

A22, A25 AND A40 HIGH-PRESSURE WASHERS (SERIAL NO. 241,400)



JOHN DEERE

OPERATORS MANUAL A22, A25 AND A40 HIGH-PRESSURE WASHERS (SERIAL NO. 241,400)

OMTY20552 I2 English

**JDM DIVISION
OMTY20552 I2**

**LITHO IN THE U.S.A.
ENGLISH**



Introduction

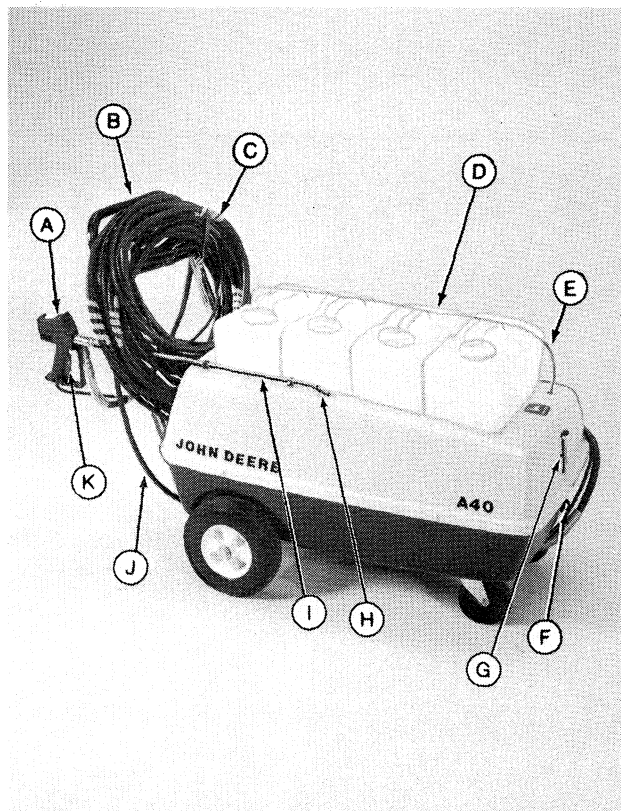


This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

This operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.

- A - Control Switch
- B - Handle
- C - Discharge Hose
- D - Reservoir
- E - Reservoir Pickup Hose
- F - Soap Adjust Knob

- G - Flow Meter
- H - Nozzle
- I - Wand
- J - Power Cord
- K - Trigger



A40 High-Pressure Washer Illustrated

TY7907/A22A/92181

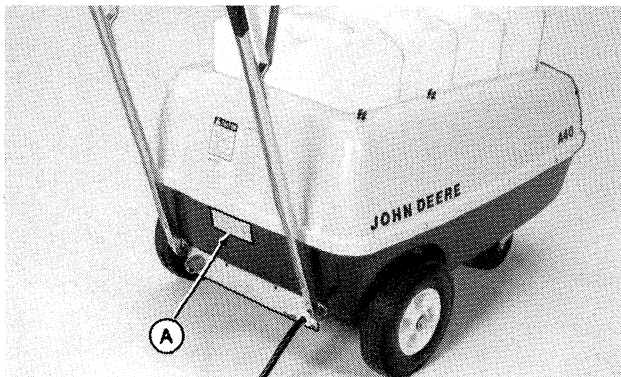
Record your washer model and serial number (A) in the space provided. Your dealer needs this information to give you prompt, efficient service when you order parts.

Model No. _____

Serial No. _____

Date of Purchase _____

(To be filled in by purchaser)



TY7098/A22B/92181

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Safety

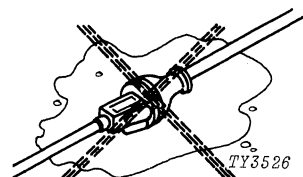
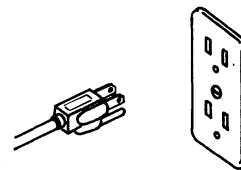
Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

The plug end of the power cord is equipped with a third (ground) prong. Do not remove this prong. Be sure to plug washer into an outlet that is properly grounded and will accommodate a 3-prong plug.

Disconnect the power cord from the electrical outlet before removing the case.

This machine is equipped with 50 feet (15.25 m) of power cord. If an extension cord is needed, use only a 10 gauge, 3-wire extension cord. Do not use more than 50 feet (15.25 m) of extension cord.

Make certain the connection between the power cord and the extension cord is not exposed to water.



TY3525/92181

TY3526/92181

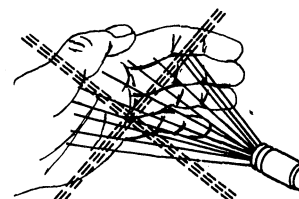
Be careful not to direct the spray (especially at close range) toward any part of the body. If injured by the spray, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

Turn washer off before repositioning wand (spray pattern) or replacing nozzle.

If the washer is equipped with the Dual-Jet Nozzle (accessory), be very careful when changing the nozzle from one setting to the other to keep fingertips from extending over the end of the nozzle where the spray pattern could penetrate the skin and cause personal injury. Turn the washer off for this adjustment.

Do not use combustible liquids in the high-pressure washer.

Do not use acids or other corrosive chemicals in the high-pressure washer unless you possess a thorough knowledge of the personal safety required in handling and using such chemicals.



TY3527/92181

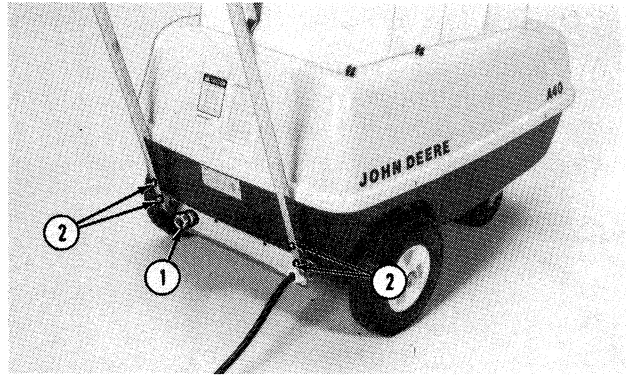
Assembly

ASSEMBLE THE WASHER

Remove washer from carton and check to see that no transportation damages have occurred.

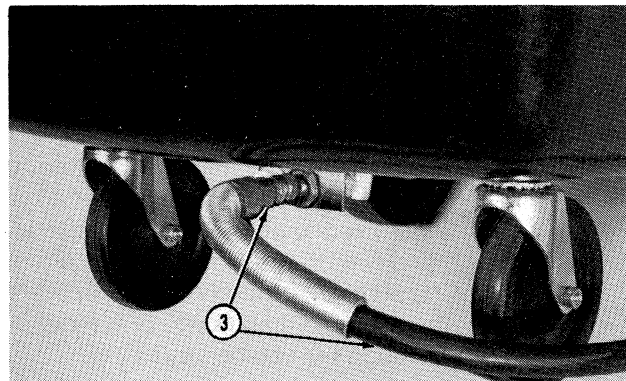
NOTE: Before assembling, check oil level in the pump crankcase.

1. Inspect inlet water fitting to make certain cone end of screen points toward the faucet.
2. Install handle on stubs with four screws.



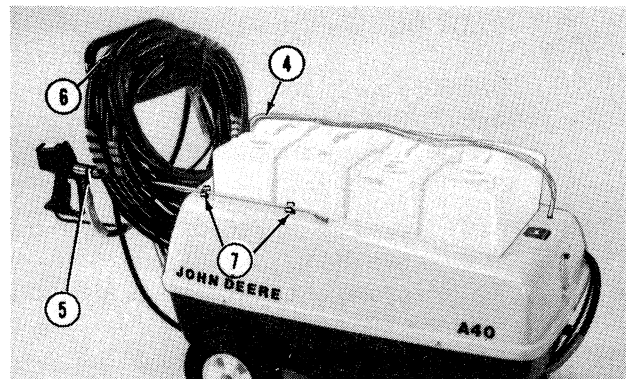
TY7099/A22D/92181

3. Attach discharge hose to fitting.



TY7100/A22E/92181

4. With reservoir installed (one - A22; three - A25; and four - A40), place reservoir pickup hose in reservoir.
5. Secure wand to gun with knurled nut (15 degree bend at nozzle end of wand should point down.)
6. Wrap hose and cord around handle.
7. Secure gun and wand assembly in storage clips.



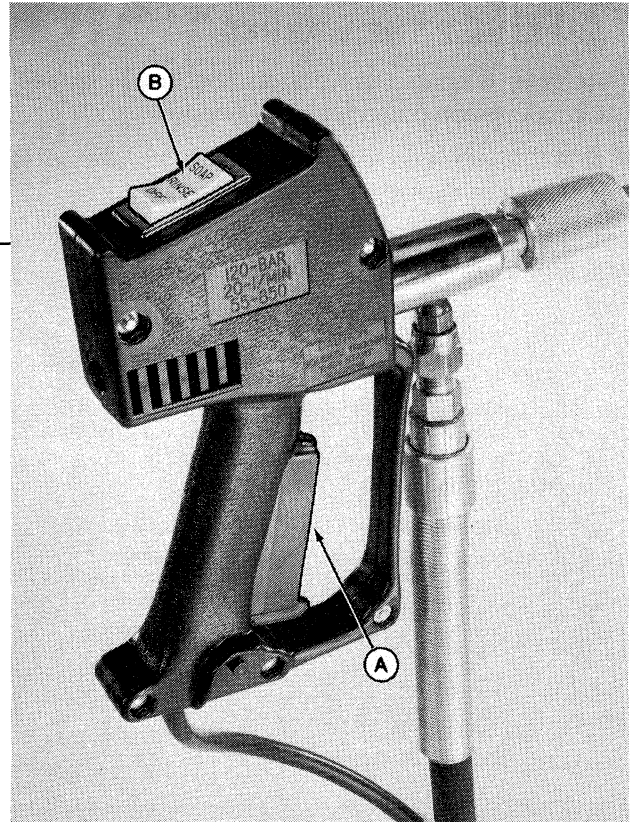
TY7101/A22F/92181

Controls

CONTROL SWITCH AND GUN TRIGGER

NOTE: Depress gun trigger (A) before selecting control switch position (B) to prevent motor from starting with pump in relief cycle.

