



Electronic Service Manuals

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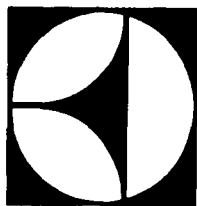
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Parts Web site: www.FloorMachineParts.Com

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Serving the Cleaning Industry Since 1922

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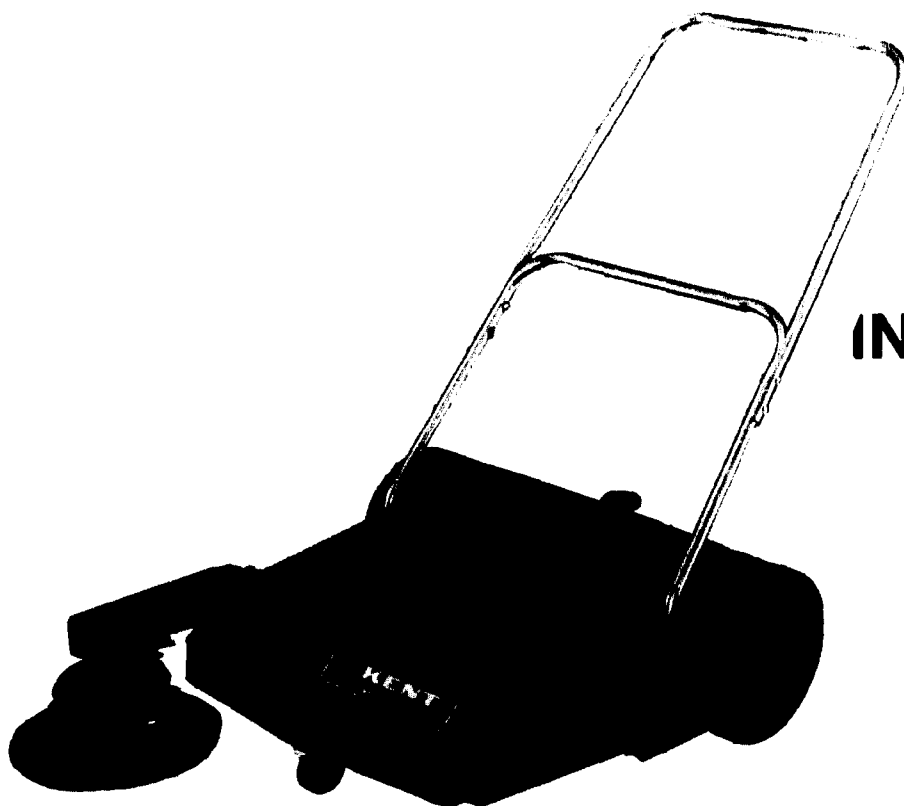


KENT

MODEL

KS-270 PUSH SWEEPER

OPERATING, MAINTENANCE INSTRUCTIONS & ILLUSTRATED PARTS LIST



APRIL 1988

Write the model and serial number of your unit in the space provided. Refer to the rating plate on unit.

Model #

Serial #

Retain this owner's guide for future reference.

THE KENT COMPANY

P.O. Box 1665

2310 Industrial Parkway

Elkhart, IN 46514

TEL: (219)293-8661, (800)334-1083

~~(800)642-6635 (Indiana)~~

FAX: (219)295-8610

~~TELEX: 25-8881 KENT-00 EKR~~

Safety Instructions

To reduce the risk of burns, fire, or personal injury:

1. Do not pick-up toxic, carcinogenic, combustible, or other hazardous materials such as asbestos, arsenic, barium, beryllium, lead, pesticides, or other health endangering materials.

Do not pick up burning cigarettes or other smoking materials, matches or similar materials.

