

amida® **WHITEMAN**

Power Buggy® Owners Manual & Parts List

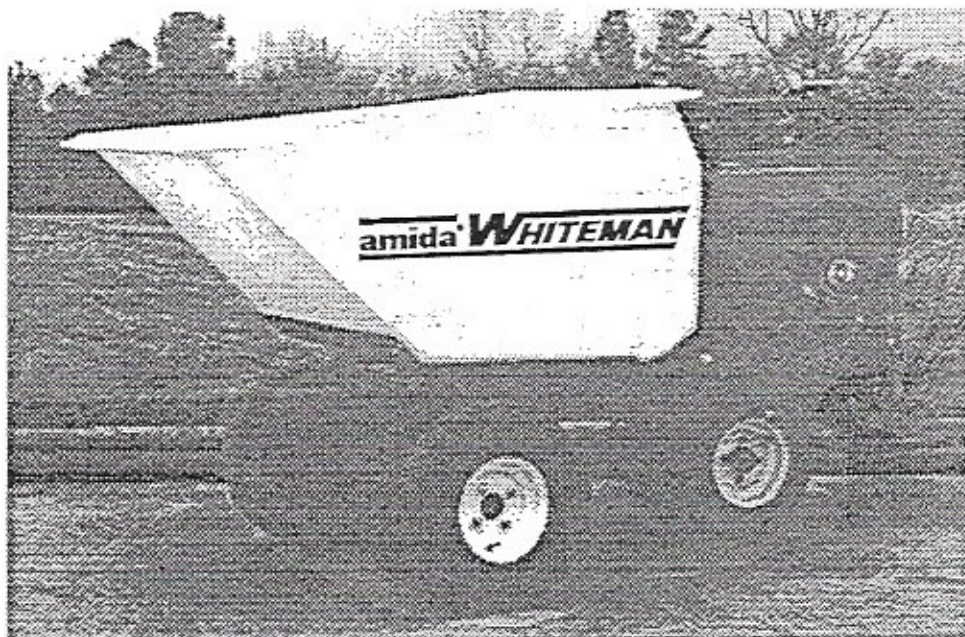
WAPB-12

WAPB-16

WAPB-16E (electric start)

For Machines with Serial #9501-27301 and later.

Original



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amida® **WHITEMAN**

Power Buggy®

BEFORE OPERATING YOUR WHITEMAN POWER BUGGY, READ THE FOLLOWING MAINTENANCE, CARE, AND OPERATING INSTRUCTIONS.

Specifications

Models: WAPB-12, WAPB-16, WAPB-16E

Wheelbase: 38"

Overall Length: WAPB-16 97"

WAPB-12 91"

Overall Width-dual wheels: WAPB-16 44"

Overall Width-single wheels: WAPB-12 34"

Overall Height: 46"

Unloaded Wgt: WAPB-12 850 lbs.

WAPB-16 900 lbs.

Ship. Wgt: Palletized WAPB-12 960 lbs.

WAPB-16 1050 lbs.

Bucket Capacity: 16 cu. ft. water level (.59 cu. yd.)

Bucket Capacity: 12 cu. ft. water level (.44 cu. yd.)

Capacity Weight-dual wheels: 2600 lbs.

Capacity Weight-single wheels: 1500 lbs.

Engine: WAPB-16 (11 hp. Honda)

WAPB-12 (8 hp. Honda)

Starting: Recoil Start or Electric (optional WAPB-16)

Drive Wheels: Full Hydrostatic Drive

Speed: Up to 7 m.p.h. Forward and Reverse

Steering: Handle Bars to Rear Wheels

Brakes (drive wheels): Mechanical

Parking Brake (drive wheels): Mechanical

Dump Control: Full Hydraulic Dump and Return

Turning Radius: 51"

Tires (drive wheels): 5.70 x 8

Tires (steering): 4.80 x 8

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Parts List Abbreviations

The following Abbreviations are used in the Parts List :

HHCS - Hex Head Cap Screw

PHSTS - Pan Head Self Tapping Screw

SQHSS - Square Head Set Screw

SHSS - Socket Head Set Screw

PHSBMS - Pan Head Slotted Brass Machine Screw

FHSCS - Flat Head Socket Cap Screw

SHCS - Socket Head Cap Screw

RHMS - Round Head Machine Screw

HSN - Hex Slotted Nut

BHCS - Button Head Cap Screw

Maintenance and Care

Engine

Refer to engine owners manual for specific information.

Check oil in your engine after every 10 hours of operation and keep filled to the level of the oil filler hole.

Drain oil after every 50 hours of operation and refill with grade of oil recommended below:

Above 40 Deg F. (13 Deg C.) - S.A.E. 30

Below 40 Deg F. (13 Deg C.) - S.A.E. 20

Power Train

Check the Hydraulic oil level in the tank, using the dip stick mounted on the filler cap and keep filled to the filler hole with EXXON Nuto #H68 Hydraulic oil or equivalent. Replace after every 200 hours. The Hydraulic Oil Filter should be changed each time the Hydraulic Oil is changed. This is a farm implement type filter (Parker - 925023 25C) obtainable from your local farm implement store or Amida Industries.

The Hydraulic drive motors are extremely reliable and ordinarily will not need maintenance or repair. Should trouble develop in the Hydraulic drive motors, it is suggested that the dealer's service department be called. If such service is not available, from your dealer, please call Amida Industries at (800)433-3026 for further instructions. The Hydraulic drive motors are manufactured by White Hydraulics and may be serviced at their dealers and other service centers handling their equipment. Amida Industries will direct you to the proper place for repairs. In the event a vibration is experienced when the engine is running, check the coupler between the engine and the Hydraulic Pump. Do not make this check while the engine is running, and it will be necessary to remove the fan shroud. After adjusting and tightening the coupler, REPLACE the fan shroud and then start engine to see if the problem has been corrected. DO NOT run the engine or operate the Buggy with the fan shroud removed or not firmly attached.

Chassis Lubrication

Lubricate your buggy each day of operation with a good grade of chassis lubricant at all of the lubrication points listed below.

- (4) Fittings - Tub Bearing Pivot Blocks (Underside of Tub: see page 7 & page 19)
- (1) Fitting - Steering Bearing Flange (Frontside of Handle Bar: see page 17)

Remove rear wheel hubs and repack bearings after every 400 hours of operation.

Brake Adjustment

The brakes on your Amida Power Buggy must be properly adjusted at all times for your safety. Before using the Buggy, check the operation of the foot brake, located on the right side of the Buggy. Be sure its engaging properly. Adjustment can be made on the brake linkage rod located on the right side of the Buggy. Place the Parking Brake Lever in the engaged position.

The parking brake should then be adjusted so that the Buggy will not move. Adjustment is provided by a knob on the end of the Parking Brake Lever and the adjustment may be tightened by turning the knob clockwise. Adjust sufficiently tight so that when Parking Brake Lever is actuated, considerable pressure is required to place it in the over-center or "On" position. With the Parking Brake engaged, you should not be able to move the Buggy.

Tires

The Wheels and Tires of your power buggy are very important to its effective operation. They should be checked regularly to make certain that the lug nuts are tight and the tires inflated to 50 lbs. air pressure. In the event you experience a puncture of the tire and tube, certain precautions must be observed in its repair, as follows:

1. Securely block and support the Buggy, remove lug nuts.
2. Repair or replace tire.
3. Place Wheel and Tire assembly in a suitable cage or restraint to keep it captive, then inflate tire to no more than 50 lbs. air pressure.
4. Reinstall on Buggy, making certain that lug nuts are tight.

Starting Instructions

Before starting engine, refer to engine owners' manual, and follow the steps below.

1. Engage Parking Brake and attempt to rock Buggy. If wheels turn during rocking motion adjust brakes as set forth in the Maintenance and Care Instructions.
2. Select Engine operating speed control to the Idle position.
3. Check Speed Control linkage located on right handle bar. Speed Control should work freely and return to closed position when released. If operation of Speed Control is not free, do not attempt to start engine until corrected.
4. Turn on fuel control valve if your particular engine is so equipped.
5. Set Choke as recommended in the Engine Manufacturers Manual.
6. Pull Rope Starter or engage Electric Starter if so equipped.
7. When engine has started, allow to warm at an idle until operating temperature is reached before applying heavy loads.

