



JOHN DEERE

# Product Services Information

## INSTALLATION INSTRUCTIONS

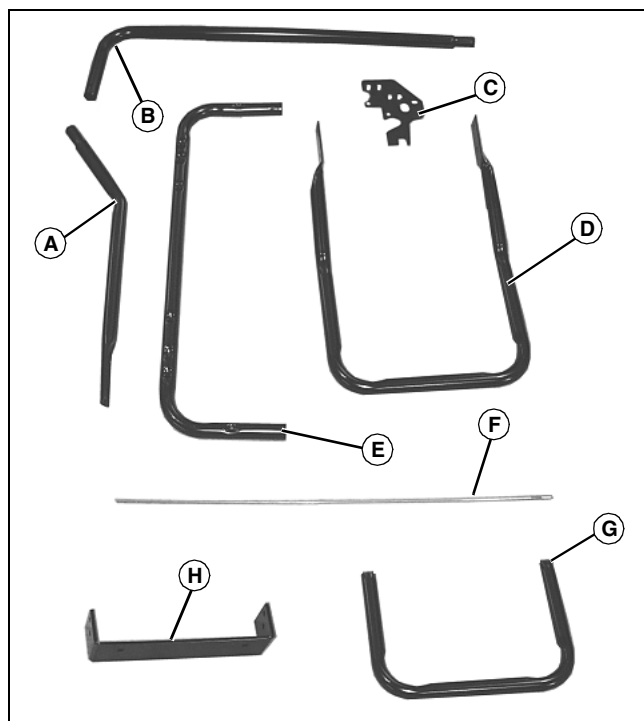
(Includes English, French, German, Spanish and Italian)



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### SUN SHADE KIT

#### Parts in Kit



MX36533

Qty.	Description
2	Tube, Upright (A)
2	Tube, Top (B)
2	Bracket, Side Mount (C)
1	Tube, Base (D)
1	Tube, Front (E)
1	Wire, Support (F)
1	Tube, Base (G) (3-Bag bagger install only)
1	Bracket, Rear Weight (H) (Not used for 2- bag bagger)
1	Sun Shade (Not Shown)

#### Bag of Parts:

Qty.	Description
2	Knob
4	Washer, 5/16 in.
2	Carriage Bolt, 5/16 x 2 in.
2	Bolt, 1/2 x 2 in.
2	Spacer
2	Washer, 17/32 in.
2	Locknut, 1/2 in.
2	Carriage Bolt, 3/8 x 1 in.
6	Bolt, 3/8 x 1-1/4 in.
8	Locknut, 3/8 in.
2	Bolt, 1/4 x 1-3/4 in.
2	Locknut, 1/4 in.
4	Bolt, 5/16 x 2 in.
4	Locknut, 5/16 in.
2	Clevis Pin, 5/8 x 1-7/32 in.
2	Washer, 21/32 in.
2	Spring Locking Pin
2	Fastener, Plastic, 1/4 in.
1	Strap, Bagger Support (For 2-bag bagger)

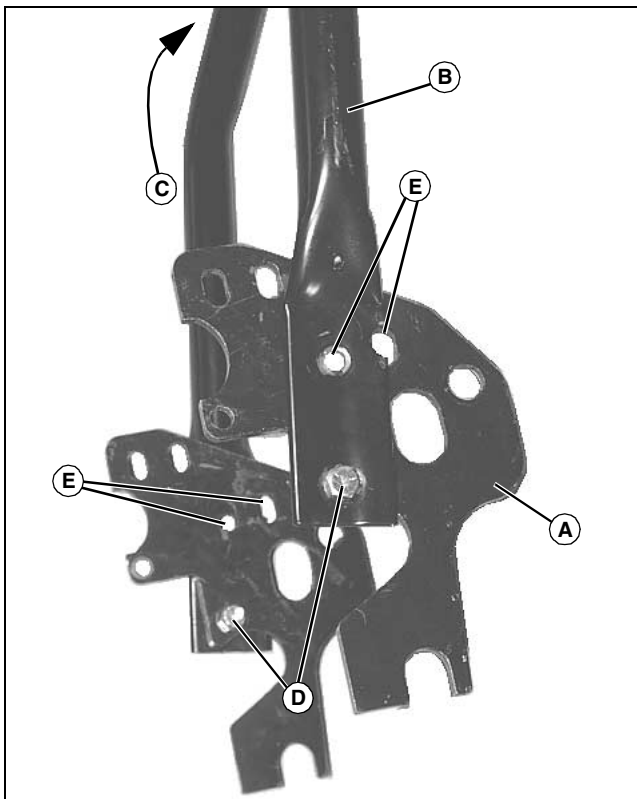
**NOTE: Retain these installation instructions with the machine operator's manual.**