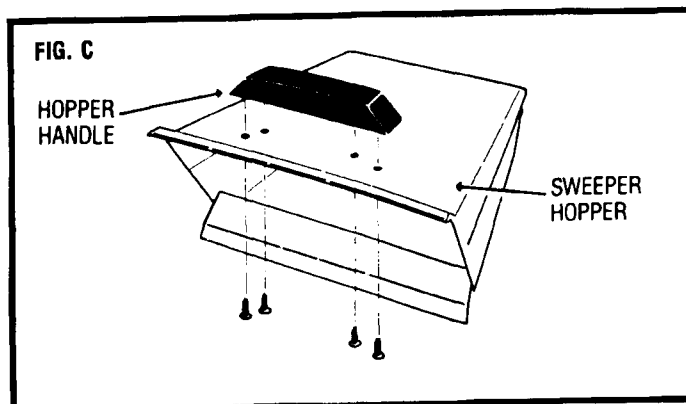
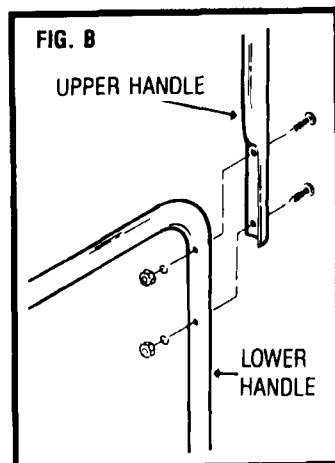
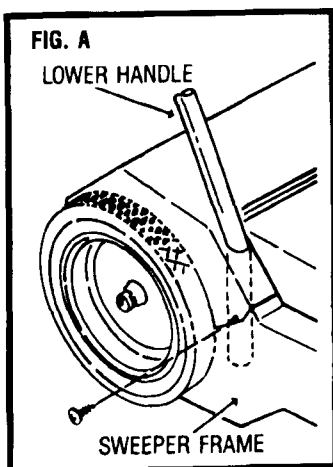
3. To avoid personal injury, use heavy gloves when removing glass, metal, or other sharp materials from the dirt hopper.
4. The dirt hopper should be emptied after each use.
5. This sweeper is NOT designed for use with liquids.

Unpacking and Set-Up

Your Kent Industrial Push Sweeper comes to you partially assembled. Before operation you must attach the handle and side broom to the main sweeper housing. First unpack the Push Sweeper from the shipping carton and place the unit on a flat surface. Remove the dirt hopper from the sweeper frame and remove parts which may have been packaged in the dirt hopper. Before the shipping carton is discarded, make sure that all loose parts and literature have been removed.

Handle Assembly

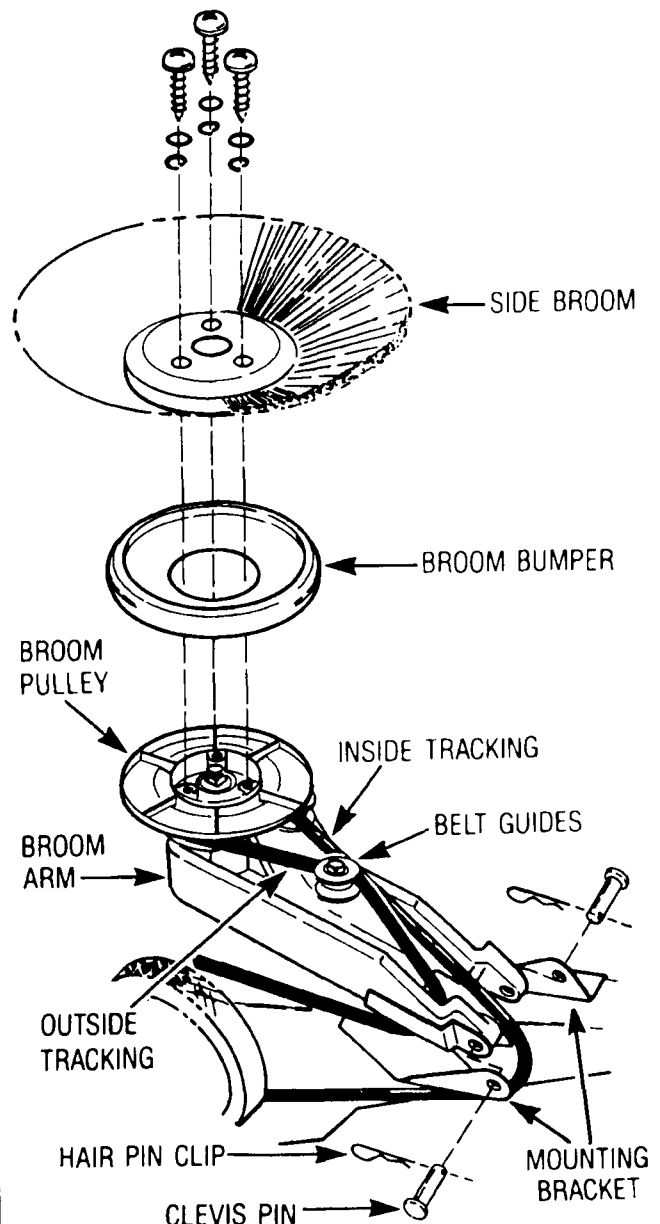
1. Place ends of lower handle into holes of sweeper frame. Attach with screws. (Fig. A)
2. Attach upper handle to lower handle using machine screws, lock washers and nuts. (Fig. B).
3. Hopper handle should be attached to the dirt hopper with screws provided. (Fig. C)