After engine has warmed to operating temperature make the following checks:

1. In a level, open area, with Direction Selector in Forward position, and Parking Brake engaged, again check for free speed control operation. If operation of Speed Control is not free, do not attempt to operate buggy until corrected.
2. Set engine at an idle, and Parking Brake engaged, place direction selector lever to forward position. Slowly activate speed control slightly, for a short period of time to test the Brake holding capacity. If the Power Buggy will move, adjust the Brake in accordance with the Maintenance and Care Instructions. If the Power Buggy does not move, release the speed control and disengage the Parking Brake. If Buggy tends to creep, adjust the pump control lever stop (refer to page 9 item 10) until the creeping is eliminated.
3. At a slow speed, operate Buggy and become familiar with its Speed Control operation, Brake operation, and Steering.
4. If Buggy is to be used over rough terrain, place the Step Plate in its upright position, and check to make certain that the mounting bolts are sufficiently tight to retain it in that position. It is recommended that the operator walk behind the buggy in rough terrain rather than ride on the Step Plate to avoid sharp and severe jolts. There is no type of shock absorbing mechanism other than the Pneumatic Tires on this Buggy.

The Concrete Tub is operated hydraulically. The control for this is located on the left side of the steering handle bar, protruding through the engine shroud. For hand operation, push the handle forward and the Concrete Tub will commence to tip forward for dumping. Release the handle and the Tub will remain in that position until the handle is activated further. Pull back on the lever and the Concrete Tub will return to its travel position. DO NOT move Buggy unless Concrete Tub is returned to its travel or flat position. The Concrete Tub may also be operated by a foot lever located on the left side (WAPB-16 only). Raise the lever with the toe of your foot to dump and step on the lever to return the Tub to its travel position.

When the use of the Whiteman Power Buggy has been completed for the day, the Tub and Shroud should be cleaned of any residue and the remainder of the Buggy cleaned to prevent interference, by dried concrete, of operation of the Speed, Brake and Dumping controls.

Safe Buggy Operation

For safe operation of these buggies, you must be a qualified and authorized operator. To be qualified, you must understand these written instructions, have training, including actual operation of the buggy and know the safety rules and regulations for the jobsite.

An operator should not use drugs, alcohol or any other substance which can change his alertness or coordination. An operator on prescription or over-the-counter drugs needs medical advice on whether or not he can safely operate buggies.

Safety Rules

Exhaust fumes are lethal! Do not operate in an enclosed area. Proper ventilation is essential.

Never modify or remove any part of the equipment.

Make certain that the step is either down or securely latched in the upright position, and is in the proper position for either walking behind or riding.

Keep others away from your operation.

Do not overload the buggy.

Always set parking brake before dismounting.

If buggy is to be unattended, shut off engine, cycle hydraulic controls, and remove ignition key.

Make sure you understand the rules covering traffic at your jobsite. Make sure you know what all signs, flags and markings mean. Make sure you understand hand, flag, whistle, siren or bell signals.

Protect Yourself

Wear all the protective clothing and personal safety devices issued to you or called for by job conditions. You may need:

A hard hat	Wet weather gear
Heavy gloves	Safety shoes
Hearing protection	Reflective clothing
Respirator or filter mask	
Safety glasses, goggles, or face shield	

Wear whatever is needed, don't take chances. Learn where fire extinguishers and first-aid or emergency equipment are kept and where to get help in a hurry. Make sure you know how to use this equipment.

Know Your Equipment

Know your buggy and where it will be operated. Know how to operate all equipment on your buggy. Know the purpose of all the controls. Know the rated load capacity, speed range, braking and steering characteristics, turning radius and operating clearances. Keep in mind that rain, snow, ice, loose gravel, soft ground, etc., change the operating capabilities of your buggy.

Study the DANGER, WARNING or CAUTION safety signs on your buggy and the information signs, too.

Read this operator's manual before starting the engine. If there is no manual with the buggy — get one! Study it before you start work.

If there is something in the manual you don't understand, ask your supervisor to explain it to you.

Safety - Before Operation

USE ALL AVAILABLE PROTECTIVE AND SAFETY DEVICES.

Keep all protective devices in place and tightly fastened. Make certain all guards, side screens or panels, and safety signs are installed on the buggy. Never remove or modify any equipment.

WARNING: *All operators must have instructions before operating buggies. For your safety, warnings are on the buggy and in the manufacturer's manual. Failure to obey warnings can cause injury or death.*

Check the Equipment

Before you begin your workday, take time to check your buggy and have all systems in good operational condition. Report all problems immediately.

Cleanup

Keep work surfaces and engine compartments clean. Clean steps, pedals and floor. Remove grease or oil. Brush away dust or mud.

In the winter, scrape away snow and ice. Remember—slippery surfaces can be hazardous.

Check the Area

Inspect the surface over which you will travel. Look for holes, dropoffs and obstacles. Look for rough spots. Look for weak spots on docks, ramps or floors. Look for oil spills, wet spots and slippery surfaces. Look for soft soil, deep mud and standing water. Watch for anything that might make you lose control or cause the buggy to tip over.

Clear away trash and debris. Pick up anything that might puncture a tire. Make sure aisles, ramps, doorways and passages are clear. Plan your work. Make sure you know where you will make your pickups, dumps and turns. Before you take a load, know where you will place it.

Check Overhead

Check the clearances of doorways, canopies and overheads. Know exactly how much clearance you have under power and telephone cables. Also check clearances when transporting your buggy on a truck or trailer.

WARNING: *Never approach power lines with any part of your buggy unless all local, state/provincial and federal (OSHA) required safety precautions have been taken. Use extreme caution.*

Mount Properly

Always use "three-point contact" with the buggy, face the buggy when you mount or leave the buggy. ("Three-point contact" means that three out of four arms and legs are in contact with the buggy at all times during mount and dismount.)

Clean your shoes and wipe your hands before climbing on.

Never use control levers as a hand-hold when climbing on or off. Never step on foot controls when mounting or climbing off.

Never mount a moving buggy.

Test the Controls

After you start up, recheck all controls. Make sure everything is functioning correctly. If the buggy does not respond correctly when each control is operated, do not use the buggy until it is fixed.

WARNING: *Be certain you can control both speed and direction before moving.*

Move slowly until you are certain everything is operating properly. After starting, recheck the steering, right and left. Be certain you have full steering and brake control.

Safety - During Operation

Capacities

Know the rated load capacities of your buggy and never exceed them. ALWAYS REFER TO BUGGY'S CAPACITY BEFORE LOADING.

Keep in mind that buggies normally operate on uneven, unpaved and often very bumpy or inclined surfaces. Operating conditions can reduce the amount you should carry.

Safe Operating Practices

Operate the controls smoothly—DO NOT jerk the steering or any controls.

DO NOT carry any tools, lunch buckets, chains or hooks. Remember - loose items on the buggy could cause an accident.

Avoid sudden stops, starts, turns or changes in direction.

Never attempt to work the controls except from operator's position.

Never leave the operator's position without first setting the parking brake, and placing controls in neutral (or park).

WARNING: *Keep all parts of your body in the operator's position while operating the buggy.*

DO NOT touch, lean on or reach through the dump mechanism or permit others to do so. HANDS OFF! Never climb on the buggy or dump mechanism.

Stay alert. Should something break, come loose or fail to operate in your equipment, stop work, shut off the engine and inspect the buggy.

Watch Out For Others

Never allow an untrained or unqualified person to operate your buggy. They could injure themselves or someone else.

WARNING: *This is a one-person buggy. Never permit riders.*

Keep others away from your operation. Never allow anyone to stand or pass in your direction of travel.

Never drive a buggy up to someone standing in front of a fixed object.

Never stand (or allow anyone else to stand) in front of, alongside of or where you intend to unload.

Know the pinch and wrap points on your equipment. Keep others away from articulation joints, lift mechanisms, cylinders, etc. Keep all shields and guards in place.

Load and Unload Safely

If possible, plan to load, unload and turn on flat level ground. When you travel with a load, keep the speed reasonable for the load and the terrain to be traveled. Buggies are less stable when traveling with the load.

