

32B PULL-TYPE SPRAYER



JOHN DEERE

OPERATORS MANUAL 32B PULL-TYPE SPRAYER

OMB25336 F6 English

OMB25336 F6

LITHO IN THE U.S.A.
ENGLISH



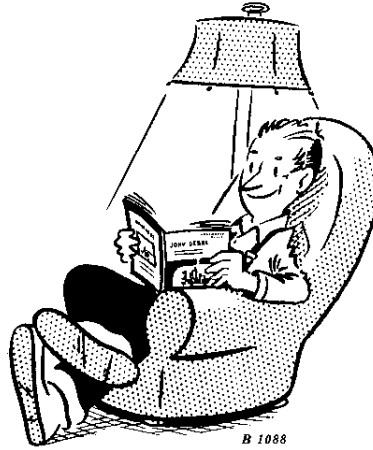
TO THE PURCHASER

Your new John Deere Sprayer is efficient and dependable. It will give long and efficient service if given proper care and operation.

This operator's manual contains information on the proper operation, adjustment, and maintenance of your new sprayer.

When in need of parts, see your John Deere dealer. He will furnish genuine John Deere Parts and prompt and efficient service in the field or in the shop.

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



Study this manual carefully. Keep it handy, in a safe place, for future reference.

John Deere 32B Pull-Type Sprayer	
	Date Purchased
Booms	
6-Row	<input type="checkbox"/>
8-Row	<input type="checkbox"/>
8-Row Heavy-Duty	<input type="checkbox"/>
12-Row (40-Ft.)	<input type="checkbox"/>
PTO PUMP	
8-Roller Ni-Resist	<input type="checkbox"/>
6-Roller Ni-Resist	<input type="checkbox"/>
6-Roller Grey Iron	<input type="checkbox"/>
Piston Pump	<input type="checkbox"/>
Centrifugal Pump	<input type="checkbox"/>
WIDE-SPRAY JET	<input type="checkbox"/>
ROW-CROP DROPS	
10 Inches Long	<input type="checkbox"/>
18 Inches Long	<input type="checkbox"/>
30 Inches Long	<input type="checkbox"/>
HAND GUN — Light Duty <input type="checkbox"/> Regular Duty <input type="checkbox"/> Heavy Duty <input type="checkbox"/>	
25-Foot Hose	<input type="checkbox"/>
50-Foot Hose	<input type="checkbox"/>
High Pressure Hose	<input type="checkbox"/>
BOOM EXTENSION NOZZLES	<input type="checkbox"/>
<i>(To be filled in by purchaser)</i>	

TABLE OF CONTENTS

Specifications	2-3
Identification view	3
Operation	4-21
Hitching to tractor	4
Adjusting sprayer wheel tread	4
Filling tank with the PTO pump	5
Transporting—6- or 8-Row Booms only	6-7
Transporting—8-Row (heavy-duty) or 12-Row (40-ft.) Booms only	8
Controls	9
Nozzle adjustment	9
Rates of application	10-15
Nozzle tip chart	10
Calibration chart	12
Pressure versus rate chart	12-15
PTO pump	16
Pump surge chamber attachment	16
Pressure surge dampener	16
Pump capacity	17
Row-crop drops	18
Nozzle check valves	18
Boom extension nozzles	18-19
Wide-spray jet and controls	20-21
Hand gun	22-23
Safety legs	24
Safety suggestions	24
Cleaning sprayer	25
Lubrication	25
Service	27-41
Trouble shooting	42
Assembly	43-53



SPECIFICATIONS

TYPE

The 32B Sprayer is a two wheel, pull-type sprayer.

TANK

200-gallon, translucent fiber glass.

BOOMS

Regular—8-row booms (27-foot 1/2-inch) to cover eight 40-inch rows.

Optional—12-row booms (40-foot 4-1/2-inch) to cover twelve 40-inch rows, 8-row heavy-duty booms (27-foot 1/2-inch) to cover eight 40-inch rows, or 6-row booms (20-foot 4-1/2-inch) to cover six 40-inch rows.

Booms are made of square tubing. Nylon nozzles are clamped to the booms. Rubber boom hoses are connected to the nozzles. The nozzle clamps are adjustable for row widths of 24 to 40 inches. Spacing between nozzles can be adjusted from 12 to 20 inches. Booms are made in three sections with the center section stationary and the outer sections mounted on four-way hinges.

