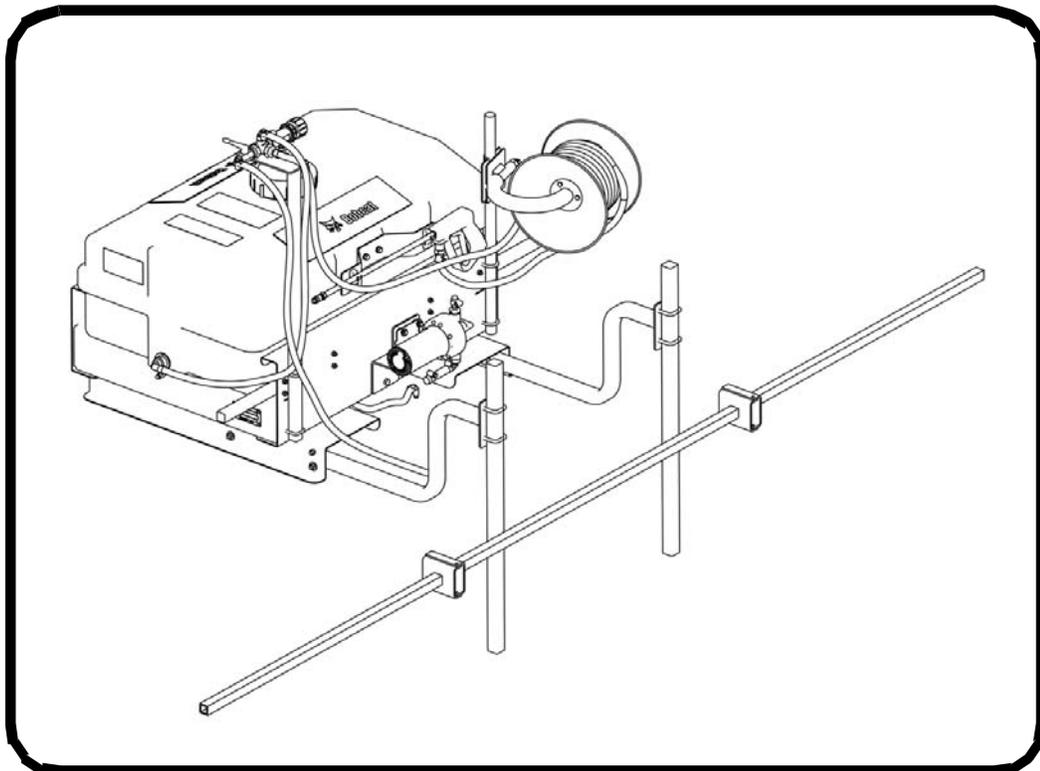




Service Manual

Sprayer

(Sprayer 40) S/N A7W300101 & Above
(Sprayer 50) S/N 005900101 & Above
(Sprayer 75) S/N 005400101 & Above
(Sprayer 80) S/N A7F200101 & Above



Product: 2011 Bobcat Sprayer 40 Gal/50 Gal/75 Gal/80 Gal Service Repair Workshop Manual(40 Gal S/N A7W300101 & Above)
Full Download: <https://www.arepairmanual.com/downloads/2011-bobcat-sprayer-40-gal-50-gal-75-gal-80-gal-service-repair-workshop-manual40-gal-s-n-a7w300101-above50-gal-s-n-005900101-above75-gal-s-n-005400101-above80-gal-s-n-a7f200101-above/>

Sample of manual. Download All 186 pages at:
<https://www.arepairmanual.com/downloads/2011-bobcat-sprayer-40-gal-50-gal-75-gal-80-gal-service-repair-workshop-manual40-gal-s-n-a7w300101-above50-gal-s-n-005900101-above75-gal-s-n-005400101-above80-gal-s-n-a7f200101-above/>

MAINTENANCE SAFETY



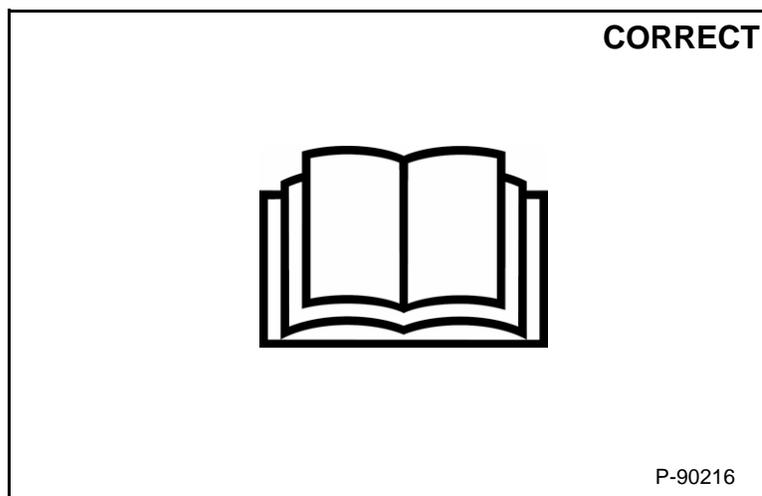
WARNING

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0807



Safety Alert Symbol: This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



-  Never service attachments / implements without instructions. See Operation & Maintenance Manual and Attachment / Implement Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment / implement with the engine running unless instructed to do so in manual.
-  Always lower the attachment / implement to the ground before lubricating or servicing.
-  Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.
-  Stop, cool and clean engine of flammable materials before checking fluids.
-  Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.
-  Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.



