes not being used.

OPERATING CHECK LIST

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1. Turn grain feed shaft to loosen . . .	27-33
2. Turn fertilizer feed shaft to loosen.	24
3. Turn grass seed feed shaft to loosen	14
4. Check tire inflation	9
5. Lubricate the drill	40-42
6. Check furrow openers for depth and spring pressure	11-13
7. Inspect all tubes	6
8. Read safety suggestions	20
9. Read transporting instructions. . . .	20
10. Hitch drill properly	7
11. Disengage unused drives.	14-26
12. Set grain feeds	30-35
13. Set fertilizer feeds	30-35
14. Set grass seed feeds	14
15. Adjust box partition	24
16. Fill boxes in the field.	6
17. Check quantity being drilled	18-19

IMPORTANT: Clean fertilizer compartment after use. 26

HITCHING DRILL



IMPORTANT: Hitch the drill properly. The proper hitch height is determined by standing at one end of the drill after it is hitched to the tractor and observing that the drill box is parallel with the ground.



CAUTION: To avoid backward tipover, hitch drill to tractor drawbar before filling grain and fertilizer boxes.

Upon unhitching drill from tractor with grain or fertilizer in boxes, hold and handle hitch as firmly and as close to ground as possible.

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