



Expressway Slotted Trip Reversible Plow

Maintenance and Parts Manual



MONROE TRUCK EQUIPMENT
1051 W. 7th Street
Monroe, WI 53566
Phone: 608-328-8127
Fax: 608-329-8488

*05051950
11/5/2012*

TABLE OF CONTENTS

SAFETY INSTRUCTIONS	Page 2
MAINTENANCE INSTRUCTIONS	Page 3
TORQUE CHART	Page 3
GENERAL INFORMATION	Page 4
REPLACEMENT PARTS	Page 6-19
HOW TO ORDER PARTS	Page 20
RETURN POLICY	Page 20
WARRANTY INFORMATION	Page 21-23

SAFETY INSTRUCTIONS

- Read all installation, safety and maintenance instructions completely before operating this equipment
- Keep all personnel clear of moving parts while equipment is being operated.
- Do not operate equipment in need of maintenance! Repair immediately!
- While operating this equipment, use common sense, use caution, be alert and be safety-conscious.



CAUTION: “Stacking” (piling) of snow with a push plow is not recommended.

Raising the plow too high while stacking can damage the plow and mount by causing the lift arm to fold up and contact the moldboard.

Do not lift the plow more than 18” off the ground with piling and stacking snow.

Where possible, start the snow season by pushing snow as far back as possible from the area begin plowed to avoid having to move or stack it later.

MAINTENANCE INSTRUCTIONS

In Season:

- Check for loose bolts and nuts daily, and re-torque before use. (Failure to inspect equipment on a daily basis may seriously affect safety and/or efficiency.)
- Lubricate all grease fittings every ten hours of normal use and more frequently under heavy use.
- A cross over relief valve (30GPM Minimum) MUST be plumbed into the plow reversing circuit. The crossover relief valve pressure settings must NOT exceed 1800psi for 3" reversing cylinder and 1000psi for 4" reversing cylinder.
- Check all hydraulic fittings for tightness on a regular basis.
- System pressure should NOT exceed 2000 PSI.
- Check cutting edge for wear. Do not let cutting edge wear closer than .5" to .375" from the bottom angle of the moldboard.
- Due to the nature of use and environment this equipment is operating in, damage and wear may occur at anytime. Therefore, **Monroe Truck Equipment** recommends the end user establish and follow a daily inspection routine before using this equipment.

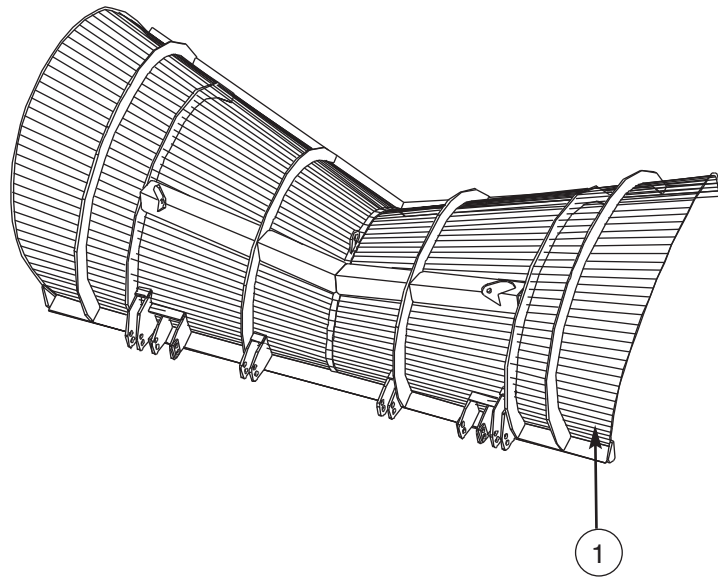
Off Season:

- Use care when disconnecting hydraulic lines to assure that no dirt or foreign objects enter the hydraulic system. Use caps to cover hydraulic hose fittings and insert \ plugs in hydraulic ports.
- Hydraulic cylinders should be fully retracted when stored during the off season to prevent damage or corrosion. The remaining exposed shaft surface should be coated with a thick grease to prevent corrosion, which must be removed before returning to regular service.
- Check mounting bolts for wear and/or damaged threads and replace before next season.

GENERAL INFORMATION

- Location descriptions are noted in direction of travel. (i.e. front, rear, left and right.)
- Delivery of replacement parts is subject to our sales delivery terms.
- Use only **Monroe Truck Equipment** O.E.M. replacement parts. Failure to do so will void warranty.
- Replacement parts listed in this manual reflect our most common plow items. If you do not find the part you require, please call your distributor.
- **Monroe Truck Equipment** reserves the right to make revisions or alterations to this parts manual without notice.

NOTES



MOLDBOARD WELDMENT, EXPRESSWAY FULL TRIP REVERSIBLE PLOW

ITEM	QTY	PART #	DESCRIPTION
1	1	00048640	Moldboard Weldment, Plow, MPHS40-58-11-ST, 10 Guage
	1	00072573	Moldboard Weldment, Plow, MPHS40-58-12-ST, 10 Guage
	1	00072595	Moldboard Weldment, Plow, MPHHS48-66-11-ST, 10 Guage
	1	00072596	Moldboard Weldment, Plow, MPHS48-66-12-ST, 10 Guage
2	1	00072566	Moldboard Weldment, Plow, MPHS40-58-11-ST, 316
	1	00072570	Moldboard Weldment, Plow, MPHS40-58-12-ST, 316
	1	00072597	Moldboard Weldment, Plow, MPHS48-66-11-ST, 316
	1	00072598	Moldboard Weldment, Plow, MPHS48-66-12-ST, 316