WARNING: *Avoid sharp turns at high speed.*

WARNING: *Failure to abide by these precautions could result in the buggy tipping over or losing the load.*

WARNING: *If you cannot see where you are going, get someone to direct you.*

WATCH OUT FOR HAZARDOUS WORKING CONDITIONS.

IT IS YOUR RESPONSIBILITY TO EVALUATE WORKING CONDITIONS AND ADJUST YOUR OPERATION ACCORDINGLY.

When traveling over, soft ground or wet/icy surfaces, slow down.

Travel only at speeds that permit stopping in a safe manner.

WARNING: *Travel on inclines, slopes, ramps, and downgrades only as follows:*

LOADED buggy...with bucket pointed uphill!
PTY buggy ...with bucket pointed downhill!

Be sure the landing point you intend to use can safely support the load. This may not always be true in the case of scaffolds or hollow floors. If there is any question of overloading, separate the load into two or more loads. Always use a signal person if you cannot see the placement point. Use caution when placing or traveling near overhead electrical power lines, water pipes, sprinklers, steam pipes, walkways or other potential hazards. Avoid weakened or incomplete scaffolding. Stay off structurally damaged floors, dock boards and ramps. Do not leave buggy in the vicinity of ovens, furnaces or radiant heaters. Heat could raise the pressure of the fuel and open the relief blowoff valve, so that vented gas could ignite.

See Code of Federal Regulation's (OSHA) 29CFR Part 1910.178 to determine permissible areas where these buggies can be operated.

Amida buggies are equipped with a spark arrestor/spark arresting muffler and cannot be operated in areas with flammable or explosive atmospheres. Use of these buggies in these areas can result in fires and/or explosions which could cause serious injury or death.

Transporting

When transporting the buggy on a truck or trailer, know the overall height to avoid contacting overhead obstructions such as bridges, power lines, etc. Refer to page 7 of this manual (for tie-down lugs) when preparing your buggy for transport. Make sure all tie-downs and blocks are in place and bucket is completely lowered and securely latched. If your buggy is to be hauled by truck, check truck and ramp capacities.

Parking

Park your buggy in a designated area or out-of-traffic preferably on level ground. At night, pull off the road and set up flares or reflectors.

If parking on a slope or incline, position the buggy at right angles to the slope, set the parking brake, and block the wheels, if required.

If the buggy will be exposed to wet freezing weather for a period of time, the concrete tub should be placed in the dump position so that water does not collect in the tub with the possibility of freezing and breaking the tub.

Shutdown

Correct shutdown is important to safe operation. Follow these general steps.

Come to a full stop.
Set parking brake.
Idle engine for gradual cooling.
Shut off engine.
Cycle hydraulic controls to eliminate residual pressure.
Remove ignition key on electric start models.
Block wheels if on a slope or incline.

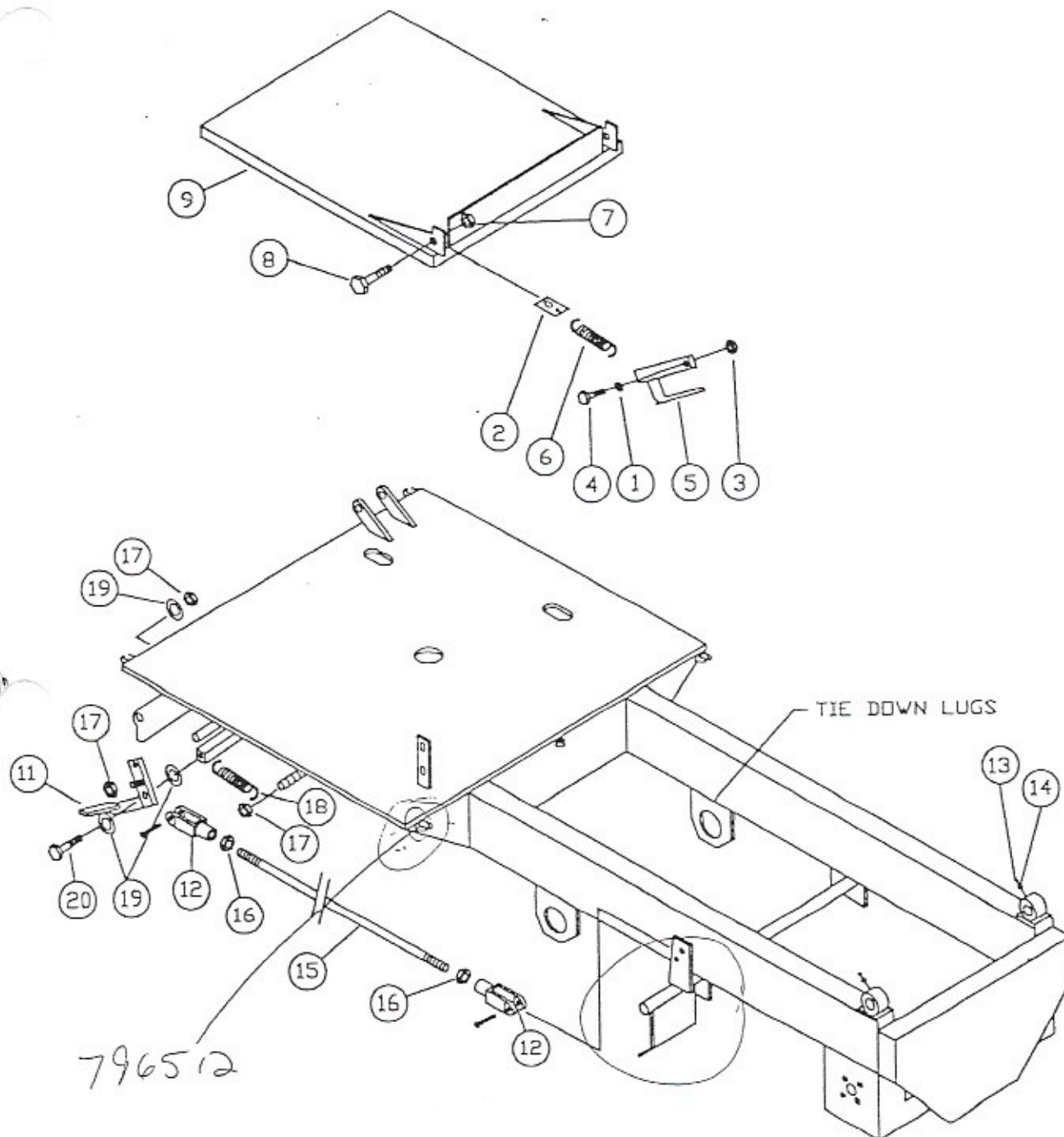
Dismounting

Never dismount from moving equipment. Observe proper shutdown practices before dismounting.

Dismount carefully using three-point contact and face the buggy. Check for slippery steps. Keep your feet and hands away from the controls. Never jump off the buggy.

