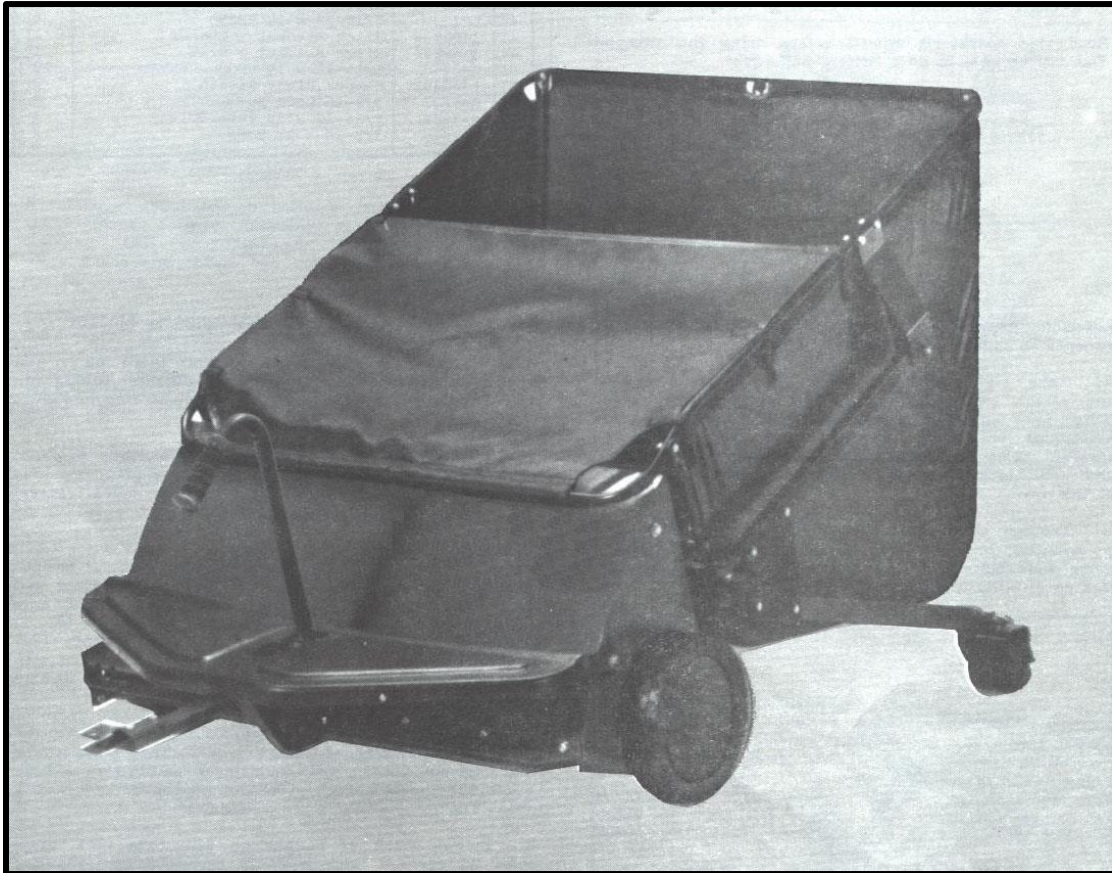


MID WEST PRODUCTS, INC.

38" Commercial Trailing Pavement/Leaf/Lawn Sweeper Model HDT-38B



Owner's Manual and Parts List

SAVE THIS MANUAL

You will need this manual for the safety instructions, assembly instructions and parts list. Put it in a safe, dry place for future reference.

Additional Information/Link to PDF Copy of this Manual:



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UNPACKING INSTRUCTIONS:

Remove all Lawn Sweeper Parts, Literature, and Parts Bag from carton. Open Parts Bag and identify contents as listed to the right.

Right-hand (R.H.) and Left-hand (L.H.) references are determined by standing at the rear of the Tractor or Lawn Sweeper and facing the direction of forward travel.

Read this Operator's Manual before using the Lawn Sweeper. You will be able to do a better, safer job.