PTO PUMP

Regular—Ni-Resist (nickel-iron alloy) eight-roller pump.

Optional—Ni-Resist (nickel-iron alloy) six-roller pump, grey iron six-roller pump, twin piston pump, or a centrifugal pump.

BOOM CONTROL

The boom control includes a two-position selector valve. Either half of the total boom coverage may be operated independently of the other half.

WIDE-SPRAY JET

A wide-spray jet is available as optional equipment in lieu of the booms. It is used for broadcast spraying grains, pastures, etc.

NOZZLE TIPS

The nozzle bodies, nozzle caps and strainer bodies are made of nylon. The nozzle and line strainer screen are made of stainless steel. The nozzle tips are made of brass or stainless steel.

HAND GUN

A light, regular, or heavy-duty hand gun and controls may be ordered in lieu of the booms and boom controls.

Hand guns may also be used in conjunction with or independently of the boom type or wide-spray jet type sprayers. The hand gun is available with either a 25-foot or a 50-foot hose.

High pressure hoses are available for the hand guns.

The hand gun may be used for spraying crops, animals, fence rows, etc.

ROW-CROP DROPS

Row-crop drops (10, 18, or 30 inches long) are available for the booms. Each row-crop drop has two nozzles which can be turned up to spray the underside of the leaves, or down to spray the ground between the rows.

BOOM EXTENSION NOZZLES

These nozzles are used as boom extensions to expand the over-all width of boom coverage approximately 7 feet on each side of the regular spray pattern.

TRAILER CLEARANCE

30-3/4 inches with 7.60 x 15 tires.
 Distance from nozzle tip to ground when boom is in working position:
 Minimum—12 inches
 Maximum—36 inches

NO. 2 LAY-BY BOOM

Designed for use during the late growing season for controlling weeds with liquid herbicide.

Covering four rows at a time, this boom consists of five runners carrying one nozzle each. The nozzles are mounted so the spray pattern covers the entire area between the rows.

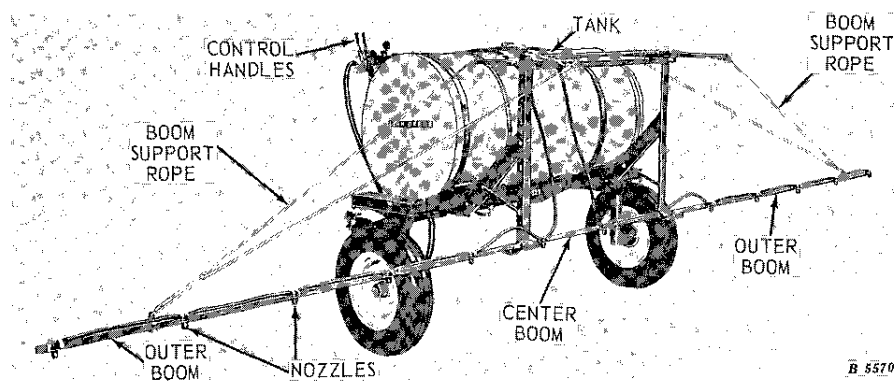
The lay-by boom may be attached to the John Deere 32B Sprayer equipped with the regular boom controls. The tractor pulling the sprayer must be equipped with a remote hydraulic cylinder that conforms to ASAE-SAE standards.

NO. 4 POST EMERGENCE OILING BOOM

Designed to apply post emergence herbicide oils to cotton or similar crops for weed control.

Covering four rows at a time, this attachment can be mounted on John Deere 520, 530, 620, 630, 720, 730, 2010, 2020, 2510, 3010, 3020, 4010 and 4020 Tractors equipped with a front rockshaft. With these tractors the attachment is used in conjunction with the John Deere 32B Sprayer equipped with a boom control.

(Specifications and design subject to change without notice.)

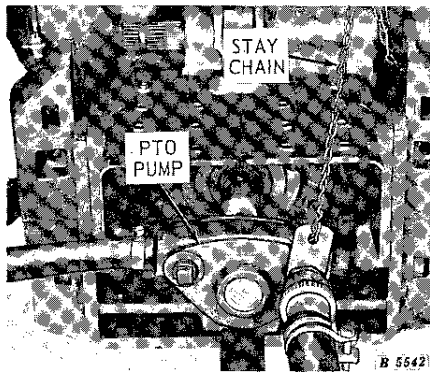


32B Sprayer with Booms in Working Position



OPERATION

HITCHING TO TRACTOR



Adjust the tractor drawbar height to approximately 15 inches and set the drawbar in the short position.

