

**John Deere
Snow Plows
ABG-90 and MT-72**



JOHN DEERE

OPERATOR'S MANUAL

John Deere Snow Plows
ABG-90 and MT-72
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John Deere Waterloo Works
OMF221152
Litho in U.S.A



TO THE OWNER

The John Deere Snow Plow is a useful addition to the extensive line of attaching implements for your John Deere Tractor. The Snow Plow puts your John Deere Tractor to work in the winter doing such jobs as keeping your driveway open, clearing barn lots and lanes to your milk loading platform. In the summer, or when not plowing snow, the blade can be fixed for light bulldozing, pushing manure or sand, and leveling cinders or gravel.

Engineered exclusively for your John Deere Tractor, your Snow Plow is of modern design, built with top quality materials by experienced workmen.

This manual has been prepared with you, the customer, in mind. We want you to get years of carefree service from your new Snow Plow. Refer to this manual for operating, assembling, and correct parts information.

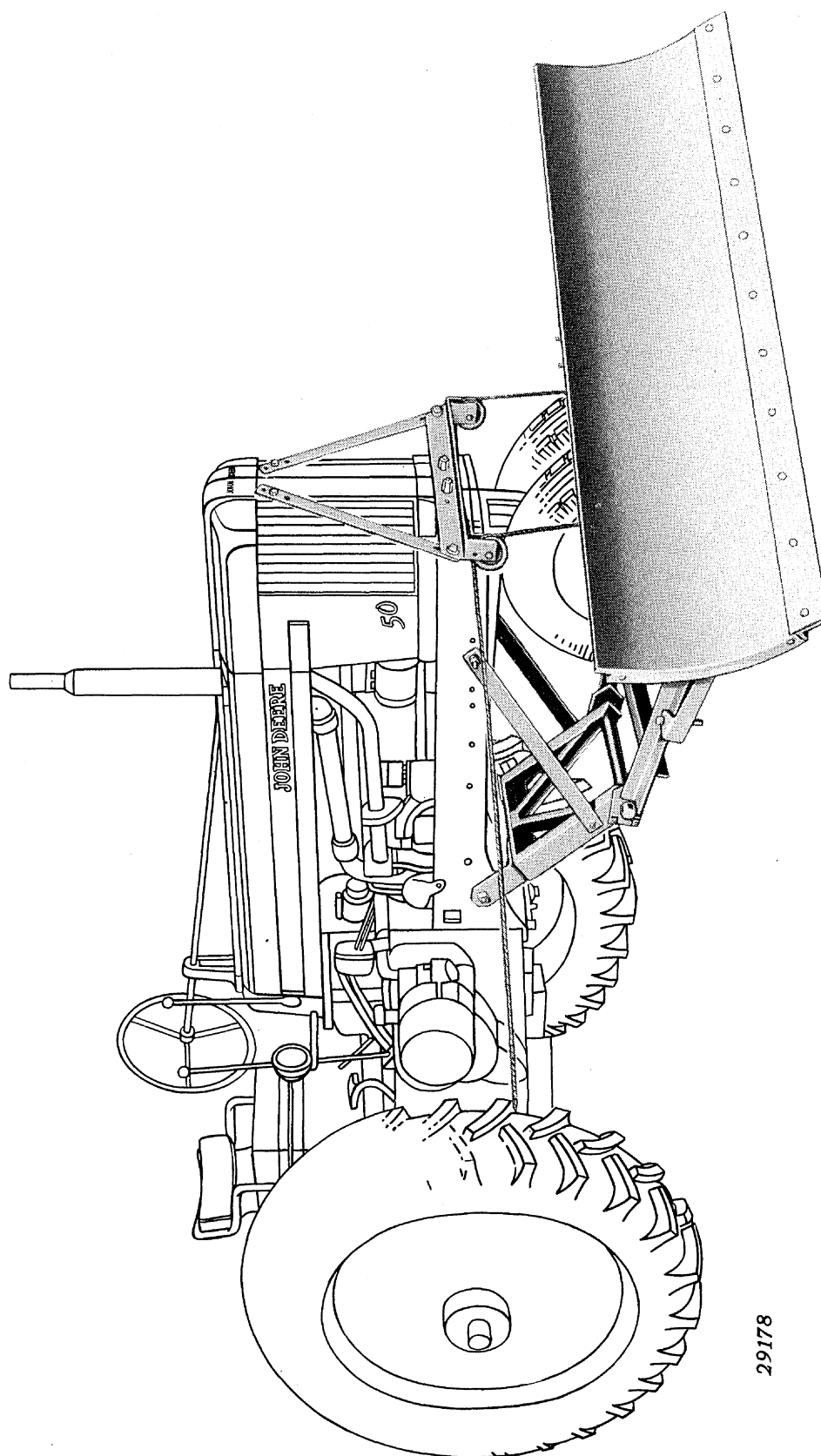
"Right," Left," Front," or "Rear" locations are determined by facing the direction machine will travel.



Snow Plow No.....
Date Purchased.....
Owner.....

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Figure 1—John Deere ABG-90 Snow Plow on John Deere Model "50" Tractor