CUTTING EDGE KIT, 5/8" X 8"

ITEM	QTY	PART #	DESCRIPTION
1	1	05031016	Cutting Edge, 5/8" X 8" X 11', CPCS
		05031017	Cutting Edge, 5/8" X 8" X 12', CPCS
2	13/14	05014551	Bolt, 5/8-11 X 2 1/2", G8, DH, Plain
3	13/14	05021383	Washer, 5/8", Lock, Heavy, Zinc
4	13/14	05020270	Nut, 5/8-11, G8, Hex, Zinc

57905
35762

CARBIDE CUTTING EDGE KIT, 3/4" X 6", 11'

ITEM	QTY	PART #	DESCRIPTION
1	1	05031082	Cutting Edge. 3', 3/4" X 6", Carbide, TPCS
2	2	05031083	Cutting Edge, 4', 3/4" X 6", Carbide, TPCS
3	1	05031031	Cutting Edge, 11', 1/2" X 6", TPCS
4	13	05014553	Bolt, 5/8-11 X 3", G8, DH, Plain
5	17	05021383	Washer, 5/8", Lock, Heavy, Zinc
6	17	05020270	Nut, 5/8-11, G8, Hex, Zinc
7	4	05014551	Bolt, 5/8-11 X 2 1/2", G8, DH, Plain

55931

CARBIDE CUTTING EDGE KIT, 3/4" X 6", 12'

ITEM	QTY	PART #	DESCRIPTION
1	3	05031083	Cutting Edge, 4', 3/4" X 6", Carbide, TPCS
2	1	05031032	Cutting Edge, 12', 1/2" X 6", TPCS
3	14	05014553	Bolt, 5/8-11 X 3", G8, DH, Plain
4	18	05021383	Washer, 5/8", Lock, Heavy, Zinc
5	18	05020270	Nut, 5/8-11, G8, Hex, Zinc
6	4	05014551	Bolt, 5/8-11 X 2 1/2", G8, DH, Plain

55932

RUBBER CUTTING EDGE KIT, 1 1/2" X 10", 11'

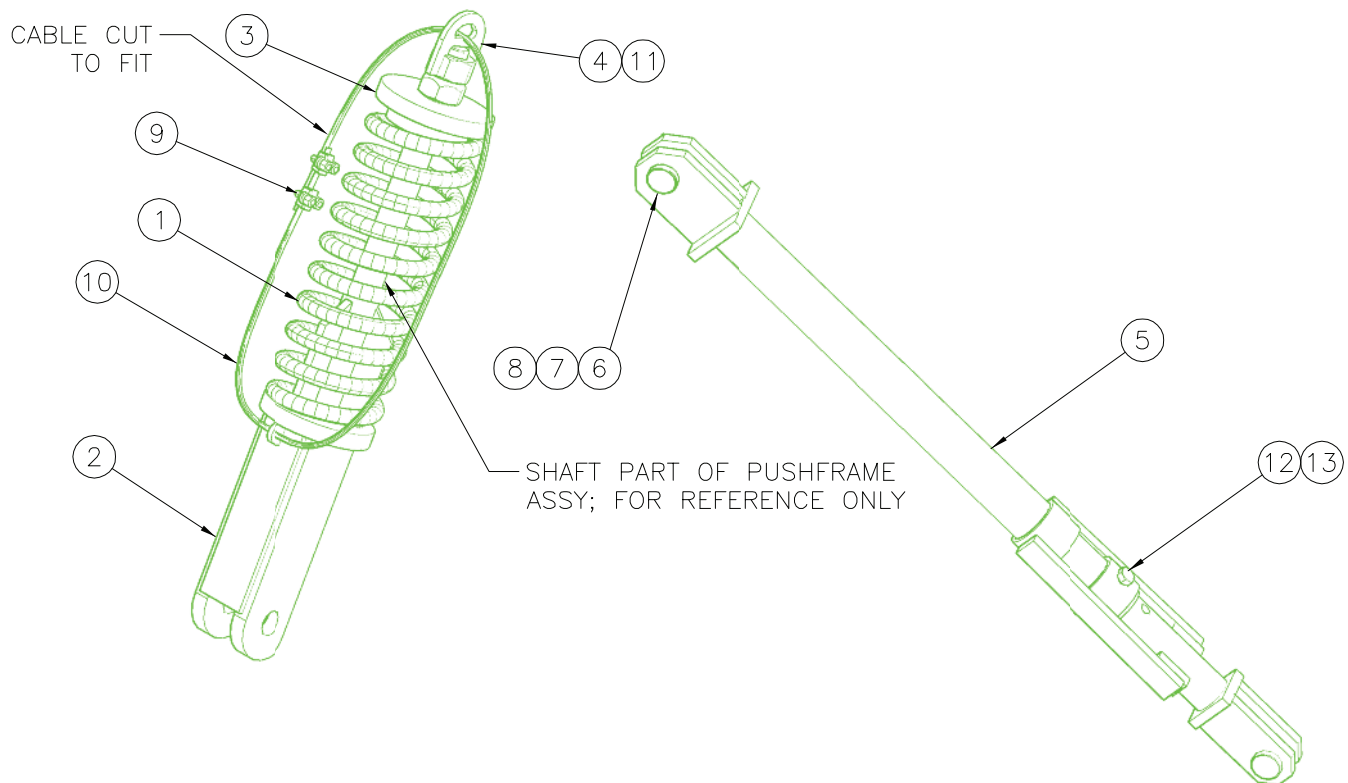
ITEM	QTY	PART #	DESCRIPTION
1	1	05031023	Cutting Edge, 11', 1 1/2" X 10", Rubber, CP SLTD
2	1	05031031	Cutting Edge, 11', 1/2" X 6", TPCS
3	13	05014560	Bolt, 5/8-11 X 5", G8, DH, Plain
4	13	05021383	Washer, 5/8", Lock, Heavy, Zinc
5	13	05020270	Nut, 5/8-11, G8, Hex, Zinc