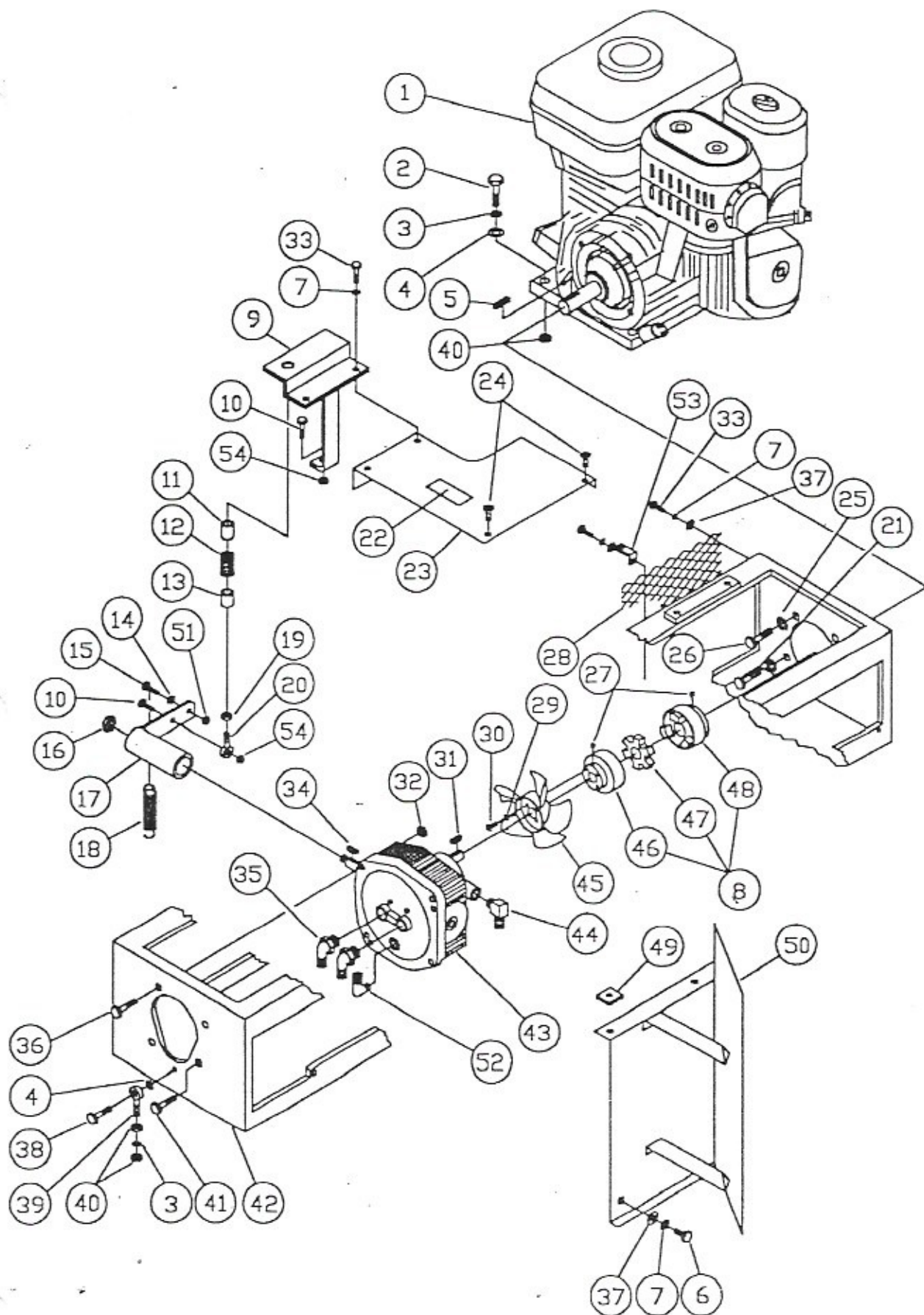
Frame - Brake System - Step Plate

Ref No.	Description	Model	Serial No.		Part No.	Qty.
			From (incl.)	To		
1	Flat Washer 3/8"				990080	1
2	Spring Tab Washer				W4779	1
3	Flexlock Nut 3/8-16				990170	1
4	HHCS 3/8-16 x 1 1/2"				995400	1
5	Riding Stand Latch				W460295	1
6	Latch Return Spring				796520	1
7	Flexlock Nut 5/8-18				980370	2
8	HHCS 5/8-18 X 1 1/2"				981560	2
9	Riding Stand				W460255	1
10	Frame Assembly				W460280	1
11	Brake Pedal				W460265	1
12	Yoke End w/Pin				796400	2
13	Grease Fitting Cap				796555	2
14	Grease Fitting (press-in)				796580	2
15	Brake Linkage Rod				W470785	1
16	Hex Nut 3/8-24				981115	2
17	Flexlock Nut 1/2-20				981175	3
18	Brake Return Spring				796010	1
19	Flat Washer 1/2"				990210	1
20	HHCS 1/2-20 x 6"				981710	1



When ordering parts be sure to give model and serial numbers

Ref No.	Description	Model	Serial No.		Part No.	Qty.
			From (incl.)	To		
1	Honda GX340 11 hp. Pull Start	WAPB-16			732055	1
1	Honda GX340 11 hp. Electric Start	WAPB-16E			732056	1
1	Honda GX240 8 hp. Pull Start	WAPB-12			732045	1
2	HHCS 5/16-24 x 2"				981220	4
3	Lock Washer 5/16"				990460	5
4	Flat Washer 5/16"				981070	6
5	Key 1/4" x 1/4" x 2 3/8"				510505	1
6	HHCS 1/4-20 x 1/2"				981890	4
7	Lock Washer 1/4"				990400	7
8	Coupling Kit w/Insert & Set Screws				W8016	1
9	Control Cable Mount				W8454	1
10	HHCS 1/4-20 x 1"				981855	2
11	Spring Mount Upper				W8455	1
12	Return Spring Upper				796535	1
13	Spring Mount Lower				W8456	1
14	Hex Nut 5/16-18				981885	1
15	HHCS 5/16-18 x 1 1/2"				981250	1
16	Flexlock Nut 1/2-13				990200	1
17	Pump Control Lever				W8452	1
18	Return Spring Lower				796570	1
19	Hex Nut 1/4-28				981225	1
20	Rod End 1/4-28 Female				796560	1
21	HHCS 3/8-16 x 1 1/4"				991761	1
22	Decal " Caution Fan"				853145	1
23	Fan Cover				W8120	1
24	PHSTS 1/4 x 1/2"				980470	2
25	Lock Washer 3/8"				990470	4
26	HHCS 3/8-16 x 1 1/2"				995400	3
27	SHSS 3/8-16 x 1/2"				981915	2
28	Fan Mesh Guard				W8246	1
29	Flat Washer #10				994990	2
30	RHMS #10-24 x 5/8"				981895	2
31	Woodruff Key #9				760545	1
32	Flexlock Nut 3/8-24				980300	4
33	HHCS 1/4-20 x 3/4"				996220	4
34	Woodruff Key #5				760540	1
35	Elbow Body 90 Deg Straight Thrd				898235	2
36	HHCS 3/8-24 x 3 1/2"				981930	2
37	Flat Washer 1/4"				990340	2
38	HHCS 5/16-24 x 1 1/2"				981045	1
39	Rod End 5/16-24 Male				796540	1
40	Hex Nut 5/16-24				981055	6
41	HHCS 3/8-24 x 3 1/4"				981905	2
42	Hydualic Pump Mount				W8015	1
43	Hydualic Pump				760515	1
44	Elbow 90 Deg Straight Thrd				898260	1
45	Fan Blade				W8041	1
46	Coupling 3/4" Bore				760630-1	1
47	Coupling Insert				W8117-1	1
48	Coupling 1" Bore				760625	1
49	U-Clip #14				980475	2
50	Fan Deflector				W8121	1
51	Flexlock Nut 5/16-18				991940	1
52	Elbow Body 90 Deg				898265	1
53	Bracket				W8473	1
54	Flexlock Nut 1/4-20				990150	2