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SERIAL NUMBER LOCATION

Figure 1

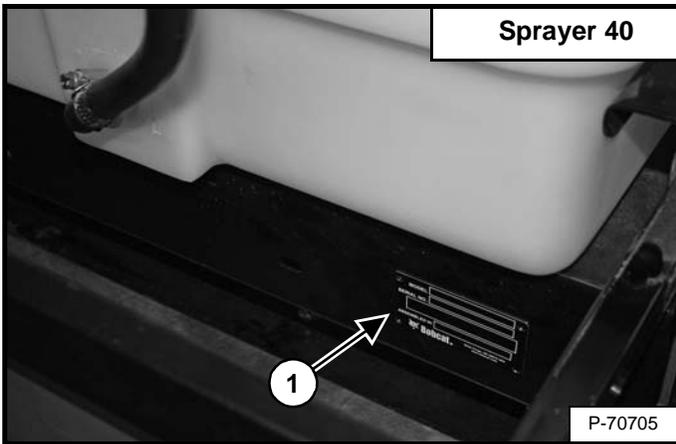


Figure 2

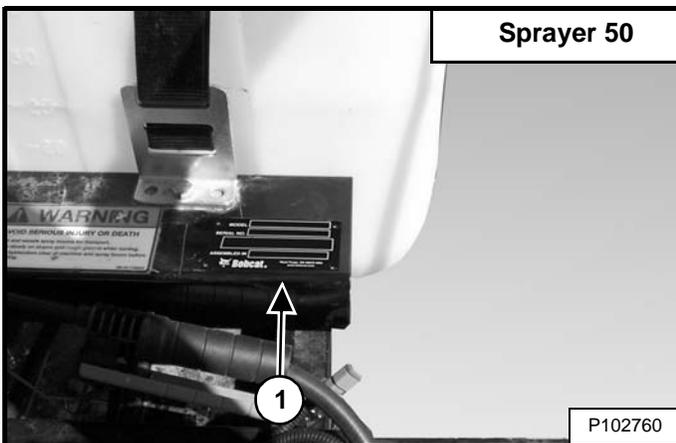


Figure 3

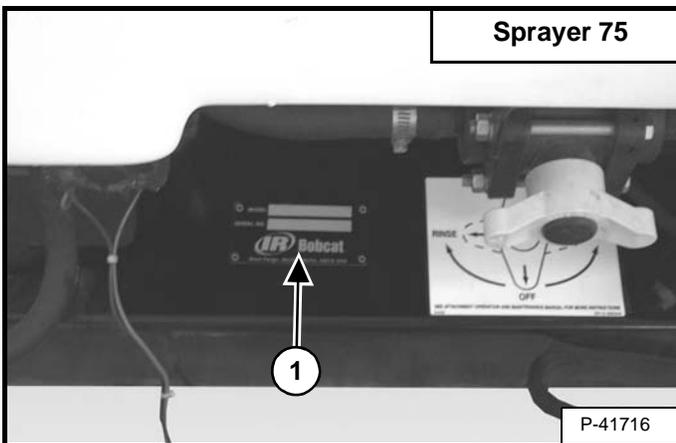
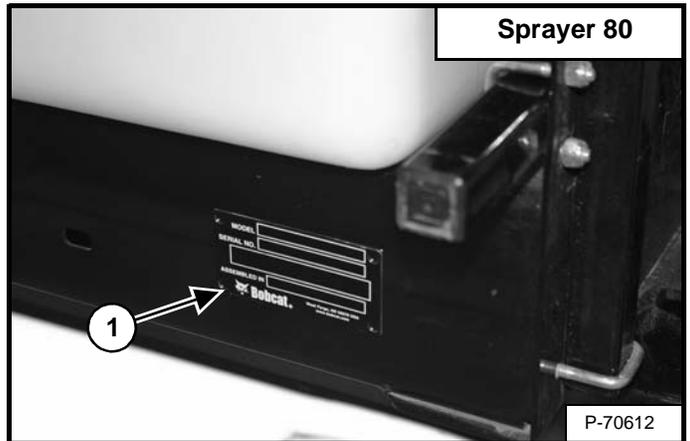


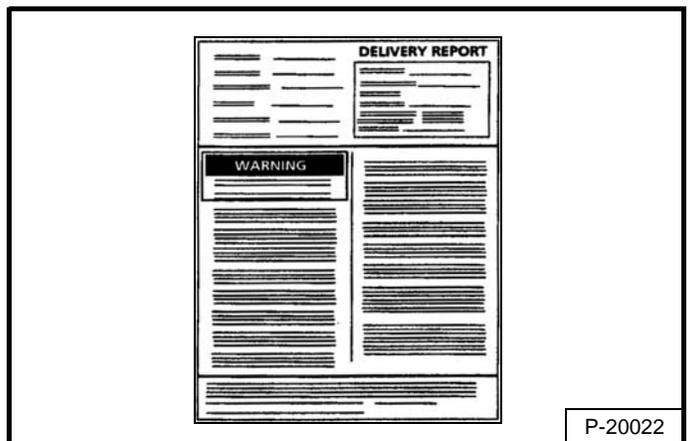
Figure 4



Always use the serial number (Item 1) [Figure 1], [Figure 2], [Figure 3] and [Figure 4] of the sprayer when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