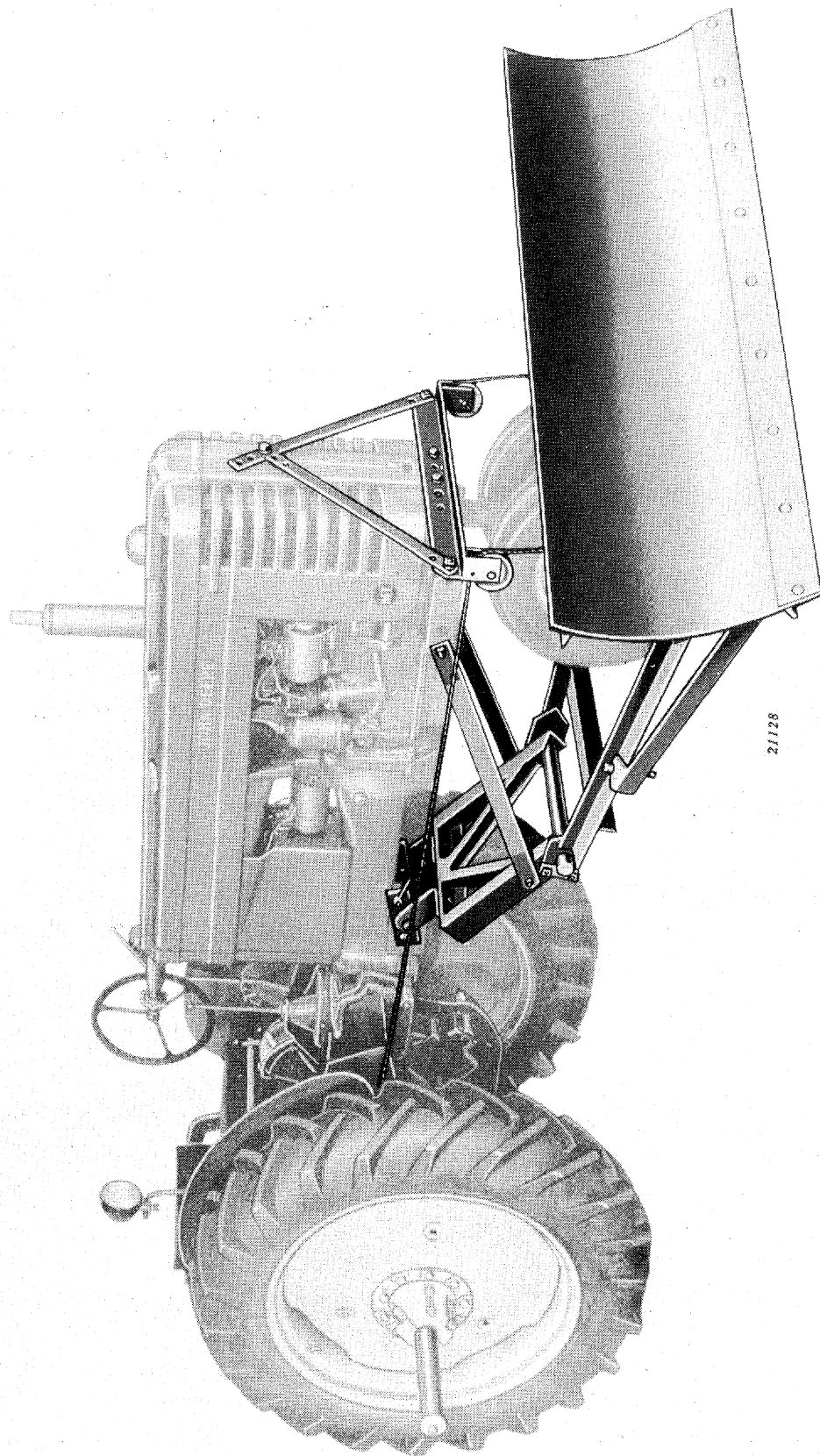


Figure 2—John Deere MT-72 Snow Plow on John Deere Model “MT” Tractor

OPERATING INSTRUCTIONS

The operator should decide on the best method of plowing, considering the conditions at hand. **ANALYZE** the work to be done. There are times when it is better to angle the blade; at other times, straight plowing will do the best job.

HYDRAULIC CONTROL

The blade may be easily raised or lowered by the simple movement of the tractor hydraulic control lever. The blade may be stopped at any desired level between full transport and lowered position to give the most efficient and satisfactory service.

BLADE ANGLE

The blade is easily angled right or left, or set straight, by inserting blade brace pins in the proper holes on either side of main frame. The blade will cut a path 90 inches wide when in the straight position and approximately 86 inches wide when fully angled right or left.

SAFETY TRIP

Two springs control the trip action of the plow blade. When the blade strikes a stone or other object, it trips forward, clears the object and immediately returns to its upright plowing position.

OTHER USES

A 1/2-inch bolt, pin, or rivet may be inserted through the holes provided in the telescoping pipe braces. This will prevent the blade from tripping, and thus the blade may be used for back filling, leveling loose sand or gravel, and other light pushing work.

DEPTH SHOE ATTACHMENT

A depth shoe attachment, AW86F (pair), is available as extra equipment. The depth shoes are especially useful where soft earth conditions are encountered or where uneven surfaces are to be plowed. They are adjustable for various plowing heights.

ATTACHING AND DETACHING

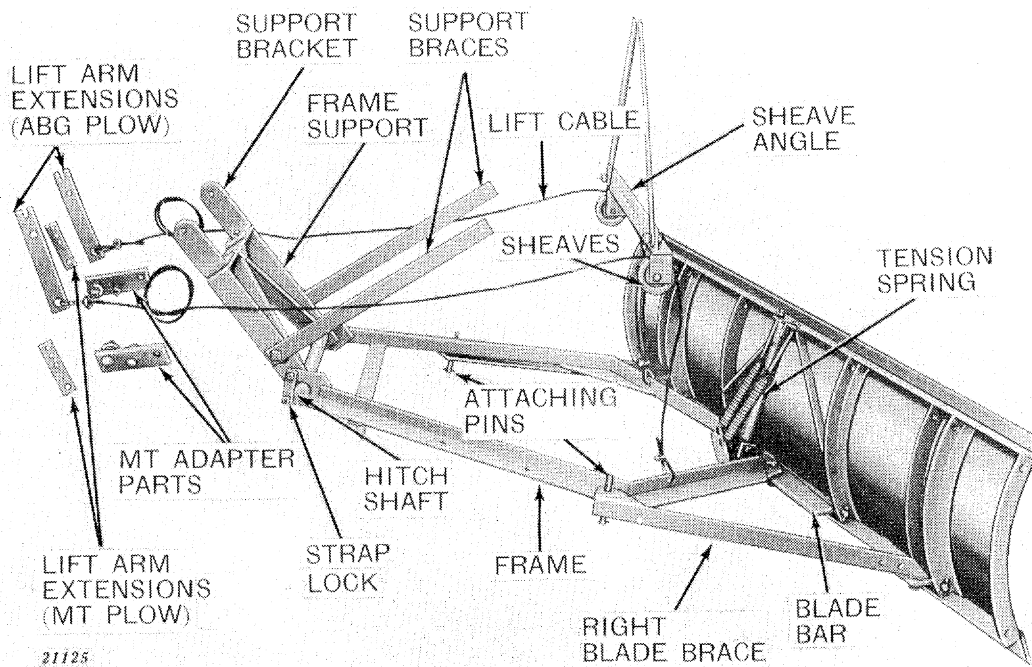


Figure 3

After the initial setting-up, the Snow Plow may be attached or detached from the tractor by units as follows:

DETACHING

Lower blade to ground. Remove the two lift arm extensions from rear of tractor by taking out the machine bolts. Remove sheave pins, drop cables, replace sheaves and pins. Drop frame by removing the two strap locks which hold frame to hitch shaft. Back tractor front wheels over rear frame angle.

Remove frame support, frame support brackets, and braces as a unit. This leaves only the sheave angle and braces on the front of the tractor. This unit need not be removed unless cultivator, or other front mounting implement, is to be attached.

ATTACHING

Drive tractor front wheels over rear frame angle. Install frame support to tractor with the two carriage bolts through the frame support brackets. Attach frame support braces. Attach frame to hitch shaft by means of the two strap locks. Remove sheave pins, feed cables over sheaves and replace pins and cotters.

Extend cables and attach to lift arms at rear of tractor. If necessary, loosen cable clamps, and adjust so that blade will drop an inch or so below front wheel level when plowing.

