

BTO-20-W SERIES WINGFOLD

**PARTS
MANUAL**

**SUPER
WINGFOLD
OFFSET
TRANSPORT
WIDTH
8' OVERALL
LOW PROFILE**

Domries Enterprises, Inc

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Visit our Web-Site at www.domriesentinc.com

IMPORTANT! PLEASE READ!

TO OUR CUSTOMER – USER’S RESPONSIBILITY- WARRANTY

TO OUR CUSTOMER

The following pages and illustrations are printed to help supply you with the knowledge to better operate and service your new DOMRIES equipment.

We are proud to have you as a customer and feel you will be proud to be a DOMRIES owner.

Any piece of equipment needs and must have a certain amount of service and maintenance to keep it in top running condition. We have attempted to cover all the adjustments required to fit most conditions; however, there may be times special care must be taken to fit a condition.

Study this operator’s manual carefully and become acquainted with all the adjustments and operating procedures before attempting to operate your new equipment. Remember, it is a machine and has been designed and tested to do an efficient job in most operating conditions and will perform in relation to the service it receives.

If special attention is required for some conditions, ask your DOMRIES dealer; his Parts and Service Organization will be glad to help and answer any question on operation and service of your new machine.

ATTENTION! BECOME ALERT!

YOUR SAFETY IS INVOLVED

This symbol is used to call your attention to safety precautions that should be followed by the operator to avoid accidents. When you see this symbol – Heed Its Warning.

USER’S RESPONSIBILITY

It is the responsibility of the user to read the Operator’s Manual and understand the safe and correct operating procedures as pertains to the operation of the product, and to lubricate and maintain the product according to the maintenance schedule in the Operator’s Manual.

The user is responsible for inspecting his machine and for having parts repaired or replaced when continued use of the product would cause damage or excessive wear to the other parts. It is the user’s responsibility to deliver his machine to a DOMRIES dealer, for service or replacement of defective parts which are covered by the standard warranty. When requesting warranty service, you present your copy of delivery record.

MODEL# _____

SERIAL# _____



ATTENTION! BECOME ALERT!

YOUR SAFETY IS INVOLVED!

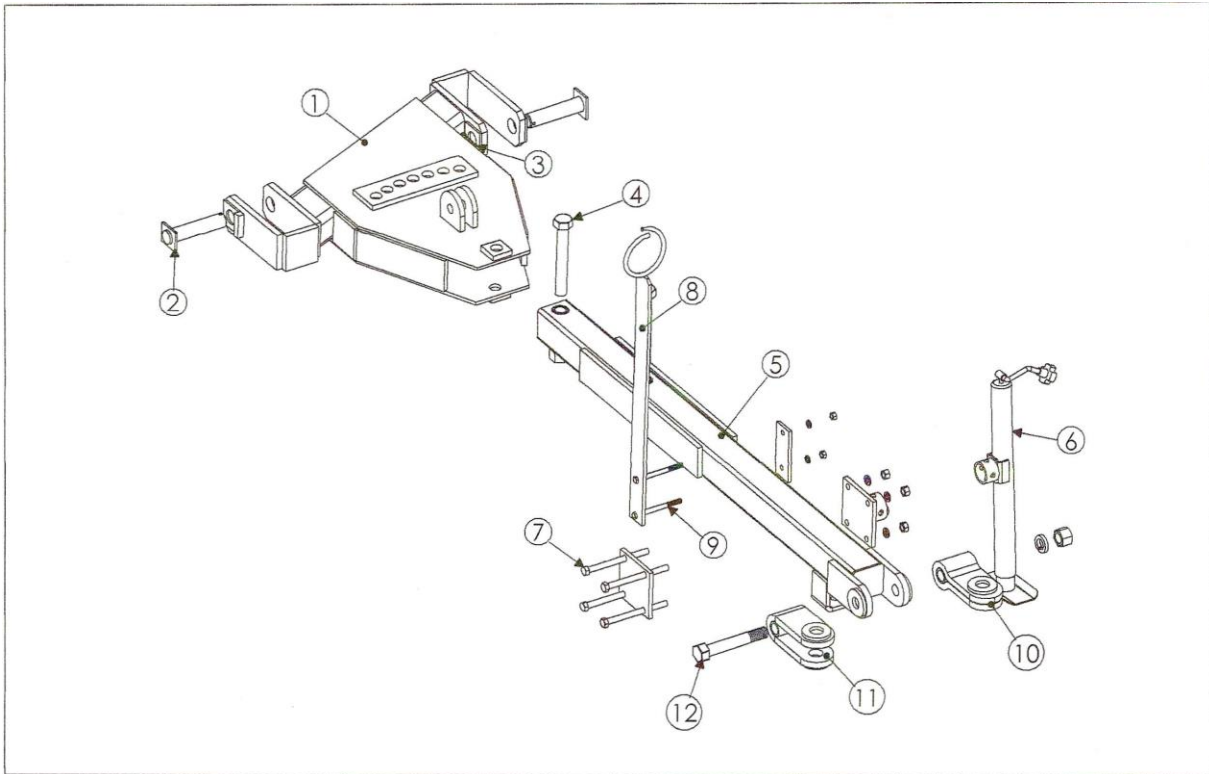
This Symbol is used to call your attention to safety precautions. That should be followed by the operator to avoid accidents. When you see this – Heed Its Warning.

Many hours of lost time and much suffering is caused by the failure to practice simple safety rules.