Key No.	Part No.	Description	Qty.
9	X-1107	5/16-18 Lock Nut	26
15	1-A2936	Dump Rope	1
16	1-A2953	Dump Rope Handle	1
30	L-99	5/16 Flat Washer	2
41	L-80	5/16-18 X 1 HHCS	4
42	L-127	5/16-18 X 1 ½ HHCS	6
43	1-B2829	Hitch Bracket - Center	1
44	1-A2828	Hitch Bracket - Flat	1
63	L-81	5/16-18 X 1 ¼ HHCS	12
65	1-A2901	Hamper Pivot Sleeve	2
67	X-1199	3/8-16 Lock Nut	2
85	X-1358	5/16-18 X 1 ¼ Tube Bolt	2
88	X-1026	3/8-16 X 1 ½ HHCS	2

ASSEMBLY

Assemble Hamper Support Tube and Caster Tubing to Lawn Sweeper as follows and shown in Figure 1.

- A) Take right and left Caster Tube Assemblies and attach two Gusset Plates (64) to them using four Bolts (63) and four Lock Nuts (9). Position

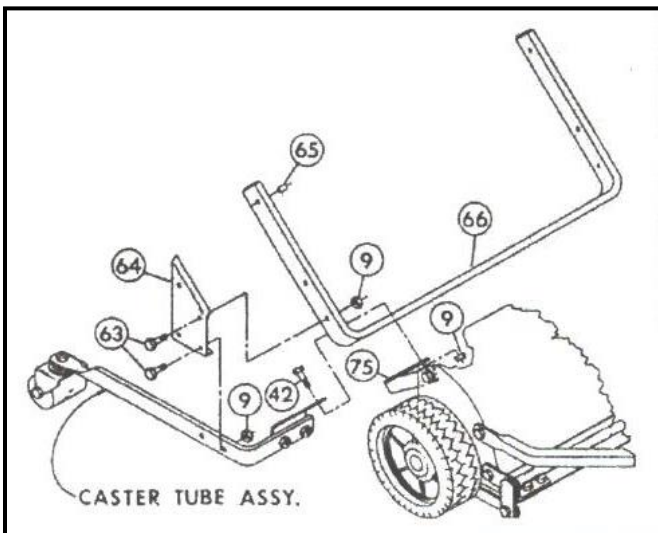


Figure 1

these assemblies on Hamper Support Tube (66) and attach through holes in Gusset Plates (64) with four Bolts (63) and four lock Nuts (9). Do not tighten these Bolts at this time.

- B) Position above assembly behind Lawn Sweeper and attach to Mounting Brackets (75) already mounted on Lawn Sweeper using four Bolts (42) and four Lock Nuts (9). Securely tighten all Nuts in this assembly at this time.

Assemble Debris Hamper and Wind Apron as follows:

- A) Take Hamper Sub-Assembly and place on a flat surface. Locate five pieces of ¾" diameter tubing and two Hamper Pivot Brackets (89) as illustrated in Figure 2 (on the next page).
- B) Insert ends of Rear Tube (91) onto ends of Front Tube (83) and align holes. Place Hamper Pivot Brackets (89) with welded brace to the rear over holes. Insert two Bolts (63) and secure with two Lock Nuts (9) on each side.

- C) Place Tie Rod (82) through lip on front of Hamper and put a Flat Washer (30) on each end. Place two Front Lower Hamper Tubes (84) inside Hamper and onto ends of the Rod. Secure with two Lock Nuts (9) on each end. With flat end of Front Hamper Tubes (84) on the outside of Tube (83), align holes and fasten with two Bolts (41) and two Lock Nuts (9). Do not tighten at this time.
- D) Take Lower Rear Tube (86) and place it over the ends of Tubes (84) and align holes. Then position the Rear Corner Tubes (90) over holes and insert a Tube Bolt (85) through each side and secure with two Lock Nuts (9).
- E) Pulling back of Hamper up with Tube (91), align holes in Corner Tubes (90) and insert two Bolts (41) and secure with two Lock Nuts (9). At this time securely tighten all Bolts in this assembly.
- F) Pulling up and back on Wind Apron (80), align its velcro tabs to tabs on side panels of Hamper (87).