DELIVERY REPORT

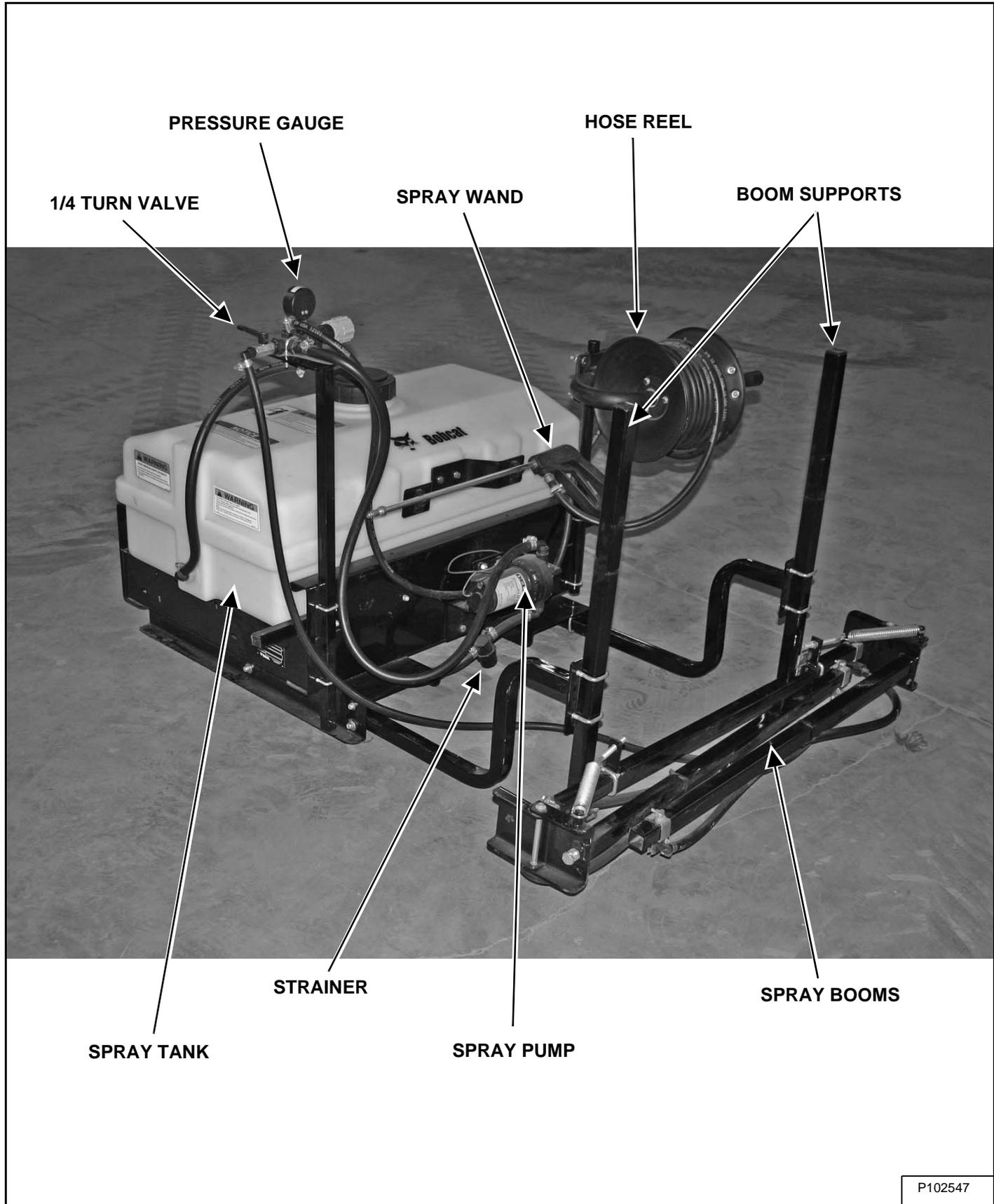
Figure 5



The delivery report [Figure 5] must be completed by the dealer and signed by the owner or operator when the sprayer is delivered. An explanation of the form must be given to the owner.

ATTACHMENT IDENTIFICATION

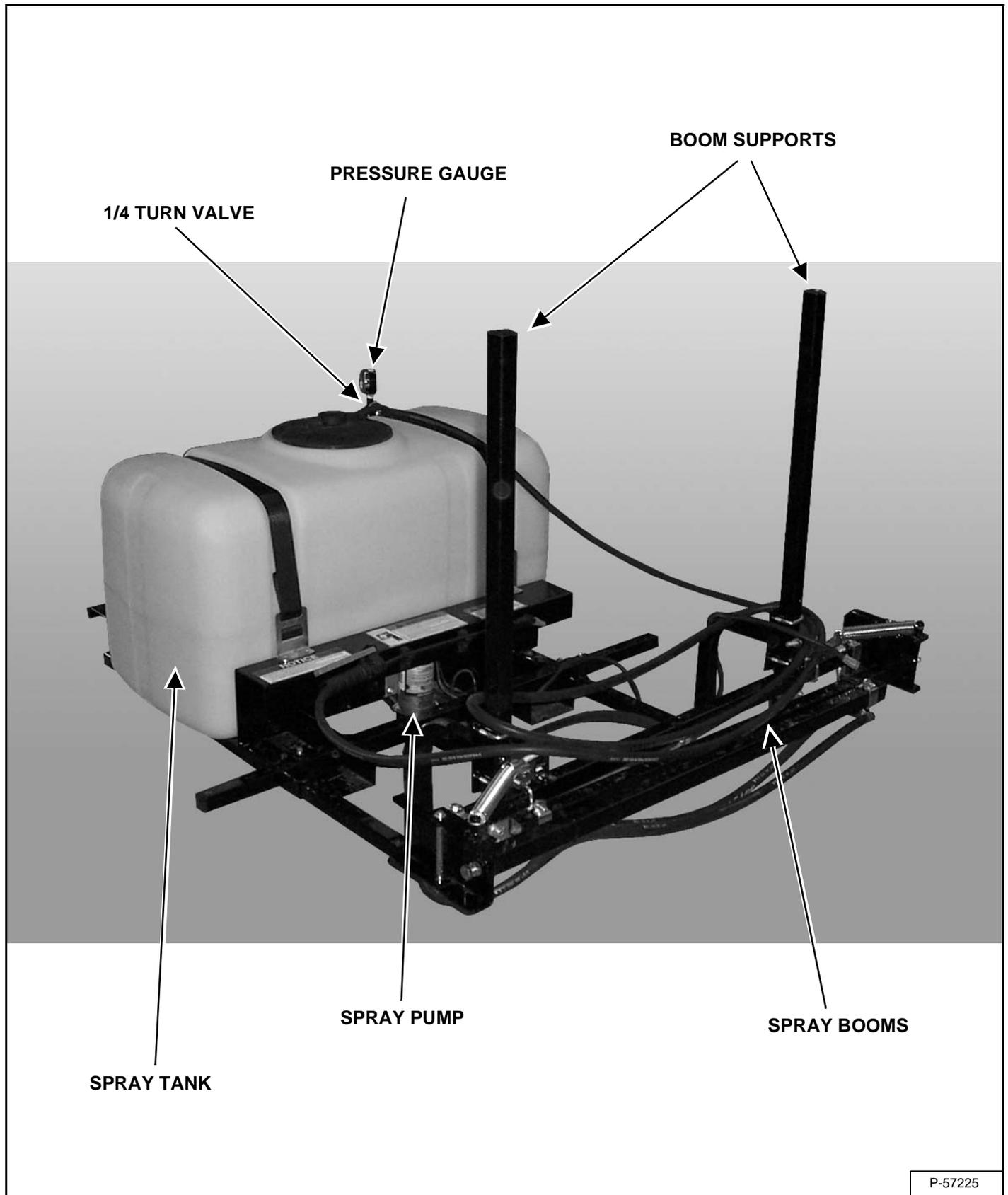
Sprayer 40



P102547

ATTACHMENT IDENTIFICATION (CONT'D)