Side Broom Assembly

1. Drive belt should be positioned on the pulley when received. Check to ensure belt is on the pulley and between belt guides. (Fig. D)
2. With the side arm positioned as shown in Fig. D place the belt between the walls of the side broom arm. Place the outside tracking belt over the rear wheel and above the mounting bracket. The inside tracking belt must be UNDER the mounting bracket.
3. Attach the side broom arm to the mounting bracket by aligning the holes in the arm with the holes in the mounting bracket. Insert clevis pins and secure with hairpin clips. (Fig. D)
4. Place side broom bumper on the side broom pulley with the outside flange toward side broom. Attach side broom to the side broom pulley with screws, lockwasher and washers. (Fig. D)
5. Lower side broom arm and replace hopper and you are ready for operation.
6. If side broom rotates in the wrong direction, the belt is not installed correctly, refer to steps 1 and 2 for proper belt alignment.

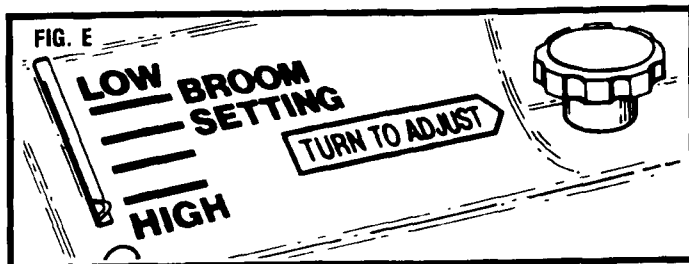
FIG. D



Operation

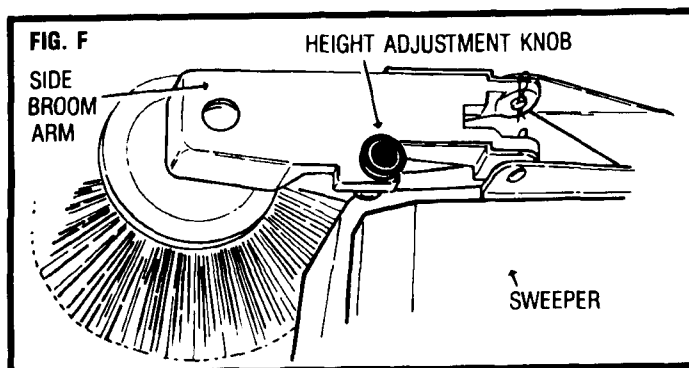
1. The main broom has been preset at the factory for maximum sweeping efficiency. If adjustments are required to adjust to surfaces or wear, this can be done by turning the adjustment knob. The height indicator will show the position of the broom as you make your adjustment (Fig. E). For best operating performance, the bristles of the broom should just touch the floor.