- B) Securely tie Dump Rope (15) to center of Rear Upper Tube (91). Run Rope under Hamper, then up between Hamper and Tube (66) and through Grommet in top of Lawn sweeper. Locate Dump Handle (16) on Rope where it can be reached from your Tractor seat and secure by tying a knot on both sides of it.

Attach Hitch Brackets to Lawn sweeper Tongue as follows and as shown in Figure 3.

- A) Due to the wide range of Tractor sizes and drawbar heights, mounting of the Hitch Brackets may vary, depending on your particular Tractor. Top of Lawn Sweeper Tongue (45) should be level or approximately 8" off the ground with the Lawn Sweeper in the lowest setting.
- B) See Figure 3 and select the recommended mounting to suit your particular Tractor hitch height. Then attach Hitch Brackets (43 and 44) with two Bolts (42) and secure with two Lock Nuts (9).

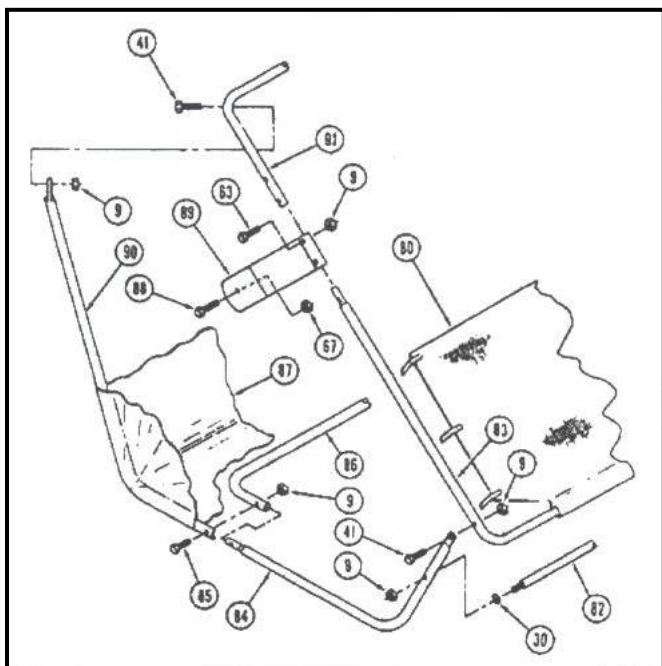


Figure 2

Place Hamper Assembly from Figure 1 onto Hamper Support Assembly from Figure 2.

- A) With Sleeves (65) in holes in Hamper Support Tube (66), place Hamper Assembly in position with Pivot Brackets (89), straddle ends of Support Tube (66). Align holes and insert two Bolts (88) and secure with two Lock Nuts (67).

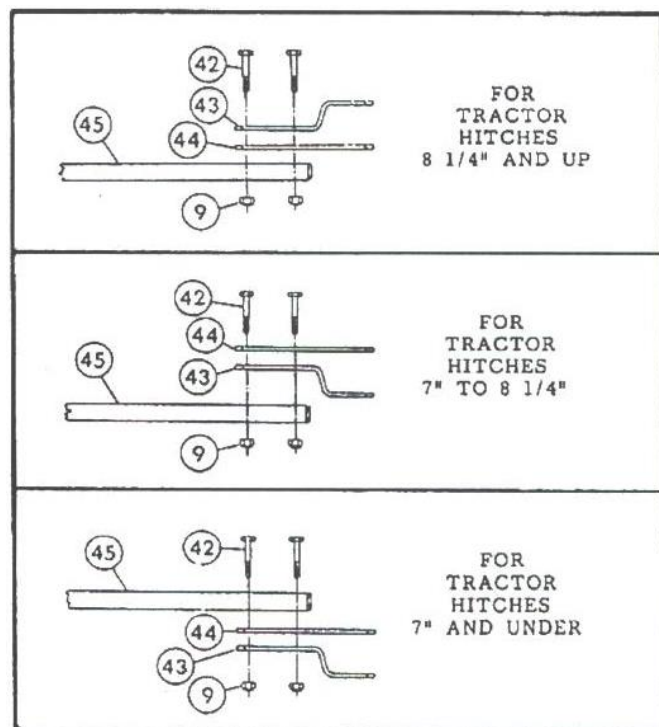


Figure 3

OPERATION

OPERATING SPEED: Pulling the Lawn Sweeper forward rotates the Brushes, propelling debris into the Hamper. Ground speed of Tractor is important for efficient sweeping without throwing debris over the back of the Hamper. To attain best sweeping results and minimize excessive wear to Brushes, it is recommended ground speed should be between 3 to 5 MPH.