#### Assemble Brackets

##### Sun Shade with no bagger

1. Attach side mount brackets to base tube:

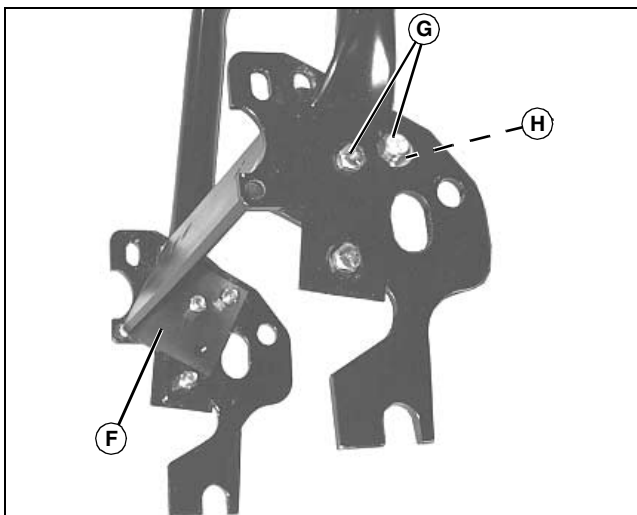
## X300 series machines



MX38297

### Picture Note: X300 series model shown.

- Install each side mount bracket (A) onto the inside of base tube (B), with bend (C) facing toward front of machine. Secure with one 3/8 x 1-1/4 in. bolt (D) and 3/8 in. locknut on each lower side hole, as shown. Tighten until snug, and then turn each side mount bracket until lower two holes (E) in side mount bracket and base tube align.

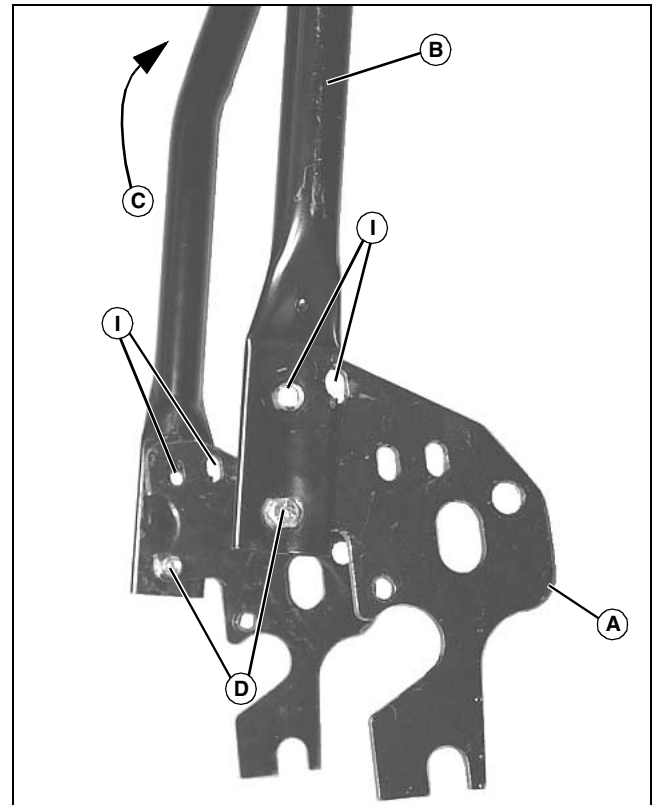


MX36511

- Install rear weight bracket (F) on each side mount bracket and tube arm, as shown. Secure each side with two 3/8 x 1-1/4 in. bolts (G) and 3/8 in. locknuts, with one 5/16 in. washer (H) on each side of bolt in front

hole. Tighten all hardware.