NOTE: If the main broom is set too low, the sweeper will be hard to push.



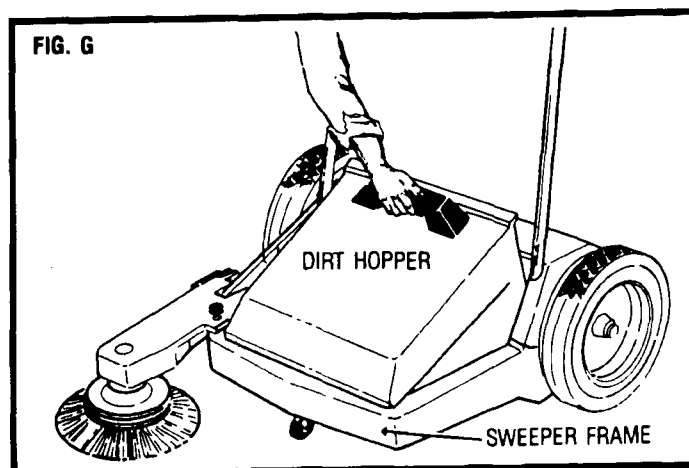
2. The side broom should be lowered and used when sweeping along curbs or walls. The side broom may also be used when sweeping open areas.

The side broom height should be adjusted to have approximately 1/3 of the bristles touching the floor. Adjustment can be made by turning the adjustment knob as shown in Fig. F.



3. To operate the Push Sweeper, push it forward at your normal walking speed. The sweeper does not operate when pulled backwards.
4. To empty the dirt hopper, lift up on the handle located on the front of the hopper.

Empty contents of dirt hopper into a proper container and replace dirt hopper back on sweeper by placing front edge of the hopper on the sweeper frame and apply downward pressure until the hopper is in its proper position (Fig. G). The dirt hopper should be emptied after each use or as required. A full dirt hopper will affect the sweeping efficiency of the Push Sweeper.