Attach the drawbar clevis to the tractor drawbar.

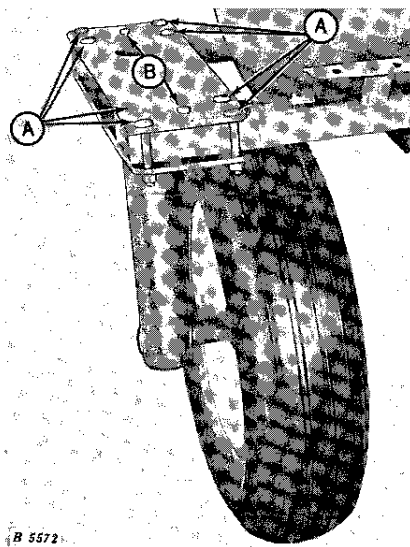
Install the pump on the tractor PTO shaft.

Arrows on the pump ports indicate proper rotation.

Place the key between the splines on the PTO shaft and tighten the set screws against the key to secure pump on shaft.

Attach the stay chain to some fixed point on the tractor and adjust the length so it will hold pump in a horizontal position.

ADJUSTING SPRAYER WHEEL TREAD



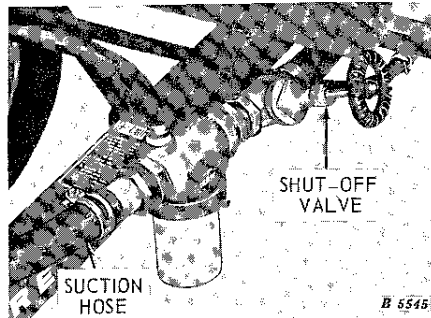
The wheel tread of the sprayer can be set on either 60 or 84 inches to accommodate row spacings of from 24 to 40 inches.

Additional adjustment of either 56 or 80 inches can be made as follows:

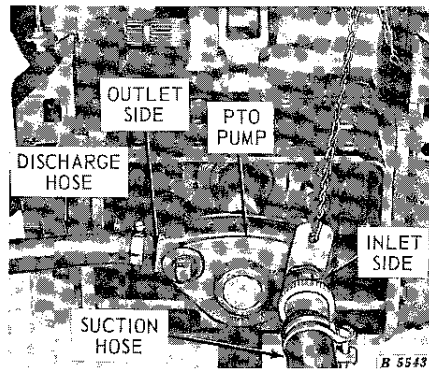
Loosen bolts "A," remove bolts "B," move wheel mounting bracket inward 2 inches, replace bolts "B," tighten bolts "A."

FILLING TANK WITH THE PTO PUMP

The PTO pump can be used to fill the tank.



Turn the shut-off valve clockwise to the "OFF" position.



Disconnect the suction hose from the PTO pump.

Obtain one length of 1-inch I.D. hose not over 50 feet long, with a female hose connection on one end and a strainer on the other end. Connect the female hose connection to the PTO pump where the suction hose was removed. Place the end of the hose with the strainer into the water reservoir or supply.

NOTE: Do not place pump at height of more than 20 feet above source of water.

Disconnect the discharge hose from the PTO pump.

Obtain a 3/4-inch hose of sufficient length to reach from the PTO pump to the tank. The 3/4-inch hose must have a female hose connection on one end. Connect the female hose connection to the PTO pump where the discharge hose was removed. Place the other end of the hose in the tank. Start the PTO pump.

NOTE: The hoses used for filling the tank do not have to be chemical resistant.

CAUTION: The resins in the fiber-glass tank will deteriorate by prolonged exposure to strong alkaline materials such as aqua-ammonia. After strong alkaline materials are used, immediately flush out the tank and remove the lid until all vapors have escaped.