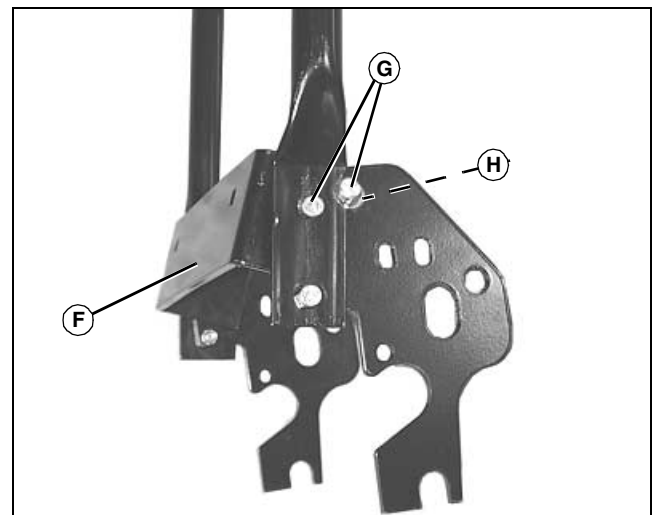
## X500 series machines



MX38298

### Picture Note: X500 series model shown.

- Install each side mount bracket (A) onto the inside of base tube (B), with bend (C) facing toward front of machine. Secure with one 3/8 x 1-1/4 in. bolt (D) and 3/8 in. locknut on each upper side hole, as shown. Tighten until snug, and then turn each side mount bracket until upper holes (I) in side mount bracket and base tube align.



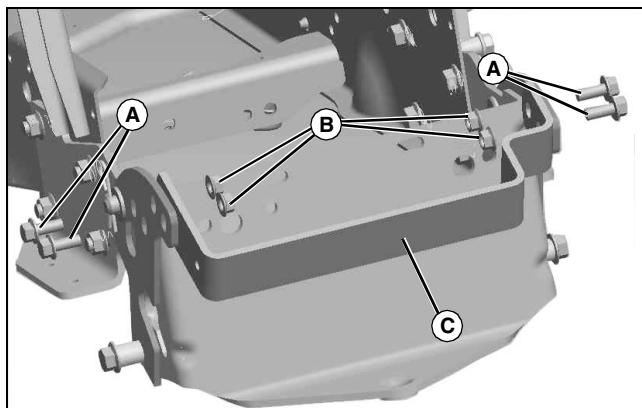
MX36512

- Install rear weight bracket (F) on each side mount bracket and tube arm, as shown. Secure each side with

two 3/8 x 1-1/4 in. bolts (G) and 3/8 in. locknuts, with one 5/16 in. washer (H) on each side of bolt in front hole. Tighten all hardware.

### Sun Shade with 2-bag bagger

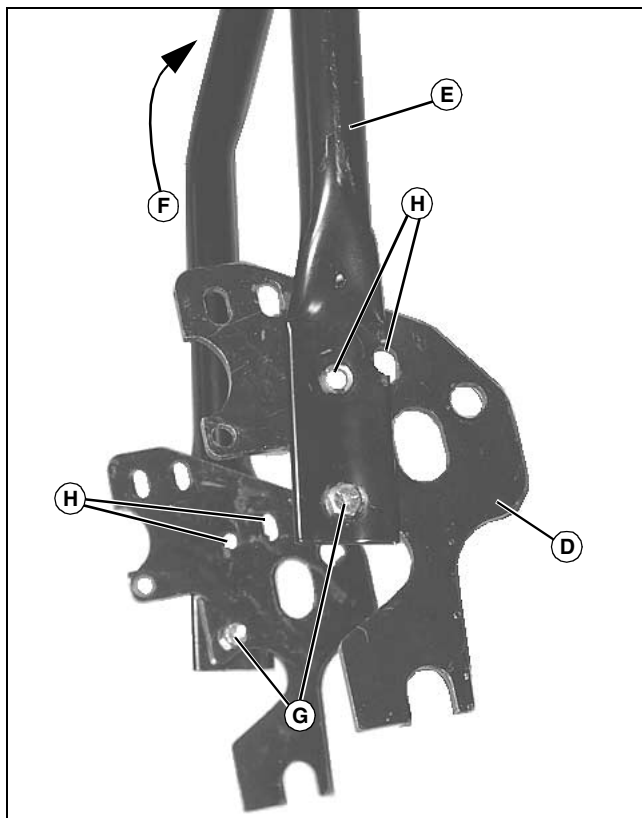
1. Remove 2-bag bagger frame assembly from back of machine. See your bagger operator's manual.



