TRENCH MASTER®

Revised 05/2024
Manual #12727

Owners - Operators Manual

FEATURED MODEL #'s

REDEFINER
R450H, R450HA

WIREMASTER MOLE
R460HA / KA

CONVERSION KITS
460-001 WIREMASTER
459-001 EDGER

BEDEDGER BANTAM
B565H, B590H
B570K, B595K

BANTAM MOLE
B765H, B790H
B770K, B795K

BANTAM CABLE LAYER
B765H-CL, B790H-CL
B770K-CL, B795K-CL

BANTAM DRIP IRRIGATION INSTALLER
B565H-DI, B590H-DI
B570K-DI, B595K-DI

BROWN PRODUCTS, INC™

ReDefiner/WireMaster Mole/ReDefiner Edger Kit Manual
BedEdger Bantam/Bantam Mole Manual

INTRODUCTION

You are now the owner of a Brown TRENCHMASTER®. The term TRENCHMASTER® is used throughout this manual to include the following products: R450H, HA ReDefiner, R460HA WireMaster "Mole" and the ReDefiner Edger Kit. The TRENCHMASTERS® are very versatile trenchers which, when properly equipped, will trench in almost any soil condition. The TRENCHMASTER® is an inexpensive alternative to the much heavier, more bulky and less maneuverable trenchers on the market.

This TRENCHMASTER® is manufactured by Brown Products, Inc. which has been developing and producing quality farm equipment, right-of-way maintenance equipment, and outdoor power equipment since 1943. Brown Products is proud of the reputation it has earned for quality products and customer service.

If you have any questions or problems with your TRENCHMASTER®, please contact your dealer or distributor. If they cannot answer your questions or solve your problem, feel free to call.

BROWN PRODUCTS, INC
376 County Road 563 • Midland City, AL 36350
(800)897-3726 • Fax: (334) 983-1606
http://www.brownproducts.com

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WARRANTY STATEMENT

STATEMENT OF POLICY

In accordance with our established policy of constant improvement, we reserve the right to amend these specifications at any time without notice.

ENGINE WARRANTY

Warranty of all engines and engine parts is the sole responsibility of the particular engine manufacturer. See engine warranty in the engine manual. Engine problems must be checked and approved for warranty by an authorized engine manufacturer's service center. Brown Products, Inc. is not an authorized service center for any engine manufacturer and accepts no responsibility for engine warranties, either express or implied.

WARRANTY BY MANUFACTURER

Dealer/distributor understands and agrees that the manufacturer extends only the following warranty to its customers. In the event dealer/distributor extends any additional warranty such as enlarging the scope or period of warranty or undertaking a warranty of fitness for any particular purpose or obligation not encompassed in manufacturer's warranty, dealer/distributor shall be solely responsible therefore and shall have no recourse against manufacturer with respect thereto.

WARRANTY

LIMITED WARRANTY

Brown Products, Inc. hereby warrants that Brown's TRENCHMASTER® products will be free from defects in material and workmanship under normal use according to the provisions and limitations herein set forth. All parts, specifically EXCLUDING expendable "wear" parts, that become unserviceable within one year (12 months) from date of purchase, shall be repaired or replaced at Brown's option – at no cost to purchaser.

LIMITATIONS

The obligation of Brown for breach of warrant shall be limited to products manufactured by Brown (1) that are installed, operated and maintained according to Brown's instruction furnished and/or available to the purchaser upon request, (2) that are installed according to all other applicable Federal, State and local codes or regulations, and (3) that the purchaser substantiates were defective in material and workmanship notwithstanding that they were properly installed and correctly maintained as set forth and were not abused or misused. The obligation of Brown shall be limited to replacing or repairing the defective product, at the option of Brown. Brown shall not be responsible for any labor or cost of removal or re-installment of its products and shall not be liable for transportation costs to and from its plant in Midland City, Alabama. Use of parts for modification or repair of TRENCHMASTERS® or any component part thereof not authorized or manufactured by Brown specifically for the TRENCHMASTERS® shall void this warranty. This warranty shall not apply to any damage to or defect in TRENCHMASTERS® that is directly or indirectly caused by (1) FORCE MAJEURE, Act of God or other accident not related to an inherent product defect, of (2) abuse, misuse or neglect of the TRENCHMASTER®, including any damage caused by improper assembly, installation, service maintenance or faulty instruction of the purchaser. Other than as expressly set forth hereinabove, Brown makes no other warranty, express or implied, with respect to the TRENCHMASTER®, including but not limited to any warranty of merchantability or fitness for a particular purpose. And in no event shall Brown be responsibility for any incidental or consequential damages of any nature suffered by purchaser or any other person or entity caused in whole or in part by the TRENCHMASTER®. Any person or entity to whom this warranty extends and who claims breach of warranty against Brown must bring suit thereon within one year from the date of occurrence of such breach of warranty or be forever barred from any and all legal or other remedies for such breach of warranty. Brown is not responsible for and hereby disclaims any undertaking, representation or warranty made by any dealer, distributor or other person that is inconsistent with or in any way more expansive that the provisions of this limited warranty. This warranty grants specific legal rights and shall be read in conformity with applicable state law. In some jurisdictions, the applicable law mandates warranty provisions that provide greater rights than those proved for herein. In such case, this limited warranty shall be read to include such mandates provisions; and any provision herein that is prohibited or unenforceable in any such jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions and without affecting the validity or enforceability of such provisions in any other jurisdiction(s).