1. **READ** this manual carefully to acquaint your – self with the Disk Harrow. Opening unfamiliar equipment can cause accidents.
2. **Lower Implement** if possible, when adjusting maintenance work; otherwise **BLOCKS IT SECURELY** at a workable height.
3. **When Implement** and tractor is parked always lower disk to the ground and place a **FLAG OR OTHER WARNING DEVICE** on each corner as someone could run or bump into the implement.
4. Implement should be **DETACHED ONLY** in an area where Children **DO NOT PLAY**.
5. **DO NOT** wear loose fitting clothing that could catch on various parts.
6. Machinery should be **OPERATED ONLY** by those who are **RESPONSIBLE AND DELEGATED** to do so.
7. **ONLY ONE PERSON** – the operator – should be permitted on the tractor when implement is in operation, he should be thoroughly familiar with tractor and implement.
8. **MAKE CERTAIN** that everyone is clear before starting tractor and implement combination.
9. **BEFORE WORKING** under the any hydraulically controlled unit **MAKE SURE** it is **SECURELY BLOCKED**.
10. **The RATE OF SPEED** on hillsides or curves should be regulated so there is no danger of tipping.
11. **DO NOT** drive too close to the edge of a ditch or creek.
12. **REDUCE SPEED** when transporting unit to avoid bouncing and momentary loss of steer ability.
13. **MAKE CERTAIN** tractor is equipped with sufficient front-end weight to counter-balance the plow weight and maintain stability of front of tractor
14. **DO NOT** attempt to operate tractor and implement unless you are in the driver seat.
15. **ALWAYS** place transmission in **PARK or NEUTRAL, LOCK BRAKES, STOP ENGINE AND REMOVE START KEY** before dismounting from the tractor.
16. **NEVER** stand between tractor and disc when hitching.
17. **PROVIDE** a first aid kit. Treat all scratches, cuts, etc. with proper antiseptic immediately.
18. If **DECALS** become damaged or come off, they should be replaced immediately.
19. **REMEMBER** that safe operation is no accident.

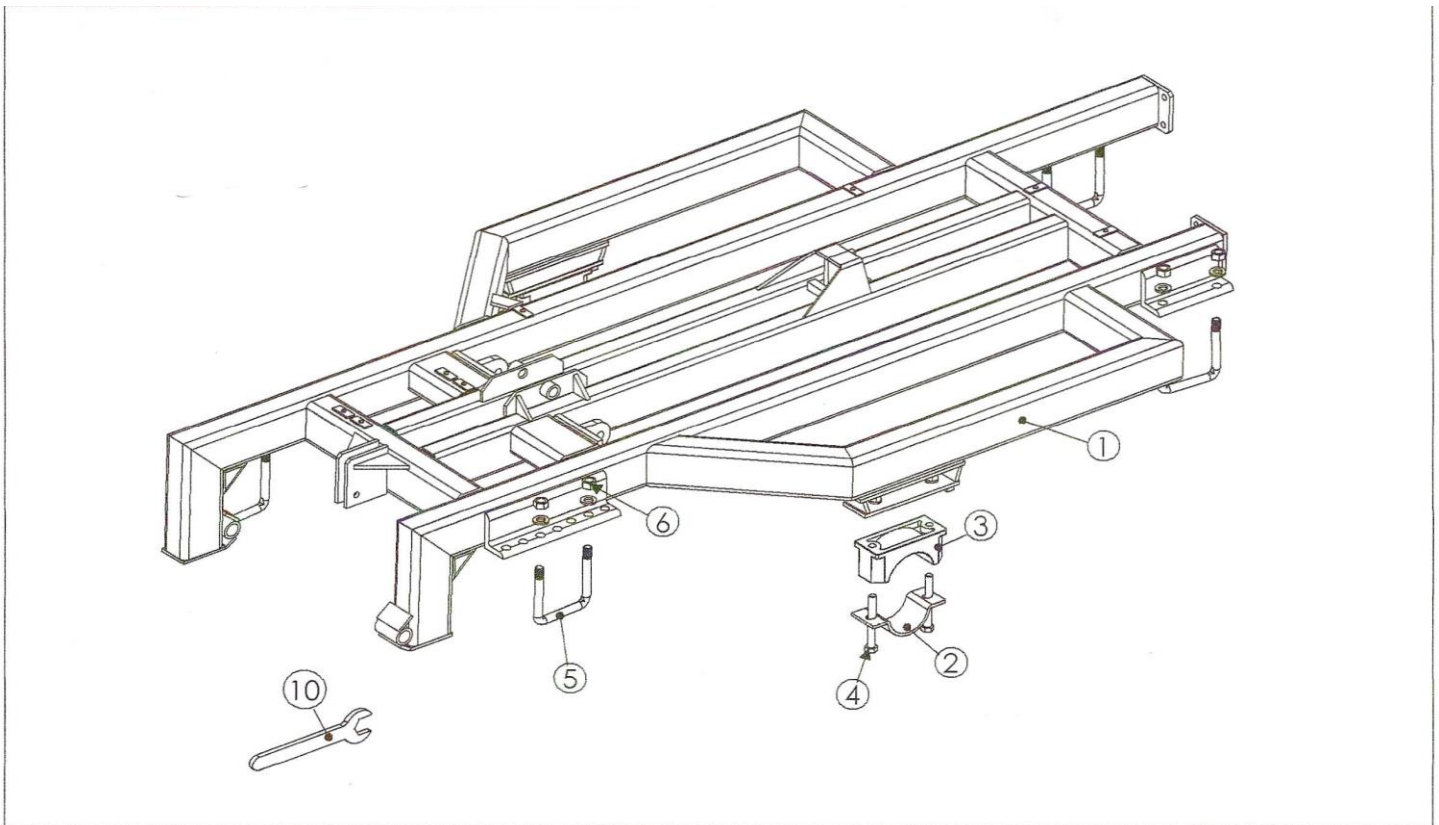
ON HIGHWAY OPERATION

1. Use the **SLOW-MOVING** vehicle emblem in daytime and approved warning lights at night, or during other periods of poor visibility, to prevent highway accidents.
2. **COMPLY** with Local highway regulation concerning moving machinery on highways.
3. **MAINTAIN** complete control of machines at all times when traveling on the highway
4. Due to the width of implement, **USE EXTRA CAUTION** on highways, far lanes and when approaching gates