DUMPING HAMPER: To dump debris from Hamper, pull the Handle on Nylon Rope steadily forward to rotate Hamper to the full dump position. After dumping, hold the Rope and allow the Hamper to return slowly to the operating position.

CAUTION: The Hamper and Brushes are constructed of high quality plastic materials. They are mildew and rot resistant, but are not fireproof, they will burn. Do not operate Lawn Sweeper close to open fires.

BRUSH HEIGHT ADJUSTMENT: Brushes can be adjusted from the operators position on the Tractor. Simply move Height Adjustment Handle to the left and push back to raise Brushes or forward to lower Brushes. Be sure stud on Handle engages on Bracket when released. The most efficient operating height is when the Brushes just touch the top of the grass or lightly contact paved surfaces. If Brushes are set too low, the Lawn Sweeper will pull hard. This can cause premature Brush wear which leads to early Brush replacement. Always raise the Brushes when transporting the Lawn Sweeper from one work area to another.

Due to the various styles and sizes of Tractors, the Height Adjustment Handle may be removed and reinstalled with the Handle pointing toward the rear of Lawn Sweeper. This may make it easier to reach and give additional clearance on your particular Tractor.

GENERAL MAINTENANCE

LUBRICATING PINION AND WHEEL GEAR: Remove Hub Caps using a small screwdriver. With Grease Zerk in Wheel at 12 o'clock position and using any standard hand grease gun, apply approximately 2 to 3 pumps of recommended molybdenum disulfide base grease every 15 to 20 hours of use. Also oil Wheel Axle.

OILING WHEEL AXLE: Lubricate Wheel Axles with SAE 20 or 30 oil by applying through Oil Plug located in each wheel. Lubricate at the beginning of the season and once or twice during the season, depending on use.

OILING BRUSH AXLE AND HAMPER PIVOTS: Bearings at the ends of Brush Axles are sealed and require no lubrication. However, several drops of SAE 20 or 30 oil on the Brush Axle Center Pivot Shaft is recommended 3 or 4 times a season, depending on use. Oil Hamper Pivot Pins occasionally to prevent rust and insure easy dumping.

OILING PIVOT POINTS: All linkage connections on the height adjustment mechanism should also be lubricated periodically with SAE 20 or 30 oil to

prevent rust and wear.

BRUSH REPLACEMENT: Check Brushes for wear, and order replacement Brushes if necessary. To replace, simply loosen or remove two Bolts in Brush Clamps and remove old Brush Strip. Insert new Brush Strip, making sure that metal strip on Brush is under lip on Brush Clamps and retighten Bolts securely. Replace all individual Brushes at the same time to provide more uniform sweeping.

STORAGE HINTS: Clean Hamper with a brush or broom to remove clippings and debris.

Wipe dirt and grease from Chassis. Repaint scratched areas and coat metal parts with an oil or wax to prevent rust.

Store the Lawn Sweeper in a dry area out of direct sunlight. Do not allow Lawn Sweeper to stand in hot sunlight when not in use.