R450H & HA REDEFINER
SUPPLEMENTAL WARRANTY STATEMENT

- The Brown R450H & HA ReDefiner is designed for the maintenance of existing beds only. It is not intended for new bed construction. **Use of the R450H & HA on new beds voids all warranties!**

- Operating the ReDefiner with an unbalanced rotor creates destructive vibrations and operations should cease immediately if this occurs. Determine what is causing the unbalanced issue and correct by removing debris buildup on the rotor or replace with a new balanced rotor. One missing rotor tooth will be cause for changing the rotor.

- **Use of any part not manufactured by Brown Products, Inc. will void all warranties. The use of a re-manufactured rotor will also void the warranty.**

SUPPLEMENTAL WARRANTY STATEMENT FOR ALL BANTAM BEDEDGER, MOLE, DRIP IRRIGATION & CABLE LAYER UNITS

- Operating the BedEdger Bantam with an unbalanced rotor creates destructive vibrations and operations should cease immediately if this occurs. Determine what is causing the unbalanced issue and correct by removing debris buildup on the rotor or replace with a new balanced rotor. One missing rotor tooth will be cause for changing the rotor.

- **Use of any part not manufactured by Brown Products, Inc. will void all warranties. The use of a re-manufactured rotor will also void the warranty.**

TrenchMaster® Owner's Warranty Card

Name _____ Model _____

Address _____ Serial Number _____

City/State _____ Date Purchased _____

Phone _____ TrenchMaster® Dealer _____

E-Mail _____

IMPORTANT: TO PLACE THE BROWN WARRANTY INTO EFFECT, THE WARRANTY CARD ATTACHED BELOW MUST BE COMPLETED AND MAILED WITHIN 30 DAYS AFTER RECEIVING THIS EQUIPMENT.

TRENCH MASTER

BROWN PRODUCTS, INC™

NOTE: FILL IN THE ABOVE INFORMATION AND RETAIN IN YOUR MANUAL FOR YOUR RECORDS. THEN MAKE A COPY & MAIL TO BROWN PRODUCTS, INC. OR GO TO BROWNPRODUCTS.COM/WARRANTY-REGISTRATION

For additional information and inquiries, please contact:

BROWN PRODUCTS, INC™

376 County Road 563 • Midland City, AL 36350
Phone: (800) 897-3726 • Fax: (334) 983-1606
http://www.brownproducts.com

WARNING

SAFETY PRECAUTIONS

WARNING: Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or other reproductive harm.

WARNING: "This product contains Benzene and Methyl Isobutyl Ketone, chemicals known to the State of California to cause cancer, birth defects and reproductive harm." For more information go to www.P65Warnings.ca.gov

DO NOT assemble TRENCHMASTER® before reading assembly instructions.

DO NOT start TRENCHMASTER® before reading operating instructions.

DO NOT modify TRENCHMASTER® in any way.

DO NOT operate without all shields in place.

DO NOT operate without eye protection. Goggles are provided with each TRENCHMASTER®.

DO NOT lift trencher off the ground until engine is switched off and rotor has stopped.

DO NOT drop the TRENCHMASTER® to the ground from truck tailgate or bed of trailer.

DO NOT operate unless safety area is clear of people, animals, vehicles, and glassed areas that may be damaged by possible projectiles. (See Soil & Debris Exhaust chart showing area of possible projectiles, pg 10.)

DO NOT begin operation until all underground pipes, electrical and communications lines and sprinkler lines have been located and marked. The utility companies will be glad to provide information on their facilities. A ruptured gas line or cut electrical cable may cause injury or death.

DO NOT place hands or feet near belts or rotor mechanisms while engine is running.

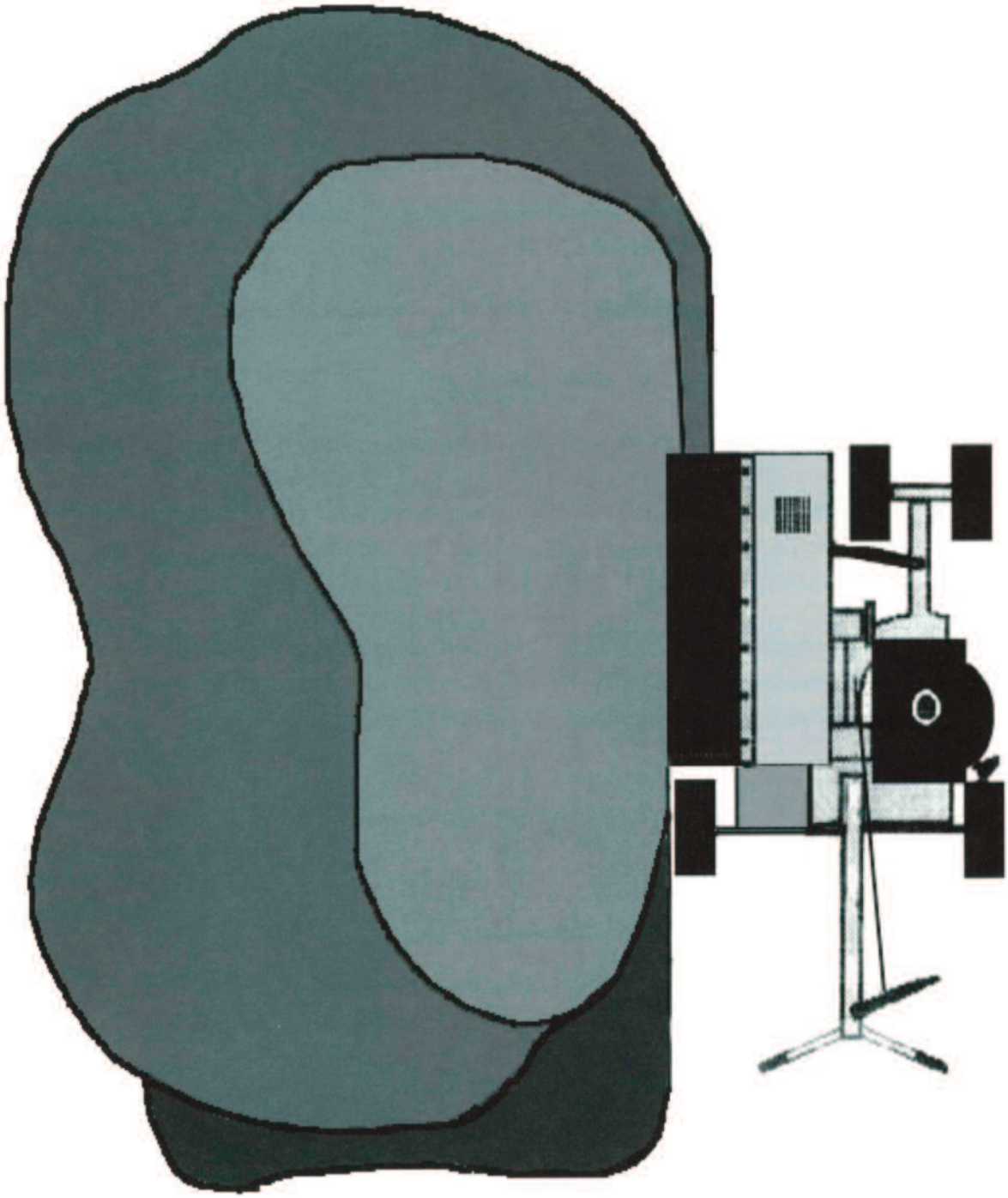
DO NOT operate TRENCHMASTER® without wearing proper shoes (high top leather shoes or boots are recommended).