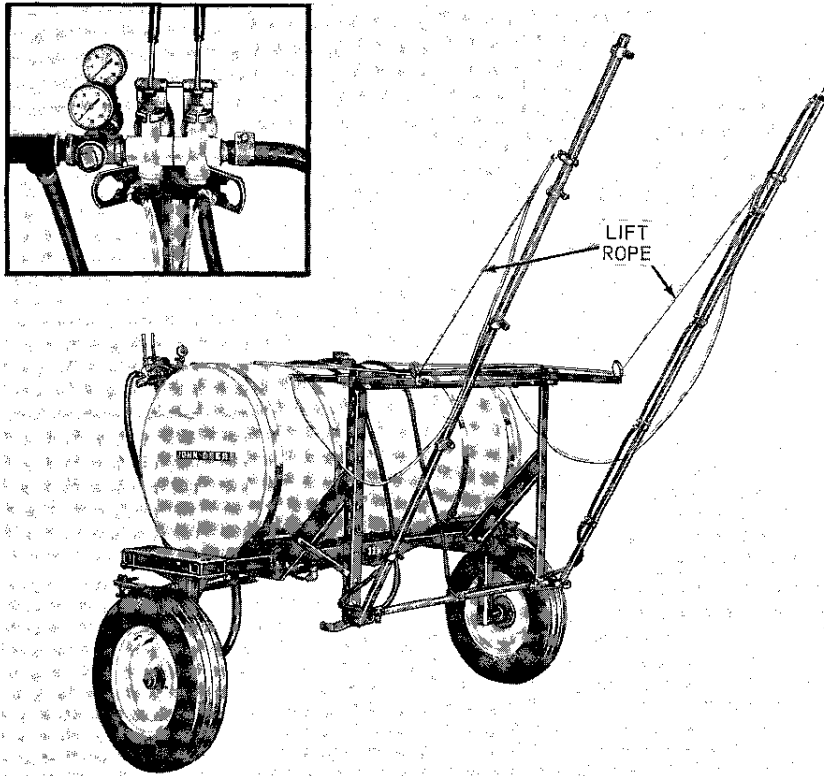
WARNING

To avoid backward tip-over:

- (1) Hitch trailer drawbar to tractor before filling tank.
- (2) When unhitching trailer drawbar from tractor with liquid in tank or the 40-ft. booms in transport position, hold and handle the drawbar as firmly and as close to ground as possible.
- (3) If trailer is equipped with optional safety legs, lower them into proper position before unhitching trailer drawbar from tractor.

6 Operation

TRANSPORTING—6-ROW OR 8-ROW (STANDARD) BOOMS

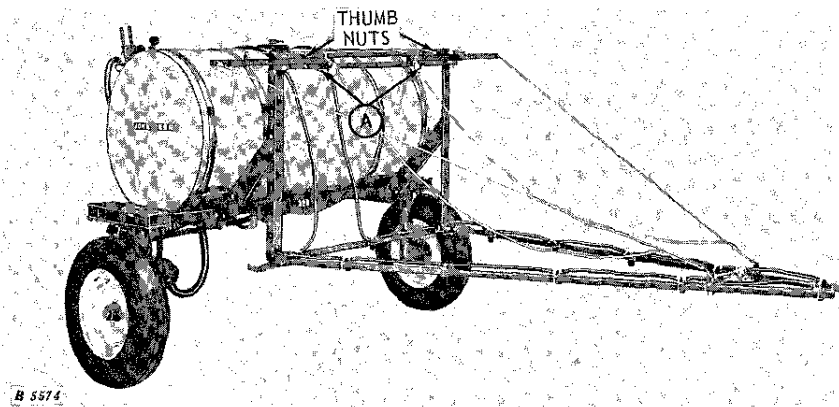


Lift Ropes Holding Booms up in Transport Position

To transport the sprayer short distances pull the booms up with the lift rope. Reposition the inner rope stops on the lift rope, so that when the rope stops are inserted in the notches of the lift rope bracket, the booms will clear the ends of the boom frame.

To reduce transport height, reposition rope stops, swing booms rearward. If sprayer is equipped with eight-row booms, tie booms together with rope provided.

The booms may be swung straight back for transporting. This method of transporting is useful when the sprayer is equipped with row-crop drops.



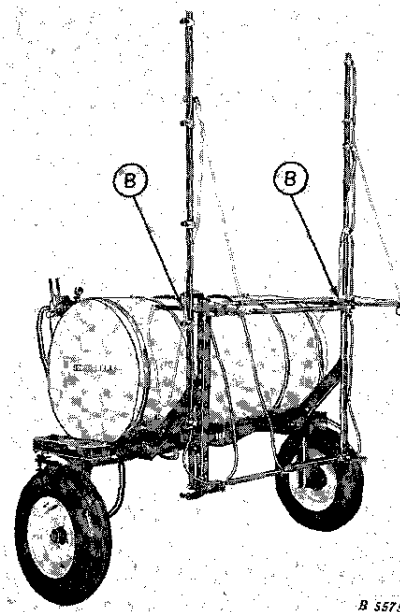
Booms Straight Back in Transport Position

To position the booms straight back, remove the two thumb nuts and pins "A," swing the boom frame end around and install pins "A" as shown. Tie booms together with rope provided.