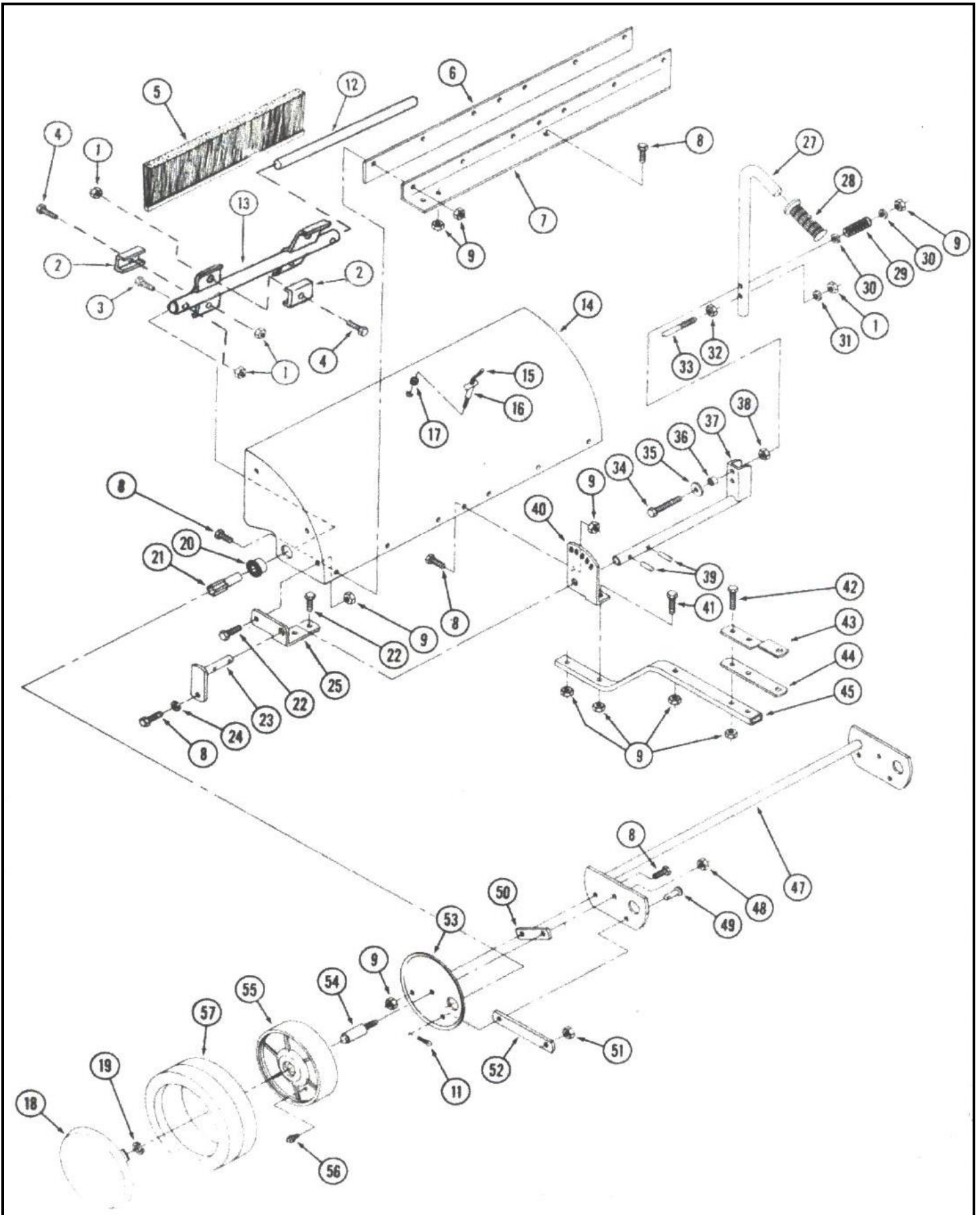
Periodically check all Bolts, Fasteners, and Screws for tightness to be sure Lawn Sweeper is in safe operating condition.