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2. Remove four M10x25 bolts (A) and M10 nuts (B), and remove rear receiver bracket (C).
3. Attach side mount brackets to base tube and rear receiver bracket:

### X300 series machines

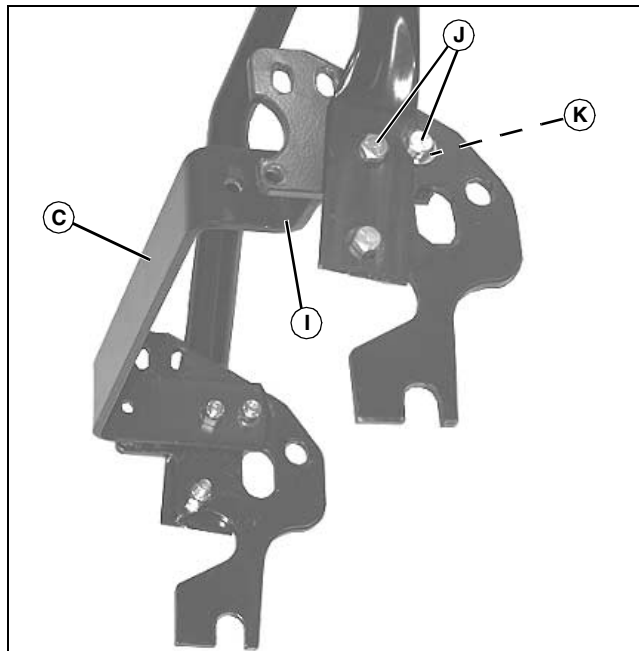


MX38297

**Picture Note: X300 series model shown.**

- Install each side mount bracket (D) onto the inside of

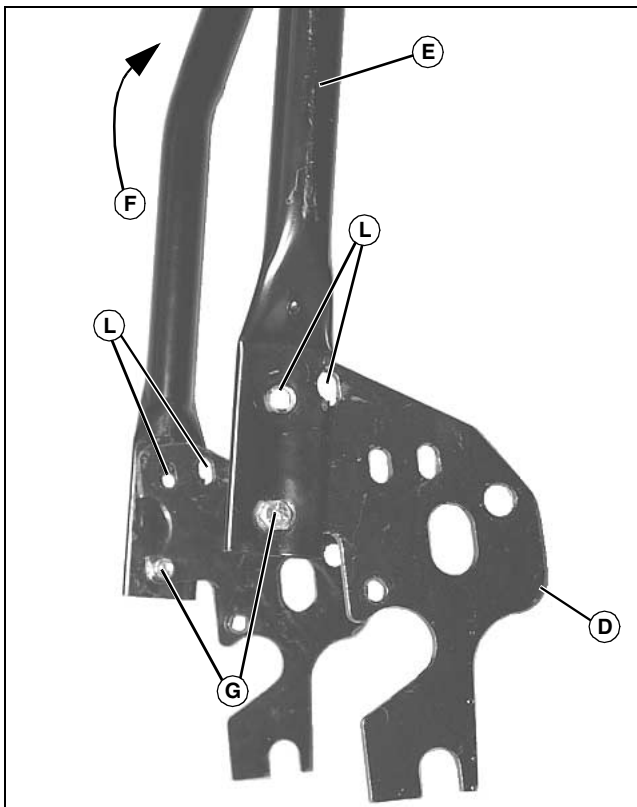
base tube (E), with bend (F) facing toward front of machine. Secure with one 3/8 x 1-1/4 in. bolt (G) and 3/8 in. locknut on each lower side hole, as shown. Tighten until snug, and then turn each side mount bracket until lower two holes (H) in side mount bracket and base tube align.



MX37476

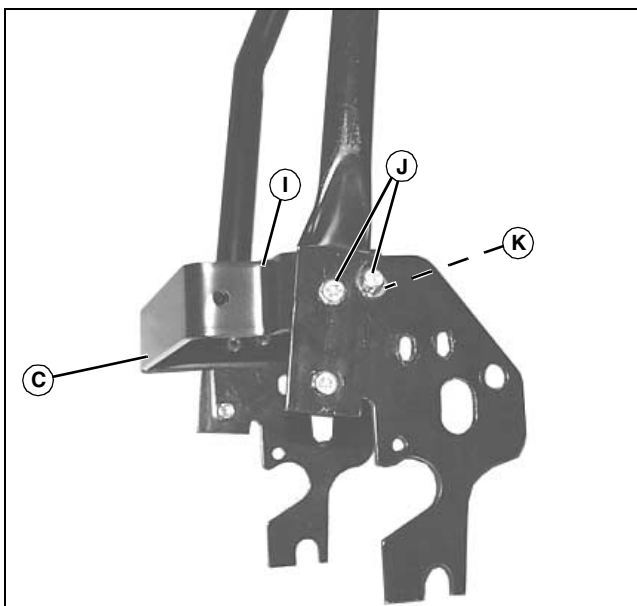
- Install rear receiver bracket (C) (just removed from bagger assembly), with bend (I) on right side as shown, on each side mount bracket and tube arm, as shown. Secure each side with two 3/8 x 1-1/4 in. bolts (J) and 3/8 in. locknuts, with one 5/16 in. washer (K) on each side of bolt in front hole. Tighten all hardware.