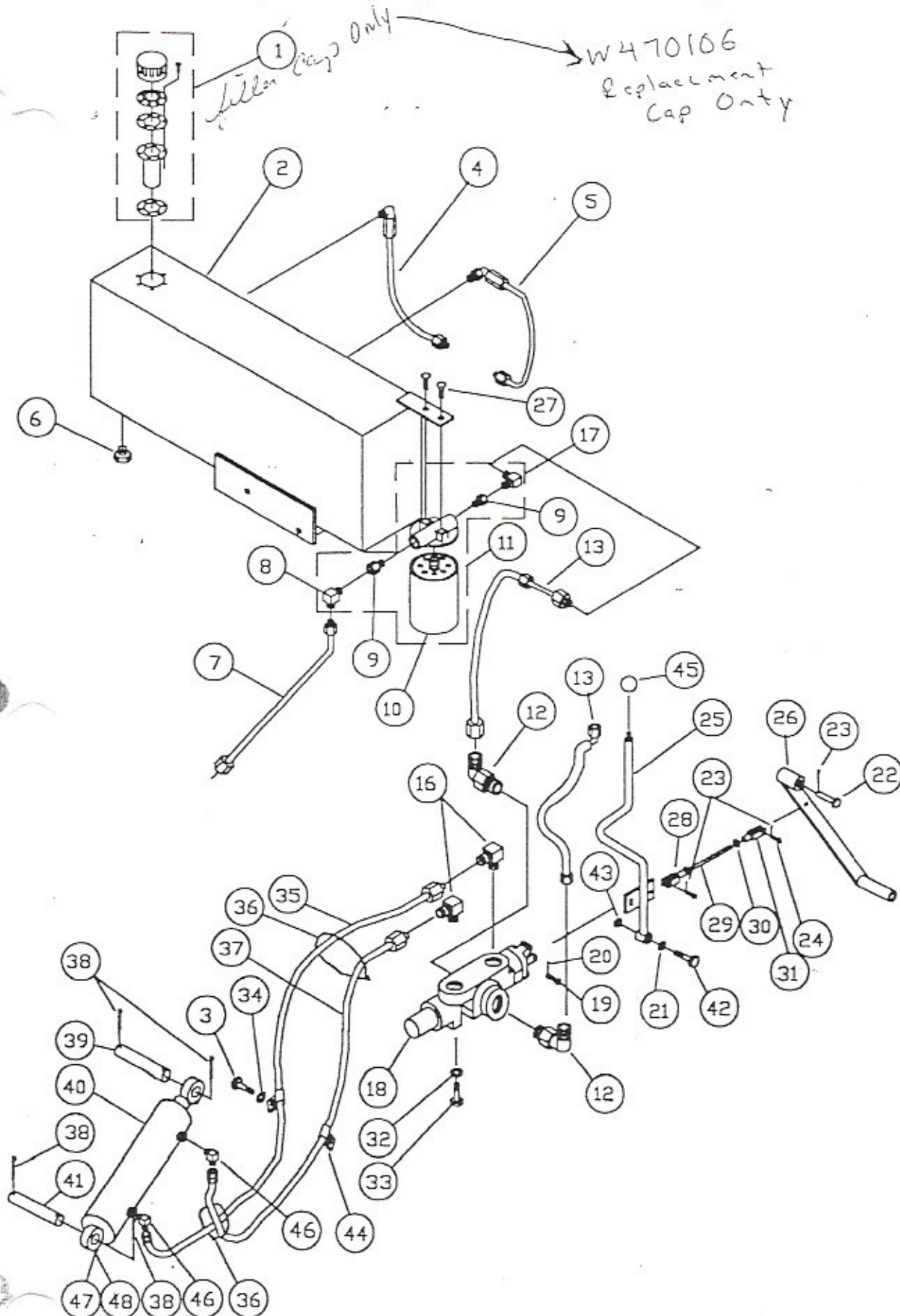


When ordering parts be sure to give model and serial numbers

Hydraulic Dump Valve & Tank Assembly

Ref No.	Description	Model	Serial No.		Part No.	Qty.
			From (incl.)	To		
					796600	1
	Oil Tank Filler Assembly				W460300	1
2	Oil Tank				981030	1
3	HHCS 5/16-24 x 3/4"				W450135	1
4	Suction Line Assembly				W450130	1
5	Pump Case Drain Line Assembly					
					898290	1
6	Hex Plug w/O-Ring				W8475	1
7	Oil Filter Return Line Assembly				898280	1
8	Elbow 90 Deg Male				898275	2
9	Bushing 3/4" x 1/4"				W8163	1
10	Hydraulic Filter					
					W450075	1
11	Filter and Head Assembly w/Fittings				898375	1
12	Elbow 90 Degree Male				W8075	1
13	Dump Valve Hydraulic Line Assembly				833220	
14	Valve Seal Repair Kit (Not Shown)				833216	
15	Valve Spring Cover (Not Shown)					
					898380	2
16	Elbow 90 Deg Male				A2018162	1
17	Elbow 90 Deg 1/4"				897655	1
18	Dump Valve Assembly				980430	1
19	Clevis Pin 3/16" x 7/8"				980410	1
20	Cotter Pin 1/16" x 1/2"					
					980480	1
21	Flat Washer (Hardened) 1/2" x 1/32"				980425	1
22	Clevis Pin 1/2" x 2 3/4"	WAPB-16			796075	1
23	Cotter Pin 1/8" x 1 1/2"	WAPB-16			980420	2
24	Clevis Pin 3/8" x 1 1/8"	WAPB-16			W460290	1
25	Hand Dump Lever					
		WAPB-16			W460275	1
26	Foot Dump Lever				996245	2
27	BHCS 1/4-20 x 1/2"				W8079	1
28	Foot Dump Linkage Assembly	WAPB-16			W8067	1
29	Foot Dump Linkage Rod	WAPB-16			981115	2
30	Hex Nut 3/8-24					
		WAPB-16			796505	2
31	Clevis 3/8-24				990470	2
32	Lock Washer 3/8"				990440	2
33	HHCS 3/8-16 x 3/4"				981070	1
34	Flat Washer 5/16"				W8064	1
35	Dump Cylinder Hose Assembly 51"					
					683080	7
36	Large Tie Wrap				W8065	1
37	Dump Cylinder Hose Assembly 45"				990770	4
38	Cotter Pin 3/16" x 1 1/2"				W8122	1
39	Tub Cylinder Pin				W8396	1
40	Dump Cylinder					
					W470795	1
41	Frame Cylinder Pin				981280	1
42	HHCS 1/2-20 x 5"				994560	1
43	Flexdock Nut 1/2-20				796000	2
44	Cable Clamp 1/2"				796545	1
45	Knob					
					898295	2
46	Elbow 90 Deg Fitting w/O-Ring				794550	2
47	Grease Fitting 1/4-28				796555	2
48	Grease Fitting Cap					

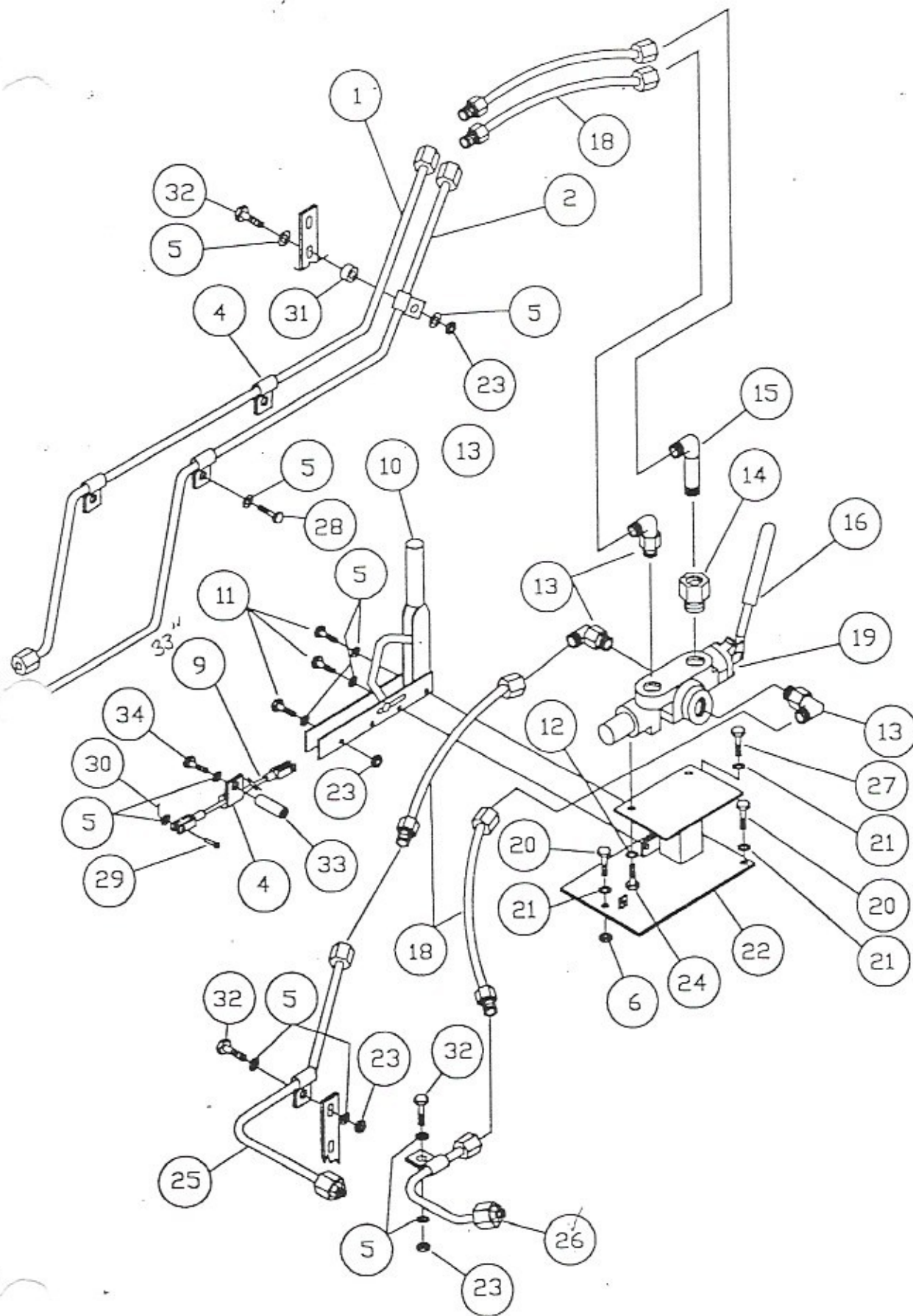
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When ordering parts be sure to give model and serial numbers