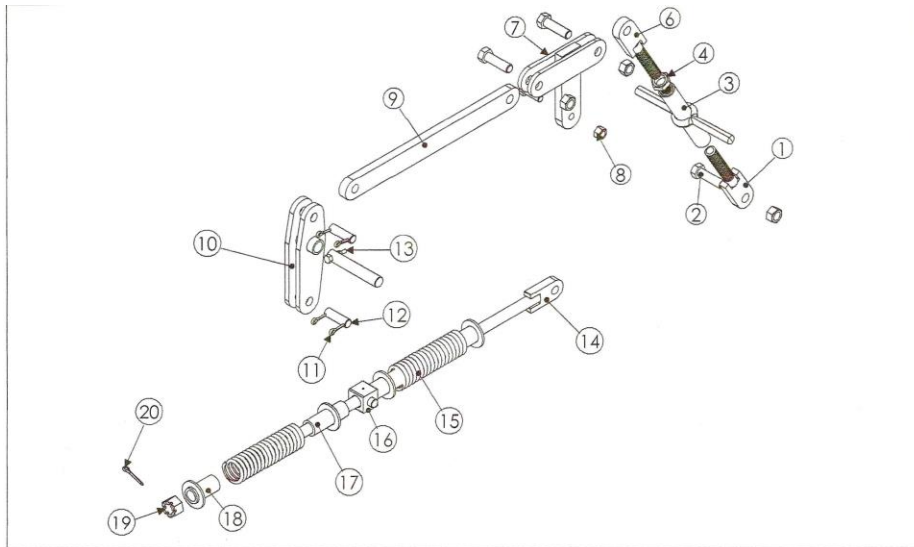
BT-W - CROSS MEMBER

REF #	PART #	DESCRIPTION	WT/LB.
1	BT-W-2	CROSS MEMBER	260.0
2	BT-20-15	PIN - HITCH	6.0
	CP5163	COTTER PIN - 5/16" X 3" LG.	0.1
3	CS1149-8	BOLT - 1 1/4" NC. X 9" LG. GR. 5	1.0
	N114	NUT - 1 1/4"	0.6
4	ON-7	DRAW BAR	123.0
5	OX-138	HITCH JACK - 5000 LB. (INC. ALL MTG. PARTS)	17.0
6	CS588-5	BOLT - 5/8" NC. X 8" LG. GR. 5	0.2
	LW58	LOCK WASHER - 5/8"	0.1
	N58	NUT - 5/8"	0.1
7	ON-139	HOSE GUIDE W/CLAMP	12.0
8	CS121712-5	BOLT - 1/2" NC. X 7 1/2" LG. GR. 5	0.3
	LW12	LOCK WASHER - 1/2"	0.1
	N12	NUT - 1/2"	0.1
9	ON-8	TONGUE - SINGLE TYPE	19.0
10	ON-8C	TONGUE - CLEVIS TYPE	19.0
11	ON-126	BOLT - TONGUE, HITCH	3.0
	LW114	LOCK WASHER - 1 1/4"	N/A
	N114	NUT - 1 1/4"	N/A



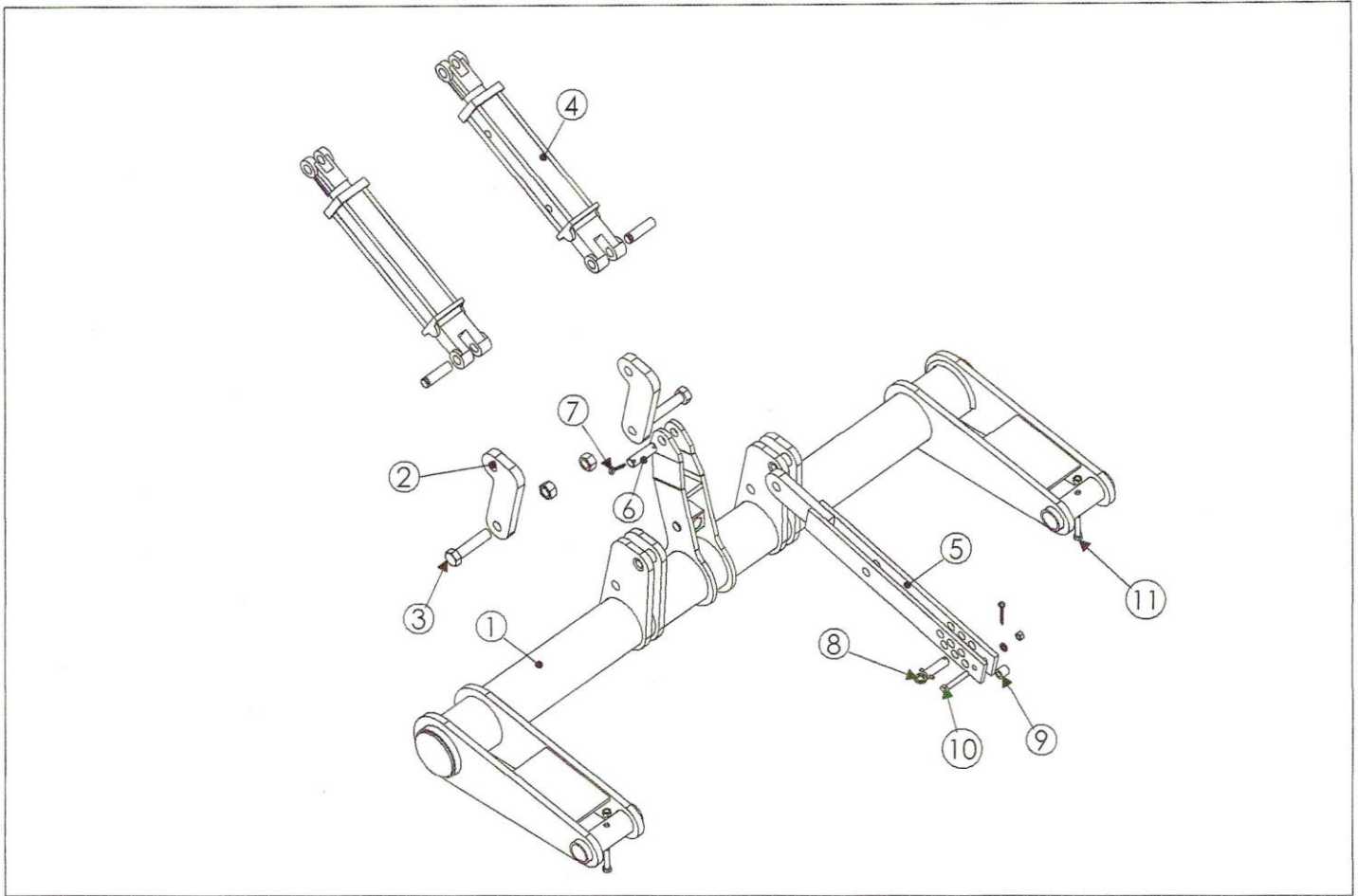
BT-W - MAIN FRAME

REF #	PART #	DESCRIPTION	WT/LB.
1	BT-W-1	MAIN FRAME	1390.0
2	ON-69	CAP - AXLE, MTG.	9.0
3	ON-68B	BLOCK - AXLE W/GREASE ZERK	29.1
	7000	GREASE KERK	0.1
4	CS78712-5	BOLT - 7/8" NC. X 7 1/2" LG. GR. 5	1.5
	LW78	LOCK WASHER - 7/8"	0.1
	N78	NUT - 7/8"	0.2
5	BT-W-8-80	U - BOLT	4.5
6	LW1	LOCK WASHER - 1"	0.1
	N1	NUT-1"	0.2
7	ON-230	WRENCH	7.0