DO NOT allow bystanders or spectators to be within 50 feet of TRENCHMASTER® while engine is running. (See Soil & Debris Exhaust chart showing areas of possible projectiles, pg 10.)

DO NOT operate TRENCHMASTER® until all surface obstructions have been cleared from area. All rocks and debris should be removed from area.

DO NOT disconnect oil alert on engines. To do so may void your engine warranty.

TRENCHMASTER®
SOIL & DEBRIS EXHAUST CHART



OPERATING INSTRUCTIONS

Brown TRENCHMASTER®

BEFORE STARTING ENGINE

1. Check machine.
    a. Read and be familiar with equipment operating instructions.
    b. Be sure you have the proper rotor for trench size and soil conditions.
    c. Check rotor retaining nut for tightness.
    d. Be sure belts and pulleys are properly aligned and adjusted.
    e. Check hood mounting bolts and nuts for tightness.
    f. Check set screws in pulleys and lock collars for tightness.
    g. Check all other nuts and bolts for tightness.
    h. Check Clutch Cable tension. Tension is adjusted using the turnbuckle so that the clutch spring stretches approximately ¾" to 1" when clutch in engaged.

2. Check machine

CAUTION: NEW ENGINES SHIPPED WITH MACHINES ARE NOT SERVICED. ADD OIL TO CRANKCASE BEFORE STARTING.

WARNING: Gasoline is extremely flammable and highly explosive under certain conditions. Always stop the engine and do not refill tank while you are smoking or near open flame or sparks.

WARNING: Never start or run the engine while in an area where fumes may collect. Carbon Monoxide from the exhaust is an odorless and deadly gas which must have adequate space or ventilation to allow rapid dispersal.

    a. Be familiar with manufacturer's operating and safety instructions for engine.
    b. Check oil level with dipstick and add if necessary. Do not overfill.
    c. Check air filter and clean if necessary. Clean frequently if operating in dusty conditions.
    d. Use only clean fuel. Unleaded fuel is recommended in all engines.
    e. Be sure muffler and exhaust deflector are installed, are in proper position, and are in good operating condition. (Deflector should exhaust to the left, away from the air intake.)

3. Start engine
    a. Be sure clutch lever is in disengaged position and no tension is on drive belts.
    b. Turn ignition switch to "ON" position.
    c. Turn fuel on.
    d. Close choke if engine is cold.
    e. Pull start cord rapidly.

Starting Engine Continued

f. When engine starts, gradually open choke and let engine warm up at about ¼ speed.

WARNING: Do not operate machine without rotor hood installed and secure.

WARNING: Do not operate the machine within a 50' radius of people, animals, automobiles or glassed areas which might be damaged by projectiles.

WARNING: Operator must wear eye protection when operating the TRENCHMASTER®.

WARNING: Operator must locate and stay clear of all underground gas, electric, water and communications lines before starting trenching operation.

CALIFORNIA PROPOSITION 65 WARNING: Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

4. Operations
   a. **To start trenching, set throttle full open.** Before engaging the clutch lever, the handle must be pushed toward the ground low enough to allow the rotor to turn without hitting the ground (should not exceed 20 seconds). Engage clutch and when rotor attains operating speed (3-5 seconds), the handle should be raised slowly so that the rotor engages the ground and gradually digs to trench depth.
   b. When trench depth is achieved, the operator should **pull the machine to the rear** at such a speed that the trencher will dig without overloading the engine.

WARNING: Starting the trench is the most critical time for dangerous flying projectiles. Be especially cautious by policing the area for rocks or other possible projectiles and ensure the area is completely clear of people, animals, vehicles, etc. that may be damaged by projectiles.

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   c. When trenching, **if trencher strikes an underground object, stop immediately** to determine what the object is. Investigation should be done visually since touching an exposed electric wire could be fatal.
   d. When trencher strikes a rock, either the trench or rock should be moved.
   e. When digging in extremely hard clay or other difficult soils, it may sometimes be necessary to use an oscillating action by applying and releasing pressure on handlebar, front to rear, alternately.