Switch Position	Trigger Depressed	Trigger Released
"OFF"	Water turned on - motor shut off - water flows through washer and out the nozzle at source pressure.	Both water and motor shut off.
"RINSE"	Both water and motor turned on - pressurized clear water flows through washer and out the nozzle.	Motor on - pressurized water recirculating in system in relief cycle.
"SOAP"	Both water and motor turned on - proportioner energized to allow fluid withdrawal from reservoir - properly mixed pressurized fluid flows through the washer and out the nozzle.	Motor on - pressurized mixed fluid recirculating in system in relief cycle.



TY7102/A22G/92181



CAUTION: With the trigger depressed and the motor running, the washer generates a high-pressure spray and may cause the gun to "kick-back." This "kick-back" should be anticipated. Do not direct the high-pressure spray toward any part of the body.

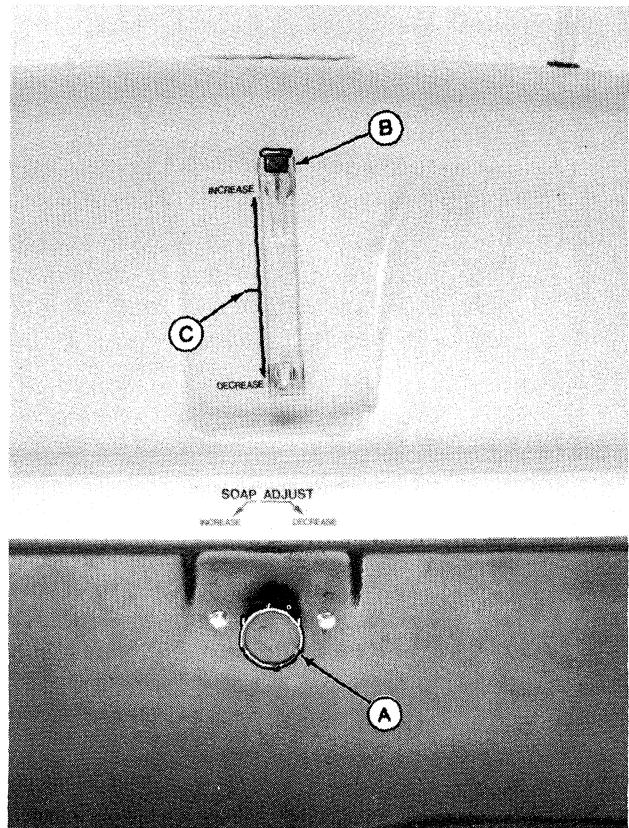
IMPORTANT: Do not operate the washer more than five minutes with gun shut off (relief cycle) or pump damage may occur.

A22H/92181

SOAP ADJUST KNOB AND FLOW METER

The soap to water concentration is determined by rotating the soap adjust knob (A). The soap content will decrease by turning the knob clockwise, making a weaker concentration. Turning the knob counter clockwise will increase the soap content, making the concentration stronger.

The soap flow meter (B) shows the proportion of soap to water in the concentration. The black line (C) indicates a 40:1 ratio of water to soap concentration.

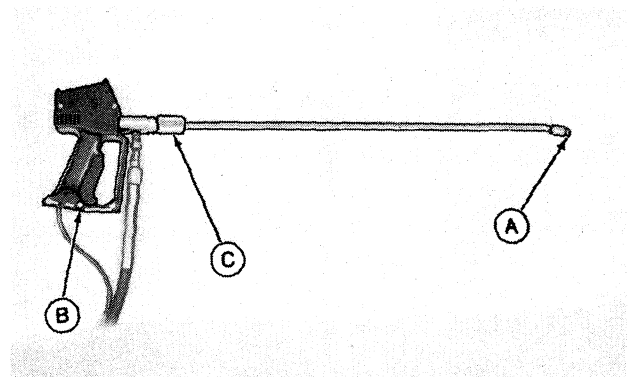


TY7103/A221/92181

CLEANING WAND AND NOZZLE

CAUTION: Turn washer off before repositioning wand (changing spray pattern).

The recommended installation of the nozzle locates the spray pattern (A) 90 degrees to the hand-grip (B). To change this relationship, loosen the knurled nut (C) and rotate the wand and nozzle assembly to locate the spray pattern at the desired position.



TY7104/A221/92181

Prepare the Washer

INCOMING WATER

For the washer to operate effectively, the incoming water volume must be:

A22 - 2.5 gallons-per-minute (9.5 L/m)

A25 - 3 gallons-per-minute (11.4 L/m)

A40 - 5 gallons-per-minute (18.9 L/m)

NOTE: If water is supplied from a static source, use a 5/8-inch (1.6 cm) minimum diameter garden hose and make certain that water source is level with or higher than pump.

Test for volume by filling the 2-1/2 gallon (9.5 L) reservoir from the intended water supply. The water should fill the reservoir in:

A22 - 60 seconds or less.

A25 - 50 seconds or less.

A40 - 30 seconds or less.

IMPORTANT: Do not use water heated to exceed a temperature of 140 degrees F (60 degrees C) or damage to the pump may result.

A22K/92181

ELECTRICAL POWER SUPPLY

Voltage at motor terminals must be:

A22 - 108 to 132 volts

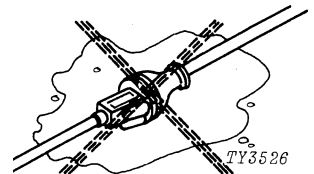
A25 - 108 to 132 volts

A40 - 216 to 264 volts

IMPORTANT: If an extension cord is needed, use only a 10-gauge, 3-wire extension cord. Do not use more than 50 feet (15 m) of extension cord.



CAUTION: Make certain the connection between the power cord and the extension cord is not exposed to water.



TY3526/A22L/92181

Prepare the Washer

PRIMING

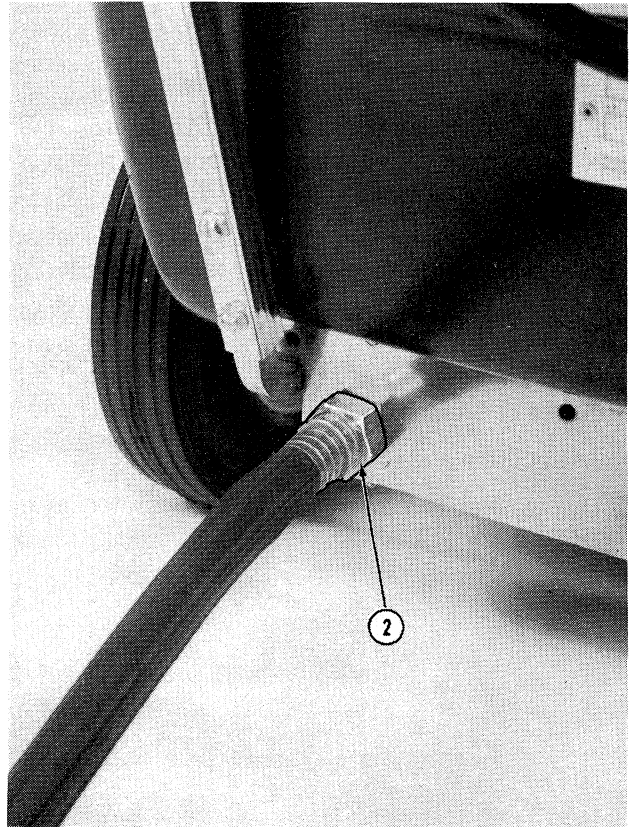
1. (Not illustrated.) Plug power cord into a properly grounded outlet.

2. Connect hose securely to water supply. Run water until all air is purged from hose.

NOTE: This water can be used to fill the reservoir 1/2 to 2/3 full. Remove reservoir from washer while filling to prevent spillage from contacting electrical system, which could cause damage to motor or switch.

Turn off water supply and connect hose securely to washer.

IMPORTANT: Hose and water connections must be airtight.

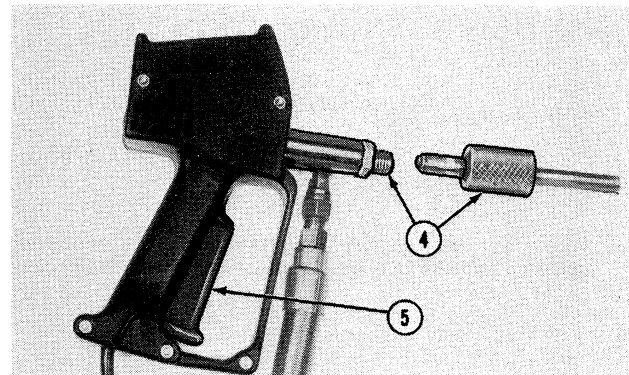


TY7105/A22M/92181

3. (Not illustrated.) Turn on water supply all the way. If water is supplied from a container at zero pressure, container must be level with or higher than pump.

4. Remove wand at knurled nut to prevent back-pressure.

5. Depress the trigger.



TY7106/A22N/92181

Prepare the Washer

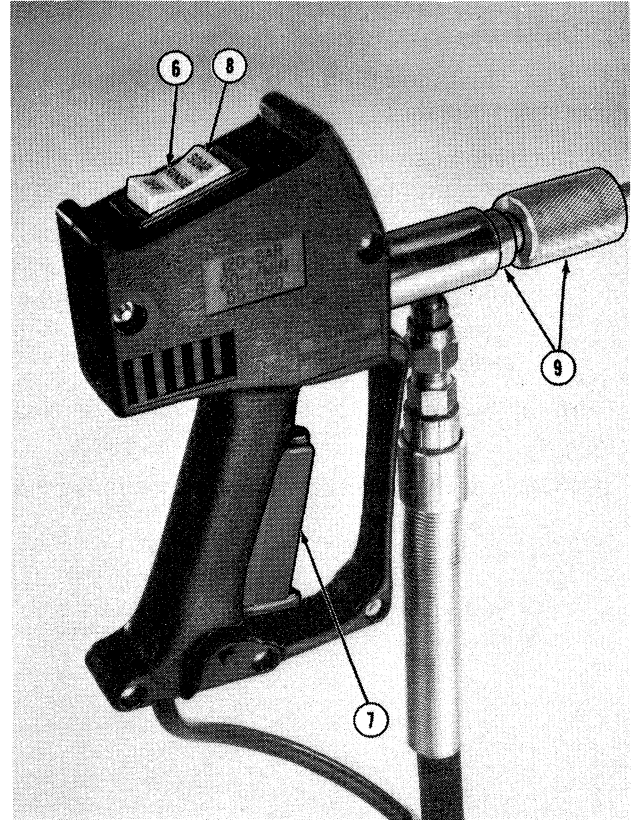
6. Set control switch to "RINSE" position. Allow water to flow through the gun for approximately 30 seconds. Release the trigger for 2 to 3 seconds. Repeat this procedure 4 or 5 times until all air is purged from the system. When a steady stream is developed and pump is running smoothly, washer is primed on "RINSE" cycle.