SHIPPING BUNDLES

		Weight	
		ABG-90	MT-72
1—AW 68 F	72" Straight Blade.....	...	150
1—AW 77 F	90" Straight Blade.....	192	...
1—AW 78 F	Sheave and Blade Brace Bundle.....	81	81
1—AW 82 F	Frame Bundle Complete.....	146	146
1—AW 83 F	Frame Support Bundle Complete.....	58	58
1—AW 84 F	MT-72 Adapter Parts.....	...	14
		<u>477</u>	<u>449</u>

ASSEMBLY INSTRUCTIONS

These instructions cover the assembling of the John Deere ABG-90 and MT-72 Snow Plows, which can be used on John Deere Models "A," "B," "G," "MT," "40," "50," or "60" Tractors.

Steps to be followed in assembling and attaching the Snow Plow to tractor are outlined on the following pages.

Cut all wires and lay out parts.

Refer to Figures 4—8, for illustrations showing how to attach the Snow Plow to John Deere Models "A" or "60," "B" or "50," "G," and "MT" or "40" Tractors.

Detach the two frame support brackets from frame support, by removing the four bolts (Figure 3).

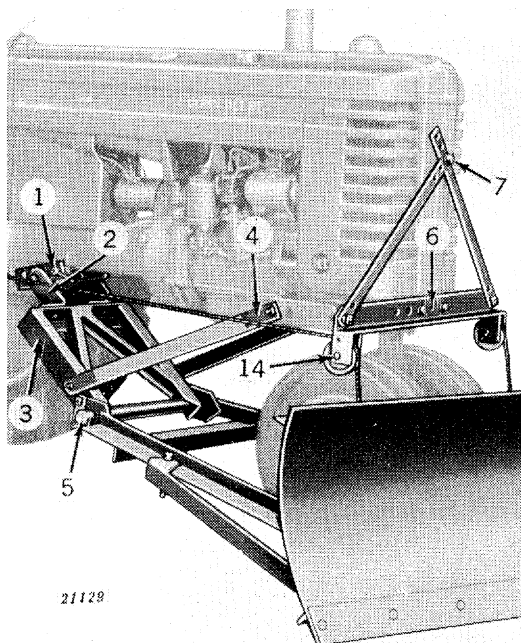


Figure 4—"MT" or "40" Tractors

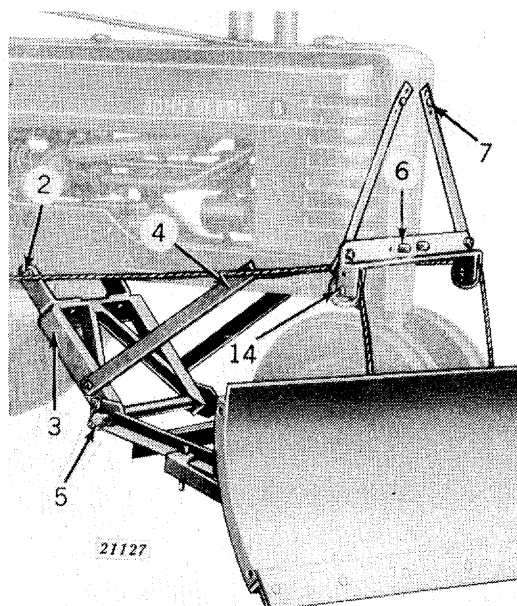


Figure 5—"B" or "50" Tractors

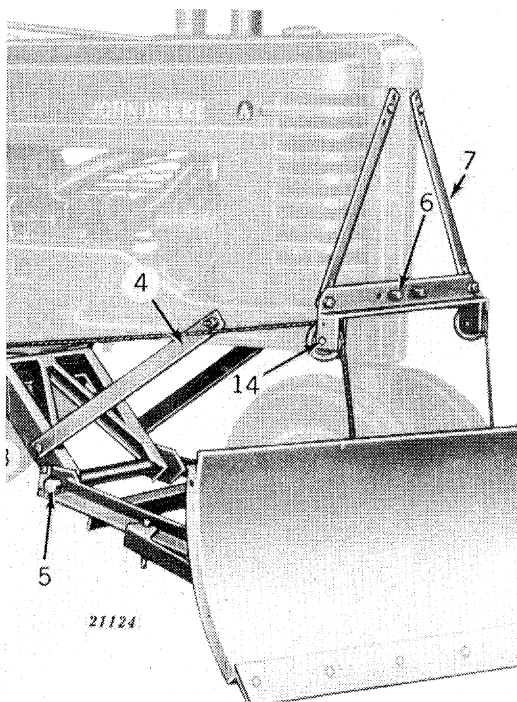


Figure 6—"A" or "60" Tractors

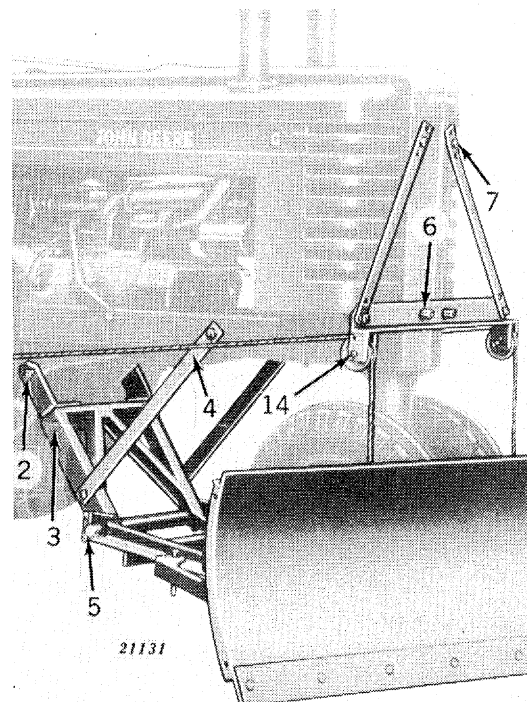
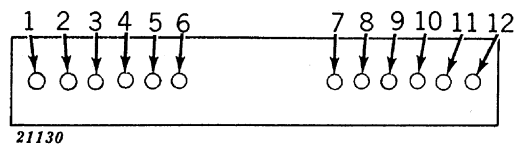


Figure 7—"G" Tractor

1. ("MT" or "40" Tractors ONLY) Attach an adapter plate to each side of tractor frame. Be sure that plates are attached with square center holes (offset) in down position.
2. Attach frame support brackets to tractor as shown. Note that right bracket on "MT" or "40" Tractors extends out.
3. Attach frame support to support brackets using mounting holes as follows:

Tractor	Right Bracket	Left Bracket
"A" or "60"	Holes 2 and 4	Holes 9 and 11
"B" or "50"	Holes 3 and 5	Holes 8 and 10
"G"	Holes 2 and 4	Holes 10 and 12
"MT" or "40"	Holes 3 and 5	Holes 7 and 9

(Reverse Bracket—Angle Out)



Frame Support

4. Attach the long frame support braces as shown. For the "MT" or "40" Tractors, an offset brace is provided for the right side. The extra straight brace may be discarded.
5. Drive tractor front wheels over rear angle and inside main frame. Attach main frame to hitch shaft.
6. Attach sheave support with cable sheaves to front of tractor as shown. *NOTE: Sheave support is offset to the right on the "MT" or "40" Tractors.*
7. Install braces from sheave support to upper implement-mounting cap screws on tractor.