## X500 series machines



**Picture Note: X500 series model shown.**

- Install each side mount bracket (D) onto the inside of base tube (E), with bend (F) facing toward front of machine. Secure with one 3/8 x 1-1/4 in. bolt (G) and 3/8 in. locknut on each upper side hole, as shown. Tighten until snug, and then turn each side mount bracket until upper holes (L) in side mount bracket and base tube align.



- Install rear receiver bracket (C) (just removed from

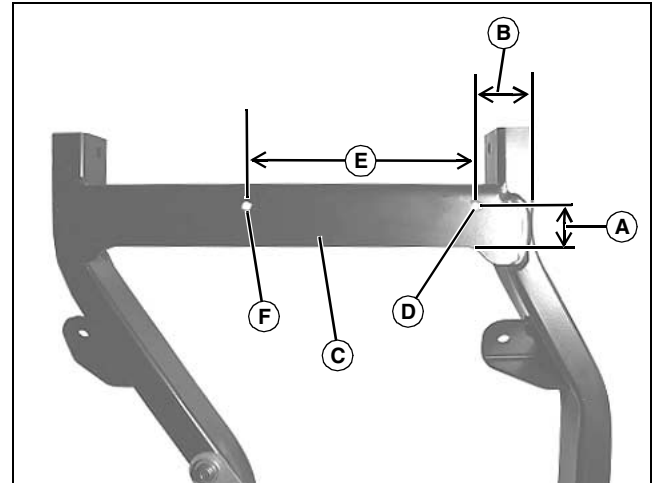
bagger assembly), with bend (I) on right side as shown, on each side mount bracket and tube arm, as shown. Secure each side with two 3/8 x 1-1/4 in. bolts (J) and 3/8 in. locknuts, with one 5/16 in. washer (K) on each side of bolt in front hole. Tighten all hardware.

## Sun Shade with 3-bag bagger

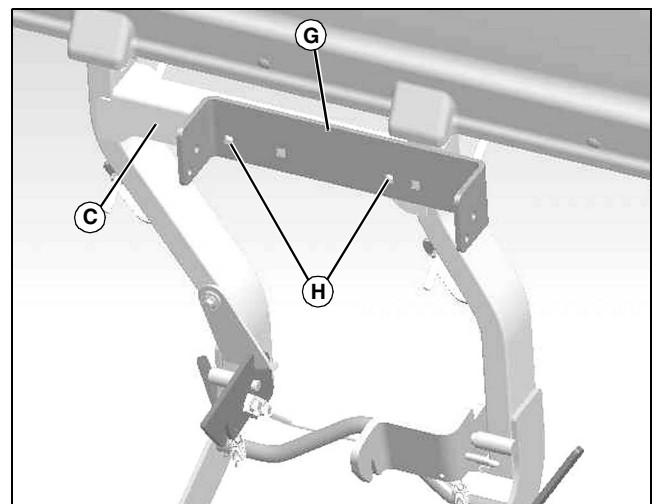
**NOTE: This procedure for X500 series machines only.**

1. Remove 3-bag bagger frame assembly from back of machine. See your bagger operator's manual.

**NOTE: Check to see if two holes are drilled on cross brace angle (C) on 3-bag bagger frame assembly. If they are already drilled, you may skip the next step.**