7. Place reservoir into cavity on top of washer and insert pickup hose into reservoir. Depress the trigger.

8. Set control switch to "SOAP" position. Allow fluid to flow through the gun for approximately 30 seconds. Release the trigger for 2 to 3 seconds. Repeat this procedure 4 or 5 times until the reservoir pickup hose is full.

9. Secure wand to gun with knurled nut.

The washer is now ready to be operated in either the "RINSE" or "SOAP" cycle.



TY7107/A220/92181

MIX DETERGENT SOLUTION

As a beginning, use one of the ratios shown in chart at right.

Experience will determine the best proportion for local water conditions.

**Water with over 20 grains hardness should be run through a water softener before adding detergent to insure satisfactory cleaning.*

DETERGENT-TO-WATER RATIO				
HARDNESS			DETERGENT	WATER AMOUNT
WATER TYPE	GRAINS	PART PER MILLION		
SOFT	0 to 5	0 to 85.5	1 lb. (0.45 kg)	2.5 gal. (9.5 L)
NORMAL	5 to 10	85.5 to 171	1.5 lb. (0.68 kg)	2.5 gal. (9.5 L)
HARD	20*	171 and Up	2 lb. (0.90 kg)	2.5 gal. (9.5 L)

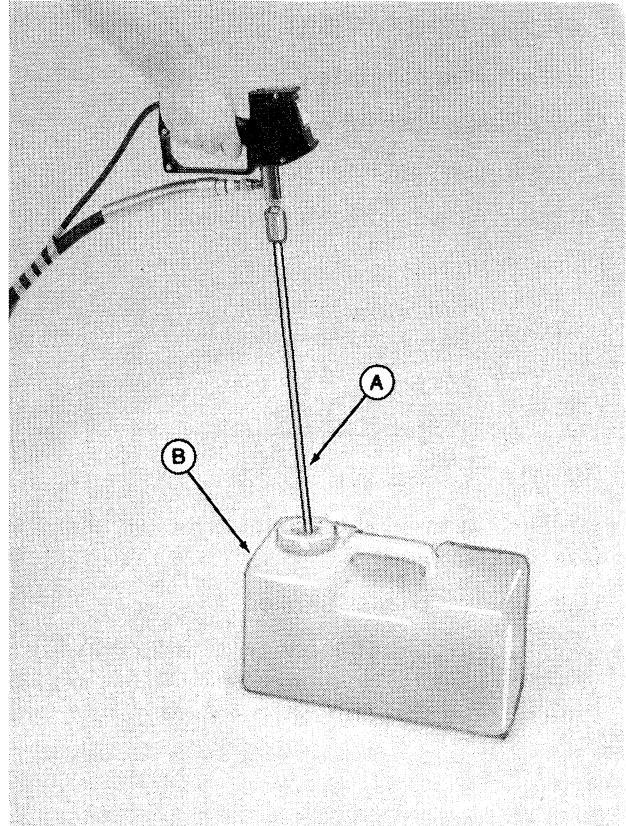
TY6950/92181

Prepare the Washer

Remove the reservoir from the washer and add detergent to the water in the reservoir.

IMPORTANT: Always add detergent to water instead of adding water to the detergent. This will insure a uniform mixture.

Insert wand (A) close to bottom of reservoir (B). Depress trigger, set control switch to "RINSE" position and use the high water pressure to vigorously stir the mixture. When detergent has dissolved into solution, set control switch to "OFF" position, depress trigger and continue to fill reservoir using source pressure. Continue stirring with the wand until reservoir is nearly full. Place reservoir into cavity on top of washer and insert reservoir pickup hose into reservoir.



TY7108/A22P/92181

Operate the Washer

BEFORE OPERATING

Turn water on completely.

Check intake hose for kinks.

Check for air-tight hose connections.

Fill reservoir with adequate amount of fluid.

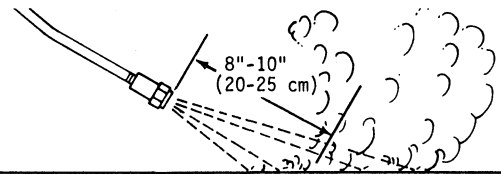
Prime washer.

OPERATE THE WAND

Direct spray at an angle to force the dirt ahead and away from cleared area.

Use slow and overlap strokes.

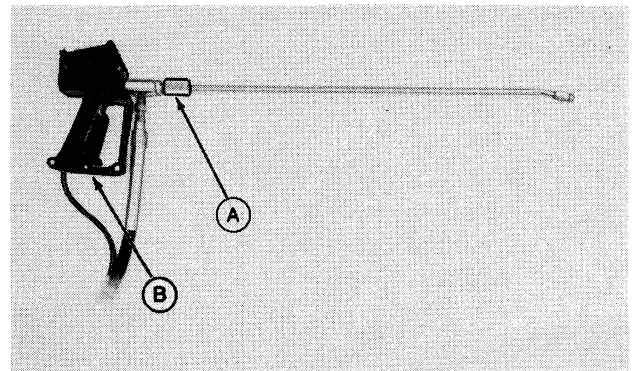
Hold nozzle 8 to 10-inches (20 to 25 cm) from surface you are cleaning. Hold nozzle closer for tough spots that require more concentrated pressure.



TY3539/92181

ADJUST WAND POSITION

Loosen the knurled nut (A) and rotate the wand for desired position in relation to handgrip (B).



TY7109/A22Q/92181

CLEANING

Wash from bottom up.

Rinse from top down.

NOTE: When switching from "SOAP" to "RINSE," it takes approximately 15 seconds to purge detergent solution before clear water will flow from nozzle.

Adjust soap proportion according to the job to be done. Maximum concentration of soap to water is approximately 15:1 ratio. Most general purpose cleaning can be done at the 40:1 ratio, the midpoint mark on the flow meter.

Due to cool surface temperature or water hardness, it may be necessary with tough cleaning jobs to wipe with a sponge or wash mitt to break up the film.

If hard water spots are objectionable, wipe surface dry with a chamois.

WAXING

An auxiliary reservoir is recommended for use with the wax solution.

Mix 2 ounces (0.059 L) of wax to 1 gallon (3.8 L) of water in an auxiliary reservoir. Prepare only the approximate amount required. Unused mixture will turn cloudy and not be useable if allowed to stand 6 to 8 hours.

Clean the surface to be waxed. Apply wax on "SOAP" cycle, working from top down with the soap adjust knob positioned at a 40:1 ratio on the flow meter.

NOTE: It is not necessary to rinse before waxing.

After wax is applied, switch to "RINSE" and thoroughly rinse to buff and set the wax.

Glass surfaces may be wiped clean with a dry cloth after the "RINSE" operation.

HIGH-PRESSURE WASHER USAGE

WASHING (General)	
Job	Concentrate
Automobiles Farm equipment Grocery stores Homes Industrial equipment Kennels Meat, poultry and dairy processing equipment Motorcycles Motor homes Pools Shops Trucks	John Deere Spray Detergent #1 8 ounces (0.23 kg) to 1 gallon (3.8 L) normal water. For heavy scum or hard water, double the detergent; in soft water use one-half the amount.

WASHING (Heavy Soil)	
Job	Concentrate
Automobiles Farm equipment Grocery stores Homes Industrial equipment Kennels Meat, poultry and dairy processing equipment Motorcycles Motor homes Pools Shops Trucks	Use same concentrate as for General Washing, to which add: John Deere Detergent Additive. 1/2 to 1 ounce (0.014 to 0.029 L) to 1 gallon (3.8 L) pre-mixed detergent. For extra tough jobs add: 1 to 2 ounces (0.029 L to 0.059 L) to 1 gallon (3.8 L) pre-mixed detergent.

DISINFECTING AND DEODORIZING	
Job	Concentrate
Contact surfaces Containment areas Farrowing houses Floors Food service areas and processing plants Hospitals Kennels Livestock and feed handling equipment Refrigeration cars Refrigerators Refuse containers Rest rooms Supermarkets Swimming pools	John Deere Germicidal Sanitizer. 20 ounces (0.59 L) to 1 gallon (3.8 L) water for general sanitizing of non-porous surfaces. 40 ounces (1.18 L) to 1 gallon (3.8 L) water for porous and heavily contaminated surfaces. NOTE: Rinse all food contact surfaces and utensils with potable water before reuse.

WAXING	
Job	Concentrate
Airplanes Automobiles Farm equipment Industrial equipment Lawn furniture Motorcycles Motor homes Trucks	John Deere Spray Wax 2 ounces (0.059 L) to 1 gallon (3.8 L) water.