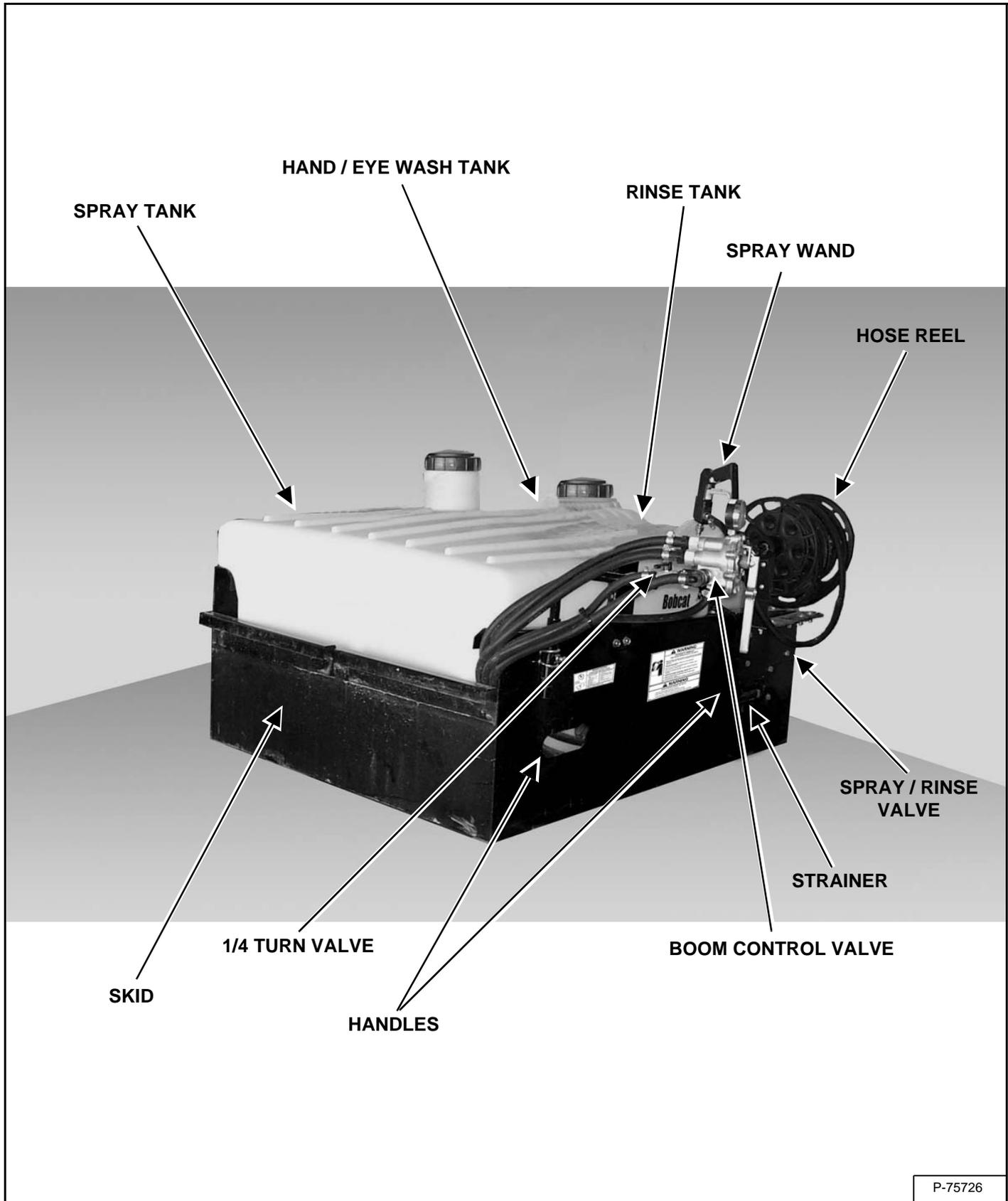
Sprayer 50



P-57225

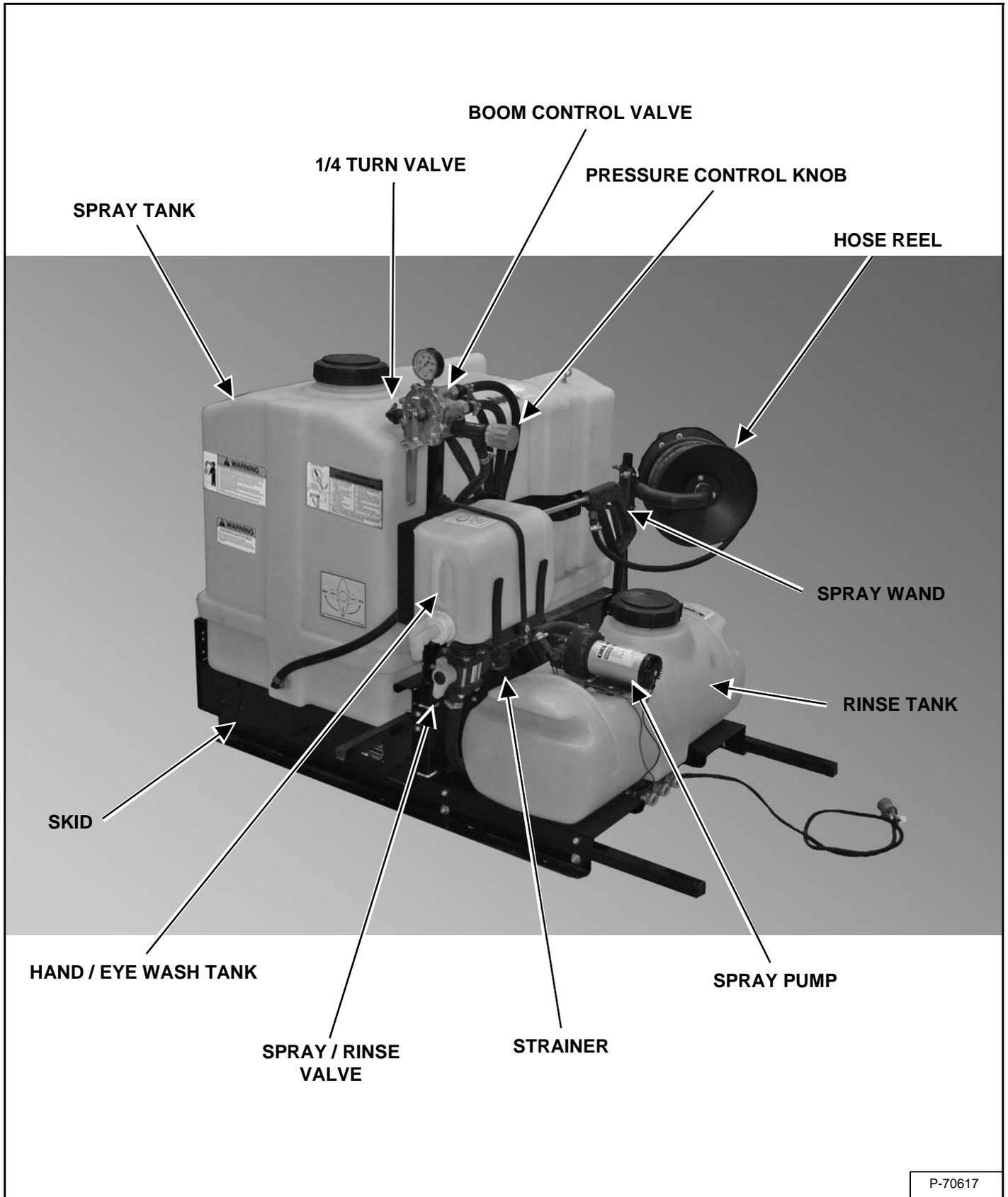
ATTACHMENT IDENTIFICATION (CONT'D)