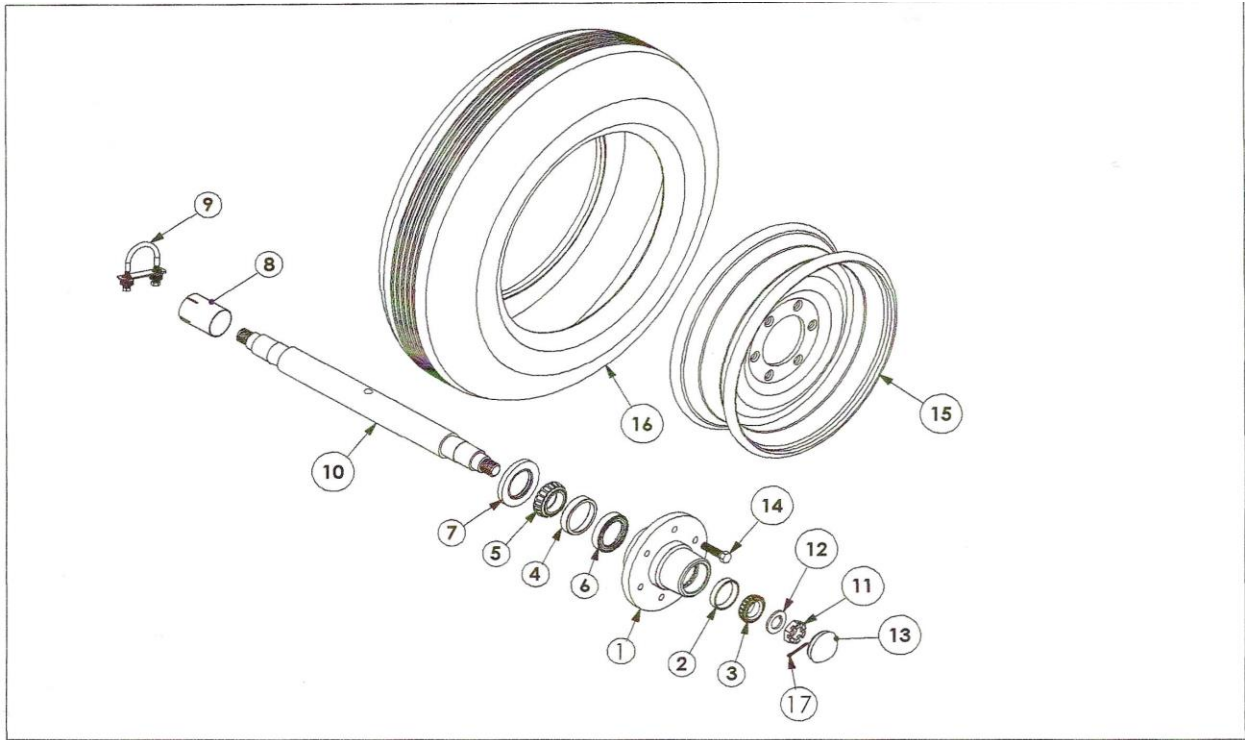
LEVELING ROD ASSEMBLY

REF #	PART #	DESCRIPTION	WT/LB.
1	ON-11	BOLT - TURNBUCKLE L.H. THD.	5.0
2	CS1312-5	BOLT - 1" NC. X 3 1/2" LG. GR. 5	N/A
	LN1	LOCK NUT - 1"	N/A
3	ON-10	BODY - TURNBUCKLE	10.2
4	JN114	JAM NUT - 1 1/4"	0.4
5	ON-9	BOLT - TURNBUCKLE R.H. THD.	5.0
6	BT-W-27	HAMMER LEVELING	17.5
7	CS34134-5	BOLT - 3/4" NC. X 3 1/4" LG. GR. 5	N/A
	LN34	LOCK NUT - 3/4"	N/A
8	BT-20-26	LINK - LEVELING	21.0
9	BT-20-29	ROCKER WELDMENT (SWIVEL)	13.9
10	OH-148	PIN, ROCKER	0.7
11	CP142	COTTER PIN - 1/4" X 2" LG.	0.3
12	OH-145	PIN - CROSS	2.5
13	CS38212-5	BOLT - 3/8" NC. X 2 1/2" LG. GR. 5	N/A
	LW38	LOCK WASHER - 3/8"	N/A
	N38	NUT - 3/8"	N/A
14	BT-W-149	LEVELING ROD	23.5
15	OH-150	SPRING - LEVELING	5.8
16	BT-20-08-16	SWIVEL, LEVELING ROD	1.0
17	BT-20-52	SPRING GUIDE - DOUBLE	1.9
18	BT-20-53	SPRING GUIDE - SINGLE	1.9
19	SN114	SLOTTED NUT 1 1/4" NC., HEX	0.5
20	CP142	COTTER PIN - 1/4" X 2" LG.	0.3