55926

RUBBER CUTTING EDGE KIT, 1 1/2" X 10", 12'

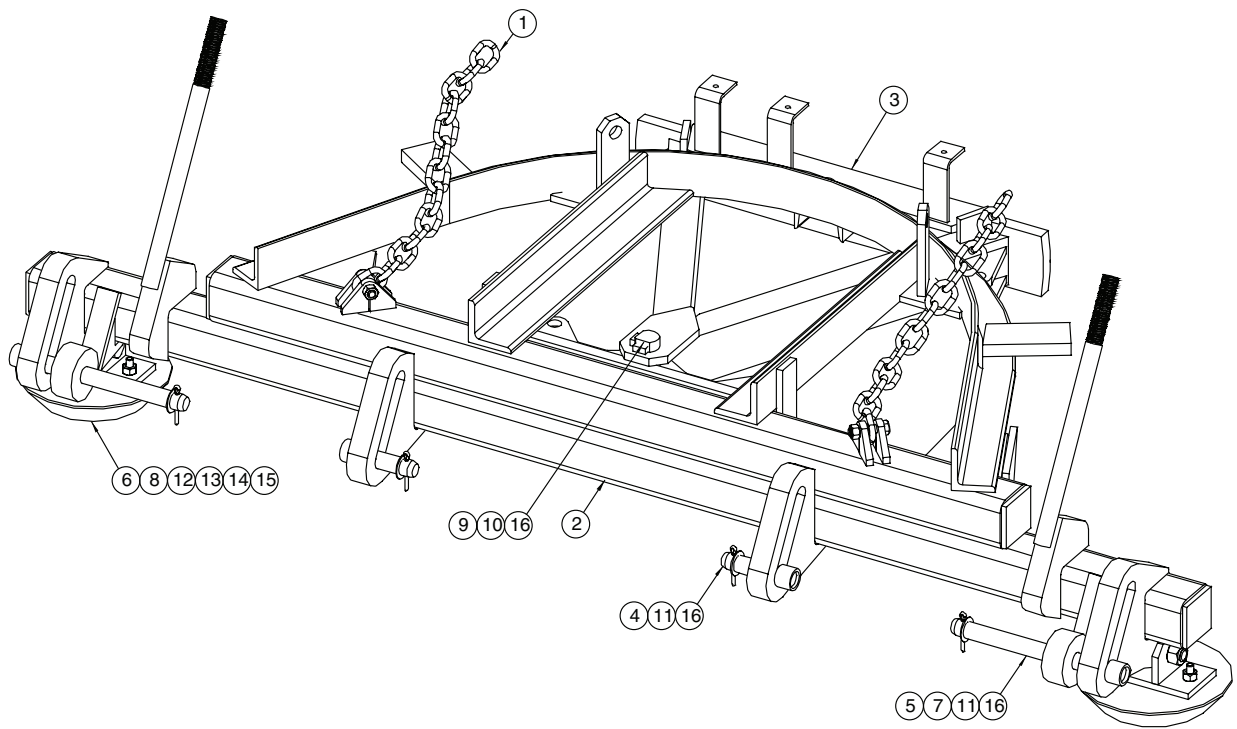
ITEM	QTY	PART #	DESCRIPTION
1	1	05031024	Cutting Edge, 12', 1 1/2" X 10", Rubber, CP SLTD
2	1	05031032	Cutting Edge, 12', 1/2" X 6", TPCS
3	14	05014560	Bolt, 5/8-11 X 5", G8, DH, Plain
4	14	05021383	Washer, 5/8", Lock, Heavy, Zinc
5	14	05020270	Nut, 5/8-11, G8, Hex, Zinc