SCHEDULED MAINTENANCE

Good maintenance practices are critical if you are to enjoy trouble free operation and long life from your Brown TRENCHMASTER®. Most required maintenance procedures are shown in this section. However, other common sense maintenance practices such as cleanliness and storage must be followed.

1. See Manufacturers operating and maintenance instructions for engine maintenance procedures.

2. Check all bolts and nuts for tightness before operation and periodically thereafter.

3. Check all set screws in belt pulleys and bearing lock collars before operation and periodically thereafter. If set screws are vibrating loose, Locktite's Threadlocker #242 should be applied to the threads and the set screw retightened.

4. Check drive belts for proper tension before operation. Adjust if necessary. Adjust belt tension using the turnbuckle to ensure the spring stretches approximately ¾" to 1". Keep belt free of dirt and grease at all times.

5. Rotor points must be checked for wear before operation and periodically thereafter. Check at least every 200 feet initially. When working in difficult soil conditions, they should be checked more often. In good soil conditions, they may be checked less often but never less than each 500 feet of trenching.

6. Check rotor bearings for wear every 2000 feet. This is done by lifting the front of the machine off the ground so that the rotor may be turned by hand. Then grasp the end of the rotor firmly and try to move it from side to side. If there is more than ¼" movement from side to side, the bearings must be replaced.

7. Check the idler pulley for wear before operation and replace if necessary.

8. Periodically check the idler arm for lateral movement. If the pivot bolt is badly worn, or the bolt is loose, the idler arm may have enough lateral movement to cause the belts to come off the pulley. The pivot bolt should be tight enough to prevent lateral movement, but not so tight that it restricts free pivoting of the idler arm.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Burning Belts	Improper tension on belts	Adjust belt tension using the turnbuckle on the clutch cable. Spring should stretch approximately ¾" to 1" when clutch lever is fully engaged.
	Pulleys not aligned	Align pulleys
	Pulleys worn excessively	Replace pulleys
	Pulleys broken or burrs on pulley	Replace pulleys
	Wrong type belt	**Replace with Kevlar belts**
Excessive vibration	Rotor bearings worn excessively	Replace bearings
	Rotor points broken or missing	Replace points or rotor
	Rotor bent	Replace rotor
Rotor striking	Rotor too close to hood	Loosen eccentric lock collars on spindle and move rotor away from hood. **CAUTION:** Use thread lock on all set screws and tighten securely.
	Rotor bent	Replace rotor
Pulleys coming off shaft	Pulley set screw not tight	Remove set screws and apply thread lock to set screws, then tighten very firmly.

BROWN
MASTER SERIES
1 MACHINE ...
... 3 APPLICATIONS!

MODEL R450HA REDEFINER

- Redefines existing mulch beds at speeds up to 60 ft. per minute.
- GX160 Honda engine (5.5 HP)
- Very maneuverable, for making tree rings & fancy designs.
- All models shown weigh less than 95 lbs.
- All speeds vary depending on blade depth and soil conditions.

MODEL R460HA WIREMASTER

- Install invisible dog fence up to 25 ft. per min.
- Digs trench, lays wire and cover trench all in one pass.
- WIREMASTER kit (part#460-001) available to convert the R450H/HA REDEFINER to a R460 WIREMASTER

MODEL R450/460 W/EDGER CONVERSION KIT INSTALLED

- Edger conversion kit (part #459-001) available to convert the R450/460 units to a sidewalk edger
- Kits easily installed
- All machines sold with one year warranty (commercial and rental)

For More Information Call:

BROWN PRODUCTS, INC **1.800.897.3726**

376 C.R. 563 • MIDLAND CITY, AL 36350

ROTORS FOR BROWN REDEFINER R450H/HA/KA AND THE WIREMASTER MOLE R460HA/KA

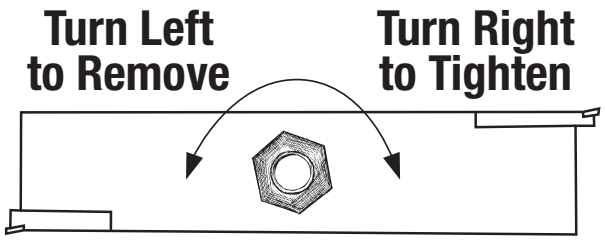
The **REDEFINER** (Models R450H & HA/KA) is designed to redefine existing beds. The rotor which is standard on the R450 will dig a trench 3" deep with a 4" angled width. If a 4" depth is desired, reposition the front wheel to the top position. The depth of the trench is determined by the position of the front wheel. There are 3 positons (2", 3", 4"). The bottom position will dig 2" deep, the middle positon (standard setting from the factory) will dig 3" deep and the top positon will dig 4" deep. The spoil dirt from the trench is dispersed widely into the bed which minimizes having to spread the dirt with a rake.

The following rotors will fit on the Redefiner and will dig a trench as indicated below. The drawback of using a trenching rotor on the Redefine is that the machine is designed to disperse the dirt into the bed so there is no dirt available to cover the trench.

Rotor #450-100 3" Redefining Rotor (3" deep x 4" wide - V type angled trench). The total length from tip to tip is 13" inches. Rotor #460-002 (3" deep x ¾" wide) will fit on the Redefiner but will not leave dirt piled to fill the trench.