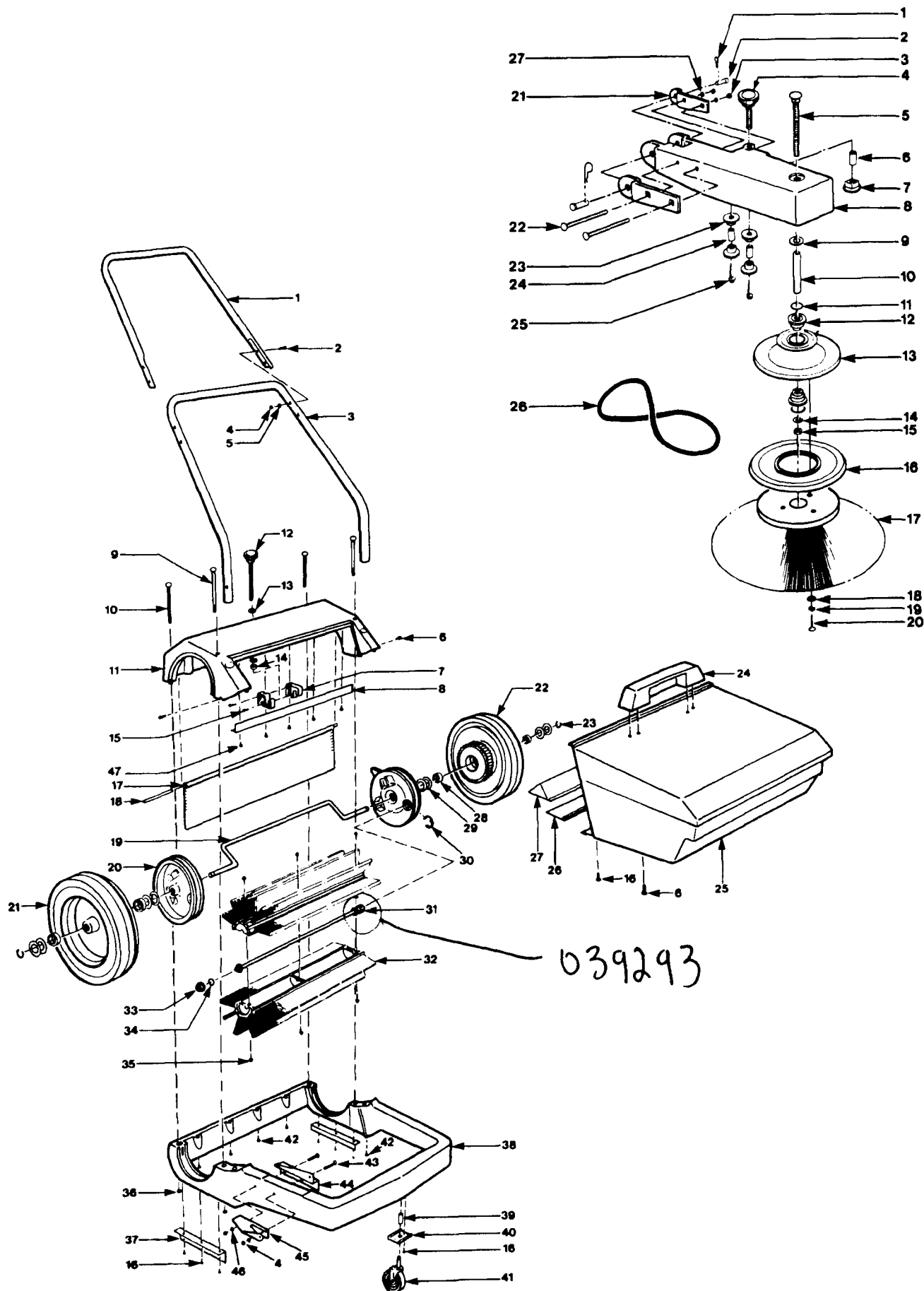


Maintenance

1. After each use, check for materials which may have become wrapped around brushes or wheels and remove immediately.
2. Do not lubricate gears, clutch or other internal parts.
3. Inspect rubber dust seals periodically for wear or damage. Replace as required.
4. Inspect the main broom periodically for wear. Replace the main broom when the bristles are worn to a length of 1½" or less. The main broom can be easily replaced by removing three screws from each half. The same screws can then be used to attach the replacement broom.
5. Side broom should be inspected periodically for wear. Replace side broom when, with the adjustment in the down position, less than 1/3 of the bristles come in contact with the surface. The side broom can be easily replaced by removing the screws from the brush holder and reassembling the replacement brush using the same hardware.

Troubleshooting

Trouble	Possible Cause	Remedy
Sweeper hard to push	• Side Broom set too low • Main Broom set too low • Large objects trapped under unit	• Adjust Side Broom • Adjust Main Broom • Remove object
Poor pick-up	• String or other foreign object wrapped or lodged in Main Broom • Dirt Hopper full • Main Broom too high • Side Broom too high • Worn or damaged Floor Blade	• Remove string or object • Empty Hopper • Adjust Main Broom • Adjust Side Broom • Replaced Floor Blade
Excessive dust while sweeping	• Dirt Hopper full • Leak in Floor Seal • Sweeping pace too fast	• Empty Hopper • Replace damaged Seal • Reduce speed • Raise Sidearm if cleaning large, open area at a fast pace
Streaks or patches left behind sweeper	• Some types of fine dirt will build up in area behind Main Broom	• Remove any build-up in area behind Main Broom