Sprayer 75



ATTACHMENT IDENTIFICATION (CONT'D)

Sprayer 80



P-70617



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SAFETY & MAINTENANCE

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SAFETY INSTRUCTIONS

Use Safety Rules

- Read and follow instructions in the machine and the attachment's Operation & Maintenance Manual before operating.
- In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of equipment.
- Check that the Bob-Tach levers are in the locked position and the wedges are fully engaged into the holes of the attachment (if applicable).
- Check that the attachment is securely fastened to the machine.
- Make sure all the machine controls are in the NEUTRAL position before starting the machine.
- Operate the attachment only from the operator's position.
- When learning to operate the attachment, do it at a slow rate in an area clear of bystanders.
- DO NOT permit personnel to be in the work area when operating the machine and attachment.
- The attachment must be used ONLY on approved machines. See your Bobcat dealer for updated list of approved attachments for each machine model.
- DO NOT modify equipment or add attachments that are not approved by the manufacturer.
- DO NOT make any adjustments or repairs on the machine or attachment while the engine is running.

Rules For Safe Use Of Chemicals

- Always read the label before using chemicals. Follow instructions from chemical manufacturer on how to select, use and handle each chemical. Note protection information each time before opening the container.
- Verbal warnings must be given if written warnings cannot be understood by workers.
- Do not spill chemicals on skin or clothing. If chemicals are spilled, remove contaminated clothing immediately and wash skin (and clothing) thoroughly with soap and water. Wash hands and face with soap and water and change clothing after spraying. Wash clothing each day before reuse.
- The spray tank and system should be emptied of chemical mixture and flushed with clean water before servicing the spray system or spray components. Clean machine of all chemical residue before servicing.
- Avoid inhaling chemicals. When directed on the label, wear protective clothing, face shield or goggles.
- Never smoke while spraying or handling chemicals.
- Cover food and water containers when spraying around livestock or pet areas.
- If symptoms of illness occurs during or shortly after spraying, call a physician or go to a hospital immediately.
- Follow label directions and advise to keep residues on edible portions of plants within the limits permitted by law.
- Keep chemicals out of the reach of children, pets and unauthorized personnel. Store them outside of the home, away from food and feed and lock them in a secure area.
- Keep bystanders away from spray drift.
- Always store chemicals in original containers and keep them tightly closed. Never keep them in anything but the original container. Read labels for hazards about chemical reaction with certain types of metals.
- Always dispose of empty containers according to manufacturer's directions.

SI SPRAYER-0208



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TROUBLESHOOTING

Chart

 WARNING	<p>Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.</p>
--	--

W-2003-0903

Use the following troubleshooting chart to locate and correct problems which most often occur with the sprayer.

PROBLEM	CAUSE	CORRECTION
Low Pressure	Plugged filter	Clean Filter
Pump Cycling On / Off Rapidly	Plugged Filter	Clean Filter
	Tank Empty	Fill Tank
	Selector Valve In Off Position	Turn To Spray
Pump Does Not Start	Blown Fuse	Replace Fuse
	Harness Not Plugged In	Plug Harness In
Spray Wand Does Not Work	1/4 Turn Valve Not On	Turn Valve On
	Plugged Filter	Clean Filter
Chemical Is Spraying Unevenly Or Not At all From Tips	Plugged Spray Tip	Clean Tip



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INSPECTION

Hoses

WARNING

The spray tank and system must be emptied of chemical mixture and flushed with clean water before servicing the spray system or spraying components.

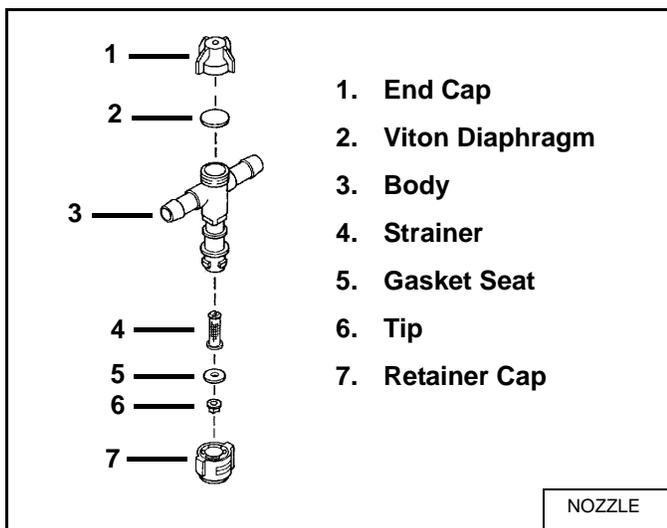
W-2213-1095

Check all bolts for tightness and connections for leaks.
Check all hoses for chafing or rubbing on frame.

Check all hose clamps for tightness. Tighten clamps to 5,7 - 6,8 N•m (50 - 60 in-lb) torque.

Nozzle Inspection

Figure 10-30-1



A leaking nozzle may indicate the following problems:

- Bad or damaged spring within end cap (Item 1) [Figure 10-30-1].
- Damaged or misaligned viton diaphragm (Item 2) [Figure 10-30-1].
- Damaged gasket seat (Item 5) [Figure 10-30-1].
- Damaged retainer cap (Item 7) [Figure 10-30-1].

When the problem is identified, correct or replace the parts as needed. If reduced flow is noted in any nozzle, remove the end cap and clean the nozzle strainer (Item 4) [Figure 10-30-1].



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STRAINER

Removal And Installation

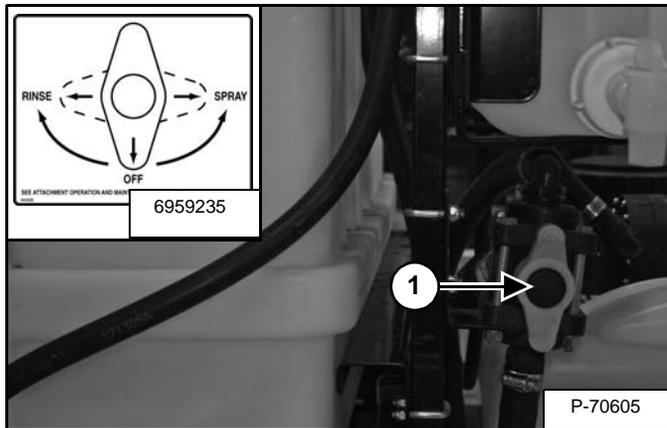
NOTE: The following pictures may not show your strainer exactly as it appears but the procedure is correct.



The spray tank and system must be emptied of chemical mixture and flushed with clean water before servicing the spray system or spraying components.