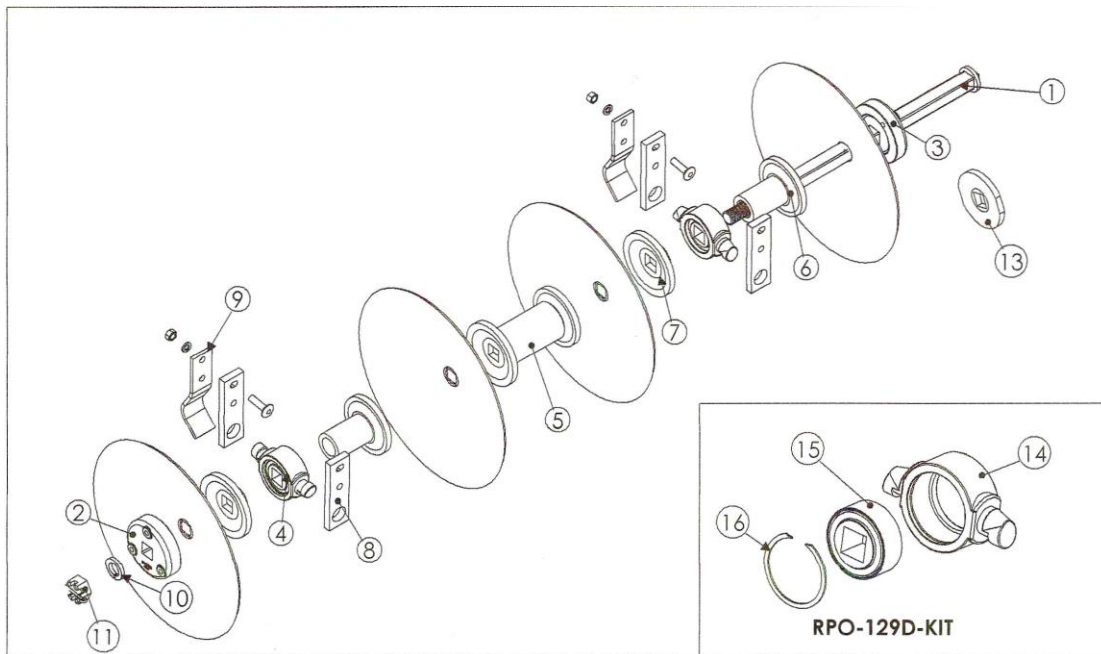
BTO-W-AXLE

REF #	PART #	DESCRIPTION	WT/LB.
1	BT-W-3	AXLE WELDMENT	332.0
2	BT-W-4	AXLE SCISSOR	N/A
	CS14-5	BOLT - 1" NC. X 4" LG. - GR. 5	1.2
3	LN1	LOCK NUT - 1"	0.1
4	OH-172	HYD. CYLINDER (PINS INCLUDED)	34.0
5	BT-W-5	SET BAR	0.7
6	OH-148	PIN	0.5
7	CP142	COTTER PIN - 1/4" X 2" LG.	0.1
8	OH-136	SET BAR PIN	0.6
	HP6	COTTER - HAIR PIN TYPE #6	0.1
9	OH-125-A	BUSHING - SPACER, SET BAR	0.2
10	CS12234-5	BOLT - 1/2" NC. X 2 3/4" LG. GR. 5	0.2
	LW12	LOCK WASHER - 1/2"	0.1
	N12	NUT - 1/2"	0.1
11	CS12314-5	BOLT - 1/2" NC. X 3 1/4" LG. GR. 5	N/A
	LN12	LOCK NUT - 1/2"	N/A



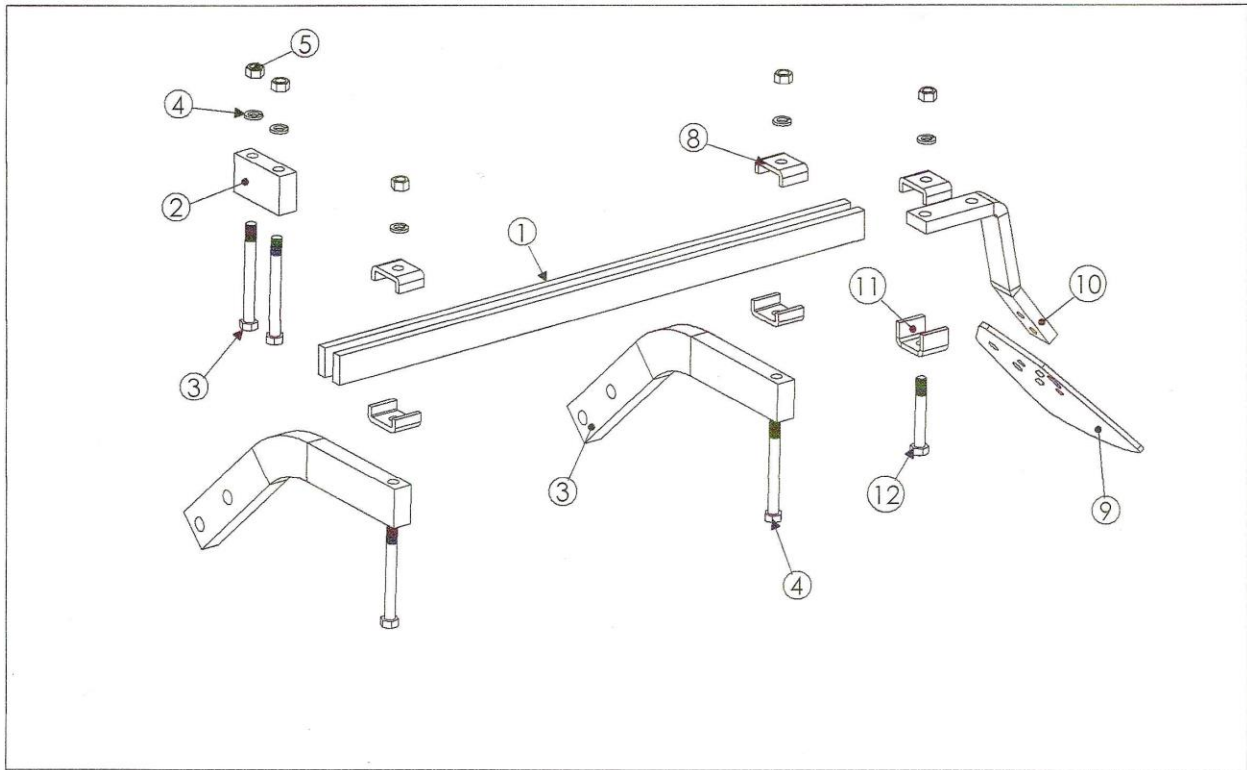
BTO-W-SPINDLE ASSEMBLY

REF #	PART #	DESCRIPTION	WT/LB.
1	DSH-302	HUB	10.0
2	DSH-303	BEARING CUP, OUTER	0.1
3	DSH-304	BEARING CONE, OUTER	0.3
4	DSH-305	BEARING CUP, INNER	0.2
5	DSH-306	BEARING CONE, INNER	0.4
6	DSH-307	INNER SEAL	0.1
7	DSH-308	OUTER SEAL	0.1
8	DSH-309	TUBING SLEEVE	0.3
9	DSH-310	CLAMP ASSY.	0.3
10	BT-20-312	SLIP IN SPINDLE	9.0
11	DSH-313	SLOTTED NUT	0.1
12	DSH-314	SPINDLE WASHER	0.01
13	DSH-316	DUST CAP	0.2
14	DSH-318	LUG BOLT - (1/2" NF, X 1" LG.)	0.1
15	JJ-19	WHEL - 15 X 6, 6 (1/2)	23.0
16	JJ-20	TIRE - 7.60-15, RIB 6 PLY.	24.0
17	DSH-315	COTTER PIN - 1/8" X 1 1/2" LG.	0.1