PARTS LIST

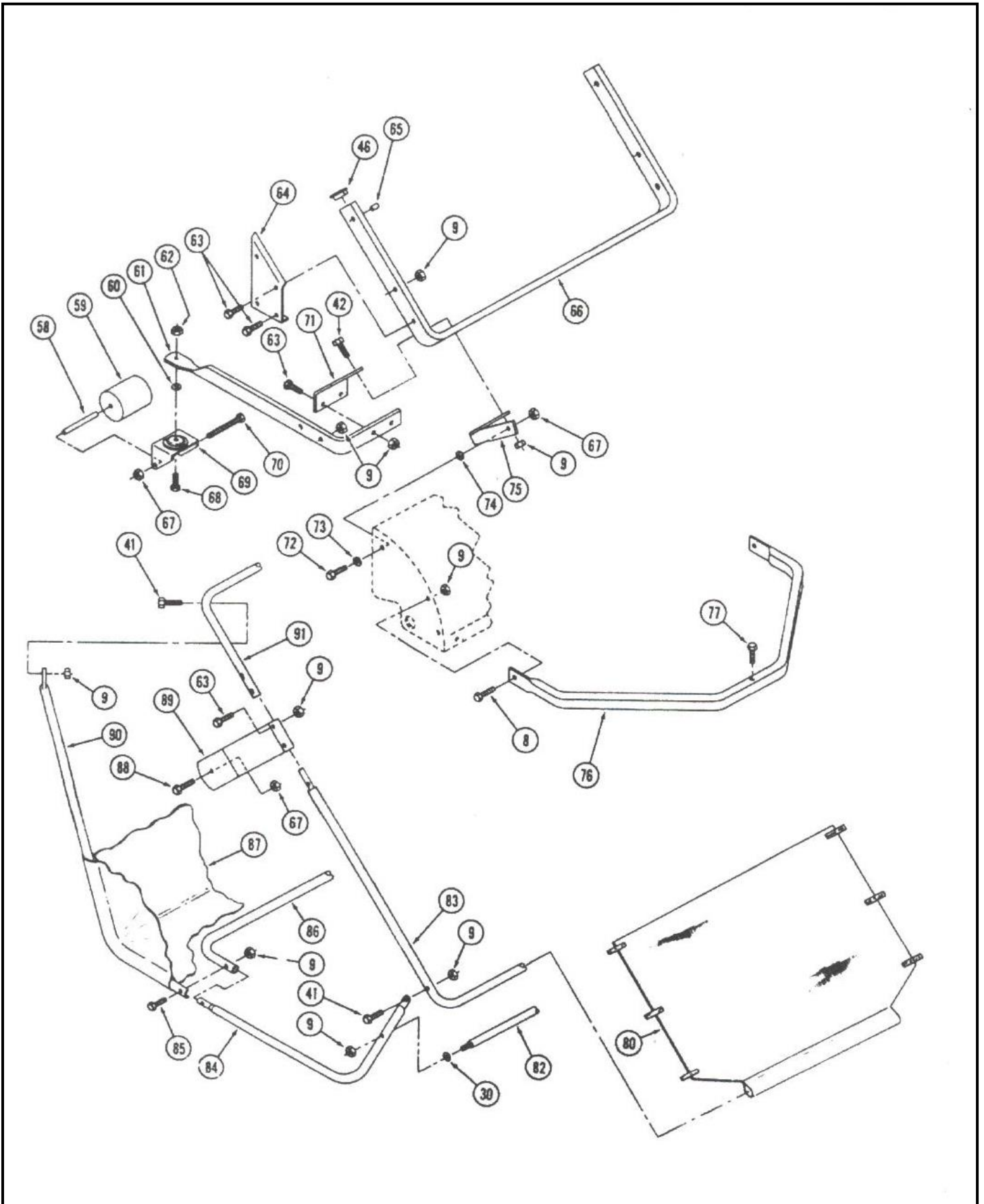
Key	Part No.	Description	Qty.
1	L-303	1/4-20 Lock Nut	11
2	1-A2873	Brush Clamp	8
3	X-1182	1/4-20 X 1¼ HHCS	2
4	L-172	1/4-20 X ¾ HHCS	8
5	1-B2875	Brush Strip	4
6	1-C2842	Front Seal	1
7	1-C2844	Front Angle	1
8	L-59	5/16-18 X ¾ HHCS	10
9	X-1107	5/16-18 Lock Nut	48
11	L-131A	1/8 X ¾ Cotter Pin	1
12	1-3016	Brush Axle Center Shaft	1
13	1A-3006	Brush Tube Assembly	2
14	1A-D2840	Shield Wrap Assembly	1
15	1-A2936	Dump Rope	1
16	1-A2953	Dump Handle	1
17	1-A2951	Shield Wrap Grommet	1
18	1-A2935	Hub Cap	2
19	L-262	5/8 Retaining Ring	2
20	1-A2864	Bearing	2
21	1A-A2870	Pinion Gear	2
22	L-279	5/16-18 x ½ HHCS	3
23	1A-B2856	Height Adj. End Lever	1
24	X-1025	5/16 Lock Washer	1
25	1-B2846	Pivot Bracket	1
27	1-C2853	Height Adjustment Handle	1
28	16-3080B	Handle Grip	1
29	1-A2670	Spring	1
30	L-99	5/16 Flat Washer	4
31	X-1099	1/4 Flat Washer	1
32	L-304	1/4-20 Std. Hex Nut	1
33	1-A2932	1/4-20 Detent Stud	1
34	X-1638	5/16-18 X 3 HHMS	1
35	X-1642	5/16 Washer-Special	1
36	1-A2735	Spacer	1
37	1A-B2852	Height Adj. Tube Assembly	1
38	L-60	5/16-18 Std. Hex Nut	1
39	X-1605	Roll Pin	2
40	1-B2845	Index Bracket	1
41	L-80	5/16-18 X 1 HHCS	6
42	L-127	5/16-18 X 1½ HHCS	6
43	1-B2829	Hitch Bracket - Formed	1
44	1-A2828	Hitch Bracket - Flat	1
45	1-C2832	Tongue	1
46	1-A2952	Rectangle Tube Plug	2
47	1A-C2862	Axle Assembly	1
48	L-5486M	3/8-24 Wheel Stud Nut	2