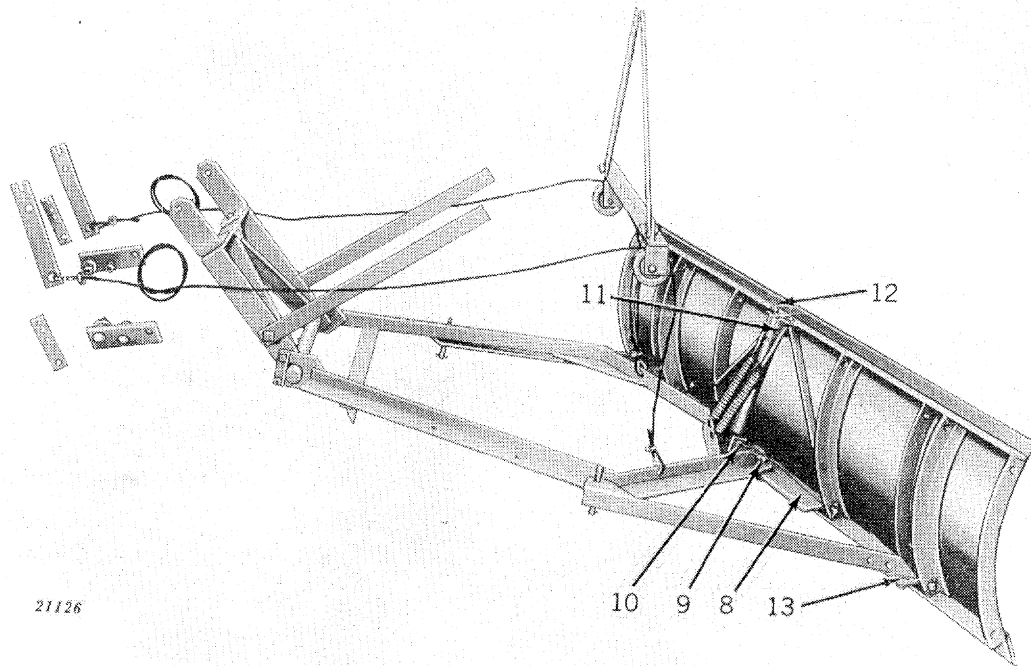


Figure 8

8. Support blade in upright position and attach blade bar pins and cotter pins. Be sure to install the bar right side up.
9. Attach blade bar to frame.
10. Attach lower pipe brace to yoke on frame.
11. Attach the upper pipe brace between the two support angles at the top of blade.
12. Secure spring tension bolts as shown. Tighten to increase tension. Loosen to decrease tension.
13. Attach right and left blade braces to the blade.
14. Remove sheaves, feed cable over sheaves, and re-install sheaves. Stretch cables out full length to rear of tractor. For the "A" or "60," "B" or "50," and "G" Tractors the cable travel is under the axle housing; for the "MT" or "40" it is over the housing.

HYDRAULIC CONTROL HOOKUP

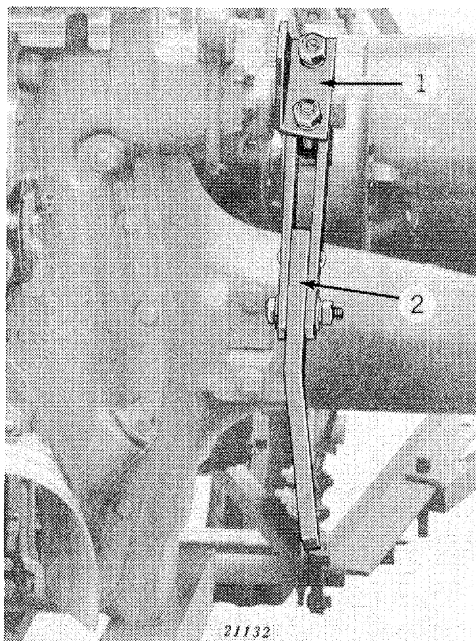


Figure 9—"A," "B," "G," "50," and "60" Tractors

"A," "B," "G," "50," and "60" TRACTORS

1. Attach cultivator lift arms, **not supplied with the snow plow**, to the power-lift rockshaft. (See Figure 9.)
2. Attach offset lift arm extensions to the cultivator lift arms with the bend of the arm extending out toward the tire as shown. (See Figure 9.)

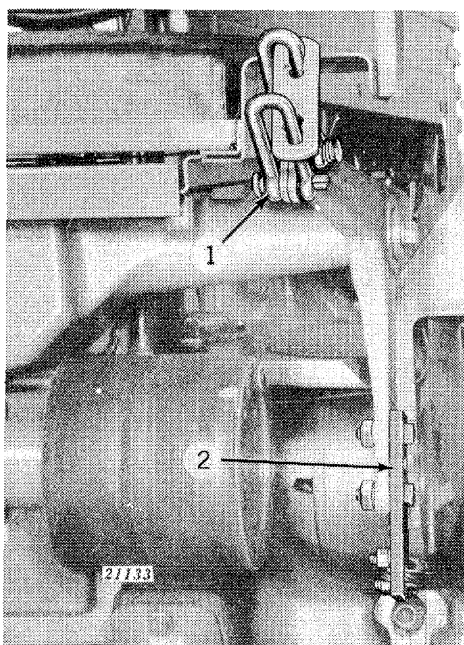


Figure 10—"MT" and "40" Tractors

"MT" AND "40" TRACTORS

1. ("MT" Tractor ONLY) Remove drawbar lift chains and lock drawbar in lower set of holes (See Figure 10). ("40" Tractor) Do not remove lift links.
2. Attach lift arm extensions to the right side of the two outside Touch-o-matic lift arms (see Figure 10).

With bottom of blade resting on ground or floor, **level** with front and rear cable clamps and take up slack in cables. Be sure that lift arms are in down position. The blade should rest on the ground so that there is no lifting tension on the cables, but with no slack. It may be necessary later to adjust cables again

after snow plow has been used. When adjusted as described above, the blade will drop a little below front wheel level, a necessary condition, when plowing uneven surfaces.

USING THE PARTS LIST

Exploded Views.

From the exploded views of parts in the pages which follow it is easy to find any part or part number.

The exploded views also show the order of assembly of parts. If it is necessary to disassemble a unit for replacement of parts, be sure parts are assembled properly for satisfactory performance of your Snow Plow.

Key Number.