Hydraulic Drive Assembly

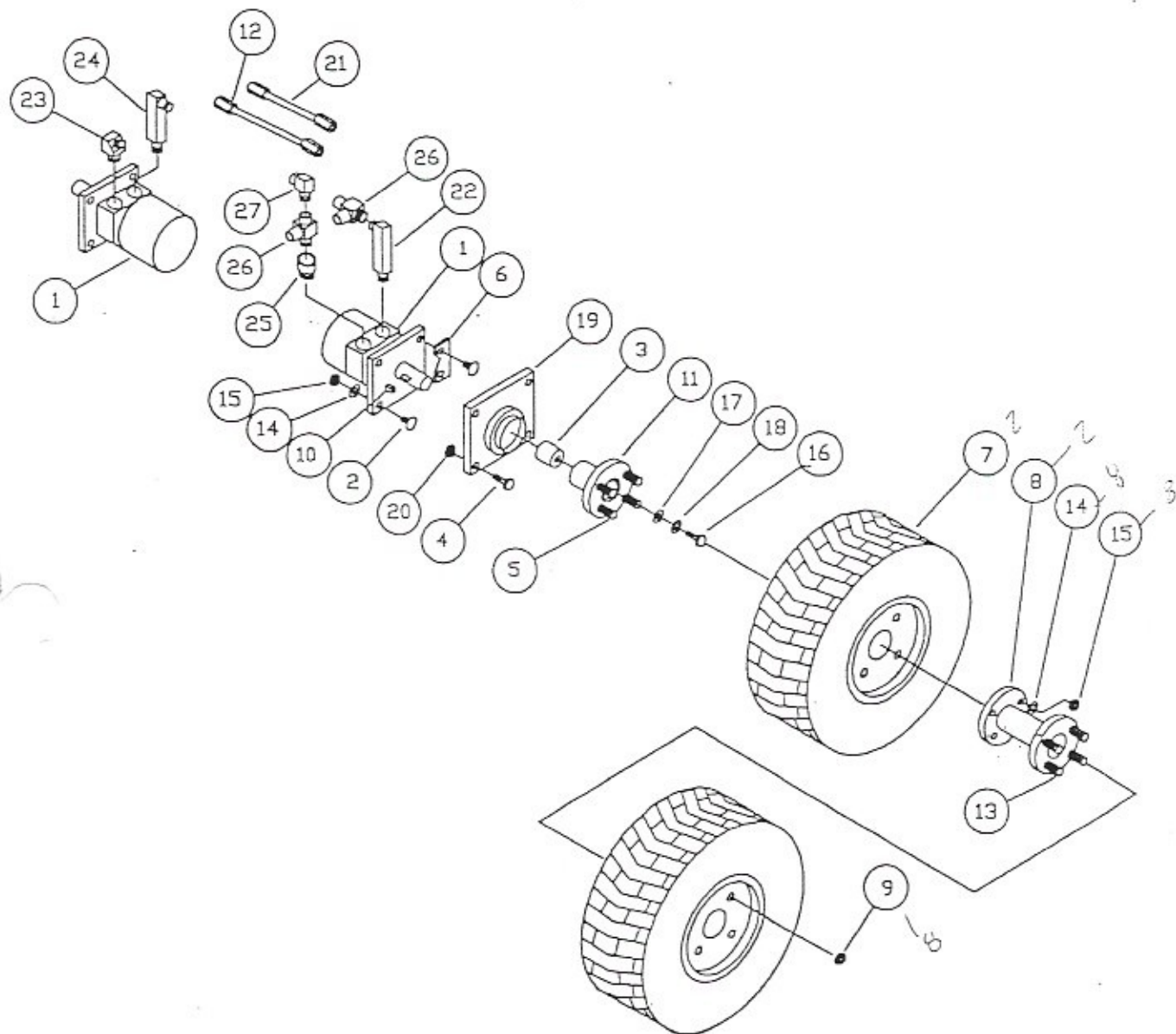
Ref No.	Description	Model	Serial No.		Part No.	Qty.
			From (incl.)	To		
	Top Hydraulic Line Assembly				W450140	1
	Bottom Hydraulic Line Assembly				W450145	1
3	HHCS 5/16-24 x 1/2"				981805	1
4	Clamp Clamp 5/8"				796005	6
5	Flat Washer 5/16"				981070	14
6	Flexlock Nut 5/16-24				981055	2
7	Valve Seal Repair Kit (Not Shown)				833203	
8	Valve Spring Cover (Not Shown)				833219	
9	Parking Brake Cable				796615	1
10	Parking Brake Assembly				W4784	1
11	HHCS 5/16-18 x 1 1/2"				981250	3
12	Lock Washer 3/8"				990470	2
13	Elbow 90 Deg Fitting				897405	3
14	Hydraulic Fitting Reducer				897515	1
15	Elbow 90 Deg Fitting Tall				898385	1
16	Control Valve Lever Assembly				800230	1
17	Valve Detent Assembly (Not Shown)				833218	
18	Flexible Hydraulic Line				W450160	4
19	Direction Control Valve				897660	1
20	HHCS 5/16-24 x 1"				981035	2
21	Lock Washer 5/16"				990460	3
22	Valve Support Stand				W460250	1
23	Flexlock Nut 5/16-18				991940	6
24	HHCS 3/8-16 x 5/8"				981740	2
25	Hydraulic Return Line				W450155	1
26	Hydraulic Supply Line				W450150	1
27	HHCS 5/16-24 x 1/2"				981805	1
28	HHCS 5/16-24 x 3/4"				981030	3
29	Clevis Pin 5/16" x 1"				980375	1
30	Cotter Pin 1/8" x 1 1/2"				796075	1
31	Spacer				W1897	1
32	HHCS 5/16-18 x 1"				981445	3
33	Brake Cable Spacer				W470765	1
34	HHCS 5/16-24 x 2"				994040	1