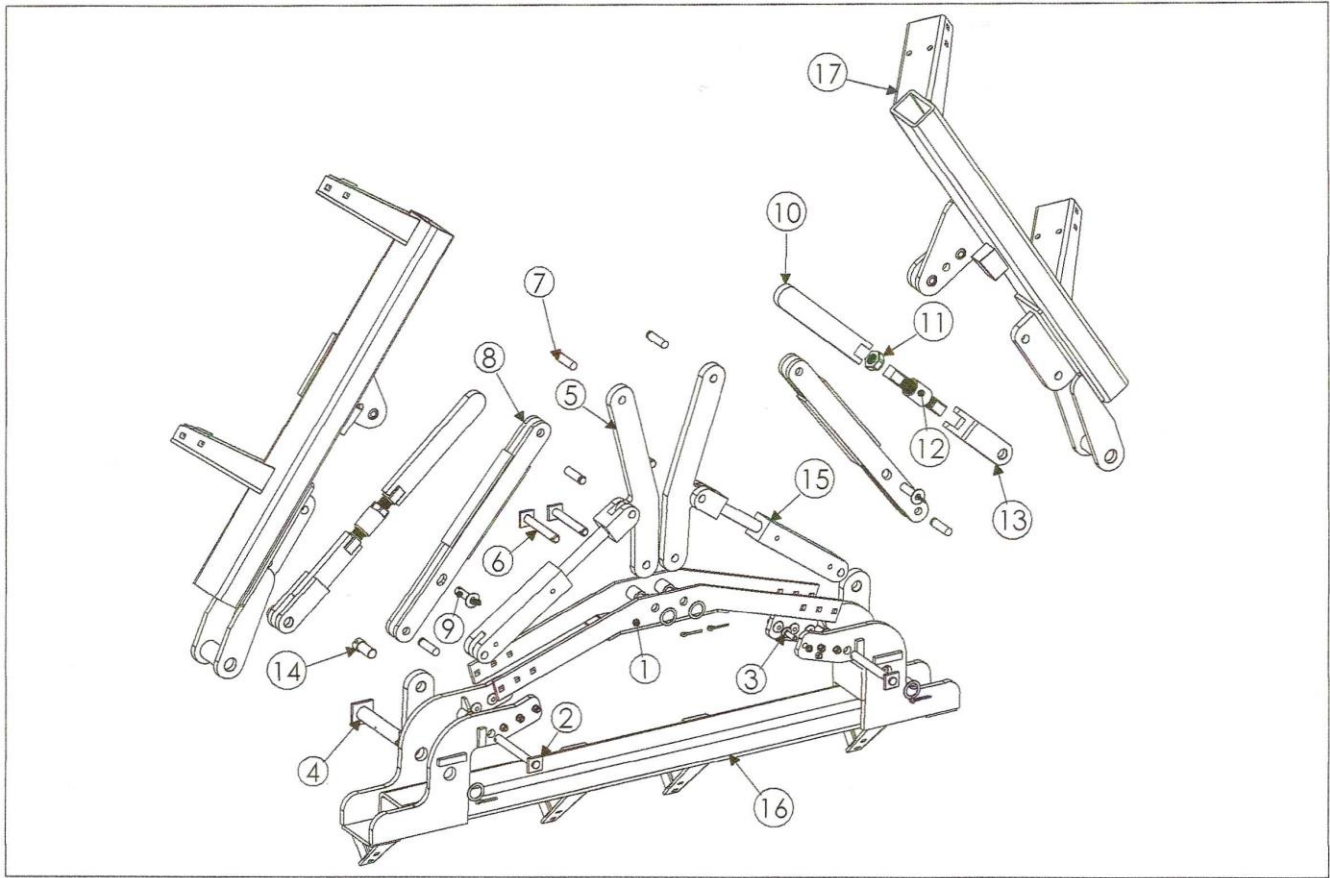
BTO-W-GANG ASSEMBLY

REF #	PART #	DESCRIPTION	WT/LB.
1	XGR-4	GANG ROD - 1 1/2" SQ, 4 BLADE, 9"	20.0
	XGR-5	GANG ROD - 1 1/2" SQ, 5 BLADE, 9"	26.0
	XGR-6	GANG ROD - 1 1/2" SQ, 6 BLADE, 9"	32.0
	XGR-7	GANG ROD - 1 1/2" SQ, 7 BLADE, 9"	38.0
2	JXE-18	EXT. WASHER - CVX, 1 1/2" SQ.	9.0
3	JXE-19	EXT WASHER - CCV, 1 1/2" SQ.	8.0
4	RPO-129D-KIT	BRG. ASSY 1 1/2" EAR TYPE	11.4
5	RPO-104	FULL SPOOL - 1 1/2" SQ, 9"	19.4
6	RPO-113	HALF SPOOL - CVX, 1 1/2" SQ.	10.7
7	RPO-114	HALF SPOOL - CCV, 1 1/2" SQ.	5.8
8	RPO-117	MTG. STRAP - FLAT, BRG.	3.7
9	RPO-133	OFFSET BEARING GUARD	7.5
10	LW112	LOCK WASHER - SPRING	0.2
11	SN112	SLOTTED NUT - 1 1/2" NC.	0.8
12	CP143	COTTER PIN	N/A
13	X98	END WASHER UNIVERSAL 1 1/2" SQ.	4.7
14	RPO-81	BEARING HOUSING - 1 1/2" SQ, EAR TYPE	6.4
15	RPO-103D	GANG BEARING ASSY. 1 1/2" SQ.	3.5
16	RPO-99	RETAINING RING	0.1