Each part has been given a key number which is used only to find the part number, description, and quantity used. *Do Not Use the Key Number When Ordering Parts.*

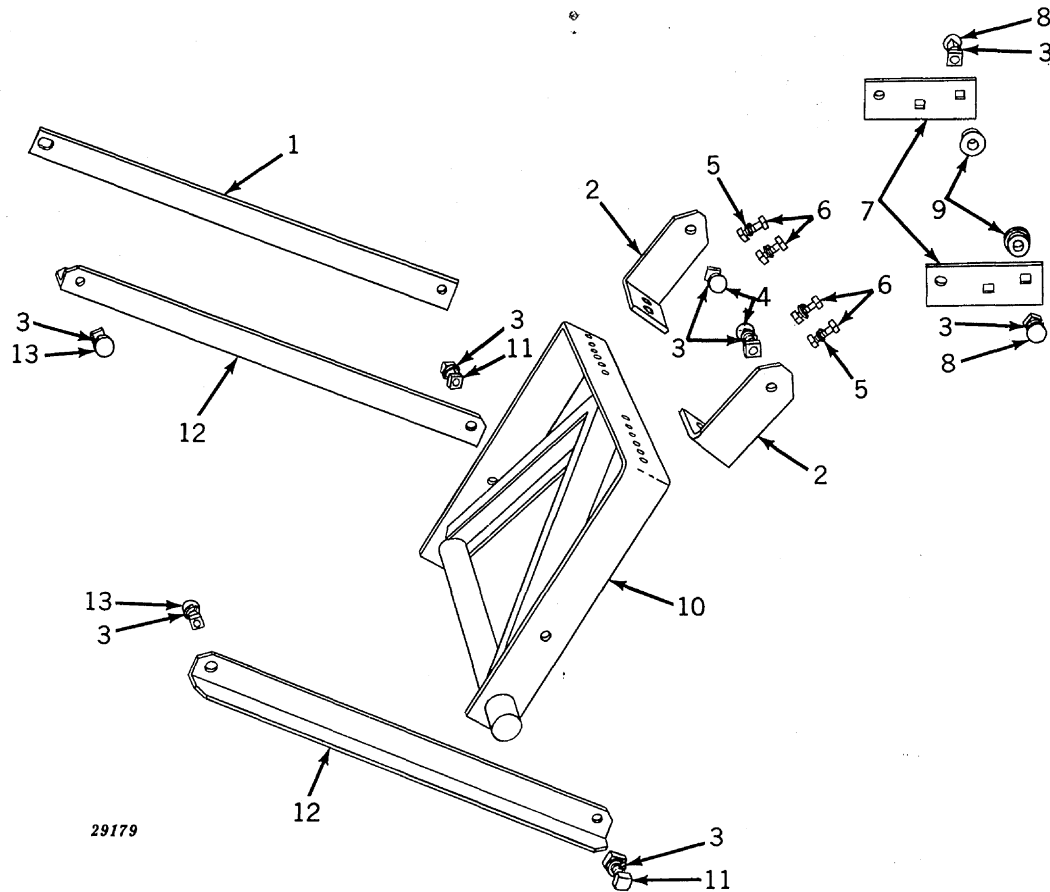
Quantity.

If only one of each part is used, the quantity is not shown. If more than one of each part is used, the quantity is shown with the description.

When Purchasing Parts.

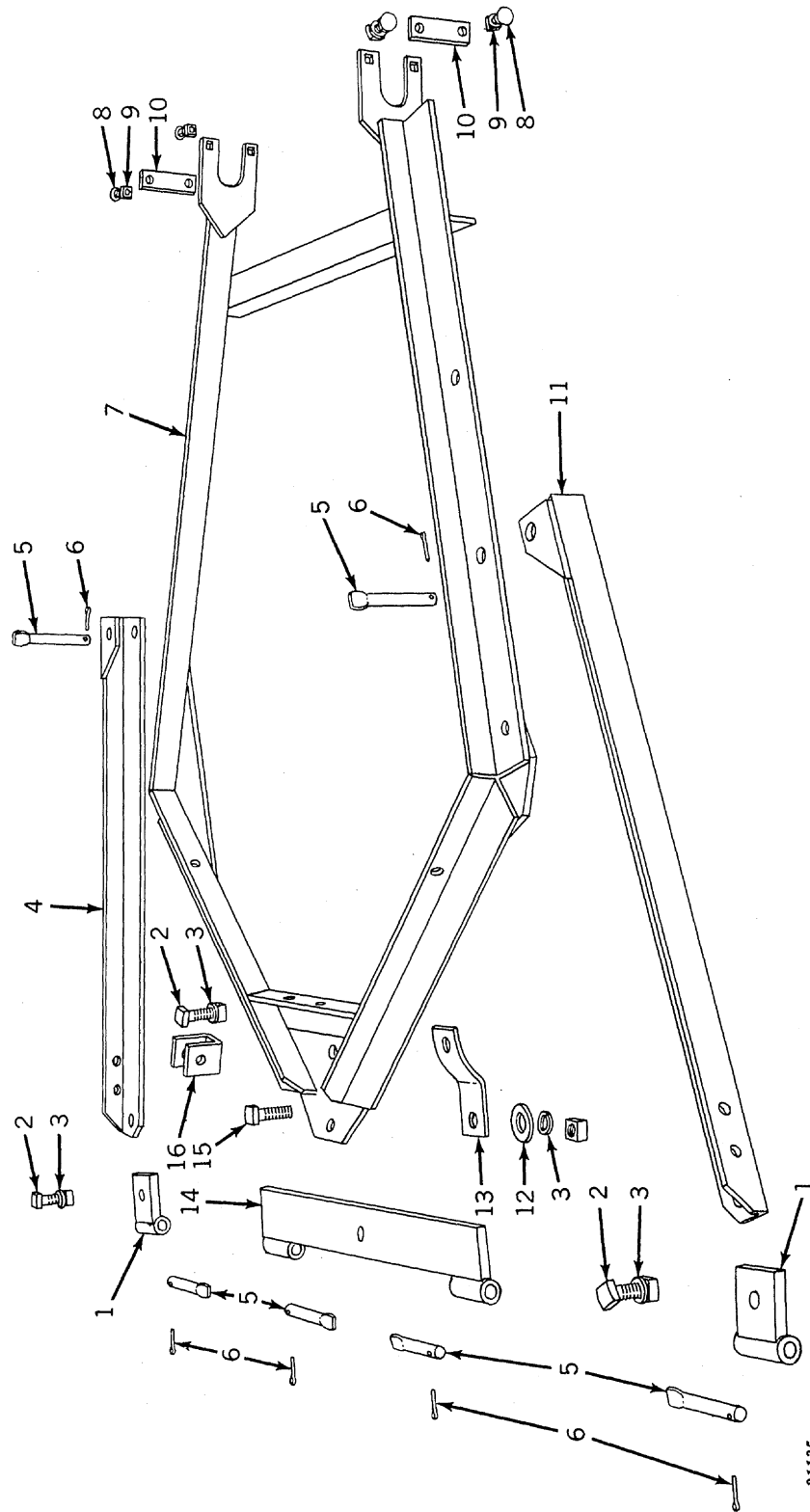
When ordering parts from your John Deere dealer, give the following information:

- (a) Number of your Snow Plow, ABG-90 or MT-72.
- (b) Part number, description, and quantity wanted.
- (c) Where part numbers are not indicated, as in the case of standard bolts, nuts, washers, cotters, etc., order by size and description.