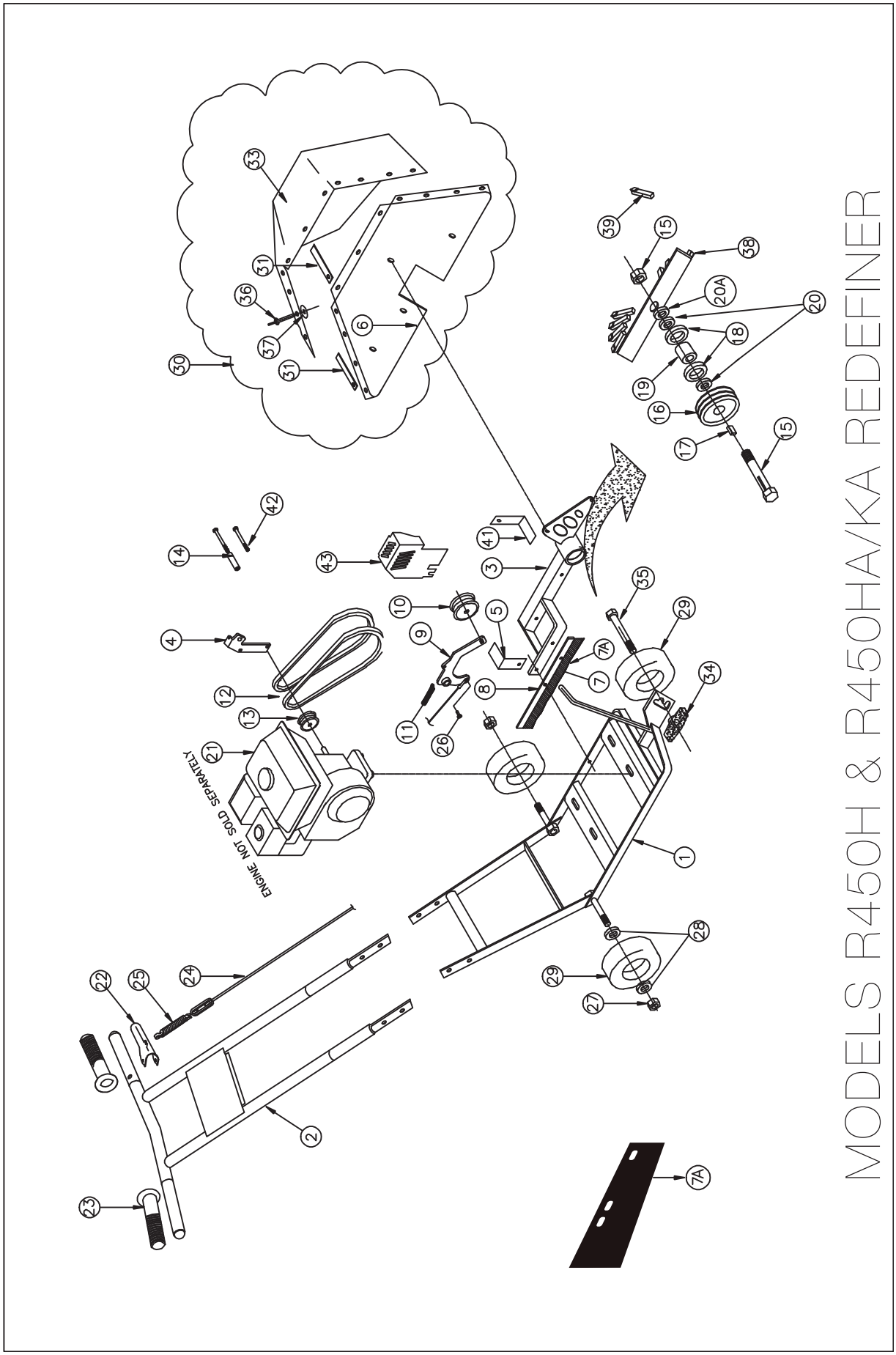
The **WIREMASTER MOLE** (Model R460HA/KA) is designed to install invisible dog/pet fence and wire for remote devices/mowers at a depth of 3" to 4", depending on the front wheel setting. The R460HA/KA is shipped from the factory with Rotor #460-002 installed at the standard front wheel position (middle position) which will dig a trench 3" deep and 3/4" wide (total length, tip to tip is 13"). If the desired depth is 4" deep, reposition the front wheel to the top position. The Wiremaster Mole will dig a trench, install the wire and refill the trench, all in one operation/pass.