W-2213-1095

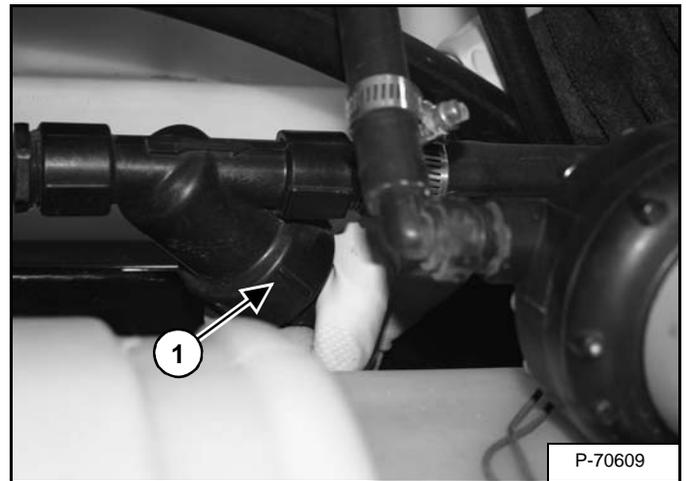
Figure 10-40-1



Before servicing or replacing the strainer, turn valve (Item 1) [Figure 10-40-1] to the close position to keep the water in the tank when the cup is removed.

NOTE: Water contained in the hoses will empty through the strainer housing when the cup is removed.

Figure 10-40-2



Remove the cup (Item 1) [Figure 10-40-2] and screen. Clean thoroughly and replace after everyday use.

NOTE: When reassembling the screen and cup on the housing, slide the screen in position prior to installing the cup. Use the same procedure when the O-ring seal is replaced.



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ELECTRICAL SYSTEM

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Installation And Removal	20-10-1
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Removal And Installation	20-31-1
RELAY	20-40-1
Removal And Installation	20-40-1



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WIRE HARNESS (UTILITY WORK MACHINE)

Installation And Removal

! WARNING

Never work on a machine with the cargo box up unless the cargo box is supported by an approved support device. Failure to use an approved support device can allow the cargo box to fall and cause injury or death.

W-2449-1102

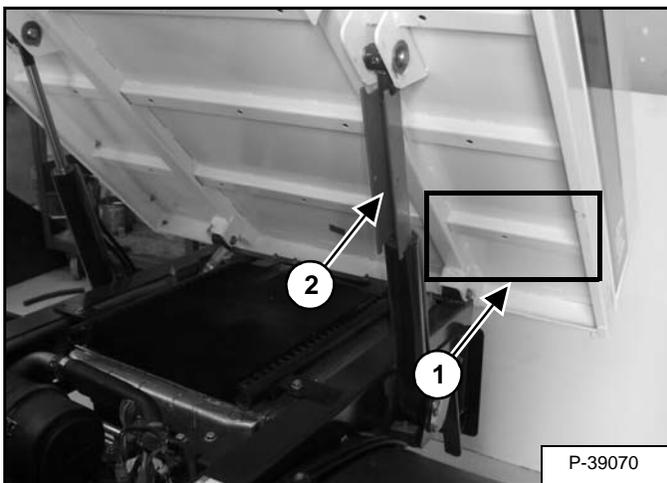
! WARNING

Service cargo box support device if damaged or if parts are missing. Using a damaged support or with missing parts can cause cargo box to drop causing injury or death.

W-2450-1102

Sprayer Harness Installation And Routing (S/N A00211001 & Above, S/N A00311001 & Above)

Figure 20-10-1



Remove the cargo box support device from the storage position (Item 1) [Figure 20-10-1].

Install the support device over the cargo box cylinder rod (Item 2) [Figure 20-10-1].

Enter the cab, lower the arm rest, fasten the seat belt, start the engine and lower the cargo box until it is supported by the support device.

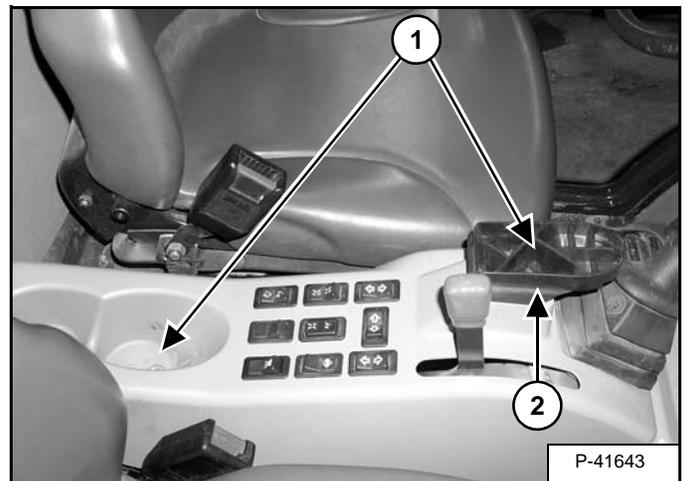
Stop the engine and exit the cab.

Figure 20-10-2



Remove cover (Item 1) and rubber insert (Item 2) [Figure 20-10-2].

Figure 20-10-3



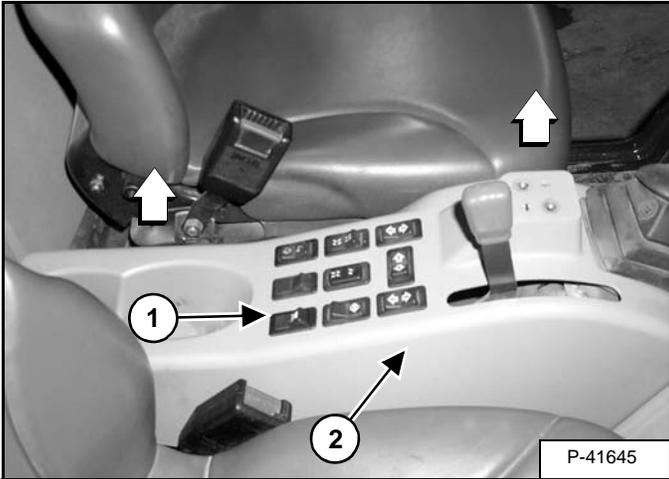
Remove the screws (Item 1) and remove arm rest (Item 2) [Figure 20-10-3].