PARTS LIST

ITEM	DESCRIPTION	KENT	QTY.
1	Upper Handle	38923	1
2	Screw 1/4 - 20 x 1 1/4" Slotted Truss Head	*	4
3	Lower Handle	38924	1
4	Hex Nut 1/4 - 20	*	6
5	Lockwasher 1/4" Internal Tooth	*	4
6	Screw 1/4" x 1" Slotted Truss Head Type BT	*	6
7	Height Adjustment Nut - Half	38925	2
8	Seal - Hopper	38926	1
9	Bolt 5/16 - 18 x 4 1/2 Round Head Square Neck	*	2
10	Bolt 5/16 - 18 x 5 1/2 Round Head Square Neck	*	2
11	Rear Housing	38927	1
12	Main Broom Adjustment Knob	38928	1
13	Flat Washer 3/8"		2
14	Setscrew Collar	38929	1
15	Screw #10 x 1" Slotted Hex Head Type BF	*	2
16	Screw #10 x 3/4 PH Pan Head Type AB	*	20
17	Floor Seal - Rear	38930	1
18	Rear Seal Support Rod	38931	1
19	Axle	38932	1
20	Pivot Hub	38933	2
21	Wheel & Bearing Assembly (Includes 1 Wheel 35128-01-6 and 2 Bearings 35109-00-8)	38934	1
22	Wheel & Cluth Assembly	38935	1
23	Retaining Ring	38936	2
24	Hopper Handle	38937	1
25	Hopper	38938	1
26	Floor Blade	38939	1
27	Floor Blade Retainer	38940	1
28	Bearing - Wheel	38941	4
29	Flat Washer 1/2"	*	8
30	E-Ring External	38942	1
31	Brush Shaft Assembly	38943	1
32	Main Broom Half	38944	2
33	Bearing	38945	1
34	O-Ring	38946	1
35	Screw #10 x 2" PH. Pan Head Type A	*	6
36	Serrated HEX Flange Nut 5/16	*	4
37	Floor Seal - Sides	38947	2
38	Main Frame	38948	1
39	Caster Socket	38949	1
40	Caster Support	38950	1
41	Caster	38951	1
42	Screw 1/4 x 1 1/2 Hex Head Type AB	*	6
43	Bolt 1/4 - 20 x 1 3/4	*	2
44	Sidearm Mounting Bracket - Inner	38952	1
45	Sidearm Mounting Bracket - Outer	38953	1

SIDE BROOM PARTS LIST

ITEM	DESCRIPTION	KENT	QTY.
1	Hairpin	38954	2
2	Clevis Pin	38955	2
3	Hex Nut 1/4 - 20	*	2
4	Stop Adjustment Knob	38956	1
5	Bolt 3/8 - 16 x 4" Round Head Square Neck	*	1
6	Threaded Insert 3/8"	38957	1
7	Stop Adjustment Foot	38959	1
8	Sidebroom Arm	38958	1
9	Flat Washer 1/2"	*	1
10	Sidebroom Shaft	38960	1
11	O-Ring	See Above	
12	Bearing	See Above	
13	Sidebroom Cover	38961	1
14	Lock Washer 3/8"	*	1
15	Hex Nut 3/8" - 16	*	1
16	Sidebroom Bumper	38962	1
17	Sidebroom	38963	1
18	Flat Washer 1/4"	*	3
19	Lock Washer 1/4"	*	3
20	Screw 1/4 x 1" Sloted Pan Head Type AB	*	3
21	Sidearm Bracket	38964	2
22	Bolt 1/4 - 20 x 3" Round Head Square Neck	*	2
23	Belt Guide	38965	4
24	Spacer	38966	2
25	Screw 1/4 x 1 1/2 Hex Head Type AB	*	2
26	Belt	38967	1

*Standard hardware item; purchase locally.

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THE KENT LIMITED WARRANTY

Your Kent equipment, which has been manufactured, tested and inspected in accordance with carefully specified engineering requirements, is warranted to be free from defects in material and workmanship. This warranty is, however, subject to the following qualifications, conditions, and limitations which are set forth to provide you and all users of the Kent equipment with information concerning the duration, extent, availability, and applicability of this Kent limited warranty, the procedure to be taken to obtain its performance, and other information concerning the Kent warranty policy.

DURATION OF WARRANTY AND TO WHOM EXTENDED

This warranty extends for a period of one year from the date of the original purchase of the Kent equipment by the original purchaser.

PARTS OF KENT EQUIPMENT NOT COVERED BY WARRANTY

Certain parts of Kent equipment require replacement in the ordinary course of use due to normal wear by reason of their characteristics. These are normal wear items such as cords, gaskets, switches, bumpers, carbon brushes, handle grips, bags, hoses, bearings, etc.