ROTOR NUT REMOVAL



TrenchMaster Model R450H & R450HA/KA ReDefiner
Parts List

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	450-001	Frame	1
2	450-002	Handlebar	1
3	450-003	Assembly, Rotor Arm with Bearings & Space	1
4	450-251	Bracket, Idler Arm	1
5	450-024	Stop, Belt, Engine Pulley	1
6	450-253	Plate, Hood Back	1
7	450-752	Brush (No longer available, See NEW Part #450-771)	1
7A	450-771	Dirt Deflector, Rubber Flap	
8	450-503	Channel, Brush (Not needed w/ NEW rubber deflector #450-771)	1
9	991-05	Arm, Idler	1
10	12-22-2A	Pulley, Double Idler	1
11	991-06	Spring, Idler Arm Return	1
12	780-30	Belt, 31" Kevlar, Model R450H Only, 3.5" O.D. Pulley (A29K)	2
12	450-767	Belt, 33" Kevlar, Model R450HA Only, 4.5" O.D. Pulley (A31K)	2
13	701-02-2	Pulley, Engine, Double Groove, $2^{1/2}$" O.D. x 3/4" Bore	1
14	230-0002	Stop, Belt	1
15	450-502	Spindle, Rotor w/Nut	1
16	450-501	Pulley, Double Rotor, Model R450H Only, 3.5" O.D. (NLA)	1
16	450-768	Pulley, Double Rotor, Model R450HA Only, 4.5" O.D.	1
17	450-758	Key, 3/16" x 3/16" x 3/4" Long, Rotor Pulley	1
18	450-751	Bearing, Rotor	2
19	450-004	Spacer, Bearing	1
20	450-765	Washer, 3/4" SAE Rotor Spindle (against each bearing)	2
20A	450-766	Flatwasher, 3/4" (against back of rotor), USS	1
21	Not Sold Seperately	Engine, Honda GX160	1
22	450-259	Clutch Lever, Over Center	1
22	450-504	Lever, Clutch, Black	1
23	701-25	Grip, Handle	2
24	450-770	Cable, Clutch, For over Center Handle	1
24	450-754	Cable, Clutch w/Clevis & Turnbuckle, Black Lever	1
25	701-24A	Spring, Clutch	1
26	12-09	Pin, Sheave w/Cotter Pin	1
27	701-06A	Nut, 5/8" Nylon Lock	2
28	702-27B	Bearing, 5/8" Wheel (2 per wheel)	6
29	702-50C	Wheel, Pneumatic w/ 5/8" Bearing	3
30	450-007	Hood w/ Drape	1
31	450-005	Strap, Hood Drape Flap	1
33	450-753	Drape, Hood	1
34	450-755	Nut, Height Adjuster Wing - 5/8"	1
35	450-764	Bolt, Front Axle - 5/8" x 4"	1
36	450-756	Rivet, Hood Drape, 3/16" x 3/4" w/ Steel Nail	10
37	450-757	Washer, Rivet Back-up	10
38	450-100	Rotor, 3" Redefining, 3/4" Bore (machine adjusts to 4" depth)	1
39	450-507	Point, Rotor (2 1/4" straight)	N/A
40	450-762	Assembly, Front Axle (Bolt, Nuts, Washers & Wing Nut)	1
41	450-023	Stop, Belt, Rotor Pulley, Model R450H Only, 3.5" O.D.	1
41	450-025	Stop, Belt, Rotor Pulley, Model R450HA Only, 4.5" O.D.	1
42	450-763	Stop, Idler Arm, 5/16" x 3 1/2" NF Bolt	1
43	450-260	Guard, Drive Pulley	1