WIRE HARNESS (UTILITY WORK MACHINE) (CONT'D)

Installation And Removal (Cont'd)

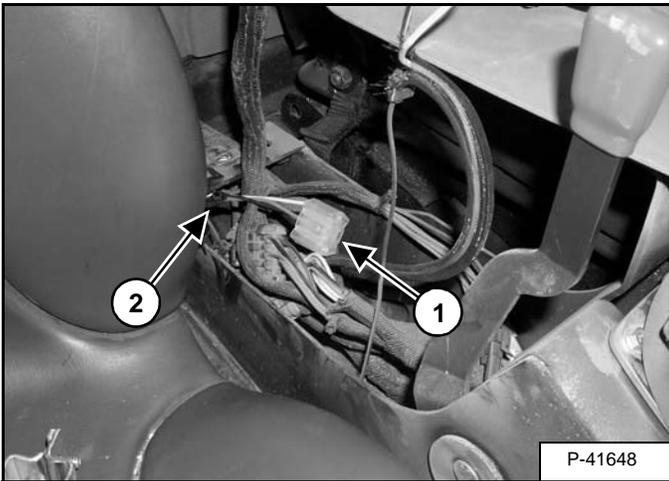
Sprayer Harness Installation And Routing (S/N A00211001 & Above, S/N A00311001 & Above) (Cont'd)

Figure 20-10-4



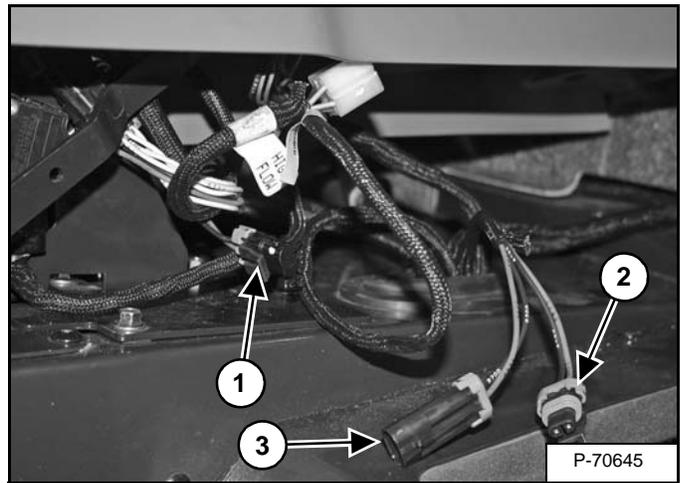
Remove switch plug (Item 1), then lift the center console (Item 2) [Figure 20-10-4] up.

Figure 20-10-5



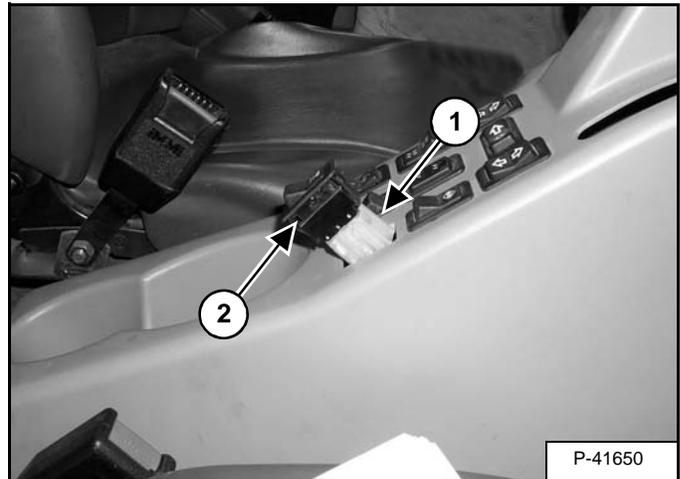
Install the switch harness (Item 1) under the rear mounting bracket (Item 2) [Figure 20-10-5] for the center console.

Figure 20-10-6



Remove cap from connector (Item 1) and install cap on connector (Item 2). Connect (Items 1 and 3) [Figure 20-10-6].

Figure 20-10-7



Install the connector (Item 1) [Figure 20-10-7] through the switch hole in the center console.

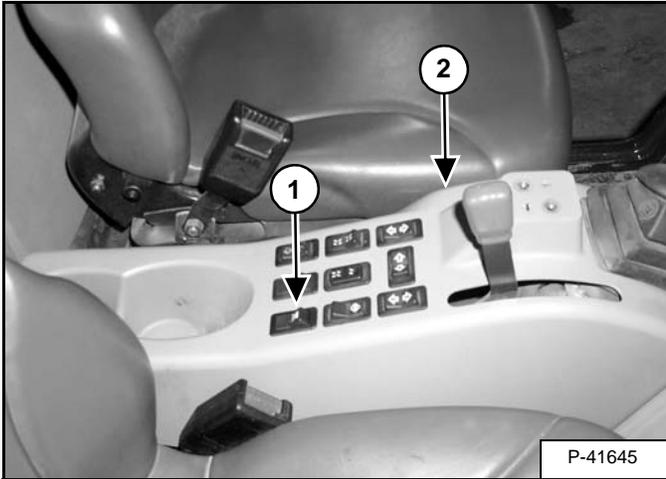
Connect the switch (Item 2) to the harness connector (Item 1) [Figure 20-10-7].

WIRE HARNESS (UTILITY WORK MACHINE) (CONT'D)

Installation And Removal (Cont'd)

*Sprayer Harness Installation And Routing (S/N
A00211001 & Above, S/N A00311001 & Above) (Cont'd)*

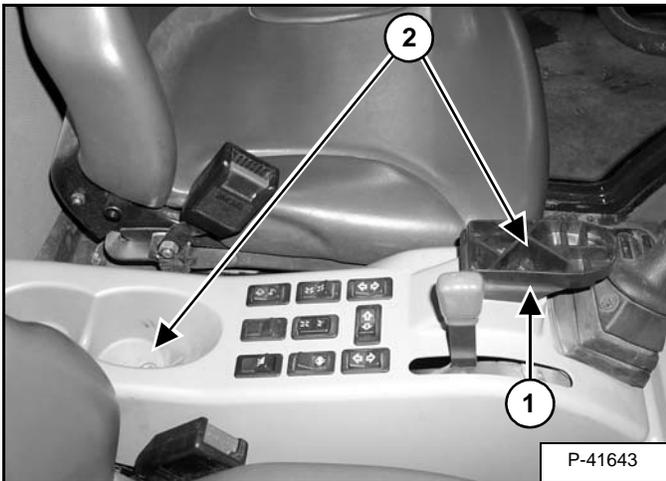
Figure 20-10-8



Press the switch (Item 1) [Figure 20-10-8] into the center console.

Install the center console (Item 2) [Figure 20-10-8].