BTO-W-CLEANER BARS

REF #	PART #	DESCRIPTION	WT/LB.
1	BT-W-09	CLAENER BARS - 4 BLADE	N/A
	BT-W-10	CLAENER BARS - 5 BLADE	N/A
	BT-W-11	CLAENER BARS - 6 BLADE	N/A
	BT-W-12	CLAENER BARS - 7 BLADE	N/A
	BT-W-13	CLAENER BARS - 8 BLADE	N/A
	BT-W-14	CLAENER BARS - 10 BLADE (CENTER GANGS)	N/A
2	BT-W-16	BLOCK - CLEANER BAR (CENTER ONLY)	N/A
3	CS125-5	BOLT - 1/2" NC. X 5 LG. GR. 5	N/A
4	LW12	LOCK WASHER - 1/2"	N/A
5	N12	NUT-1/2"	N/A
6	RPO-214	SUPPORT CLEANER BAR	9.7
7	CS12434-5	BOLT - 1/2" NC. X 4 3/4" LG. GR. 5	0.3
8	RPO-120	SCRAPER - CLIP ARM	0.4
9	RPO-115	SCRAPER - BLADE	2.5
10	RPO-116+CLIP	SCRAPER - ARM W/ RPO-116-A CLIP	3.0
11	RPO-116-A	CLIP - SCRAPER ARM	0.3
12	CS12312-5	BOLT - 1/2" NC. X 3 1/2" LG. GR. 5	0.3

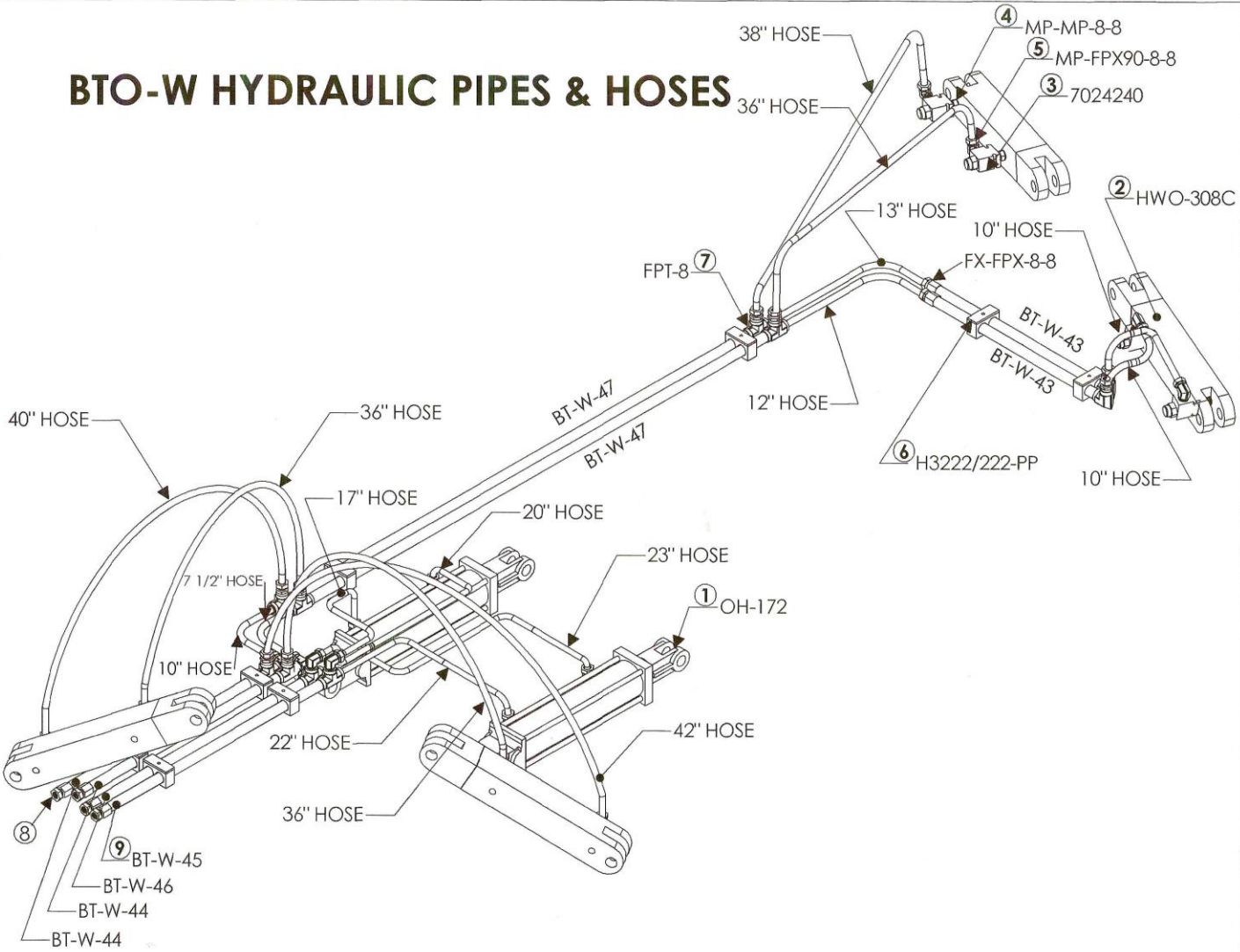


CENTER GANG ASSEMBLY

REF #	PART #	DESCRIPTION	WT/LB.
1	BT-W-25	CONNTECTORS-CENTER GANG	64.0
2	BT-W-32	PIN - CENTER GANG	2.5
	FW114	FLAT WASHER - 1 1/4"	0.1
	CP143	COTTER PIN - 1/4" X 3" LG.	0.1
3	CB582-5	CARRIAGE BOLT - 5/8" X 2" LG. GR. 5	0.2
	LW58	LOCK WASER - 5/8"	0.1
	N58	NUT - 5/8"	0.1
4	BT-W-31	ARM - PIVOT	7.5
	FW-134	FLATWASHER - 1 1/4"	0.2
	CP516134	COTTER PIN - 5/16" X 1 3/4" LG.	0.1
5	BT-W-26	ARM - PIVOT	28.0
6	BT-W-33	PIN - PIVOT ARM	2.0
	FW114	FLAT WASHER - 1 1/4"	0.1
	CP143	COTTER PIN - 1/4" X 3" LG.	0.1
7	JHC-3127	PIN - CLEVIS	0.8
8	BT-W-27	LINK	N/A
9	BT-W-10-10	PIN - HITCH	2.0
10	BT-W-28	BOLT - TURNBUCKLE LH. THRDS.	16.0
11	JN112	JAM NUT - 1 1/2"	0.6