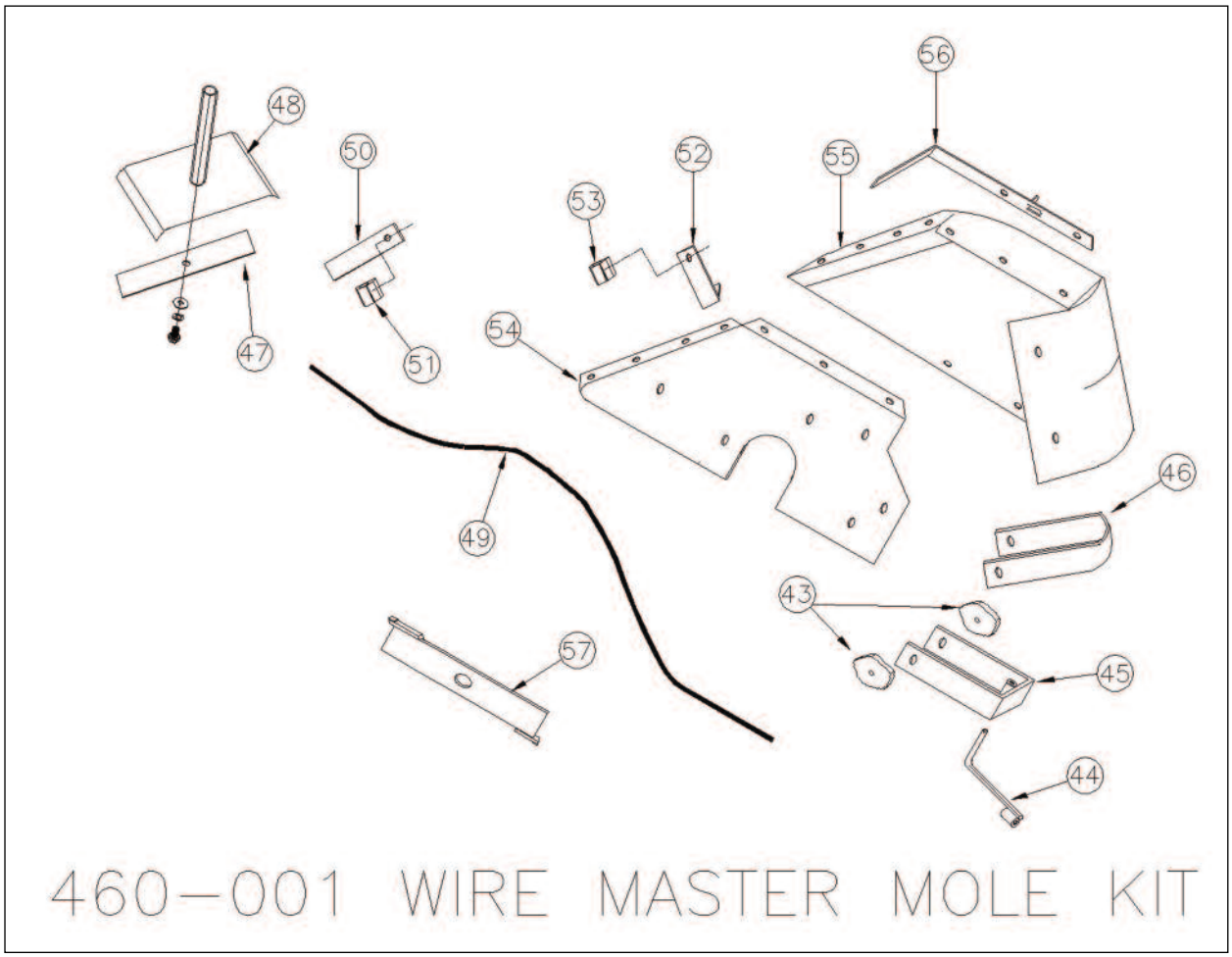

MODELS R450H & R450HA/KA REDEFINER
ENGINE NOT SOLD SEPARATELY

WireMaster Mole Kit 460-001
Parts List

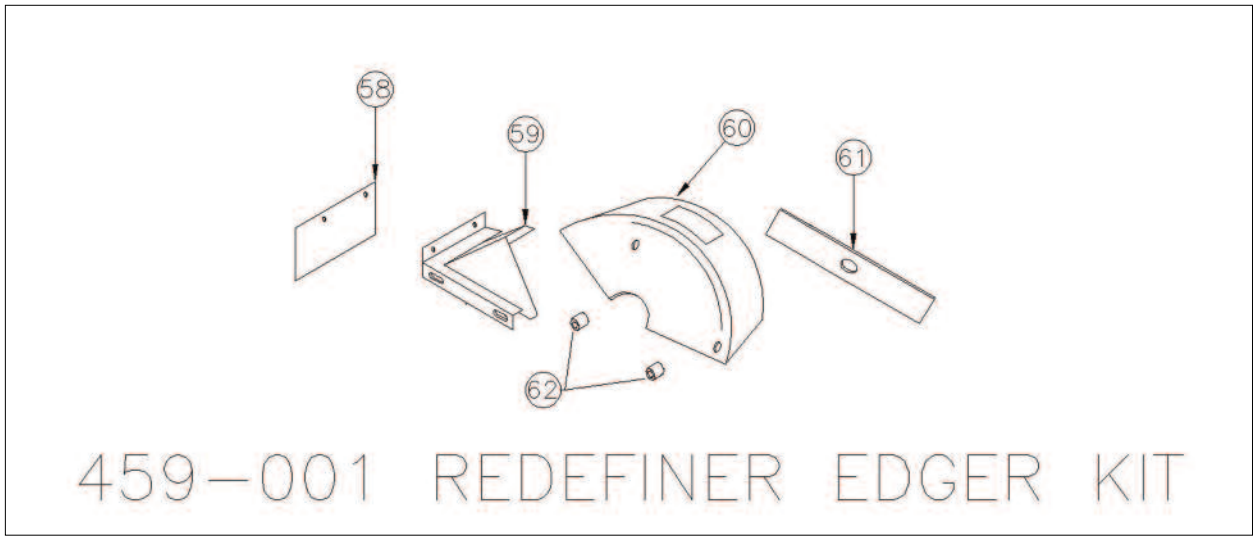
Ref #	Part #	Description	# Req'd
43	460-503	Knob, Up/Down Adjustment	
44	460-007	Rod, Ground	1
45	460-008	Bracket, Front, Up-Down	1
46	460-004	Bracket, Drape Retainer	1
47	460-010	Clamp, Wire Spool Bracket	1
48	460-013	Bracket, Wire Spool Mount	1
49	460-014	Tube, Wire Conduit, PEX	1
50	702-78	Strap	1
51	460-505	Clip, 10mm	1
52	460-009	Bracket, Pex, Tube	1
53	460-504	Clip, 12 mm	1
54	460-252	Hood, Back Plate	1
55	460-501	Drape, Hood	1
56	460-251	Brace, Outside	1
57	460-002	Rotor, 3" x $\frac{5}{8}$", Wiremaster (Adj. to 4" depth)	1
54, 55 & 56	460-015	Assembly, Hood with Drape	1

ReDefiner Edger Kit 459-001
Parts List

Ref #	Part #	Description	# Req'd
58	E-200-025	Flap, Rubber	1
59	459-004	Extension, Blade Guard	1
60	459-003	Guard, Blade	1
61	459-002	Blade, 10 inch (Flat, 10"x 2" w/ 3/4" Bore)	1
62	459-005	Spacer, Blade Guard	2