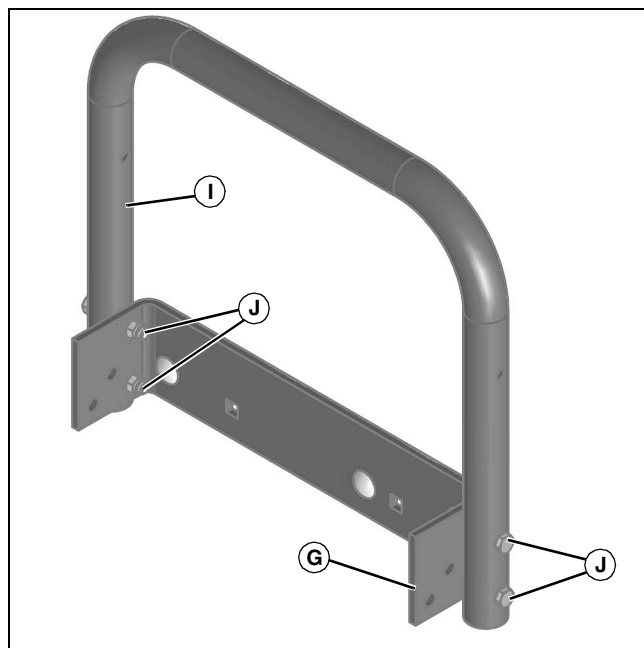


2. Measure 45 mm (1-49/64 in.) (A) up and 45 mm (1-49/64 in.) (B) over on cross brace angle (C) on 3-bag bagger frame assembly, and center punch a mark at location (D). Measure 195 mm (7-11/16 in.) (E) to the left of mark (D), and center punch a second hole (F) to be drilled.



3. Place rear weight bracket (G) up onto frame assembly cross brace angle (C) to check drill hole mark locations, as shown. Adjust drill mark(s) as necessary, and drill a 10 mm (13/32 in.) hole in two marked locations (H).

4. Install rear weight bracket (G) to cross brace angle (C) on 3-bag bagger frame assembly with two 3/8 x 1 in. carriage bolts and 3/8 in. locknuts at both hole locations (H).

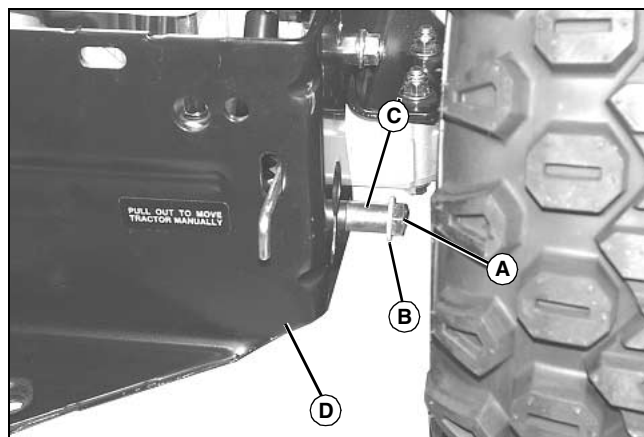


MX37463

5. Install base tube (I) onto rear weight bracket (G) with four 5/16 x 2 in. bolts (J) and 5/16 in. locknuts.

## Install Brackets

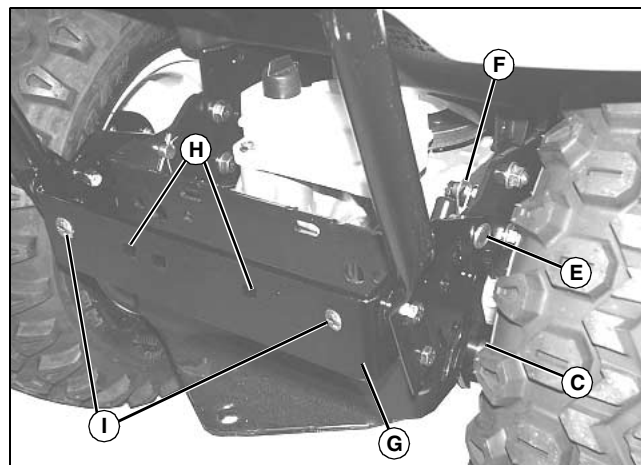
**NOTE:** Installing the spacers are not necessary for machines with a 2-bag or 3-bag bagger installed. These spacers are already installed in those applications.



MX36510

1. Install a 1/2 x 2 in. bolt (A), 17/32 in. washer (B), and spacer (C) through each side lower hole on machine frame (D).
2. Secure on opposite side using 1/2 in. locknut.

**NOTE:** The next mounting procedure is not necessary for machines with a 3-bag bagger installed. For machines with a 3-bag bagger, install bagger frame assembly back onto machine, the same as removal.