When transporting the sprayer over rough ground, or for a long distance, secure the booms to the boom frame as follows.

Raise the outer boom sections straight up to the end of the boom frame and place them in the transport brackets. Secure the booms in place with pins "B."

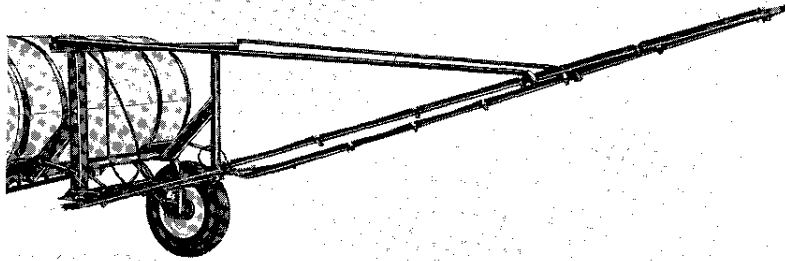
When transporting the sprayer on a road or highway at night or during the day, use accessory lights and devices for adequate warning to the operators of other vehicles. In this regard check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.



Booms Locked up in Transport Position

8 Operation

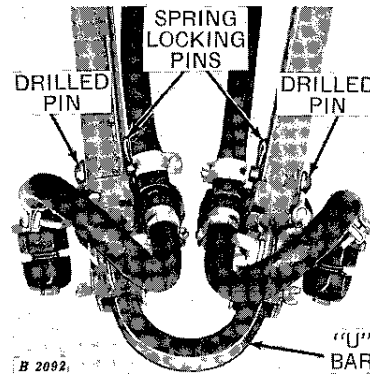
TRANSPORTING—8-ROW (HEAVY-DUTY) OR 12-ROW (40-FT.) BOOMS



B 2091

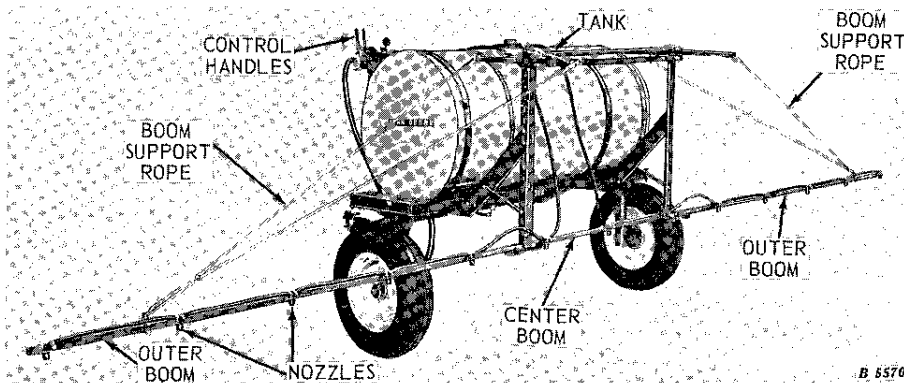
Swing the booms back and place the "U" bar in the ends of the booms. Secure the "U" bar in place with the drilled pins and spring locking pins.

When the boom is in working position secure the "U" bar to the boom frame with the drilled pins and spring locking pins.



B 2092

POSITIONING BOOMS

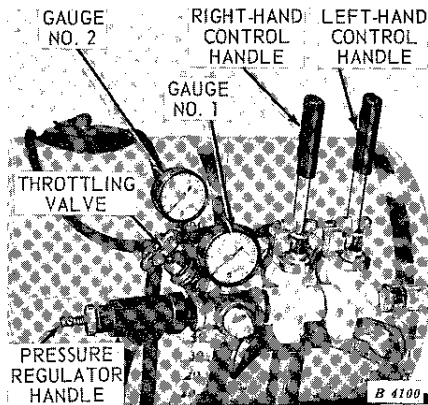


B 6576

Lower the outer booms to the operating height and adjust the rope stops on the boom support ropes so that the booms are level and in line with center boom section.