OTHER USES	
Job	Method
Degreasing engines	Heavy buildup may require John Deere Degreasing Solvent. (Apply with a brush or a low pressure sprayer.) Then wash, using spray detergent, then rinse. <i>NOTE: Use a protective covering on air cleaner intake and distributor.</i>
Cleaning radiator fins	Direct spray from behind radiator. Spray straight into radiator to prevent fin bending. Clear water on "RINSE" cycle will probably suffice.
Preparing for repainting	Clean and remove blistered and peeling paint easily and quickly with a high-pressure spray.
Lawn and garden equipment	Strip away grass deposits from under mower deck with knife-like spray. Protect air intake and electrical parts on gas engines — disconnect power cord on electric mowers.
Deep root watering	Approximately 2 to 3 feet (60 to 90 cm) from tree, using 0 degree nozzle, push down on wand. High-pressure spray will dig a hole the depth of the wand. 1.8 gallons of water per minute (0.11 L/s) will quickly provide adequate moisture to tree roots.
Garden spraying	Mix insecticide and fertilizer solutions in separate reservoirs. Using the "SOAP" cycle and a 40 degree nozzle, the mist can be easily and quickly applied. <i>NOTE: Do not spray when wind causes blowing and drifting of chemical mist.</i>

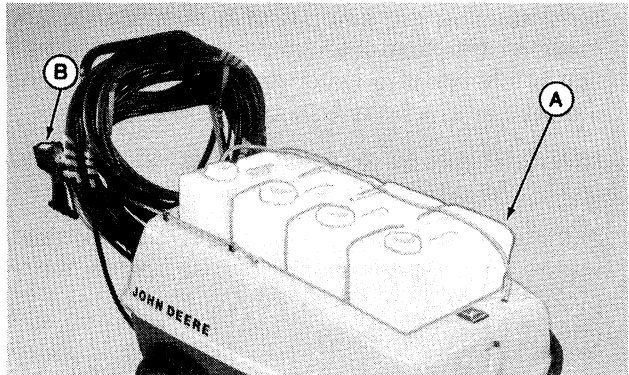
CHEMICAL USAGE GUIDE

This washer is designed to dispense John Deere approved detergents, wax, and germicidal sanitizers. Other chemicals can be dispensed with this washer; however, their use may result in added maintenance cost. The type of chemical used and its concentration may shorten the life of washer components.



CAUTION: Use of some of these chemicals may issue a toxic spray. Follow directions on chemical package label for application and for the safety of the operator, pets, livestock, plants, and others in the affected area. Special precautions may have to be taken to guard against eye damage, inhalation, skin contact, and other potential risks.

If chemicals other than John Deere approved detergent and wax are used in the washer, remove unused chemicals from reservoirs (A) and thoroughly wash reservoir. Fill reservoir with clear water and operate washer on "SOAP" cycle (B) several minutes to thoroughly clean any chemical residue from the washer system.



TY7110/A22R/92181

Chemicals most often desired to be used are listed in two groups:

Group I Chemicals will cause less damage than Group II Chemicals. They primarily attack rubber parts.

GROUP 1

Agricultural chemical formulation of herbicides, insecticides, or fungicides.

Cygon 2E	Lindane
Delnav - 15 and 30%	Malathion
Diazinon AG-500	Methoxychlor
Diazinin (Spectracide)	Ravap
Korlan	Toxaphene

TY6968/92181

Group II Chemicals will cause more rapid wear and attack both rubber and metal parts.



CAUTION: Never put nozzle or other parts that may contain a chemical residue to your lips to blow out trash.

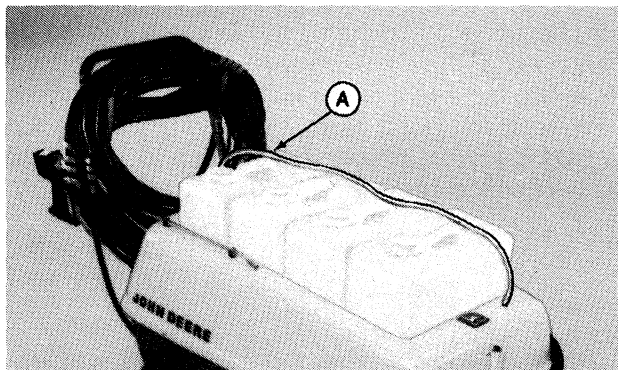
GROUP 11
Inorganic
A. Hydrochloric acid, or products containing same. B. Sulfuric acid concentrated or diluted. C. Slurries or suspensions of abrasive matter (clays, etc.)
Organic
A. Aromatic solvents (toluene, xylene, etc.) B. Esters (ethyl acetate, butyl acetate, etc.) C. Ketones (acetone, methyl isobutyl ketone, etc.) D. Strong acetic acid.
Other
A. Insecticides, fungicides and disinfectants that contain abrasive matter such as clays, etc. B. Uninhibited acid cleaners.

TY6869/92181

To determine the amount of a chemical to add to the reservoir to obtain the chemical manufacturer's percentage of chemical to water for application, first determine the ratio at which the washer is operating.

NOTE: The soap to water ratio is variable. Perform the following test to determine the washer's ratio.

With washer properly supplied with electrical power, water, and primed ready for use, place the reservoir pickup hose (A) into a container, graduated in pints (liters), filled with water.



TY7111/A225/92181

Operate the Washer

With soap adjust knob remaining in a fixed position, depress trigger and move control switch to "RINSE" position. Determine that washer is operating normally on "RINSE" cycle. Then, move control switch to "SOAP" position and record time to withdraw one pint (0.473 L) from graduated container.

Take several readings, average the time and determine the ratio setting from the chart. Use time (seconds) in charts nearest to average time established in test.

A22 Washer

Time (seconds) to withdraw 1 Pint (0.473 L)	Ratio
71	20:1
89	25:1
107	30:1
125	35:1
143	40:1
161	45:1
179	50:1
196	55:1
214	60:1

A25 Washer

Time (seconds) to withdraw 1 Pint (0.473 L)	Ratio
58	20:1
72	25:1
86	30:1
101	35:1
115	40:1
130	45:1
144	50:1
158	55:1
173	60:1

A40 Washer

Time (seconds) to withdraw 1 Pint (0.473 L)	Ratio
36	20:1
44	25:1
50	30:1
62	35:1
71	40:1
80	45:1
89	50:1
98	55:1
107	60:1

TY7112/A22T/92181

With the washer's ratio determined, it is now possible to figure the amount of chemical to mix with water to obtain the desired chemical ratio. Depending on chemical manufacturer's directions, the amount of chemical can be figured three ways.

IMPORTANT: The "SOAP ADJUST" knob should not be moved from the position where the calculations were made once the chemicals are mixed in the container. If the "SOAP ADJUST" knob is moved, the ratio will change and the figures have to be recalculated.

NOTE: The following examples are based on making 1 gallon (3.785 L) of chemical solution. This will be a very concentrated solution. However, the washer will be diluting it with water in accordance with the ratio at which it is operating.

DETERMINE FLUID OUNCES

Directions state to add a specified number of fluid ounces (cm³). Three fluid ounces (88.7 cm³) will be used in the following example to make a gallon (3.785 L) of solution.

Multiply the specified fluid ounces (cm³) by the ratio at which the washer is operating.

3 fluid ounces (88.7 cm³) x 40 = 120 fluid ounces (3 548 cm³).

This figure should never be more than 128 fluid ounces (3 785 cm³) which is the number of fluid ounces (cm³) in a gallon (L). If the figure you arrive at is 128, it would represent a 100 percent concentration with no water being added.

To prepare a quart (0.946 L) or pint (0.473 L) of solution, use the same procedure. The figure you arrive at should never be more than 32 fluid ounces (0.946 L) for a quart and 16 fluid ounces (0.473 L) for a pint.

DETERMINE A PERCENTAGE SOLUTION

Directions call for a percentage solution, (2 percent will be used in the following example):

Convert this percentage to fluid ounces (cm^3) of a gallon (3.785 L) and multiply by the ratio at which the washer is operating.

$0.02 \times 128 \text{ fluid ounces (3.785 L)} = 2.5 \text{ fluid ounces (73.9 cm}^3\text{)}.$

$2.5 \text{ fluid ounces (73.9 cm}^3\text{)} \times 40 = 100 \text{ fluid ounces (2 957 cm}^3\text{)}.$

This figure should never be more than 128 fluid ounces (3 785 cm^3) which is the number of fluid ounces (cm^3) in a gallon (L). If the figure you arrive at is 128, it would represent a 100 percent concentration with no water being added. The difference between this figure and 128 fluid ounces (3 785 cm^3) is the amount of water to which the chemical should be added.

To prepare a quart (0.946 L) or pint (0.473 L) of solution, multiply the percentage times 32 fluid ounces (0.946 L) for quart or 16 fluid ounces (0.473 L) for pint. Then multiply that figure times the ratio at which the washer is operating. The final figure should never be more than 32 fluid ounces (0.946 L) for a quart and 16 fluid ounces (0.473 L) for a pint.

DETERMINE MIXING RATIO

Directions call for mixing chemical in a certain ratio with water. Use the chart below to obtain the amount of chemical in fluid ounces (cm³) to mix with water to make a gallon (3.785 L) of solution.

The difference between this figure and 128 fluid ounces (3 785 cm³) is the amount of water to which the chemical should be added.