MX37452

**Picture Note:** X500 series model installation without a bagger shown.

3. Raise assembly onto spacers (C), and secure each side onto machine frame with 5/8 x 1-7/32 in. pins (E). Secure each side from the inside with 21/32 in. washer, and spring locking pin (F).
4. For installations without a bagger installed, install 3/8 x 1 in. carriage bolt and 3/8 in. locknut on weight bracket (G) (for rear weight installation - see your machine operator's manual for ballast recommendations):

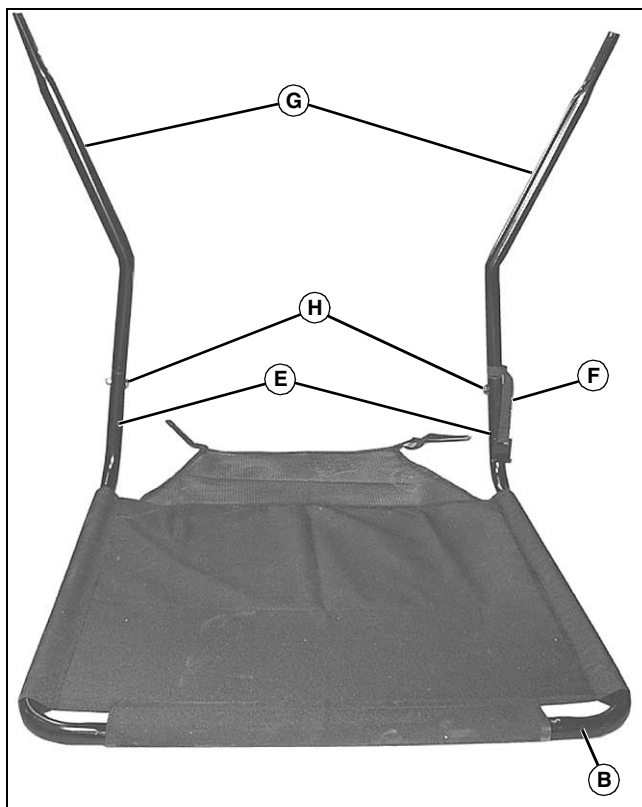
- For X300 series machines, use inside holes (H).
- For X500 series machines, use outside holes (I).

## Assemble Sun Shade



MX37477

1. Install sun shade (A) onto front tube (B) by installing one end (C) first. Move sun shade fabric towards the opposite side (D), just enough to install the opposite end.



MX36514

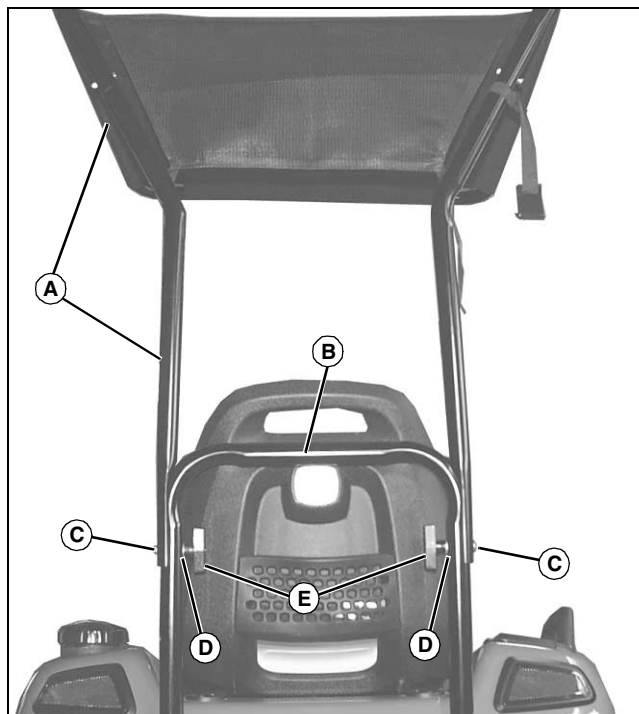
2. Lay sun shade and front tube on bench, with top side down. Install top tubes (E) through sun shade fabric and onto front tube assembly (B).

**NOTE: If a 2-bag bagger is installed, install bagger support strap (F) onto right upright tube (G).**

3. Install both upright tubes (G) onto top tubes (E), with arms facing outward, as shown. Secure each side with a 1/4 x 1-3/4 in. bolt and 1/4 in. locknut (H).