When ordering parts be sure to give model and serial numbers

Drive Motors & Wheels

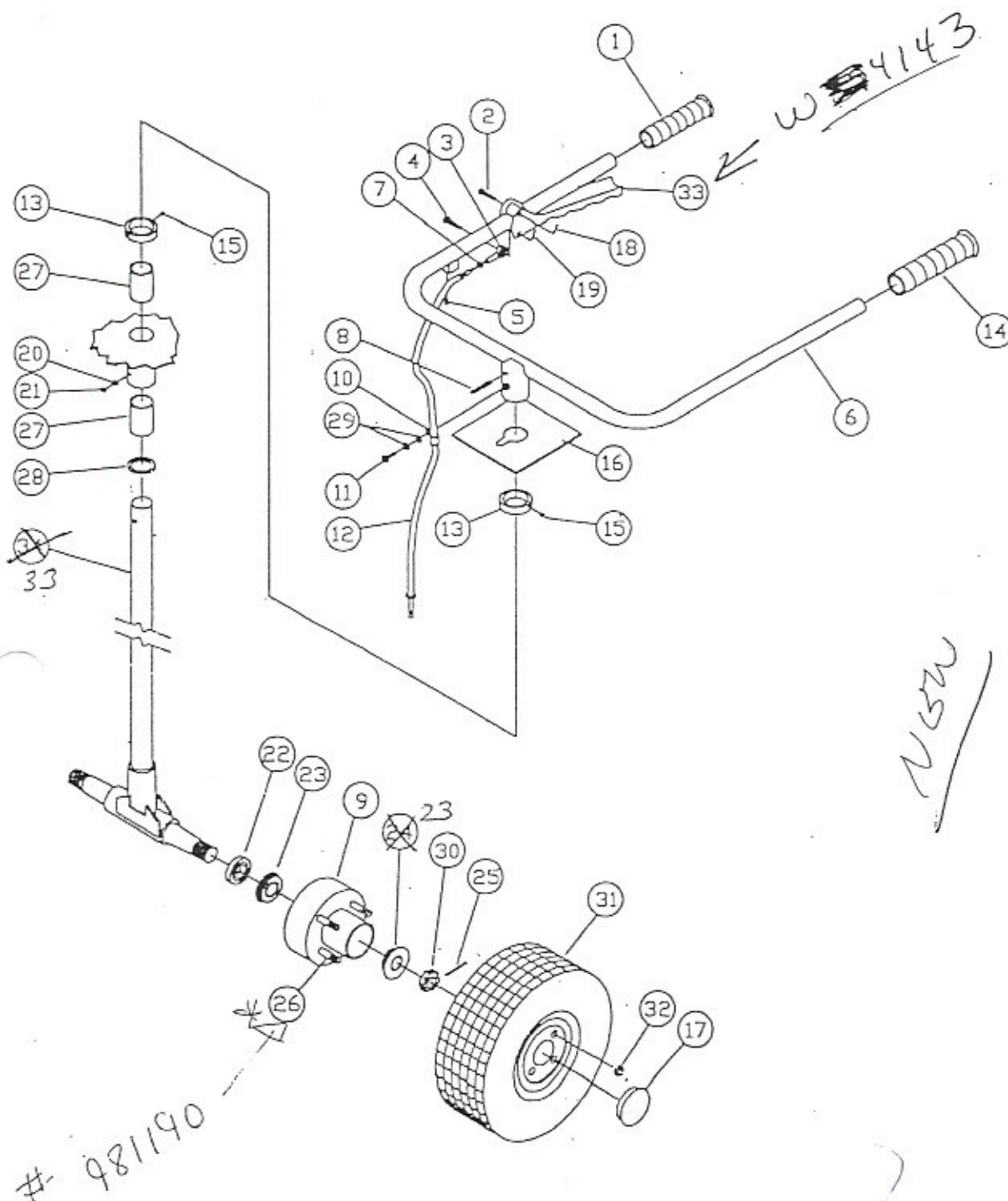
Ref	Description	Model	Serial No.		Part No.	Qty.
			From (incl.)	To		
	XXXXXXXXXXXXXXXXXXXX					
1	Front Drive Motor (White)				760145	2
2	FHSCS 1/2-20 x 2"				981585	8
3	Wheel Hub Spacer				188115	2
4	HHCS 1/2-20 x 2"				981260	8
5	Hub Stud 1/2-20 x 1 15/16" (press-in)				981190	8
6	Motor Shim				510390	4
7	Front Tire Assembly	WAPB-16			842015	4
7	Front Tire Assembly	WAPB-12			842015	2
7	Front Foam Filled Tire Assembly (optional)				842017	
8	Wheel Spacer w/Studs	WAPB-16			W450065	2
9	Lug Nut				981215	8
10	Key 5/16" x 5/16" x 1 1/4"				510930	2
11	Front Wheel Hub w/Studs				500140	2
12	Hydraulic Transfer Hose Long				W450165	1
13	Wheel Stud 1/2-20 x 1 3/4" (press-in)				981195	8
14	Lock Washer 1/2"				991650	16
15	Hex Nut 1/2-20				980310	16
16	HHCS 5/8-18 x 2 1/2"				981665	2
	Flat Washer 5/8"				993830	2
	Lock Washer 5/8"				993890	2
19	Flange Bearing				760075	2
20	Flexlock Nut 1/2-20				994560	8
21	Hydraulic Transfer Hose Short				W450170	1
22	Elbow 90 Deg Fitting Tall Straight Thrd				898405	1
23	Elbow 45 Deg Fitting Straight Thrd				897325	1
24	Elbow 90 Deg Fitting Tall Straight Thrd				897335	1
25	Fitting Connector				897570	1
26	Tee 1/2" NPT				897445	2
27	Elbow 90 Deg Fitting				898170	1



When ordering parts be sure to give model and serial numbers

Steering & Rear Axle Assembly

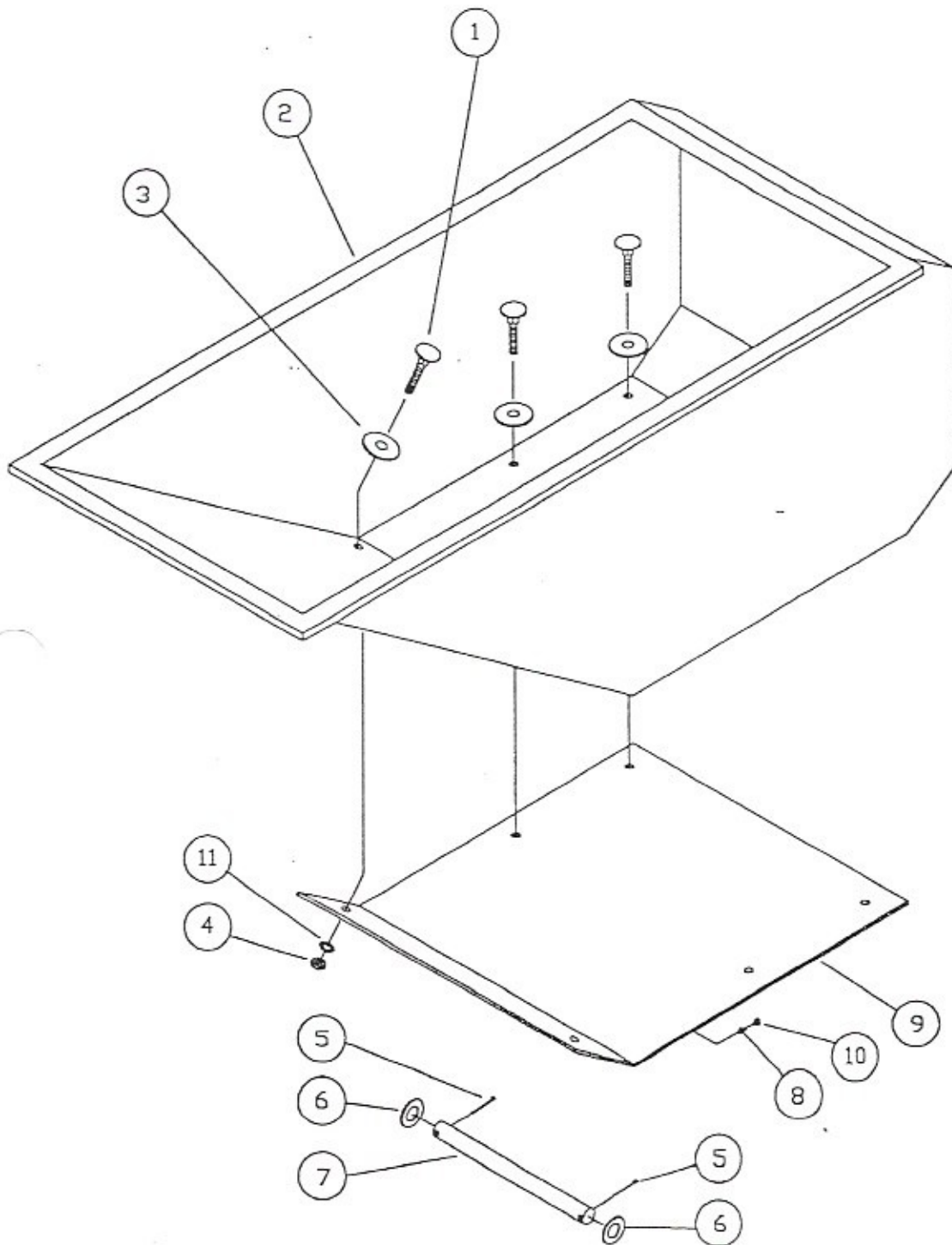
Ref No.	Description	Model	Serial No.		Part No.	Qty.
			From (incl.)	To		
1	Handle Bar Grip Small				796035	1
2	Clevis Pin 5/16" x 1 3/4"				980395	1
3	Rod End 1/4-28 Female				796560	1
4	Clevis Pin 1/4" x 1 3/4"				980390	1
5	SHSS 1/4-20 x 1/2"				990330	1
6	Handle Bar				500155	1
7	Hex Nut 1/4-28				981225	1
8	Roll Pin 1/4 x 2"				980450	1
9	Rear Wheel Hub w/Studs <i>Complete w/Brgs</i>				760160	2
10	Cable Clamp 1/2"				R790020	1
11	RHMS 1/4-20 x 3/8"				981875	1
12	Speed Control Cable				W18007	1
13	Collar				796060	2
14	Handle Bar Grip Large				796030	1
15	SHSS 3/8-16 x 3/8"				981210	2
16	Plastic Shield				W8185	1
17	Hub Cap			W5027-1	W5027	2
18	Cotter Pin 1/8" x 1 1/2"				796075	1
19	Cotter Pin 1/16" x 1/2"				980410	1
20	Grease Fitting 1/4-28				794550	1
21	Grease Fitting Cap				796555	1
22	Seal				760600	2
23	Bearing Cone			760601	760610	2
24	Bearing Cone			760611	760615	2
25	Cotter Pin 1/8" x 1 1/2"				796075	2
26	Hub Stud 1/2-20 x 1 15/16" (press-in)				981190	8
27	Bushing				796515	2
28	Bearing				W4033	1
29	Flat Washer #10				994990	2
30	Castle Nut 1"-14				994510	2
31	Rear Tire Assembly				842010	2
31	Rear Foam Filled Tire Assembly (optional)				842012	
32	Lug Nut				981215	8
33	<i>Steering Axle Assembly</i>				W460285	1
33	<i>LEVER</i>				W46443	