Figure 20-10-9



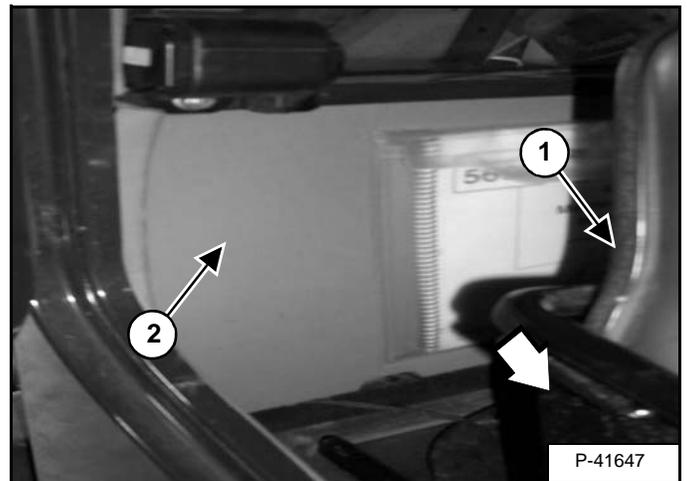
Install the arm rest (Item 1) and screws (Item 2) [Figure 20-10-9].

Figure 20-10-10



Install cover (Item 1) and rubber insert (Item 2) [Figure 20-10-10].

Figure 20-10-11



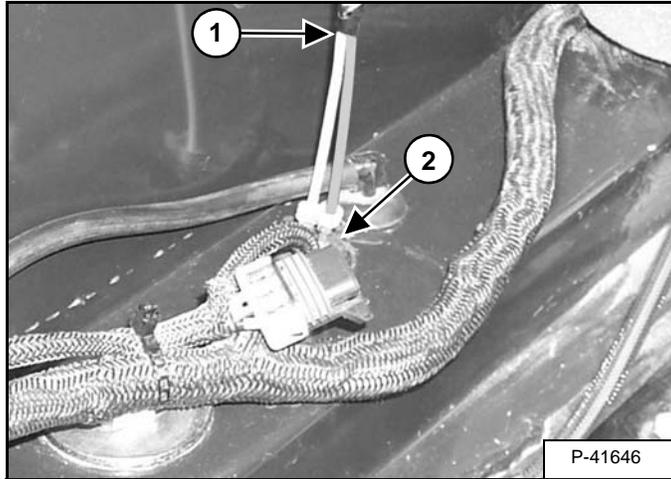
Move passenger seat (Item 1) forward, and remove the rear cab liner (Item 2) [Figure 20-10-11].

**WIRE HARNESS (UTILITY WORK MACHINE)
(CONT'D)**

Installation And Removal (Cont'd)

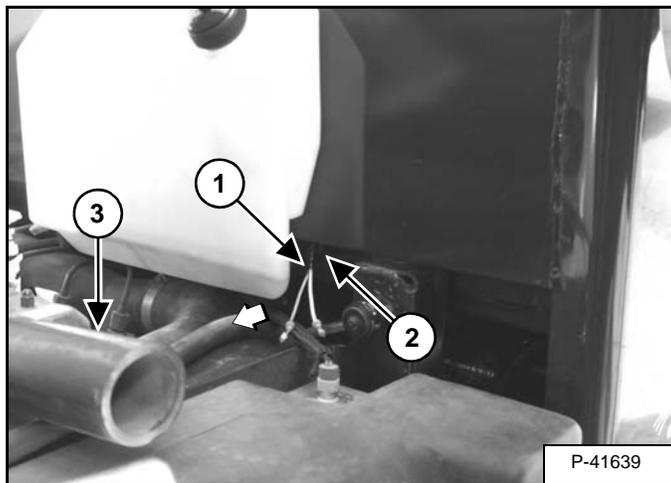
Sprayer Harness Installation And Routing (S/N
A00211001 & Above, S/N A00311001 & Above) (Cont'd)

Figure 20-10-12



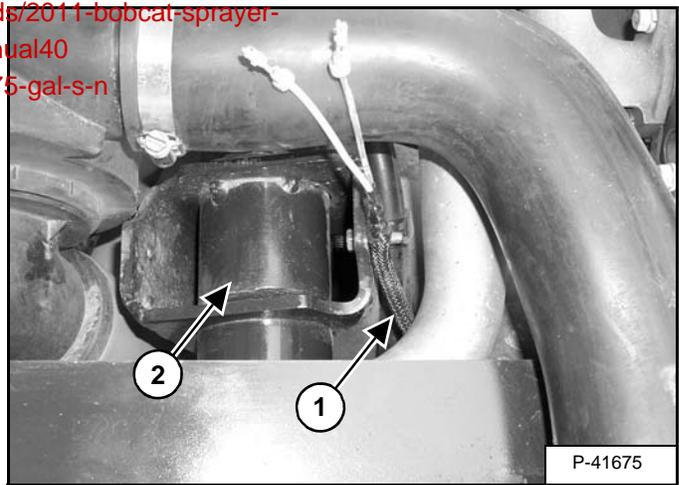
Route the switch harness (Item 1) through the grommet (Item 2) [Figure 20-10-12] (located towards the back of the cab, behind the passenger seat) and out the bottom of the cab.

Figure 20-10-13



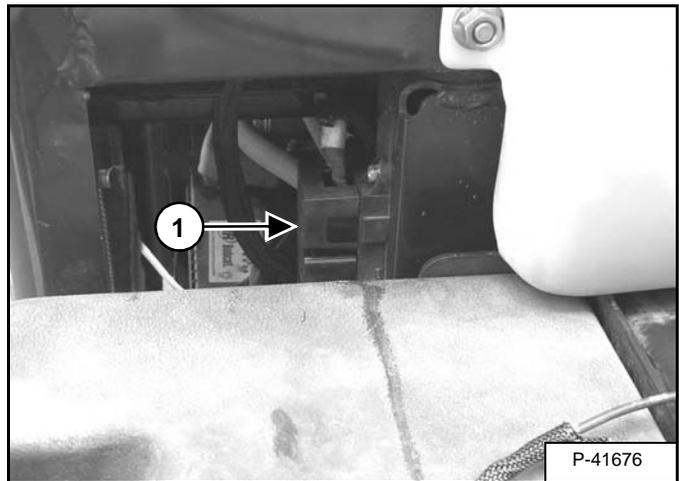
Pull the switch harness (Item 1) through the grommet and out the bottom of the cab (Item 2), then route the switch harness along the inside of utility work machine frame and under the air filter inlet hose (Item 3) [Figure 20-10-13].

Figure 20-10-14



Route the switch harness (Item 1) under the air intake and up in front of the frame cross member (Item 2) [Figure 20-10-14].

Figure 20-10-15



Remove cover (Item 1) [Figure 20-10-15].

Sample of manual. Download All 186 pages at:

<https://www.arepairmanual.com/downloads/2011-bobcat-sprayer-40-gal-50-gal-75-gal-80-gal-service-repair-workshop-manual4>