Key	Part No.	Description	Qty.
49	X-1643	3/8 Clevis Pin	1
50	1-A2863	Spacer Link	2
51	L-5552	5/16-18 Pilot Nut	1
52	1-A2857	Height Adjustment Link	1
53	1-B2865	Wheel Shield – RH	1
*	1-B2866	Wheel Shield – LH	1
54	1-A2400	Wheel Stud	2
55	1A-C2931	Wheel Assembly	2
56	X-1492	Grease Zerk	2
57	1-1637B	Tire	2
58	15-1017	Caster Sleeve	2
59	1-1633	Caster Wheel	2
60	L-64A	1/2 Flat Washer	2
61	1A-C2949	Caster Tube – RH	1
*	1A-C2950	Caster Tube – LH	1
62	X-1353	1/2-13 Hex Lock Nut	2
63	L-81	5/16-18 X 1¼ HHCS	18
64	1-B2893	Caster Gusset Plate	2
65	1-A2901	Hamper Pivot Sleeve	2
66	1-D2884	Hamper Support "U" Tube	1
67	X-1199	3/8-16 Lock Nut	6
68	X-1258	1/2-13 X 1¼ HHCS	2
69	1A-B2899	Caster Yoke Assembly	2
70	X-1439	3/8-16 X 4½ HHCS	2
71	1-A2892	Caster Tube Connecting Plate	2
72	X-1147	3/8-16 x 1 HHCS	2
73	L-64	3/8 Flat Washer	2
74	1-A2729	Spacer	2
75	1A-B2896	Mounting Bracket – RH	1
*	1A-B2897	Mounting Bracket – LH	1
76	1-D2834	Tongue Brace	1
77	X-1028	5/16-18 X 2 HHCS	1
80	1A-C2929	Wind Apron Assembly	1
82	1-A2915	Tie Rod	1
83	1-D2903	Top Front Hamper Tube	1
84	1-D2905	Lower Front Hamper Tube	2
85	X-1358	5/16-18 X 1¼ Tube Bolt	2
86	1-C2907	Lower Rear Hamper Tube	1
87	1A-C2925	Hamper Assembly	1
88	X-1026	3/8-16 X 1½ HHCS	2
89	1A-B2879	Hamper Pivot Bracket – RH	1
*	1A-B2880	Hamper Pivot Bracket – LH	1
90	1-C2910	Rear Corner Hamper Tube – RH	1
*	1-C2911	Rear Corner Hamper Tube – LH	1
91	1-C2913	Top Rear Hamper Tube	1

PARTS DRAWING 1



PARTS DRAWING 2



LONG-TERM STORAGE

1. Clean Hamper to remove clippings and debris
2. Wipe dirt and grease from Chassis. Repaint any scratched areas and coat metal parts with oil to prevent rust.
3. Store Lawn Sweeper in a dry area out of direct sunlight.
4. Check Lawn Sweeper parts for wear. Replace parts as necessary.