55927



00066880 TRIP KIT, EXP, MPHS, ST

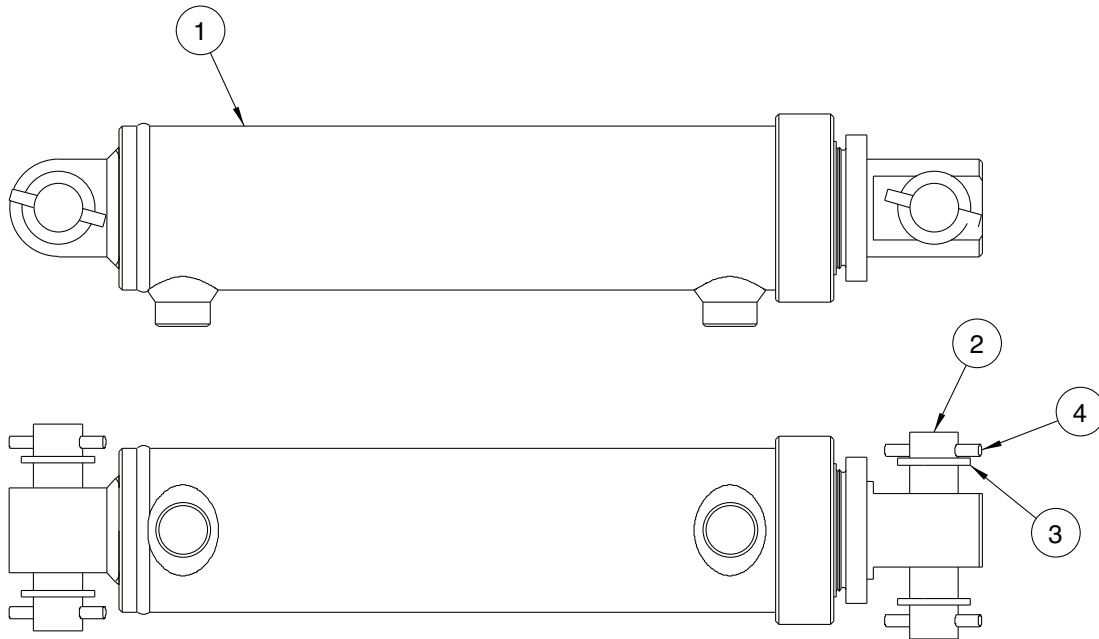
ITEM	QTY	PART #	DESCRIPTION
1	2	05035035	Spring, Compression, 5 $\frac{5}{16}$ " OD X 12 $\frac{1}{8}$ "
2	2	00024797	Spring Bracket Weldment
3	2	11102834	Spring Retainer Cap
4	2	05020835	Nut, 1 $\frac{1}{4}$ -7 UNC, GC, Toplock, C&W
5	2	00029246	Arm Weldment, Support, MP-EXP
6	4	05022051	Pin, 1" X 3 $\frac{3}{4}$ ", Flat Head
7	4	05022026	Pin, .25 x 2 OAL, Roll
8	4	05053202	Bushing, 1.5 x 1
9	4	05053212	Wire Rope Clip, 3/16"
10	8ft	05053211	Cable, .1875 DIA
11	2	00147514	Eyenut Weldment
12	2	05010111	Bolt, .5-13 x 3.5
13	2	05020847	Nut, .5-13, GC, Top Lock



PUSHFRAME KIT

ITEM	QTY	PART #	DESCRIPTION
1	1	00055943	Lift Kit, 2 Chain <i>(See page 10)</i>
2	1	00084173	Pushframe Weldment, Exp, ST, 10'-12'
3	1	00027881	A-Frame Weldment, STD, 1¼", Pivot
4	2	00024717	Pin, 1¼" X 3⅞"
5	2	00024716	Pin, 1¼" X 12¼"
6	2	00072571	Bracket Weldment, Shoe, Mushroom, MPHS, Exp <i>(See below)</i>
7	2	00084171	Wheel, Trip
8	2	05051009	Shoe, Mushroom, Tapered, 11½" X 8" DIA X 2¼" <i>(See below)</i>
9	1	05022047	Pin, 1¼" X 7¼", Flat Head, Chamfered Head
10	1	05022044	Pin, ⅝" X 3", Roll
11	4	05022007	Pin, ¼" X 2½", Cotter
12	4	05010741	Bolt, 1-8" X 4", G8, HHCS, Zinc
13	2	05010818	Bolt, 1-8" X 4", G8, HHCS, Zinc
14	4	05020837	Nut, ⅝-11, GC, Toplock, C&W
15	2	05020834	Nut, 1-8, GC, Toplock, C&W
16	1	05021316	Washer, 1¼", G5, Flat, Zinc