Adjust the height of the booms so there is approximately 18 inches of clearance between the nozzle tips and the surface to be sprayed.

CONTROLS



The spray delivery to either half of the sprayer is regulated by the control handles.

When both handles are forward and horizontal, both sides of the sprayer are in operation.

When the right-hand handle is forward and horizontal and the left-hand handle vertical, the right-hand side of the sprayer is in operation.

When the left-hand handle is forward and horizontal and the right-hand handle vertical, the left-hand side of the sprayer is in operation.

Placing both handles in a vertical position shuts the sprayer off.

CAUTION: Do not operate the sprayer with these boom controls at pressures in excess of 150 psi.

Gauge No. 1 shows the operating pressure.

Gauge No. 2 shows the agitation pressure.

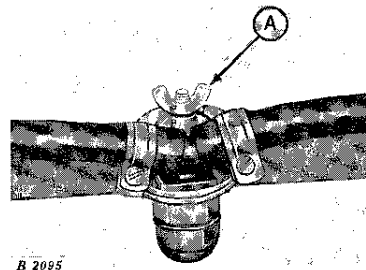
Regulate the operating pressure (gauge No. 1) by turning the pressure regulator handle clockwise to increase operating pressure and counterclockwise to decrease operating pressure.

Regulate the agitation pressure (gauge No. 2) by turning the throttling valve handle counterclockwise to increase the agitation pressure and clockwise to decrease the agitation pressure.

NOTE: The agitation pressure should never be less than 30 psi.

CAUTION: Never regulate the pressure unless the sprayer is in operation. Do not operate the sprayer at pressures so high that the maximum pressure gauge capacity will be exceeded when the flow to the booms is shut off.

ADJUSTING NOZZLE



The nozzles may be adjusted for different row spacings. Loosen nut "A," and slide the nozzle clamp on the boom to the desired spacing and tighten nut "A."

RATES OF APPLICATION

Nozzle Tip Chart for Boom Sprayers								
Approximate Capacity in Gallons Per Acre at 40 psi Pressure and 5 mph								
Gallons Per Acre			Type of Spray Pattern	John Deere Tip Number	Number Stamped on Tip	John Deere Core Number	Number Stamped on Core	Material
1 Nozzle Per 40" Row (A)	2 Nozzles Per 40" Row (B)	3 Nozzles Per 40" Row (C)						
2.3	4.6	6.9	Fan	B11891B#	730077B or FS 2.5	--	--	Brass
2.3	4.6	6.9	Fan	B16022B#	730077SS or FS 2.5	--	--	Stainless Steel
4.5	9.1	13.6	Fan	B11875B#	730154B or FS 4.5	--	--	Brass
4.5	9.1	13.6	Fan	B12286B#	730154SS or FS 4.5	--	--	Stainless Steel
6.8	13.7	20.5	Fan	B12287B*	730231SS or FS 5.5	--	--	Stainless Steel
9.2	18.3	27.5	Fan	B12288B*	730308SS or FS 6.5	--	--	Stainless Steel
13.5	27.0	40.5	Fan	B16023B*	730462SS or FS 8.5	--	--	Stainless Steel
0.5	1.0	1.5	Cone	B12281B#	Y1 or BC 2.0	--	--	Brass
1.0	2.0	3.0	Cone	B12282B#	X2 or BC 3.5	--	--	Brass
1.5	3.0	4.5	Cone	B12283B#	X3 or BC 5.0	--	--	Brass
2.0	4.0	6.0	Cone	B14243B*	X4	--	--	Brass
2.4	4.7	7.1	Cone	B16005B*	D2	B16008B	13	Stainless Steel
2.7	5.3	8.0	Cone	B16006B*	D3	B16008B	13	Stainless Steel
3.0	6.0	9.0	Cone	B14244B*	X6	--	--	Brass
3.1	6.2	9.3	Cone	B16005B*	D2	B16009B	23	Stainless Steel
3.5	7.0	10.5	Cone	B16006B*	D3	B16009B	23	Stainless Steel
3.6	7.1	10.7	Cone	B16007B*	D4	B16008B	13	Stainless Steel
4.8	9.6	14.3	Cone	B16007B*	D4	B16009B	23	Stainless Steel

#Use with 100 mesh strainers (AB12077B).

*Use with 50 mesh strainers (AB12076B).

B11875B is regular equipment.

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com