WASHER RATIO	RATIO SPECIFIED IN CHEMICAL INSTRUCTIONS																					
	20:1	25:1	30:1	35:1	40:1	45:1	50:1	55:1	60:1	65:1	70:1	75:1	80:1	85:1	90:1	95:1	100:1	105:1	110:1	115:1	120:1	125:1
20:1	128 (3 785)	102 (3 016)	85 (2 513)	73 (2 158)	64 (1 892)	57 (1 685)	51 (1 508)	47 (1 390)	43 (1 271)	39 (1 153)	37 (1 094)	34 (1 005)	32 (946)	30 (887)	28 (828)	27 (798)	26 (769)	24 (710)	23 (680)	22 (651)	21 (621)	20 (591)
25:1		128 (3 785)	107 (3 164)	91 (2 691)	80 (2 366)	71 (2 099)	64 (1 892)	58 (1 715)	53 (1 567)	49 (1 449)	46 (1 360)	43 (1 271)	40 (1 183)	38 (1 124)	36 (1 065)	34 (1 005)	32 (946)	30 (887)	29 (858)	28 (828)	27 (798)	26 (769)
30:1			128 (3 785)	110 (3 253)	96 (2 839)	85 (2 513)	77 (2 277)	70 (2 070)	64 (1 892)	59 (1 745)	55 (1 626)	51 (1 508)	48 (1 419)	45 (1 331)	43 (1 271)	40 (1 183)	38 (1 124)	37 (1 094)	35 (1 035)	33 (976)	32 (946)	31 (917)
35:1				128 (3 785)	112 (3 312)	100 (2 957)	90 (2 661)	81 (2 395)	75 (2 218)	69 (2 040)	64 (1 892)	60 (1 774)	56 (1 656)	53 (1 567)	50 (1 479)	47 (1 390)	45 (1 331)	43 (1 271)	41 (1 212)	39 (1 153)	37 (1 094)	36 (1 065)
40:1					128 (3 785)	114 (3 371)	102 (3 016)	93 (2 750)	85 (2 513)	79 (2 336)	73 (2 158)	68 (2 011)	64 (1 892)	60 (1 774)	57 (1 685)	54 (1 597)	51 (1 508)	49 (1 449)	47 (1 390)	45 (1 331)	43 (1 271)	41 (1 212)
45:1						128 (3 785)	115 (3 401)	105 (3 105)	96 (2 839)	89 (2 632)	82 (2 425)	77 (2 277)	72 (2 129)	68 (2 011)	64 (1 892)	61 (1 804)	58 (1 715)	55 (1 626)	52 (1 538)	50 (1 479)	48 (1 419)	46 (1 360)
50:1							128 (3 785)	116 (3 430)	107 (3 164)	98 (2 896)	91 (2 691)	85 (2 513)	80 (2 366)	75 (2 218)	71 (2 099)	67 (1 981)	64 (1 892)	61 (1 804)	58 (1 715)	55 (1 626)	53 (1 567)	51 (1 508)
55:1								128 (3 785)	117 (3 460)	108 (3 194)	101 (2 987)	94 (2 780)	88 (2 602)	83 (2 454)	78 (2 306)	74 (2 188)	70 (2 070)	67 (1 981)	64 (1 892)	61 (1 804)	59 (1 745)	56 (1 656)
60:1									128 (3 785)	118 (3 489)	110 (3 253)	102 (3 016)	96 (2 839)	90 (2 661)	85 (2 513)	81 (2 395)	77 (2 277)	73 (2 158)	70 (2 070)	67 (1 981)	64 (1 892)	61 (1 804)

To prepare a quart (0.946 L) of solution, use the same procedure. Then divide the number from the chart by 4. Subtract this number from 32 (946) to obtain the fluid ounces (cm³) of water to which the chemical should be added.

To prepare a pint (0.473 L) of solution, use the same procedure as a quart but divide by 8 and subtract that number from 16 (473).

TY6972/92181

IMPORTANT: The "SOAP ADJUST" knob should not be moved from the position where the calculations were made once the chemicals are mixed in the container. If the "SOAP ADJUST" knob is moved, the ratio will change and the figures have to be recalculated.

Trouble Shooting

Trouble	Possible Cause	Remedy	Page
No pressure or fluid at nozzle.	Plugged inlet screen.	Clean or replace screen.....	24
	Reservoir dry.	Fill reservoir and prime washer.....	7
	Water tap not on.	Supply washer with adequate water volume and prime.....	6,7
	Plugged nozzle.	Remove nozzle and clean by blowing air back through nozzle.....	—
	Relief valve fouled or out of adjustment.	See your John Deere Dealer.....	—
Low nozzle pressure.	Pump drive belt(s) slipping.	Adjust drive belt tension.....	25
	Worn nozzle.	Replace nozzle.....	32-34
	Low pump displacement.	See your John Deere dealer.....	—
	Relief valve recirculating.	See your John Deere dealer.....	—
	Washer not primed.	Prime washer.....	7
	Foreign material in pump valves.	See you John Deere dealer.....	—
	Pump drive belt(s) slipping.	Adjust drive belt tension.....	25
Erratic fluid withdrawal from reservoir.	Hard water scale build-up on water valve.	Clean scale from water valve and seats.....	23,24
Pump fluctuates or pulsates.	Air entering system.	Test for air in system.....	22,23
		Fix leaks and prime.....	7,22
	Washer not primed.	Prime washer.....	7
	Pump valves not seating.	See your John Deere dealer.....	—
	Pump grease cup empty.	Fill cup and tighten.....	21
Draws reservoir fluid on "RINSE" cycle.	Pump plunger seals loose.	Tighten packing gland.....	25
	Proportioner solenoid valve not seating properly or proportioner internally cracked.	See your John Deere dealer.....	—

Trouble Shooting

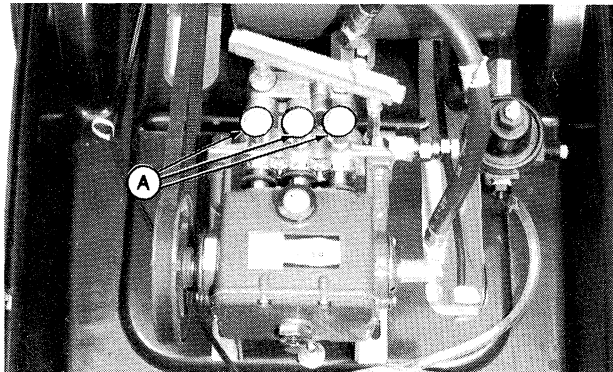
Trouble	Possible Cause	Remedy	Page
Does not draw enough or will not draw any reservoir fluid on "SOAP" cycle.	Reservoir pickup hose out of reservoir.	Place pickup hose in reservoir.....	—
	Reservoir pickup hose pinched.	Realign hose.....	—
	Reservoir empty.	Fill reservoir and prime washer.....	7
	Reservoir pickup hose screen clogged.	Clean or replace screen.....	24
	Proportioner coil burned out.	See your John Deere dealer.....	—
	Proportioner valve has air leak.	See your John Deere dealer.....	—
	Pump worn (low displacement).	See your John Deere dealer.....	—
	Flow control valve out of adjustment.	See your John Deere dealer.....	—
Motor will not start but water will flow through nozzle.	Loose electrical connection.	See your John Deere dealer.....	—
	Switch malfunction.	See your John Deere dealer.....	—
	Relay malfunction.	See your John Deere dealer.....	—
Motor cuts off.	Thermal overload tripped out.	Make certain washer has adequate ventilation.....	—
	Excessive discharge pressure cause by clogged nozzle.	Inspect, clean or replace nozzle.....	32-34
	Blown fuse.	Check and replace fuse.....	26
	Using wrong extension cord.	Use only correct extension cord.....	6
	Low voltage.	Have line voltage checked.....	—
	Motor starting with pump in relief cycle.	Depress trigger on gun before starting motor.....	4

Lubrication

PUMP GREASE CUP

Every 50 hours of operation, turn the grease cup(s) (A) down (clockwise) until a slight resistance is felt. This forces grease onto the plunger seals.

Keep the grease cup(s) and cap(s) filled with John Deere Multi-Purpose lubricant or an equivalent SAE multi-purpose-type grease.



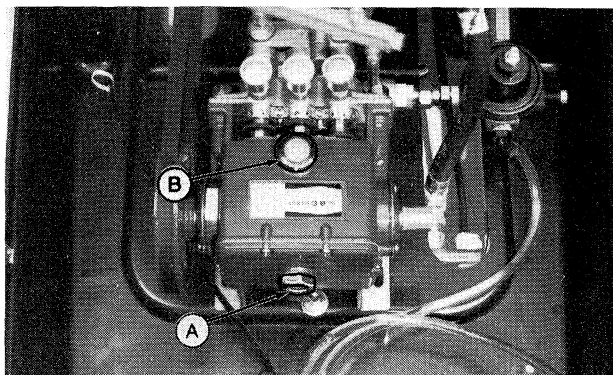
A25 High-Pressure Washer

TY7113/A22W/92181

PUMP CRANKCASE

Periodically, remove case and check the oil level in the window gauge (A). If the oil level is below the center, remove the oil filler cap (B) and add a good grade of NON-DETERGENT SAE 30 Engine Oil until the level is at the center of the window gauge.

NOTE: John Deere Chain Saw Oil (PT551) may be used in the pump crankcase.



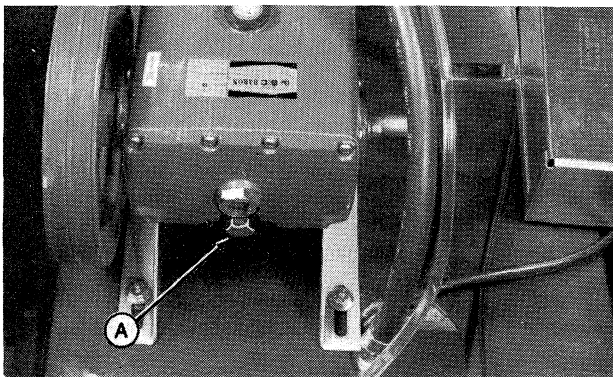
A25 High-Pressure Washer

TY7114/A22X/92181

Use the following schedule for changing oil.

1. First oil change after 10 to 15 hours of operation.
2. Second oil change after 30 to 60 hours of operation.
3. Change oil every 150 hours of operation thereafter.

Drain oil by removing drain plug (A).



TY7115/A22Y/92181

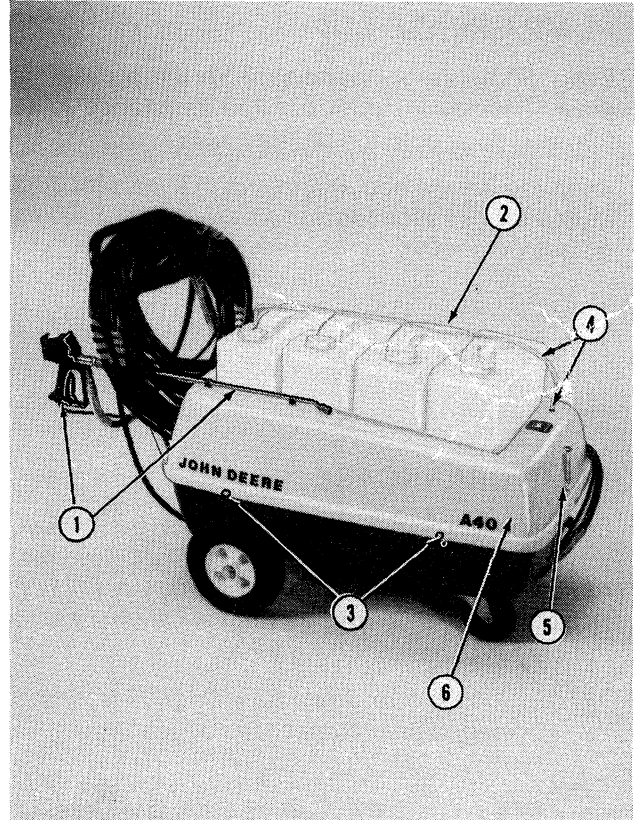
Service

REMOVE THE CASE



CAUTION: Disconnect service cord from electrical outlet before removing case.