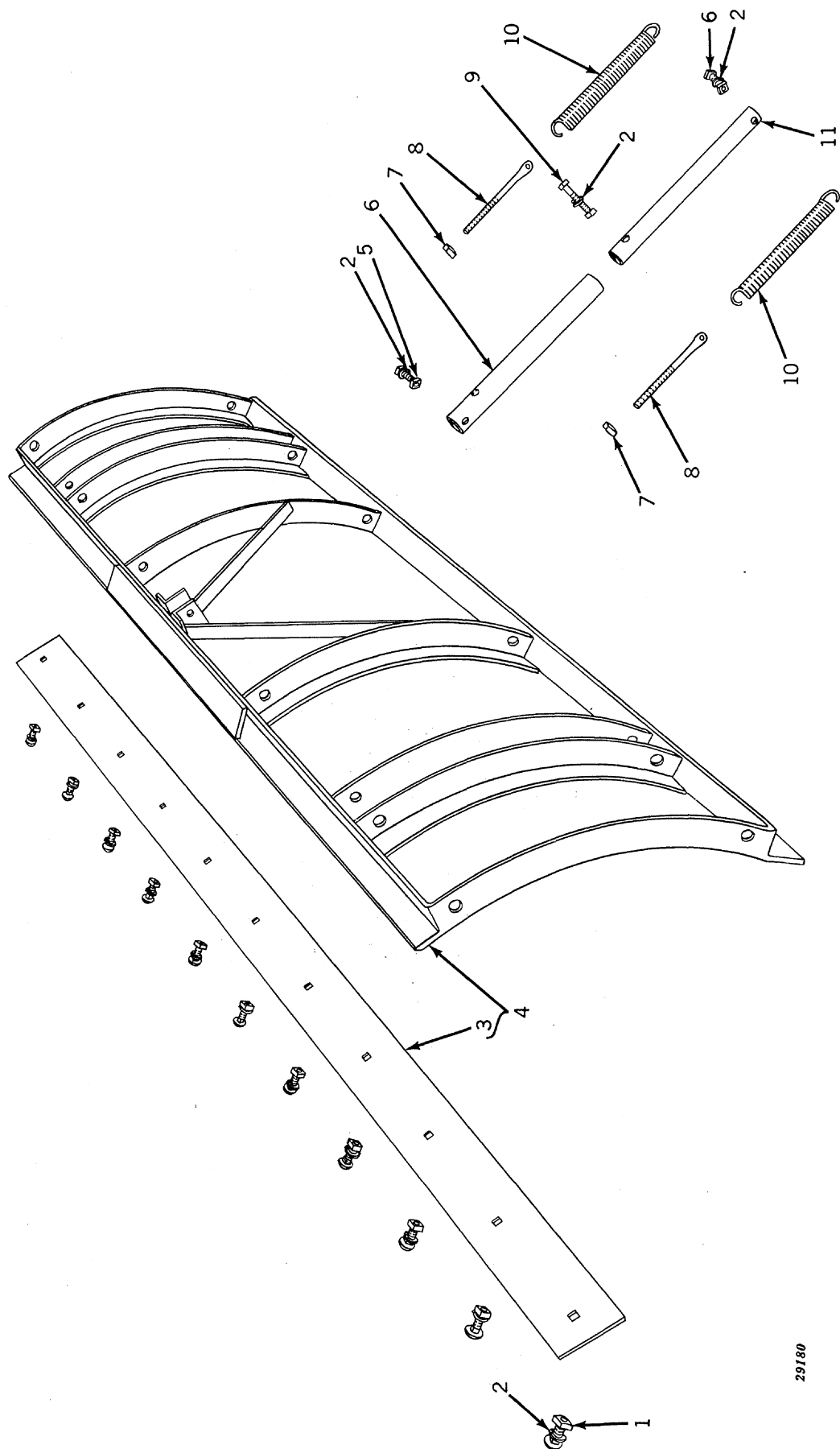
Key	Part No.	Wt., Lbs.	Description
1	W 481 F	4.3	Brace, Offset (MT-72 only)
2	W 470 F	4.9	Bracket, Support (2 used)
3	12H 15 R	.....	Washer, Lock, 5/8" (8 used)
4	.....	.....	Bolt, Cge., 5/8" x 2", with Nut (2 used)
5	12H 13 R	.....	Washer, Lock, 1/2" (4 used)
6	7H 739 R	.....	Bolt, Mach., 1/2" x 1-1/2", with Nut (4 used)
7	W 479 F	3.	Adapter Plate (MT-72 only) (2 used)
8	.....	.....	Bolt, Cge., 5/8" x 2-1/2", with Nut (2 used)
9	W 480 F	1.	Adapter Lug (MT-72 only) (2 used)
10	AW 71 F	48.2	Support, Frame
11	8H 910 R	.....	Bolt, Mach., 5/8" x 1-1/2", with Nut (2 used)
12	W 471 F	8.	Brace, Frame Support (2 used)
13	.....	.....	Bolt, Cge., 5/8" x 1-1/2", with Nut (2 used)