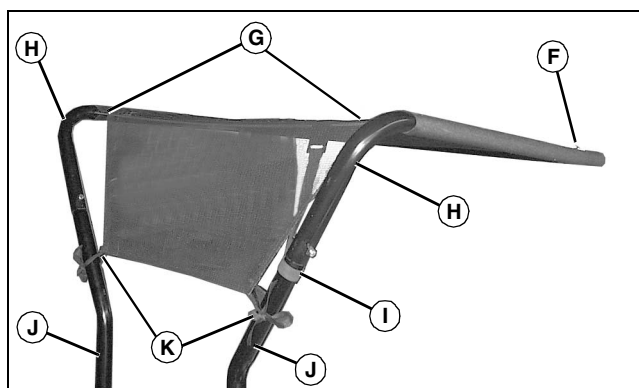
## Install Sun Shade

**NOTE: It will be easier if you have an assistant hold the front part of the sun shade assembly when raising onto machine.**



MX36515

1. Install assembled sun shade (A) onto base tube (B), and secure with 5/16 x 2 in. carriage bolt (C), 5/16 in. washer (D), and knob (E).



MX37459

2. Use a pin punch or similar tool to create hole (F) (on both sides) in sun shade fabric and through pre-drilled hole in front tube and top tubes. Install 1/4 in. plastic fastener to secure tubes together.

3. Install sun shade support wire (G) into holes in top tubes (H).

4. If a 2-bag bagger is installed, secure bracket end of bagger support strap (I) onto support wire (G).

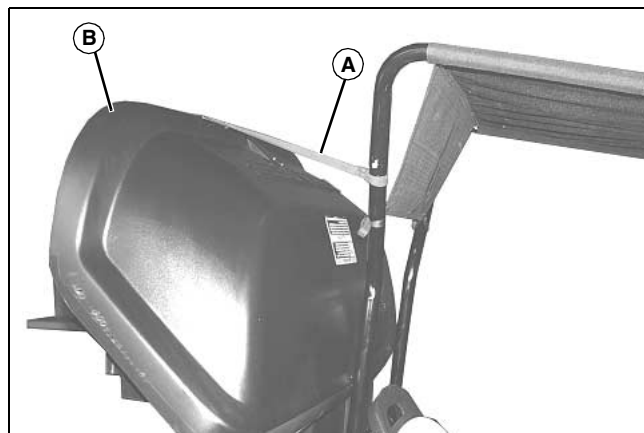
5. Fold rear of sun shade over support wire, and secure to upright tubes (J) with ties (K).

6. If a 2-bag bagger is to be installed, install bagger frame

assembly back onto machine, same as removal.

7. If a bagger is installed, install remaining bagger components, as necessary.

## Use and Maintenance Instructions



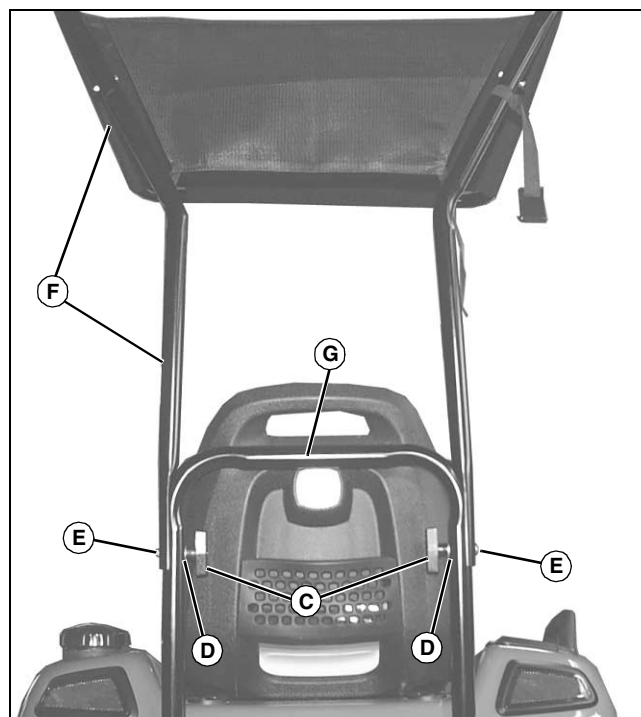
MX37478

1. If a 2-bag bagger is installed, remove bagger support strap (A) bracket end from support wire, and use to secure bagger hopper lid (B) in the raise position, as needed. When not in use, secure bracket end of support strap back onto support wire.

2. Sun shade vinyl should be washed only with a mild solution of warm soapy water.

**IMPORTANT: Avoid damage! Sun shade kit is for low speed applications. Do not transport the sun shade, mounted on the tractor, at high speeds. The sun shade and framework must be removed from tractor before transporting on the highway.**

**NOTE: It will be easier if you have an assistant hold the front part of the sun shade assembly when removing from machine.**



MX36515

3. To remove sun shade assembly, remove two knobs (C), washers (D), and carriage bolts (E). Remove entire assembled sun shade (F) from base tube (G).