EXCEPTIONS AND EXCLUSIONS FROM WARRANTY

This equipment is required to be used on electric current as indicated on the data plate. Otherwise damage, defects, malfunctions or other failures of the equipment arising from use on electric current not as indicated are excepted and excluded from this warranty. Defects, malfunctions, failure or damage of the equipment caused by improper, unreasonable or negligent use or abuse while in the possession of the purchaser are likewise excluded from this warranty.

If repair is done on your equipment by anyone other than those below designated as authorized to perform such work without first having obtained factory instructions, The Kent Company, at its sole option, may determine that this warranty will not apply and that reimbursement for such repair will not be made because of the failure to comply with such factory specified instructions.

Briggs & Stratton Corporation engines are guaranteed by Briggs & Stratton Corporation for a period of one year. Parts and service are available only through Briggs & Stratton Corporation servicing dealers.

Honda engines are guaranteed by American Honda Motor Co., Inc. for a period of one year. Parts and service are available only through Honda servicing dealers.

Motor Appliance Corp. guarantees all Mac battery chargers to be free from defects in material or workmanship for a period of one year from date of manufacture. The nearest Mac authorized service facility should be contacted for service assistance.

FIVE YEAR POLY COMPONENT WARRANTY

Your Kent rotational molded polyethylene parts have been manufactured, tested and inspected in accordance with carefully specified engineering requirements and are warranted to be free from defects in material and workmanship.

This warranty extends for a period of five (5) years from the date of the original purchase of the Kent equipment by the original purchaser.

This warranty will not cover damage attributable to the following:

- (1) Improper, unreasonable or negligent use or abuse of the equipment.
- (2) Use of the equipment with hot water or high temperatures above 130 degrees Fahrenheit (54 degrees Centigrade).
- (3) "Warpage", "creepage" or "distortion" of part so long as the same does not interfere with normal operation.
- (4) Abrasions or punctures of the equipment.

PROCEDURE TO BE TAKEN TO OBTAIN PERFORMANCE OF WARRANTY REPAIR

To secure repair of the equipment or any warranted parts under this warranty, the following procedure should be taken.

The inoperative equipment or warranted parts, together with satisfactory evidence of the purchase date, must be delivered, with shipping and delivery charges prepaid, to one of the following:

- (1) The dealer from whom purchased;
- (2) Any Kent distributor's service department in the United States;
- (3) Any Kent authorized service station in the United States.

If you are unable to locate any of the foregoing, you may write or otherwise communicate with The Kent Company, for instructions before repair service is performed by anyone else. In such event, The Kent Company will provide either the location of a closely available Kent distributor service department or Kent authorized service station or other factory instructions.

Upon compliance with the above procedure, all warranted defects will be repaired, at no additional charge or costs to the customer, and the repaired product returned to the customer, with all shipping and delivery charges prepaid.

In following the procedures above set forth, PLEASE MAKE CERTAIN to state the Kent model, type and serial number as shown on the data plate of the equipment.

REPLACEMENT

In the event of a defect, malfunction or failure of your Kent equipment or any warranted part to conform with this warranty, The Kent Company may, at its sole option and own expense, replace the equipment or any warranted part with another new identical or reasonably equivalent model or part in lieu of repairing the defect.

NO REFUND OF PURCHASE PRICE

The Kent Company will not, as a matter of its warranty policy, refund the customer's purchase price.

WARRANTY REGISTRATION CARD FOR YOUR KENT EQUIPMENT AND REQUEST FOR INFORMATION

Your Kent Company distributor from whom you purchased your equipment is responsible for the registration of your warranty with the factory. We ask that you cooperate with your distributor in supplying the necessary information on the warranty card so that we may better serve you. Any information or questions you may have concerning your Kent equipment or this warranty may likewise be secured from the factory. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THE KENT COMPANY

P.O. BOX 1665 - ELKHART, INDIANA 46515