NOTE: Only one part used in this grouping unless otherwise indicated



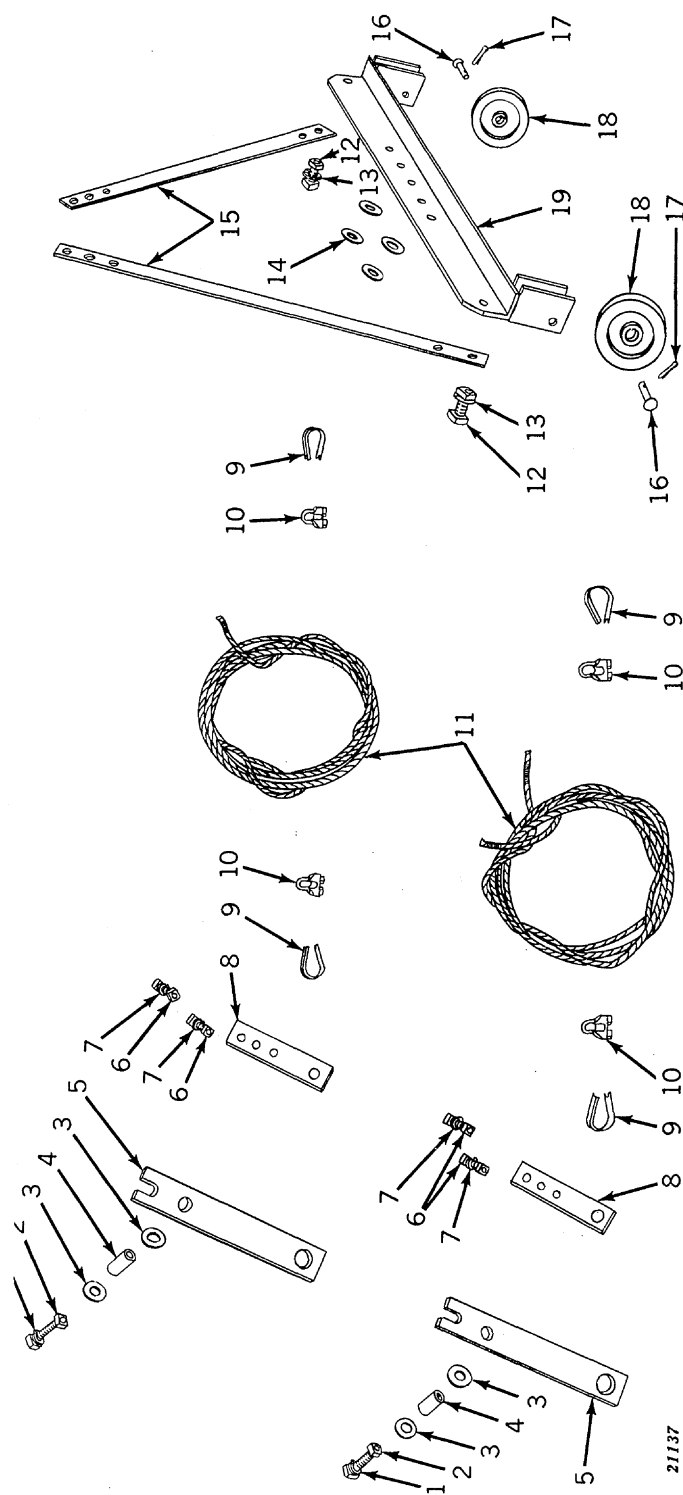
Key	Part No.	Wt., Lbs.	Description
1	AW 74 F	2.4	End, Blade Brace (2 used)
2	12H 17 R	.....	Bolt, Mach., 3/4" x 2", with Nut (3 used)
3	AW 76 F	18.7	Washer, Lock, 3/4" (4 used)
4	W 254 F	.7	Brace, Blade, R.H.
5	11H 82 R	.....	Pin, Attaching (6 used)
6	AW 70 F	106.2	Pin, Cotter, 3/16" x 1-1/4" (6 used)
7	2H 505 F	.....	Frame, Welded
8	12H 12 R	.....	Bolt, Cge., 7/16" x 1-1/2", with Nut (4 used)
9	W 452 F	.5	Washer, Lock, 7/16" (4 used)
10	AW 75 F	18.7	Strap, Lock (2 used)
11	24H 630 A	.....	Brace, Blade, L.H.
12	W 474 F	1.2	Washer, Plain, 13/16" x 2", No. 10
13	AW 73 F	15.5	Strap, Hammer
14	.....	.....	Bar, Blade
15	W 473 F	1.4	Bolt, Mach., 3/4" x 2-1/2", with Nut
16	.....	.....	Yoke, Pipe Brace

NOTE: Only one part used in this grouping unless otherwise indicated.



Key	Part No.	Wt., Lbs.	Description
1	2H 613 R	.....	Bolt, Cge., 1/2" x 1-1/4", with Nut (12 or 15 used)
2	12H 13 R	.....	Washer, Lock, 1/2" (12 or 15 used)
3	W 467 F	25.5	Point, Blade, 90"
4	W 437 F	20.1	Point, Blade, 72"
5	AW 77 F	192.	Blade, 90" Straight, with Point
6	AW 68 F	150.	Blade, 72" Straight, with Point
7	7H 847 R	.....	Bolt, Mach., 1/2" x 2-3/4", with Nut (2 used)
8	W 477 F	2.8	Brace, Pipe, Upper
9	14H 12 B	.....	Nut, Square, 1/2" (2 used)
10	W 475 F	.4	Eyebolt (2 used)
11	.....	.....	Bolt, Mach., 1/2" x 2-1/4", with Nut
	5498 A	1.6	Spring (2 used)
	W 478 F	2.1	Brace, Pipe, Lower

NOTE: Only one part used in this grouping unless otherwise indicated.



Key	Part No.	Wt. Lbs.	Description
1	12H 13 R	.....	Washer, Lock, 1/2" (2 used)
2	.....	.....	Bolt, Mach., 1/2" x 2-1/4", with Nut (2 used)
3	24H 477 A	.....	Washer, Plain, 9/16" x 1-3/8", No. 12 (4 used)
4	28H 294 F	.....	Bushing, 1/2" Pipe, 1-3/8" Long (2 used)
5	W 488 F	4.3	Extension, Lift Arm ("A," "B," "G," "50," and "60" Tractors) (2 used)
6	.....	.....	Bolt, Mach., 7/16" x 1-1/2", with Nut (4 used)
7	12H 12 R	.....	Washer, Lock, 7/16" (4 used)
8	W 482 F	1.	Extension, Lift Arm ("MT" and "40" Tractors) (2 used)
9	W 292 F	.08	Thimble, Cable, 5/16" (4 used)
10	W 291 F	.3	Clamp, Cable, 5/16" (4 used)
11	W 483 F	2.1	Cable, Lift, 5/16", 6 x 37 Plow Steel Cable, 12 Feet Long (2 used)
12	8H 910 R	.....	Bolt, Mach., 5/8" x 1-1/2", with Nut (2 used)
13	12H 15 R	.....	Washer, Lock, 5/8" (2 used)
14	24H 624 A	.....	Washer, Plain, No. 10, 11/16" x 1-3/4" (4 used)
15	W 472 F	2.8	Brace, Sheave Support (2 used)
16	AJ 21 F	.16	Pin, Sheave (2 used)
17	11H 82 R	.....	Pin, Cotter, 3/16" x 1-1/4" (2 used)
18	W 298 F	1.3	Sheave, Cable (2 used)
19	AW 72 F	18.8	Support, Sheave, Welded

NOTE: Only one part used in this grouping unless otherwise indicated.