72572

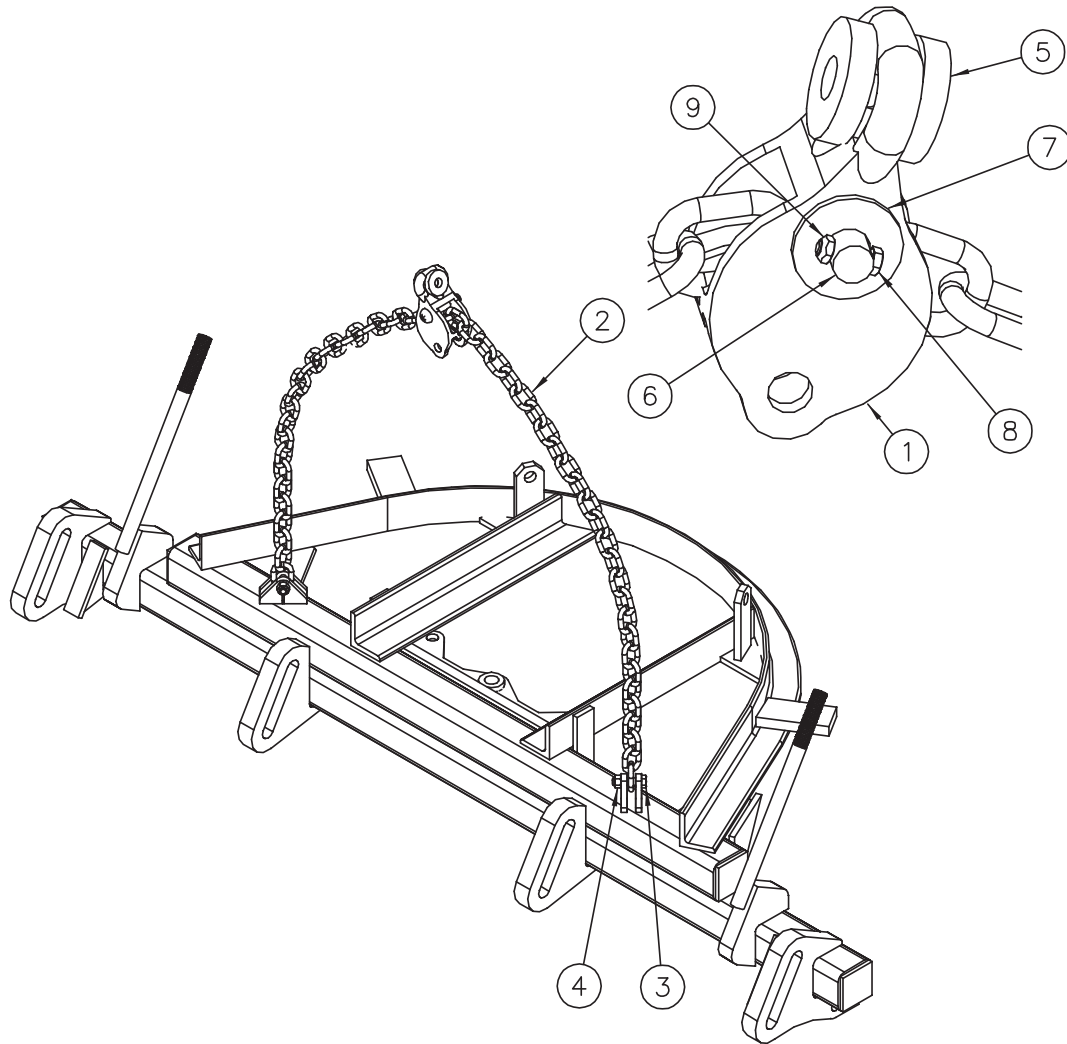


00050926 REVERSING KIT, 3 X 10 CYLINDER

ITEM	QTY	PART #	DESCRIPTION
1	2	05000000	Cylinder, 3" x 10" DA (See page 18 for breakdown)
2	4	05022040	Pin, 1" x 4¼", No Head
3	8	05021202	Bushing, 1½" x 1" x 10 Gauge, Zinc
4	8	05022026	Pin, ¼" x 2", Roll, Zinc
5	1	05043067	Cushion Block Assembly, w/ Hose (Not Shown)
6	1	05037080	Hose Assembly, Plow, w/R608 (Not Shown)
7	3	00055000	Clip, Hose Hold Down
8	3	05010620	Bolt, ⅝-18 x 1½, G8, HHCS, ZC
9	3	05020909	Nut, ⅝-18, GC, Toplock, C&W
10	6	05050608	Cable Tie

00050953 REVERSING KIT, 4 X 10 CYLINDER

ITEM	QTY	PART #	DESCRIPTION
1	2	05002640	Cylinder, 4" x 10" DA (See page 19 for breakdown)
2	4	05022040	Pin, 1" x 4¼", No Head
3	8	05021202	Bushing, 1½" x 1" x 10 Gauge, Zinc
4	8	05022026	Pin, ¼" x 2", Roll, Zinc
5	1	05044230	Hose Kit, Cushion Block @1000psi
6	1	05037080	Hose Kit, Plow, STD w/ 26" Whip
7	3	00055000	Clip, Hose Hold Down
8	3	05010620	Bolt, ⅝-18 x 1½, G8, HHCS, ZC
9	3	05020909	Nut, ⅝-18, GC, Toplock, C&W
10	6	05050608	Cable Tie



00085688 LIFT KIT, ½ X 12'

ITEM	QTY	PART #	DESCRIPTION
1	1	05034025	Chain Block, Cast
2	1	00085394	Chain, ½ x 98
3	2	05010741	Bolt, ⅝-11 x 2½, G8, HHCS, Zinc
4	2	05020837	Nut, ⅝-11, GC, Top Lock, C&W
5	2	00085689	Bushing, 2¼ OD x .813 ID x ½
6	1	05022119	Pin, .75 x 3.75 Button Head, Zinc Plated
7	1	05021312	Washer, .75, Flat, Zinc
8	1	05010593	Bolt, .250-20 x 1, g8, HHCS, Zinc
9	1	05020899	Nut, .250-20, Top Lock, Zinc

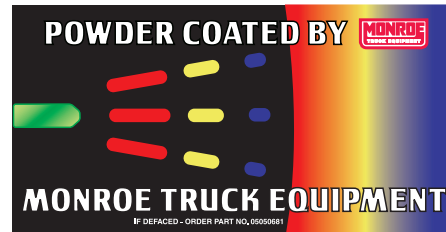
LIFT KIT, 2 CHAIN

ITEM	QTY	PART #	DESCRIPTION
1	2	00027691	Chain, ½" X 60", Proof Coil
2	2	05010741	Bolt, ⅝-11 X 2½", G8, HHCS, Zinc
3	2	05020837	Nut, ⅝-11, GC, Toplock, C&W