REF #	PART #	DESCRIPTION	WT/LB.
12	BT-W-29	BODY - TURNBUCKLE	5.0
13	BT-W-30	BOLT - TURNBUCKLE R.H. THRDS	20.0
14	BT-W-34	PIN - R.H. BOLT	1.5
15	HWO-308C	HYD. CYLINDER - 3" X 8" STROKE	26.0
16	BT-W-9	GANG FRAME - 10 BLD. FRONT	N/A
	BT-W-10	GANG FRAME - 10 BLD. REAR	N/A
17	BT-W-11	GANG FRAME - 4 BLD. LEFT FRONT	N/A
	BT-W-12	GANG FRAME - 5 BLD. LEFT FRONT	N/A
	BT-W-13	GANG FRAME - 6 BLD. LEFT FRONT	N/A
	BT-W-14	GANG FRAME - 7 BLD. LEFT FRONT	N/A
	BT-W-15	GANG FRAME - 4 BLD. RIGHT FRONT	N/A
	BT-W-16	GANG FRAME - 5 BLD. RIGHT FRONT	N/A
	BT-W-17	GANG FRAME - 6 BLD. RIGHT FRONT	N/A
	BT-W-18	GANG FRAME - 4 BLD. LEFT REAR	N/A
	BT-W-19	GANG FRAME - 5 BLD. LEFT REAR	N/A
	BT-W-20	GANG FRAME - 6 BLD. LEFT REAR	N/A
	BT-W-21	GANG FRAME - 4 BLD. RIGHT REAR	N/A
	BT-W-22	GANG FRAME - 5 BLD. RIGHT REAR	N/A
	BT-W-23	GANG FRAME - 6 BLD. RIGHT REAR	N/A
	BT-W-24	GANG FRAME - 7 BLD. RIGHT REAR	N/A

BTO-W HYDRAULIC PIPES & HOSES



BTO-W HYDRAULIC PIPES & HOSES

REF #	PART #	DESCRIPTION	WT/LB.
1	OH-172	HYDRAULIC CYLINDER - 3 1/2" X 12" (AXLE)	34.0
2	OH-308C	HYDRAULIC CYLINDER - 3" X 8" (WING)	26.0
3	7024240	BLOCK - VALVE	N/A
4	MP-MP-8-8	1/2" MP TO 1/2" MP	N/A
5	MP-FPX90-8-8	1/2" MP TO 1/2" FP SWIVEL 90	N/A
6	H3222/222-99	CLAMP	N/A
7	FPT-8	FEMALE PIPE TEE	N/A
8	FP-FPX-8-8	FEMALE PIPE - FEMALE PIPE SWIVEL - STRAIGHT	N/A
9	BT-W-43	HYDRAULIC PIPE - BTO WING 20"	N/A
	BT-W-44	HYDRAULIC PIPE - BTO WING 23"	N/A
	BT-W-45	HYDRAULIC PIPE - BTO WING 25"	N/A
	BT-W-46	HYDRAULIC PIPE - BTO WING 26"	N/A
	BT-W-47	HYDRAULIC PIPE - BTO WING 55 1/2"	N/A



DOMRIES ENTERPRISES, INC.

12281 Road 29, Madera CA 93638 • (P) 559-673-9143 • (F) 559-673-4110

WARRANTY

Under this warranty Domries' obligation shall be limited to repairing or replacing, free of charge to the original purchaser, any defective part. Each part is subject to our assessment, and must show evidence of a manufacturing defect.

Product will be returned to Domries, routed through the dealer from whom the purchase was made. The cost of the repair or replacement shall not be higher than the purchase price of the product, excluding tax, shipping, and installation charges.

A claim for warranty must be made with a Domries Warranty Form with a work order number.

An authorized work order number is **REQUIRED** prior to any field/repair work to be done by Domries.

RETURN GOODS

Domries reserves the right of requiring the prepaid return of any parts claimed to be defective. However, **NO** parts shall be returned **without** Domries warranty form with a work order number. Goods shall be returned to such location as shall be designated by Domries.

Domries will at its discretion, either repair, replace, or freight outbound product from Domries factory. Domries will inspect all parts for defectiveness in materials and/or workmanship. Wear and tear that is determined to be defective, are subject to an adjustment based upon useful life.

REPAIR

Domries will not accept any charges other than its direct Dealer shop labor costs and parts required to repair such parts and/or workmanship at the Dealers place of business. The **WARRANTY** specifically excludes any charges for delivery, transportation, and/or shipping costs.

If the dealer is requested by the customer to travel or haul the machine to its shop or repair shop for the purpose of performing a warranty obligation or free inspection, it would be for the customer's convenience, and the cost of such a trip is to be paid by the customer. Any arrangement whereby the Dealer agrees to absorb all or a part of the cost is to be made **SOLELY** between the Dealer and the Customer (to be considered a courtesy to the customer by their Dealer).

LIMITED WARRANTY

Outside purchased equipment and accessories (not of Domries manufacture) are warranted only to the extent of the original manufacturer's warranty to Domries. Examples of limited items include, Hydraulic cylinders and hoses, Bearings, Disc Blades, Wheels, Tires, Tubes, and Seals.

NO WARRANTY

1. New product that has been subjected to operation in excess of recommended capacities, misused, negligence, lack of maintenance, an accident or have been ***altered/repared in any manner not authorized by Domries.***
2. Sharp turns while machine/cutting parts are in the ground void warranty, with the exception of a drag disc.

Domries shall in no event be responsible for any delay or any other consequential or indirect damage in connection with fulfilling any obligation under this WARRANTY.

Domries reserves the right to make change at any time in designs, materials and/or specifications of its product without becoming liable or obligated in any way to make similar changes in previously manufactured products.

This ***WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES COVERING DOMRIES PRODUCTS*** and no other warranties expressed or implied are made or authorized by Domries Enterprises, Inc.

DEALER/SALESMAN: _____ **DATE:** _____

DOMRIES REP.: _____ **DATE:** _____