1. Remove gun and wand assembly from clips.
2. Remove reservoir(s) from case.
3. Remove two screws from each side of case.
4. Remove grommet from case and screen from end of pickup hose.
5. Lift case part way off and remove tubes from flow meter.
6. Lift off case making certain the pickup hose slides freely through hole in case.



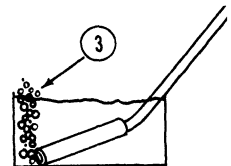
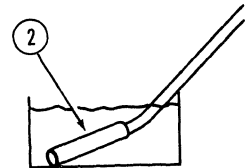
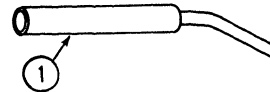
TY7116/A22Z/92181

TEST FOR AIR IN SYSTEM

After washer is primed, if flow from reservoir decreases or pump surges, air may be entering the pump.

To test for air in system:

1. Place short piece of hose, 10 to 12-inches (25.4 to 30.5 cm) long, over nozzle to dissipate pressure.
2. Immerse nozzle with hose in a 5 gallon (18.9 L) pail of water.
3. Operate washer in "RINSE" cycle. If bubbles appear, there is air in the system.



TY3542/92181

TY3543/92181

TY3544/92181

If air is entering the system, determine if it is entering the water supply hose or the washer system as follows:

1. Fill a supply hose with water to eliminate as much air as possible. Attach hose securely to washer. Place opposite end of hose in a 5 gallon (18.9 L) pail of water. Make certain hose does not have a leak to admit air and the water level in pail is level with or higher than pump.

2. Operate washer, drawing water from pail. Depress and release trigger a few times to purge air from system.

A. If air is present, leak is within washer. Check all connections in inlet water circuit ahead of pump. Check for loose, cross-threaded or damaged fittings.

B. If air is eliminated by drawing water from pail, trouble is in supply hose fitting, faucet hardware or water supply.



TY3545

TY3545/92181

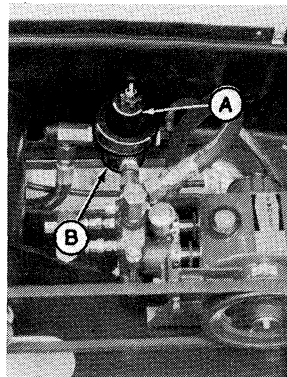
FLOW CONTROL VALVE

The flow control valve (A) is preset. If the adjustment has been tampered with, have your John Deere dealer adjust it.

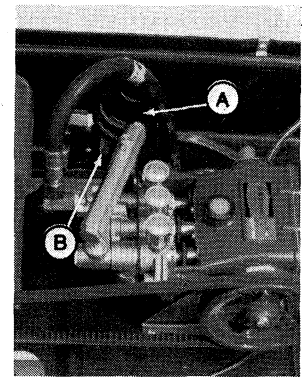
If fluid withdrawal from the reservoir becomes erratic, remove hard water scale from the valve as follows:

NOTE: Before removing cap (B), scribe a mark on cap and body, so cap can be reinstalled to same tightness eliminating need of having valve adjusted.

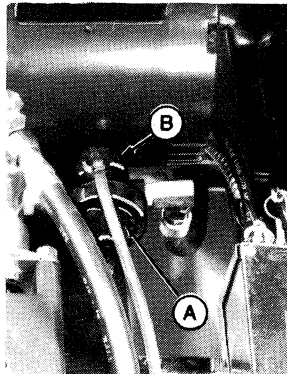
1. It may be necessary to reposition flow control valve (A) to gain clearance for removing cap (B).



A22 Washer



A25 Washer



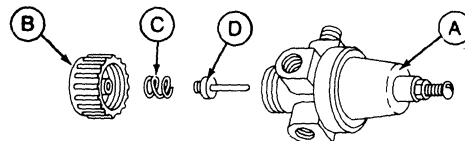
A40 Washer

TY7117/A22AA/92181

TY7113/A22AA/92181

TY7119/A22AA/92181

2. Remove spring (C) and valve (D). Clean scale from valve.
3. Clean scale from inside cap (B) where valve fits.
4. Clean scale from body where valve fits.
5. Reassemble valve by installing spring (C) over center of cap (B) and valve (D) on top of spring.
6. Install cap with spring and valve, and tighten to match scribe marks.
7. If flow control valve position was disturbed (to remove cap), return valve to original position.



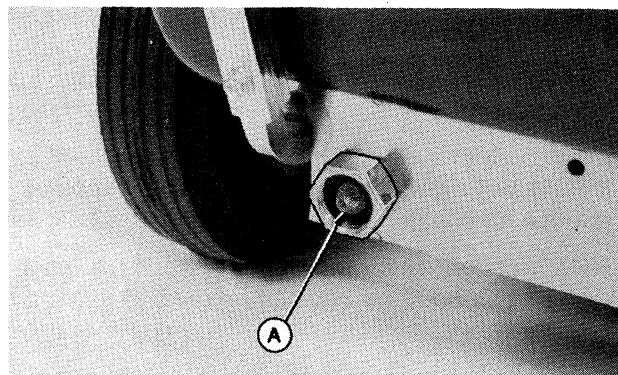
A - Flow Control Valve
B - Cap
C - Spring
D - Valve

TY7120/A22AB/92181

WATER INLET SCREEN

Inspect the cone-shaped screen (A) in the water inlet fitting periodically for build-up of scale, grit, etc., and clean if necessary.

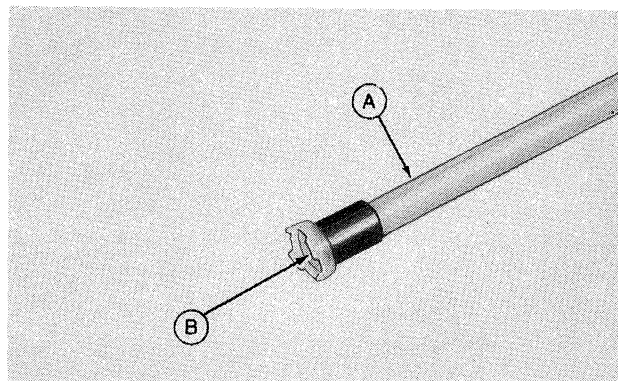
Replace screen with cone-end pointing out.



TY7121/A22AC/92181

RESERVOIR PICKUP HOSE SCREEN

Periodically, remove the pickup hose (A) from the reservoir. Inspect the screen (B). If plugged, remove the holder with screen, and back flush screen with water. If the screen is corroded or broken, replace it.



TY2111/92181

PUMP PLUNGER SEALS

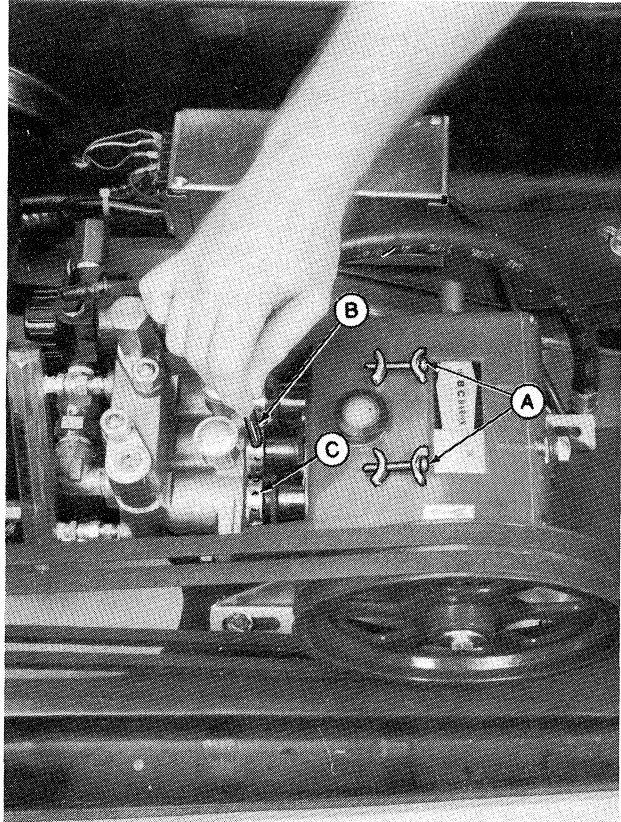
The pump plunger seals have to be tightened if the pump is fluctuating, pulsating, or leaking badly.

To tighten seals:

1. Remove gland retainer (A).
2. Tighten seals, using the special wrench (B) provided. Each packing gland (C) is to be tightened by working the gland back and forth — gradually tightening gland until it is snug.

NOTE: A slight seepage around the plungers will allow water to lubricate the back side of the seals resulting in longer seal life.

3. Replace gland retainer.



TY7122/A22AD/92181

DRIVE BELT TENSION ADJUSTMENT

NOTE: The A22 and A25 High-Pressure Washers have one pump drive belt and the A40 High-Pressure Washer has two.

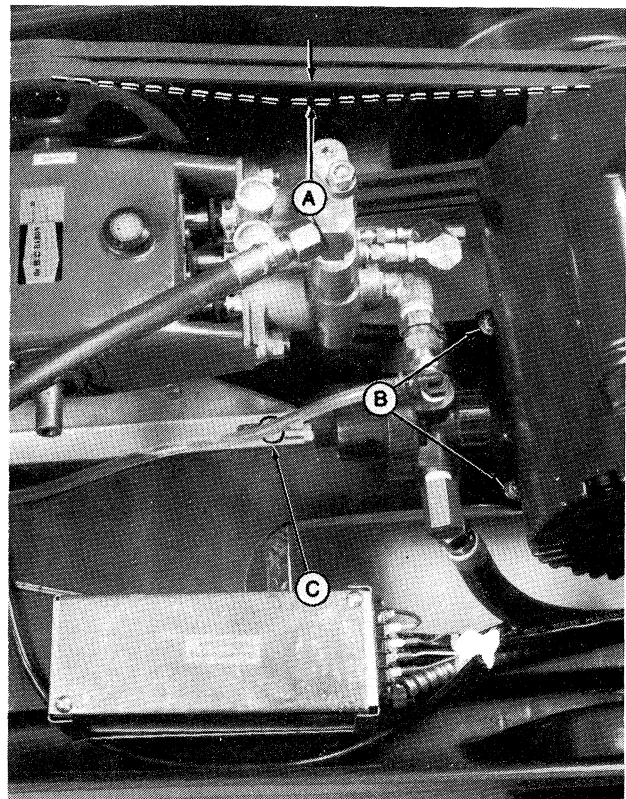


Disconnect power cord before checking or adjusting drive belt tension.