55943



05051507



05050681

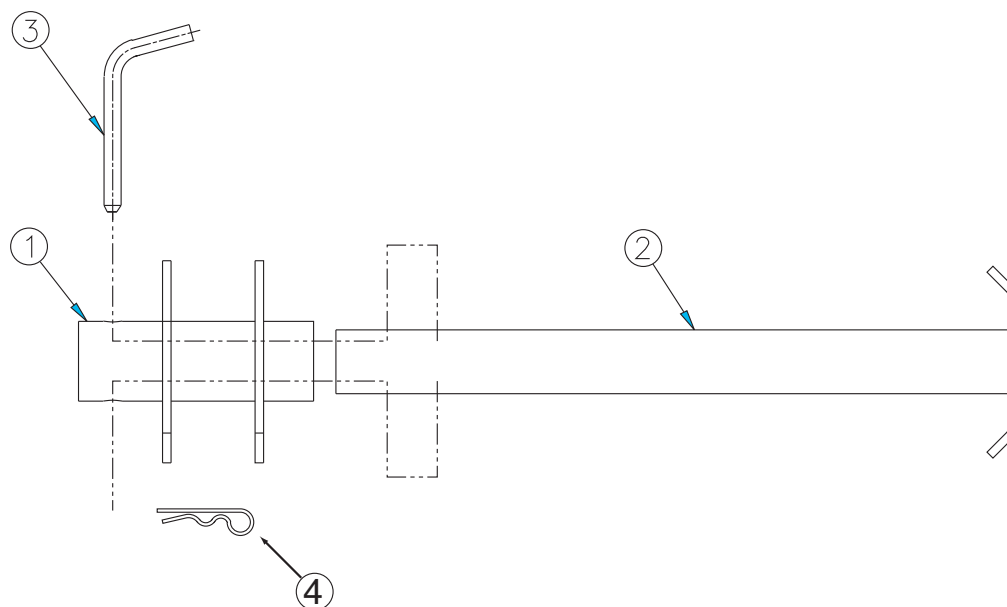
DECAL KIT, PLOW

ITEM	QTY	PART #	DESCRIPTION
1	1	05051507	Decal: Monroe Snowplow
2	1	05050681	Decal: Bonded Powder

SHOE KIT,SKID, MOLDBOARD

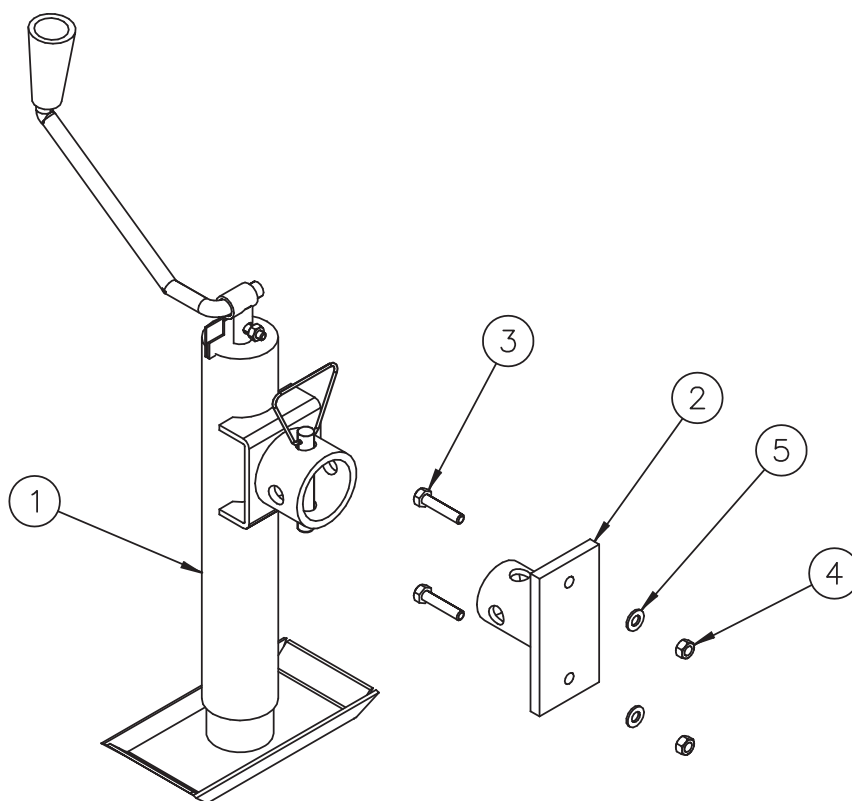
ITEM	QTY	PART #	DESCRIPTION
1	2	05050221	Shoe, Moldboard, Cast, 8", 10 DEG
		05050220	Shoe, Moldboard, Cast, 5", 10 DEG
2	4	05014560	Bolt, $\frac{5}{8}$ " - 11 x 5", G8, Dome Head, Plain
3	4	05021383	Washer, $\frac{5}{8}$ ", Lock, Heavy, Zinc
4	4	05020270	Nut, $\frac{5}{8}$ " - 11, G8, Hex, Zinc

61797
62549



00010264 JACK KIT, PARKING JACK, A-FRAME PARKING JACK

ITEM	QTY	PART #	DESCRIPTION
1	1	00010265	Tube Jack Weldment, Outer, Parking
2	1	00010267	Inner Tube Assembly
3	1	05022136	Pin, ½" x 4½", 4" Grip Bent, Zinc (Includes Item 4)
4	1	05022035	Pin, #11, Hair, Zinc



10" TRAVEL
5000# CAP

JACK KIT, PARKING, TOP WING, TUBE MOUNT, REMOVABLE

ITEM	QTY	PART #	DESCRIPTION
1	1	05050227	Jack Assembly, Top Wind, Tube Mount
2	2	00084491	Mount Weldment, Jack Top Wind
3	4	05010620	Bolt, $\frac{5}{16}$ -18 x $1\frac{1}{2}$, G8, HHCS, Zinc
4	4	05020909	Nut, $\frac{5}{16}$ -18, GC, Top Lock, C&W
5	4	05021306	Washer, $\frac{5}{16}$, Flat, Zinc

61212

CURB GUARD KIT, WRAP AROUND

ITEM	QTY	PART #	DESCRIPTION
1	1	05050000	Guard, Curb, 5/8 x 6
2	2	05014555	Bolt, 5/8 - 11 x 3½, Dome Head Plain

36921



OPTION: MARKERS

ITEM	QTY	PART #	DESCRIPTION
1	2	05051432	Markers, 36" Fluorescent Orange Flexible Markers
2	1	05051181	Markers, Cable, 42" L, Straight, Yellow w/ Red Day Glo Tip