IN THE FALL: Sweep REGULARLY when the leaves are dropping...don't wait until they're all down... you'll get better sweeping action if your lawn is cut short.

PLEASE DO NOT RETURN THIS MERCHANDISE TO THE STORE. CALL US AND WE WILL TAKE CARE OF ANY PROBLEMS YOU MIGHT HAVE WITH THIS PRODUCT.

INSTRUCTIONS FOR ORDERING PARTS

(Minimum Parts Order Charge \$20.00)

1. Address all parts orders or correspondence regarding customer service to one of the following:
Parts Dept. Phone: (937) 337-3641
Mid West Products, Inc. Fax: (937) 337-0755
P.O. Box 301 E-mail: Parts@Mid-West-Products-Inc.com
Phillipsburg, OH 45354 Website: www.Mid-West-Products-Inc.com
2. Write your name and address plainly (print or type).
3. Explain where and how to ship.
4. Give model number of unit.
5. Give part number from parts list, as well as a description, including color, of the part and the quantity you need.
6. Inspect all shipments you receive. If any parts are damaged or missing, file a claim with the carrier before accepting.
7. If you are returning parts, be sure to include WITH THE SHIPMENT a list of the parts with your name and address.
8. All orders for repair and replacement parts will be shipped when paid with Master Card, Visa, or personal check/money order. Prices subject to change without notice.

GUARANTEE

The merchandise you have purchased from us has been carefully engineered and manufactured under Mid West Products rigid quality standards and should give you satisfactory, dependable operation. However, like all mechanical merchandise, it may occasionally require adjustment or maintenance. Should you need technical assistance, please contact MID WEST PRODUCTS.

OTHER LAWN & GARDEN TOOLS FROM MID WEST PRODUCTS, INC.

40" Trailing Plug Aerator — HDP-40

- Heavy $\frac{3}{4}$ " Tine Shaft w/32 14 Gauge Plugging Tines - 4 Welded Tine Sections Rotate Independently on Turns.
- Wide 40" Working Width Plug Aerator.
- 3" Penetration Depth.
- **Recommended Load Capacity:** 175 Lbs. *Maximum
- Single Steel Center Lift Lever Adjustable from the Tractor Seat.
- **Overall Dim:** 49" L x 50" W x 33" H



Trailing Steel Dump Cart — HT-10LRTA



- Powder Coated Steel Construction.
- Steel Wheels with 16" x 3" Pneumatic Tires.
- Pin Style Hitch.
- Dump Style, with Removable Tailgate for Easy Unloading.
- Load Capacity: 10 Cu. Ft./500 pounds
- **Bed Dim:** 40" L x 30" W x 12" H.
- **Overall Dim:** 63" L x 34" W x 30" H.

40" Trailing Dethatcher — HDR-40

- Heavy Gauge Steel Chassis.
- Individually Flexing Tine Tips - $\frac{3}{16}$ " Diameter with Triple Coil Strength.
- Wide Working Width Dethatcher with 8" Transport Wheels.
- Adjustable Hitch for Various Rider Heights.
- No tool Assembly.
- **Overall Dim:** 49" L x 43" W x 12" H



45" Trailing Lawn Sweeper — MH-4451



- Semi-Pneumatic, Ribbed Tread Rubber Tires mounted on Precision Die Cast Aluminum Wheels.
- Ball Bearing Rear Casters Provide easy Mobility.
- Patented Rear-Dump w/Centered Pull Cord Dumps from Tractor Seat.
- Wind Apron protects 15 Bushel Hamper Capacity.
- Brush Height Control.
- **Overall Dim:** 44" L x 50" W x 35" H