Periodically check the tension on the pump drive belt(s). When properly tensioned, the belt(s) should flex 1/2-inch (12.7 mm) when a force of 25 pounds (111 N) is applied midway (A) between the drive and driven sheaves.

To adjust belt tension:

1. Loosen motor mounting bolts (B) and slide motor evenly toward rear of washer to increase belt tension.
2. Tighten motor mounting bolts (B) securely.
3. If additional tensioning is required, use the adjustment provided with pump mounting bolts (C).



A40 High-Pressure Washer

TY7123/A22AE/92181

FUSE REPLACEMENT

The electrical components are protected by fuses.

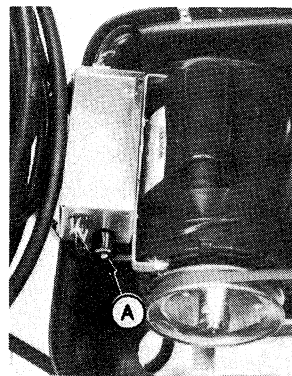
A22 - 3-Amp.

A25 - 3-Amp.

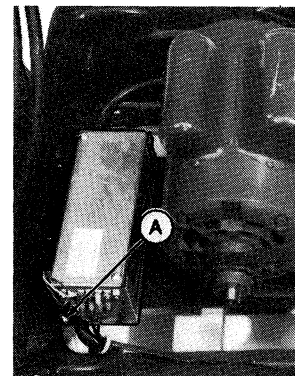
A40 - 6-Amp.

To replace fuse:

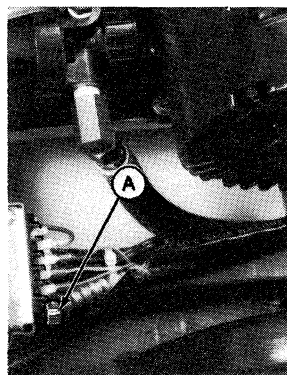
1. Turn fuse holder cap and remove fuse.
2. Replace with new fuse.



A22 Washer



A25 Washer



A40 Washer

TY7124/A22AF/92181

TY7125/A22AF/92181

TY7126/A22AF/92181

Storage

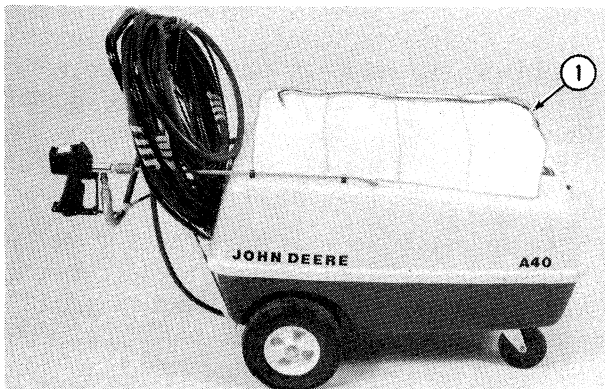
PREVENT FREEZING

IMPORTANT: Unless protected, washer components will be severely damaged by freezing temperatures. Simple draining will not remove all the water.

1. Empty reservoir; then, mix a 50-50 solution of permanent anti-freeze and water (approximately 1 quart [0.95 L]) in reservoir.



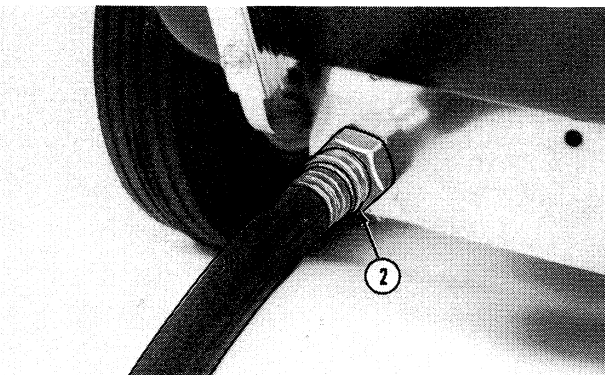
CAUTION: If the washer will be used where food is prepared, stored, or consumed, or where sanitation is required, use a non-toxic anti-freeze.



TY7127/A22AG/92181

2. Make certain washer is primed. Turn off water supply. Leave the supply hose connected to washer.

3. (Not illustrated.) Place reservoir pickup hose in anti-freeze solution.



TY7128/A22AH/92181

Storage

4. Run washer on "SOAP" cycle, depressing and releasing trigger several times, until all anti-freeze solution is drawn from reservoir. The anti-freeze solution will be drawn into the flow control valve, relief valve, and pump. If washer does not draw on "SOAP" cycle, washer is not primed or soap adjust valve is closed.

5. Disconnect water inlet supply hose at rear of washer. Run washer on "RINSE" cycle until air instead of anti-freeze solution starts coming out of wand. Shut off washer immediately. Any fluid remaining in the washer will be the anti-freeze solution which will protect the washer from freezing.



TY7129/A22AI/92181

REMOVE FROM STORAGE

Purge washer of anti-freeze solution before using.

Prime washer as described in "Prepare the Washer" section.

Accessories

SPRAY DETERGENT #1

Spray Detergent #1 is a top-quality spray cleaner for general washing. It provides excellent results in removing heavy agricultural and industrial dirt and grime. It will not harm paint or stainless steel and leaves a sparkling finish.

Use caution on unprotected aluminum or other reactive metals, since it may cause staining or dulling of the finish. If in doubt, test it on a hidden area.

NOTE: Do not use the detergent in an area where it will run into a septic tank.

Detergent is available in the following packaging:

TY8197 Spray Detergent, 10 1-pound (0.45 kg) bags

TY8198 Spray Detergent, 50-pound (22.7 kg) drum

TY8199 Spray Detergent, 100-pound (45.4 kg) drum



TY3551Y/92181

DETERGENT ADDITIVE

The Detergent Additive contains a wetting agent that aids cleaning power by making grime more soluble and gives an extra boost to the detergent to help remove oil film, scum, industrial smoke and carbonaceous deposits.

Order from your John Deere dealer:

TY8200 Detergent Additive, 1 quart (0.95 L)



TY3553/92181

GERMICIDAL SANITIZER

The Germicidal Sanitizer contains a surface-active agent that retards bacteria fungi. It does an effective job in lowering the bacteria count in livestock and feed handling equipment, farrowing houses, refuse containers, kennels, swimming pools, refrigeration cars, rest rooms, hospitals, supermarkets, food service areas, food processing plants, and in other areas requiring deodorizing and sanitizing.

Order from your John Deere dealer:

TY8201 Germicidal Sanitizer, 1 gallon (3.8 L)



TY3553/92181

SPRAY WAX

John Deere Spray Wax is a liquid wax especially developed for use in high-pressure washers. It gives a tough, long-lasting finish to any painted metal finish.

The spray wax is available in the following packaging:

PT565 Spray Wax, 1 gallon (3.8 L)

PT591 Spray Wax, 1 quart (0.95 L)



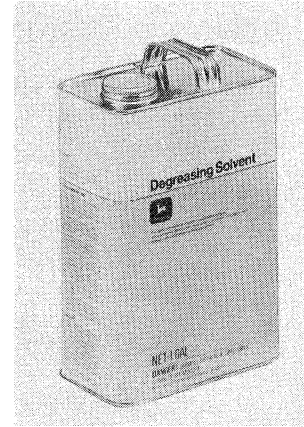
TY3554/92181

DEGREASING SOLVENT

John Deere Degreasing Solvent is an emulsifiable solvent used for loosening grease, tar, creosote, asphalt and other petroleum-derived soils.

NOTE: Degreasing solvent cannot be economically applied through high-pressure washers. Excessive loss will occur due to spray blow-off caused by high-pressure. Apply it with a brush or a separate low-pressure sprayer.

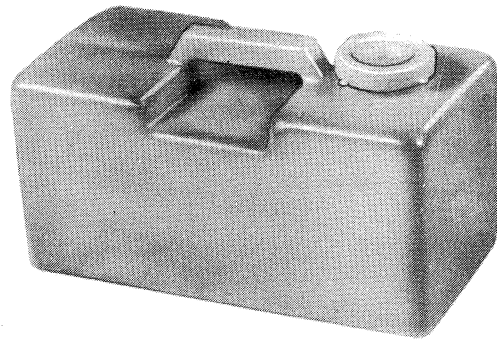
The degreasing solvent is available by ordering PT563 1 gallon (3.8 L) container.



TY3555/92181

AUXILIARY RESERVOIR

Order an auxiliary reservoir (TY8145) for use when switching from one chemical to another.



TY3606/A22AJ/92181

DISCHARGE HOSE EXTENSIONS

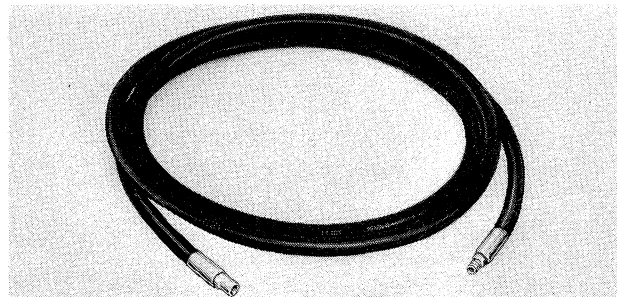
Available extensions are:

A22 - TY7565 30-Foot (9.1 m)

A25 - TY7565 30-Foot (9.1 m)

A40 - TY7563 50-Foot (15.2 m)

NOTE: Wire from electrical container to gun must also be extended.