05000000 Cylinder, 3 x 10, Double Acting

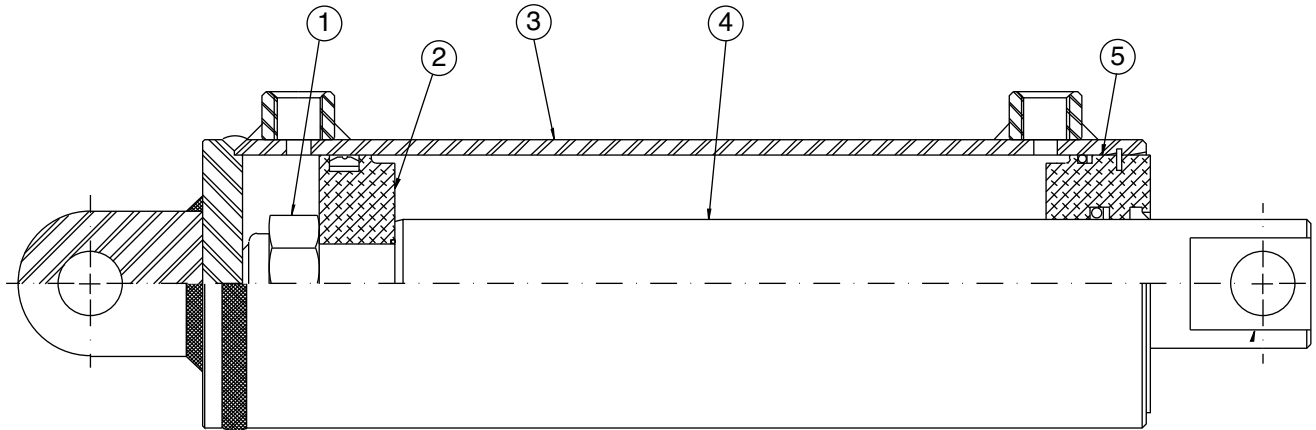
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	05000001	PACKING SET
2	1	05000002	O-RING
3	1	05000006	BOX
4	1	05000007	NUT
5	1	05000003	WIPER
6	1	05002170	ROD
7	1	05000014	TUBE
8	1	05000010	PISTON
9	1	05000004	O-RING
10	2	05000005	CUP
11	2	05000011	FOLLOWER
12	1	05000012	NUT
13	1	05000013	SEAL KIT

BEST METAL

ITEM	QTY	PART #	DESCRIPTION
1	1	05000001	PACKING SET
2	1	05000002	O-RING
3	1	05000006	BOX
4	1	05000007	NUT
5	1	05000003	WIPER
6	1	05000008	ROD
7	1	05000014	TUBE
8	1	05000010	PISTON
9	1	05000004	O-RING
10	2	05000005	CUP
11	2	05000011	FOLLOWER
12	1	05000012	NUT
13	1	05000013	SEAL KIT

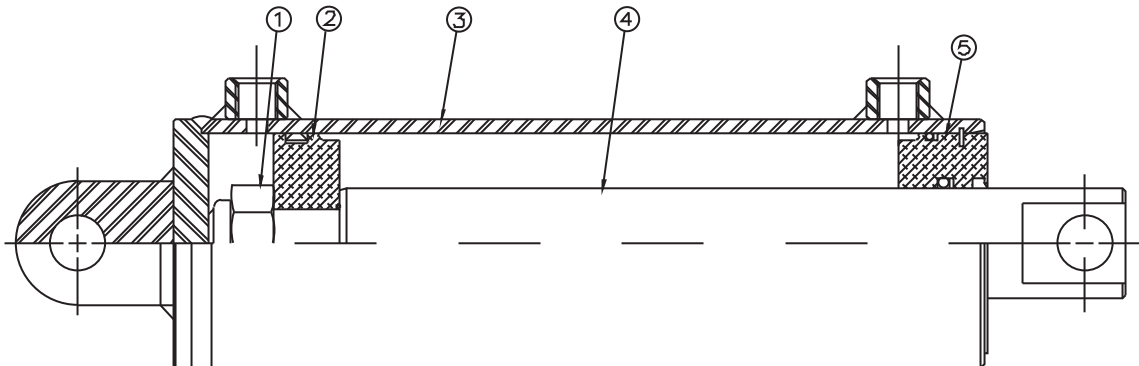
05002640 CYLINDER, 4 X 10, DA, NITRATED

ITEM	QTY.	PART NUMBER	DESCRIPTION
1	1	05000022	LOCK NUT
2	1	05000023	PISTON
3	1	05002786	CASE WELDMENT
4	1	05002787	ROD NITRIDED
5	1	05000026	HEAD
6	2	05002559	PORT PLUG, #8
	1	05000021	SEAL KIT



05000020 CYLINDER 4 X 10 DA

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	05000022	LOCK NUT, 1-1/4"
2	1	05000023	PISTON
3	1	05000024	CASE
4	1	05000025	ROD
5	1	05000026	HEAD
	1	05000021	SEAL KIT



HOW TO ORDER PARTS

To order or inquire about replacement parts, please contact the **distributor** or **store** that the product was purchased through. To speed the information flow, please have the following information ready:

- Model Number
- Serial Number
- Part Number and/or description as per the parts manual
- Quantity needed

For further information about **Monroe Truck Equipment** replacement parts, please call 800-880-0109 and ask for **Snow & Ice Parts Sales**.

RETURN POLICY

Merchandise returned to **Monroe Truck Equipment** must have a Warranty Service Request (WSR) form filled out completely and signed by authorized personnel. To get your WSR form, call 800-880-0109. For whole goods ask for **Snow & Ice Sales**. For replacement parts, ask for **Snow & Ice Parts Sales**. All returned items are subject to a 15% restocking fee and must be sent freight prepaid!