When ordering parts be sure to give model and serial numbers

Tub Assembly

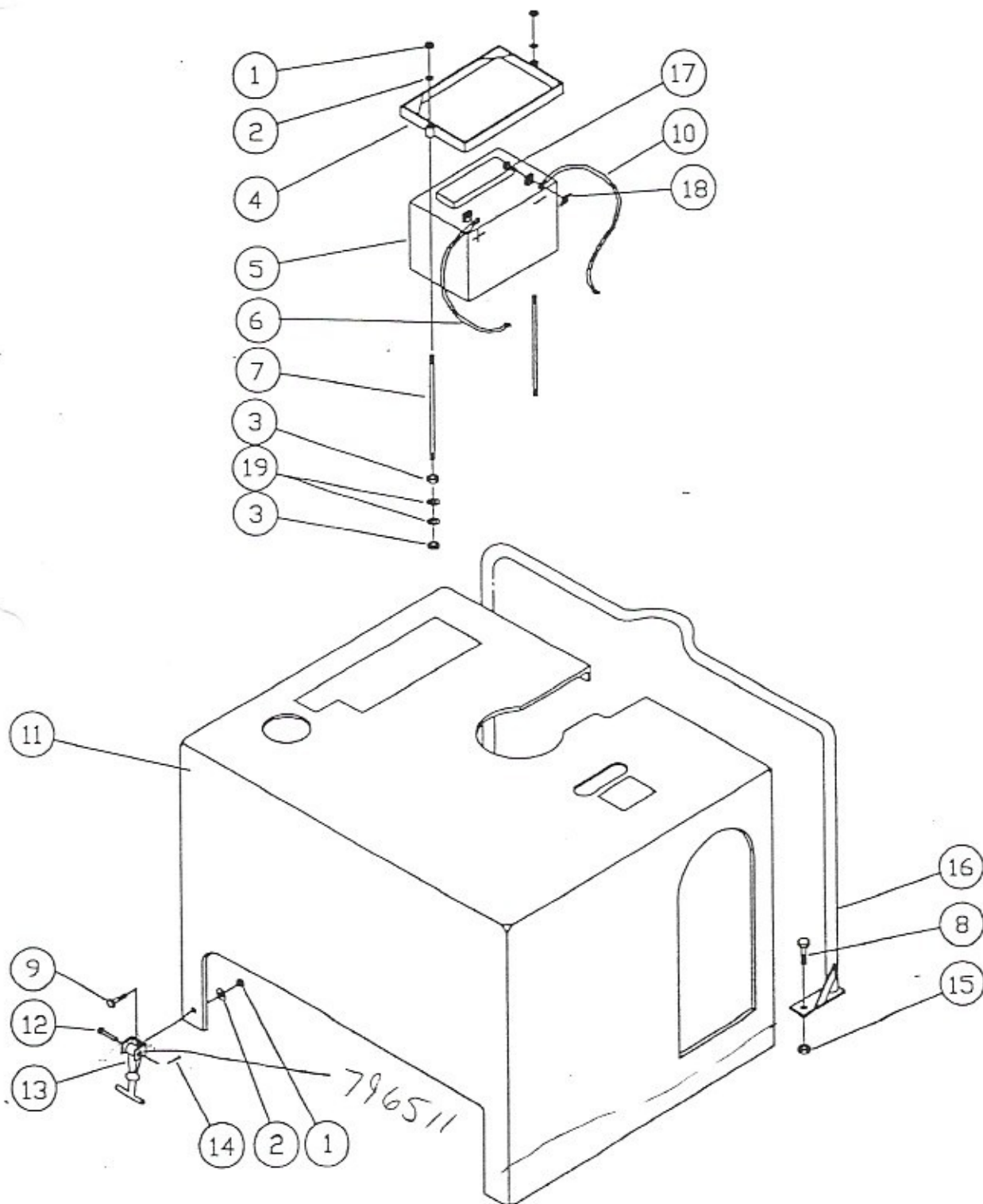
Ref No.	Description	Model	Serial No.		Part No.	Qty.
			From (incl.)	To		
.	BHCS 3/8-16 x 1 3/4"	WAPB-16			996265	6
1	BHCS 3/8-16 x 1 3/4"	WAPB-12			996265	4
2	Tub	WAPB-16			W8000	1
2	Tub	WAPB-12			W8190	1
3	Flat Washer Fender 3/8"	WAPB-16			996260	6
3	Flat Washer Fender 3/8"	WAPB-12			996260	4
4	Hex Nut 3/8-16	WAPB-16			990120	6
4	Hex Nut 3/8-16	WAPB-12			990120	4
5	Cotter Pin 3/16" x 1 1/2"				990770	2
6	Flat Washer 7/8"				996200	2
7	Tub Pivot Pin				W8046	1
8	Grease Fitting 1/4-28				794550	2
9	Tub Plate	WAPB-16			W8397	1
9	Tub Plate	WAPB-12			W8422	1
10	Grease Fitting Cap				796555	2
11	Lock Washer 3/8"	WAPB-16			990470	6
11	Lock Washer 3/8"	WAPB-12			990470	4



When ordering parts be sure to give model and serial numbers

Shroud & Battery Assembly

Ref No.	Description	Model	Serial No.		Part No.	Qty.
			From (incl.)	To		
1	Flexlock Nut 1/4-20				990150	6
2	Flat Washer 1/4"				990340	4
3	Hex Nut 1/4-20				992120	4
4	Battery Hold Down	WAPB-16E			W4732	1
5	Battery 12v Group U-1 w/Bolts & Nuts	WAPB-16E			673020	1
6	Battery Cable - Positive - 17 1/2"	WAPB-16E			W1609	1
7	Battery Hold Down Rod	WAPB-16E			W470820	2
8	HHCS 5/16-18 x 1"				981445	4
9	HHCS 1/4-20 x 3/4"				996220	4
10	Battery Cable - Negative - 14 1/2"	WAPB-16E			W1597	1
11	Shroud				W18000	1
12	Clevis Pin 1/4" x 1 1/2"				980435	4
13	Shroud Fastener (3 pcs)				796510	4
14	Cotter Pin 1/16" x 1/2"				980410	4
15	Flexlock Nut 5/16-18				991940	4
16	Shroud Brace				W18002	1
17	HHCS 1/4-20 x 1"				981855	2
18	Wing Nut 1/4-20				996250	2
19	Lock Washer 1/4"				990400	4



When ordering parts be sure to give model and serial numbers