TY3185/A22AK/92181

WAND EXTENSIONS

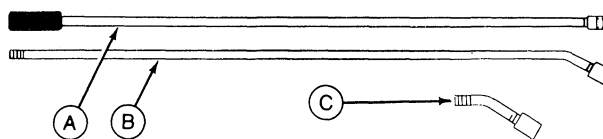
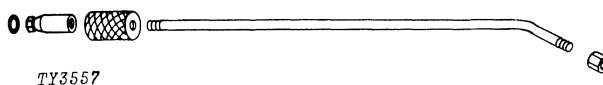
The standard cleaning wand (TY7708) is 2-feet (61 cm) long. An optional 4-foot (1.2 m) wand (TY8033) is available.

Also available is an 8-foot (2.4 m) wand assembly (TY7721). It consists of:

- A - one 4-foot (1.2 m) straight section with knurled nut.
- B - one 4-foot (1.2 m) extension with 15-degree bend.
- C - one 15-degree adapter.

The 8-foot (2.4 m) wand assembly can be converted to use a 4-foot (1.2 m) straight wand by inserting the 15-degree adapter (C) into the end of the straight wand.

For an 8-foot (2.4 m) reach, remove the 15-degree adapter (C) and install the 4-foot (1.2 m) wand extension (with the 15-degree bend) (B) into the coupling on the straight 4-foot (1.2 m) wand (A).

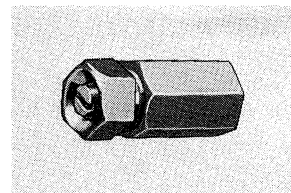


TY3557/92181

TY3558/92181

SINGLE-JET NOZZLES

The standard nozzle is a 40-degree spray (TY7639) which acts much like a brush, but with medium action.



TY3559/92181

Accessories

0-degree, actually "drills" away dirt and grime on engines and air conditioning coils. Order from your John Deere dealer.

A22 - TY8158

A25 - TY8186

A40 - TY7719

15-degree, use for stripping or cutting through heavy grease and mud on transmission housings, farm equipment, etc. Order from your John Deere dealer:

A22 - TY7715

A25 - TY7851

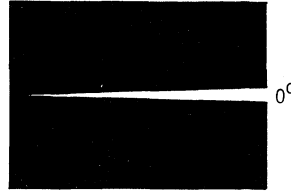
A40 - TY7852

25-degree, acts much like a stiff bristle brush on soiled areas and removes greases, fats, and other material tough to loosen. Order from your John Deere dealer:

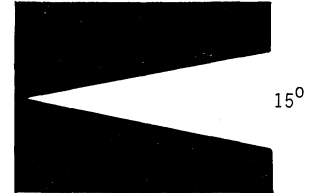
A22 - TY7716

A25 - TY7853

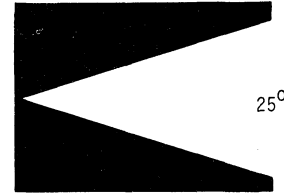
A40 - TY7854



0°



15°



25°

TY3560/A22AL/92181

TY3561/A22AL/92181

TY3562/A22AL/92181

The nozzles are stamped with the degree and code number.

Use the appropriate chart for your washer to identify nozzle part number.

A22 NOZZLE IDENTIFICATION	
Degree and Code No.	Part No.
0°-.60	TY8158
15°-.55	TY7715
25°-.55	TY7716
40°-.55	TY7640

A25 NOZZLE IDENTIFICATION	
Degree and Code No.	Part No.
0°-.65	TY8186
15°-.60	TY7851
25°-.60	TY7853
40°-.60	TY7855

A40 NOZZLE IDENTIFICATION	
Degree and Code No.	Part No.
0°-.80	TY7719
15°-.75	TY7852
25°-.75	TY7854
40°-.75	TY7856

TY7130/A22AM/92181

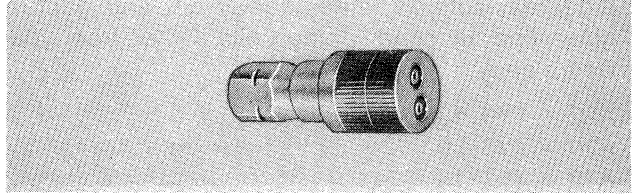
DUAL-JET NOZZLES

In conditions where a 0-degree spray nozzle is desirable for frequent use, order a Dual-Jet Nozzle which enables you to switch quickly between 40 and 0-degree sprays.

A22 - TY8208

A25 - TY8209

A40 - TY8210



NOTE: *Internal stops may be damaged if tools are used when switching from one setting to the other.*



CAUTION: Turn off washer before changing Dual-Jet Nozzle from one setting to the other. This will protect fingertips from possible exposure to high-pressure spray.

TY3190/A22AN/92181

Specifications

	A22	A25	A40
Electric Motor	120-volt, 15 amp, single-phase, 60 Hertz, 1-horsepower, (746 W), 1725 rpm w/automatic reset thermal overload protection.	120-volt, 15-amp, single-phase, 60 Hertz, 1-1/2 horse-power, (1119 W), 1725 rpm w/automatic reset thermal overload protection.	240-volt, 18-amp, single-phase, 60 Hertz, 3-horsepower (2238 W), 1725 rpm w/automatic reset thermal overload protection.
Electrical Power Supply	Voltage at motor terminals must be 108 to 132-volts.	Voltage at motor terminals must be 108 to 132-volts.	Voltage at motor terminals must be 216 to 264-volts.
Power Cord	50-foot (15.2 m), 14 gauge, 3 wire conductor.		
Pump	2.1 gpm (7.9 L/m), 2-plunger, positive displacement, belt-driven, 600 to 625 psi (4136 to 4309 kPa).	2.6 gpm (9.8 L/m, 3-plunger, positive displacement, belt-driven, 700 to 750 psi (4826 to 5151 kPa).	4.2 gpm (15.9 L/m), 3-plunger, positive displacement, belt-driven, 1000 to 1100 psi (6895 to 7584 kPa).
Proportioner Ratio	Variable with sight gauge flow meter.		
Water Pressure	Does not require any given pressure. Will operate on gravity flow if water source is level with or higher than pump.		
Water Volume	2.5 gpm (9.5 L/m)	3 gpm (11.4 L/m)	5 gpm (18.9 L/m)
Discharge Hose	1/4-inch x 30-foot (std.) (6.4 cm x 9.1 m), 1/4-inch x 50-foot (opt.) (0.64 cm x 15.2 m), 4000 psi (27 597 kPa) burst pressure	1/4-inch x 30-foot (std.) (6.4 cm x 9.1 m), 1/4-inch x 50-foot (opt.) (0.64 cm x 15.2 m), 4000 psi (27 597 kPa) burst pressure	3/8-inch x 50-foot (std.) (0.96 cm x 15.2 m) 3/8-inch x 50-foot (opt.) (0.96 cm x 15.2 m), 4200 psi (28 958 kPa) burst pressure
Cleaning Wands	2-foot (61 cm) length (std.), 4-foot (1.2 m) length (opt.); also 8-foot (2.4 m) assembly consisting of: 4-foot (1.2 m) straight wand, 4-foot (1.2 m) extension with 15-degree bend, and 15-degree adapter.		
Spray nozzles	40-degree (std.), also 0, 15, and 25-degree nozzles, and Dual-Jet, 0 and 40 degree (opt.)		
Case	A.B.S. (Acrylonitrile Butadiene Styrene) (same plastic used in football helmets.)		
Reservoir	2-1/2 gal. (9.5 L) polyethylene (one)	2-1/2 gal. (9.5 L) polyethylene (three)	2-1/2 gal. (9.5 L) polyethylene (four)
Wheels	8-in. (20.3 cm) semi-pneumatic heavy-duty, and heavy-duty 4-in. (10.2 cm) caster.	10-in. (25.4 cm) semi-pneumatic heavy-duty, and heavy-duty 5-in. (12.7 cm) casters.	10-in. (25.4 cm) semi-pneumatic heavy-duty, and heavy-duty 5-in. (12.7 cm) casters.
Weight (approx.)	100 pounds (46 kg)	165 pounds (75 kg)	245 pounds (112 kg)
Dimensions			
Length	35-inches (89 cm)	40-inches (102 cm)	50-inches (127 cm)
Width	33-inches (84 cm)	33-inches (84 cm)	33-inches (84 cm)
Height	21-inches (53 cm)	26-inches (66 cm)	27-inches (68 cm)

(Specifications and design subject to change without notice.)

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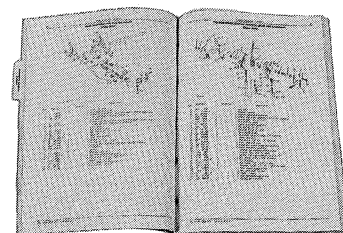
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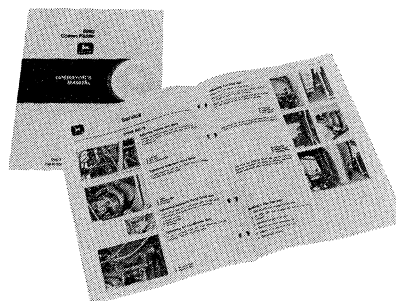
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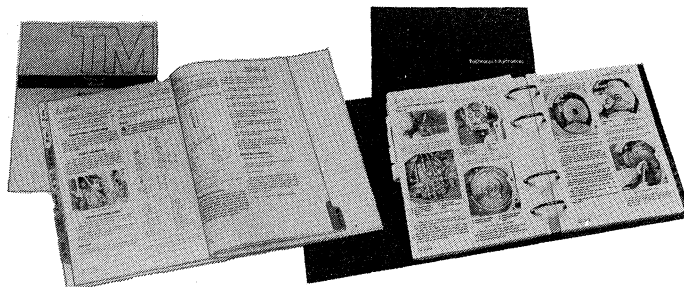
A parts catalog containing exploded view illustrations and lists of all parts is useful when purchasing service parts. Helps identify the correct parts. Useful in assembling and disassembling.

OPERATOR'S MANUAL



An extra copy of the operator's manual may be important if the copy furnished with your machine is misplaced.

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