MONROE TRUCK EQUIPMENT, INC. WARRANTY SNOW & ICE CONTROL PRODUCTS

Monroe Truck Equipment, Inc. warrants to the original purchaser, that if any part of the product proves to be defective in workmanship or material within **ONE YEAR** of the original installation, and is returned to us within 30 days of the discovered defect, we will (at our option) repair or replace the defective part. This warranty does not apply to damage resulting from misuse, neglect, accident, improper installation, normal wear items or lack of maintenance. This warranty is exclusive and supersedes all other warranties, whether expressed or implied. **Monroe Truck Equipment, Inc.** neither assumes, nor authorizes anyone to assume for it, any other obligation or liability in connection with this warranty and will not be liable for consequential damages.

All engines, pumps, motors, cylinders and valves are warranted by their manufacturer and not by **Monroe Truck Equipment, Inc.**. The manufacturer's warranty will apply to these parts. Electrical and hydraulic components are not to be disassembled without the express written permission of Monroe Truck Equipment. Use of replacement parts other than original equipment voids this warranty.

All defective parts returned must be accompanied by the model number, serial number, date installed, date of defect, description of defect, and the name of the distributor from whom it was purchased. All warranty claims must have prior written approval from **Monroe Truck Equipment, Inc.**

Please return the warranty registration card that accompanies this manual to confirm receipt of this parts catalog and acknowledge the information contained within. Failure to return the attached card may result in a voided warranty.



**1051 West 7th Street
Monroe, WI 53566
608-328-8127 ~ Fax: 608-328-4278**

Warranty Policy Uninstalled Parts and Equipment Provided by Monroe Truck Equipment

Monroe Truck Equipment will provide the following limited warranty for a period of one year to the original purchaser of all uninstalled goods provided by Monroe Truck Equipment:

LIMITED WARRANTY: All goods provided by Monroe Truck Equipment (MTE) will be free from defects in material and workmanship for a period of one year from the date of purchase by the original purchaser. This limited warranty shall be the sole and exclusive remedy for any such product found to be defective. This limited warranty supercedes all previous warranties and is exclusive and in lieu of all other warranties, whether expressed or implied.

This limited warranty applies only to parts or accessories manufactured by MTE and/or provided by same. Except with respect to title, this limited warranty does not pertain to parts or accessories not manufactured and/or provided by MTE, regardless of whether such parts or accessories were selected and/or recommended by MTE. MTE will, as a service to the buyer, pass on any warranties received from the original manufacturer of MTE provided parts and/or accessories.

MTE will not under any circumstances be liable for any incidental or consequential damages whether in tort, contract, or otherwise, for any bodily injury, death, property damage, loss of use, or loss of income resulting from or in any way arising out of any goods provided by MTE, or their sale, use, or manufacture.

Any warranty claim deemed to be arising from the result of misuse, abuse, neglect, accident, improper installation, lack of maintenance, act of war (whether declared or otherwise), or act of God will be denied. Any repair or modification by the buyer or any third party, without the prior written consent of MTE, will void any possible warranty compensation. Any damage deemed to be the result of abnormal operation will not be compensated by this warranty.

Normal or special maintenance items such as fuels, fluids, tires, belts, hoses, filters, air cleaners, light bulbs, and any other items subject to normal wear and tear that are supplied in connection with goods provided by MTE are not allowed under this warranty.

All engines, pumps, cylinders, valves, and motors are warranted by their manufacturer and not by Monroe Truck Equipment. The manufacturer's warranty will apply to these parts. Electrical and hydraulic components are not to be disassembled without the express written consent of MTE. Any disassembly of MTE provided components without prior authorization will void the applicable warranty.

Monroe Truck Equipment shall be the sole and final determining authority as it applies to the administration of this warranty policy. Purchaser acknowledges receipt of Monroe Truck Equipment Warranty Policy and agrees to be bound by same.



GLOBAL SOLUTIONS
ARMORED VEHICLES ~ SPORT TRUCK CONVERSIONS
MUNICIPAL SNOW & ICE CONTROL ~ FIRE APPARATUS
PICKUP TRUCK ACCESSORIES ~ TRUCK EQUIPMENT/MODIFICATIONS





**1051 West 7th Street
Monroe, WI 53566
608-328-8127 ~ Fax: 608-328-4278**

Any and all warranty claims must be forwarded to MTE within 10 days of defect discovery. A copy of the original Monroe Truck Equipment invoice as well as the manufacturer's model number, serial number, and date of installation must accompany all correspondence regarding said claims. MTE will, at their option, choose whether to repair or replace the defective part unless otherwise specified by the original manufacturer of said part.

Procedures for Warranty Claims Notification

For submission of any warranty claim please contact Monroe Truck Equipment – Warranty Department at 800-356-8134

The following documentation will be needed when you call for initial warranty authorization:

1. A copy of the original MTE invoice.
2. Make, Model, and VIN or Serial Number of the equipment involved.
3. Part number and serial number of the part in question.
4. A complete description of the problem.

The following must accompany any claim submitted to Monroe Truck Equipment:

1. Documented photographs of any physical damage.
2. Inspection notes by MTE personnel or MTE authorized 3rd party.
3. Authorization number issued by Monroe Truck Equipment – Warranty Department.

Defective parts must be returned to Monroe Truck Equipment (freight prepaid) within 30 days of issuance of Authorization Number.

Monroe Truck Equipment reserves the right to void any warranty for failure to comply with Monroe Truck Equipment Warranty Policy.

This policy is effective October 11, 2012