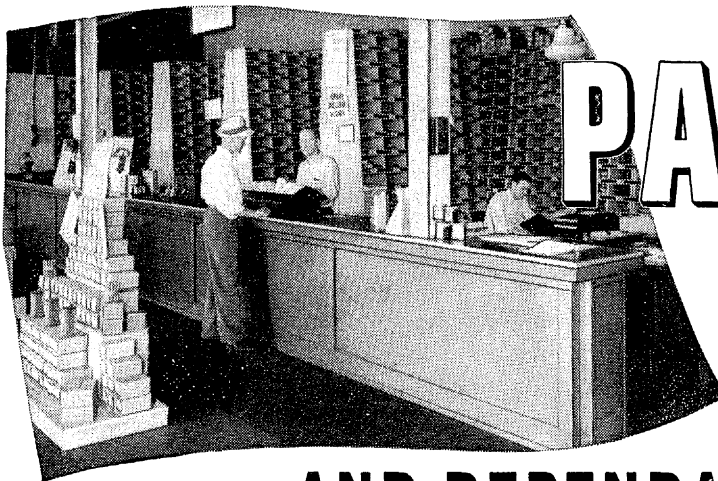
NUMERICAL INDEX

Part No.	Page No.	Key	Part No.	Page No.	Key	Part No.	Page No.	Key
2H 505 F.....	13	8	5498 A.....	15	10	W 291 F.....	17	10
2H 613 R.....	15	1				W 292 F.....	17	9
7H 739 R.....	11	6	AJ			W 298 F.....	17	18
7H 847 R.....	15	5				W 437 F.....	15	3
8H 910 R.....	11	11	AJ 21 F.....	17	16	W 452 F.....	13	10
	17	12				W 467 F.....	15	3
11H 82 R.....	13	6	AW			W 470 F.....	11	2
	17	17				W 471 F.....	11	12
12H 12 R.....	13	9	AW 68 F.....	15	4	W 472 F.....	17	15
	17	7	AW 70 F.....	13	7	W 473 F.....	13	16
12H 13 R.....	11	5	AW 71 F.....	11	10	W 474 F.....	13	13
	15	2	AW 72 F.....	17	19	W 475 F.....	15	8
	17	1	AW 73 F.....	13	14	W 477 F.....	15	6
12H 15 R.....	11	3				W 478 F.....	15	11
	17	13	AW 74 F.....	13	1	W 479 F.....	11	7
12H 17 R.....	13	3	AW 75 F.....	13	11	W 480 F.....	11	9
14H 12 B.....	15	7	AW 76 F.....	13	4	W 481 F.....	11	1
24H 477 A.....	17	3	AW 77 F.....	15	4	W 482 F.....	17	8
24H 624 A.....	17	14	W			W 483 F.....	17	11
24H 630 A.....	13	12				W 488 F.....	17	5
28H 294 F.....	17	4	W 254 F.....	13	5			

MEMORANDUM

19

FOR GENUINE JOHN DEERE



PARTS

AND DEPENDABLE

SERVICE



Go to your
JOHN DEERE DEALER

WHEN you need new parts for your John Deere equipment, always *insist on genuine John Deere parts*. They are made from the same patterns, of the same high-quality materials as the original parts. They will save you money because they fit properly, wear better, last longer and maintain the high quality of your equipment throughout its long working life.

You'll also find it pays to take advantage of the facilities offered by your John Deere dealer when you need special service for your John Deere equipment. He has *trained mechanics* who know your equipment best. He has *special equipment* for doing special work efficiently and economically. He will give you complete satisfaction on any work necessary to keep your equipment in A-1 condition.

**GENUINE JOHN DEERE PARTS FIT BETTER,
LAST LONGER, AND DUPLICATE ORIGINALS.
YOUR JOHN DEERE DEALER HAS TRAINED
MECHANICS WHO KNOW YOUR EQUIPMENT**



Farm Accidents Can Be Prevented *with Your Help*

NO accident prevention program can be successful without the whole-hearted cooperation of the person who is directly responsible for the operation of equipment.

To read accident reports from all over the Country is to be convinced that a large number of accidents can be prevented only by the operator anticipating the result before the accident is caused and doing something about it. No power-driven equipment, whether it be transportation or processing, whether it be on the highway, in the harvest field, or in the industrial plant, can be safer than the man who is at the controls. If farm accidents are to be prevented—and they can be prevented—it will be done by the operators who accept a full measure of their responsibility.

It is true that the designer, the manufacturer, the safety engineer can help; and they will help, but their combined efforts can be wiped out by a single careless act of the operator.

It is said that "*the best kind of a safety device is a careful operator.*" We ask you to be that kind of an operator.

NATIONAL SAFETY COUNCIL

JOHN DEERE

QUALITY EQUIPMENT

for your farming operations

TRACTORS: Standard-tread, general-purpose and orchard wheel-type tractors in many sizes and types; a light track-type tractor.

PLOWS: All sizes and types, moldboard and disk, including integral moldboard and disk types for John Deere general-purpose tractors. Middlebreakers. Disk tillers in all sizes. Plow-sole fertilizer attachment for plows.

LISTERS: One-, two-, and three-row for cotton, corn, and other crops. Integral middlebreakers and bedders and bedder planters for John Deere general-purpose tractors.

HARROWS: Single- and double-action disk types, drawn and integral. Offset disk harrows for orchard, vineyard, and cover-crop work. Spike-tooth harrows, spring-tooth harrows, and spring-tooth weed destroyers.

GRAIN DRILLS: Tractor- and horse-drawn grain drills in a size and type for every seeding job. Plain drills, fertilizer-grain drills, press drills, plow press drills, deep-furrow drills, and grass seed drills available. Adjustable-gate fluted force-feeds or double-run feeds. Choice of furrow openers. Fertilizer and grass seed attachments available. Lime and fertilizer distributors. Seeding attachments for disk tillers.

PLANTERS: Two- and four-row for corn, two-row for cotton, peanuts, and other crops. Multi-row planters for beets, beans, and other narrow-row crops with or without fertilizer attachment. One-, two-, and four-row planting and fertilizing attachments for cultivators. Transplanter units.

POTATO MACHINERY: One- and two-row planters with or without fertilizer attachment. One- and two-row tractor-driven diggers. Hoe and hilling attachment.

CULTIVATORS: One-, two-, four-, and six-row for flat-planted crops; one-, two-, and four-row for listed crops. Field and orchard cultivators with stiff or spring teeth. Beet and bean cultivators. Rotary hoes. Rod weeders.

DUSTERS: For cotton, corn, and vegetables.

HAY MACHINERY: Power-driven mowers, tractor-drawn mower, and enclosed-gear horse mowers. Side-delivery rakes, hay loaders, sweep rakes, sulky rakes, automatic pickup baler, hay choppers.

HARVESTING MACHINERY: Self-propelled combines; pull-type combines in 6- to 20-foot sizes; hillside combines. Grain binders, corn binders. Windrowers. Power-driven one- and two-row corn pickers. Ensilage harvesters; blowers. Bean harvesters. Peanut pullers. Cotton harvesters.

GRAIN ELEVATORS: Portable, for ear corn and small grains, portable type for small grains only.

HAMMER AND FEED MILLS: Two types, five sizes to fit every need. Power and hand shellers.

MANURE SPREADERS: Horse-drawn and tractor-drawn. Also lime-spreading attachment. Manure loader.

FARM WAGONS: Rubber-tired gears. Wagon box.

MISCELLANEOUS: Deep tillage equipment, including panbreakers, subsoilers, ditchers, and chisel cultivators. Corrugators. Land levelers. Tire pumps. Integral and drawn tool carriers, brush rake, and dozer blade attachments for tool carriers. Stalk cutter.

JOHN DEERE
GAVE TO THE WORLD THE STEEL PLOW