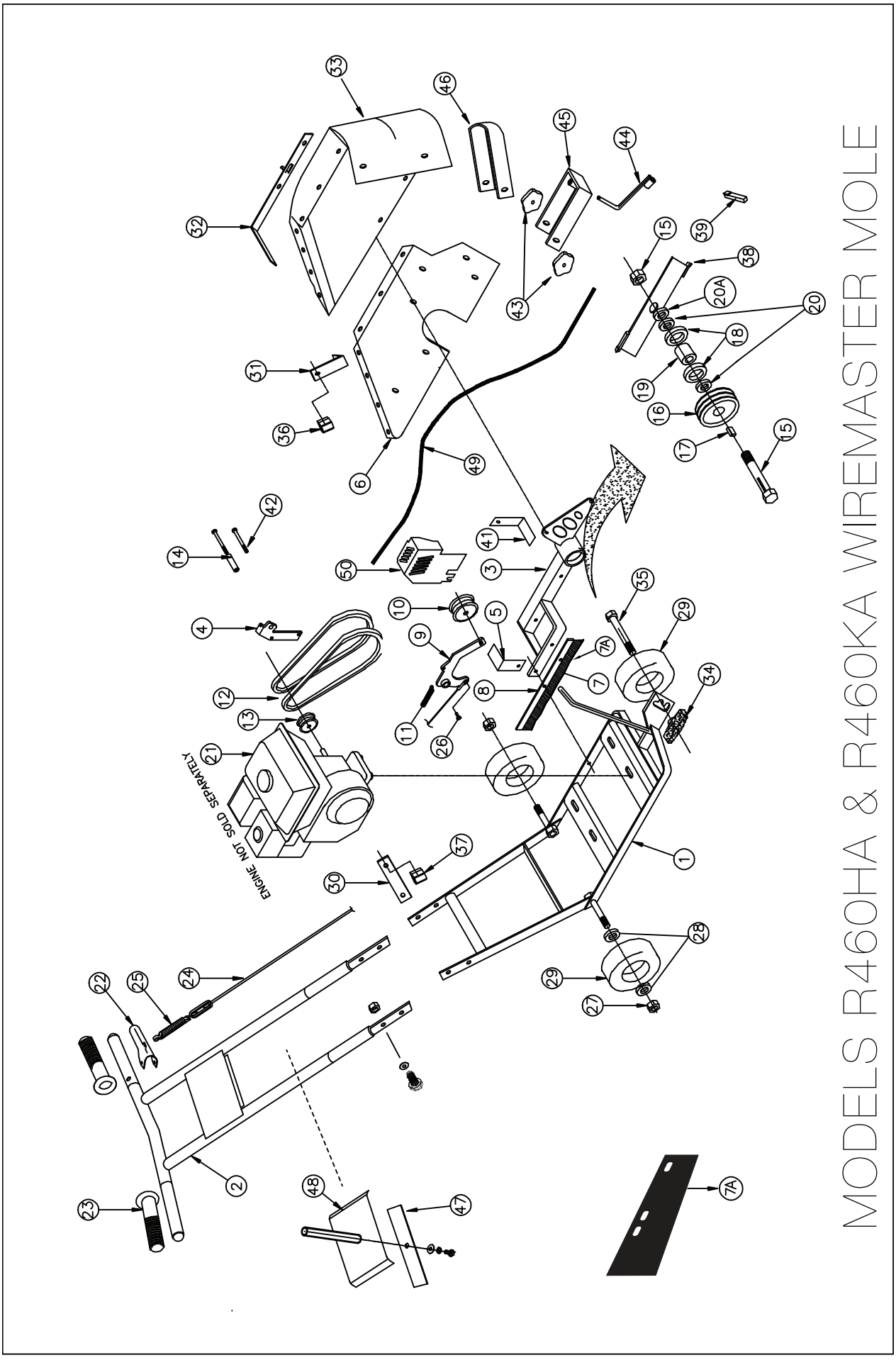
460–001 WIRE MASTER MOLE KIT



459–001 REDEFINER EDGER KIT

WireMaster Mole Model R460HA/KA
Parts List

REF. NO.	PART NO.	DESCRIPTION	NO. REQ'D
1	450-001	Frame	1
2	450-002	Handlebar	1
3	450-003	Assembly, Rotor Arm with Bearings & Spacer	1
4	450-251	Bracket, Idler Arm	1
5	450-024	Stop, Belt, Engine Pulley	1
6	460-252	Hood, Back Plate	1
7	450-752	Brush (No longer available, See NEW Part #450-771)	1
7A	450-771	Dirt Deflector, Rubber Flap	
8	450-503	Channel, Brush (Not needed w/ NEW Rubber Deflector #450-771)	1
9	991-05	Arm, Idler	1
10	12-22-2A	Pulley, Double Idler	1
11	991-06	Spring, Idler Arm Return	1
12	780-30	Belt, 31" Kevlar, Model R450H Only, 3.5" O.D. Pulley (A29K)	2
12	450-767	Belt, 33" Kevlar, Model R450HA Only, 4.5" O.D. Pulley (A31K)	2
13	701-02-2	Pulley, Engine, Double Groove, $2^{1/2}$" O.D. x 3/4" Bore	1
14	230-0002	Stop, Belt	1
15	450-502	Spindle, Rotor w/Nut	1
16	450-501	Pulley, Double Rotor, Model R450H Only, 3.5" O.D. (NLA)	1
16	450-768	Pulley, Double Rotor, Model R450HA Only, 4.5" O.D.	1
17	450-758	Key, 3/16" x 3/16" x 3/4" Long, Rotor Pulley	1
18	450-751	Bearing, Rotor	2
19	450-004	Bearing, Spacer	1
20	450-765	Washer, 3/4" SAE Rotor Spindle (against each bearing)	2
20A	450-766	Flatwasher, 3/4" (against back of rotor), USS	1
21	Not Sold Seperately	Engine, Honda GX160	1
22	450-259	Clutch Lever, Over Center	1
22	450-504	Lever, Clutch, Black	1
23	701-25	Grip, Handle	2
24	450-770	Cable, Clutch, For over Center Handle	1
24	450-754	Cable, Clutch w/Clevis & Turnbuckle, Black Lever	1
25	701-24A	Spring, Clutch	1
26	12-09	Pin, Sheave w/Cotter Pin	1
27	701-06A	Nut, 5/8" Nylon Lock	2
28	702-27B	Bearing, 5/8" Wheel (2 per wheel)	6
29	702-50C	Wheel, Pneumatic w/ 5/8" Bearing	3
30	702-78	Strap	1
31	460-009	Bracket, Pex, Tube	1
32	460-251	Brace, Outside	1
33	460-501	Drape, Hood	1
34	450-755	Nut, Height Adjuster Wing - 5/8"	1
35	450-764	Bolt, Front Axle - 5/8" x 4"	1
36	460-504	Clip, 12mm	1
37	460-505	Clip, 10mm	1
38	460-002	Rotor, 3" x 3/4", Wiremaster (Adj. to 4" depth)	1
39	450-507	Point, Rotor (2 1/4" straight)	N/A
40	450-762	Assembly, Front Axle (Bolt, Nuts, Washers & Wing Nut)	1
41	450-025	Stop, Belt, Rotor Pulley, Model R450HA Only, 4.5" O.D.	1
42	450-763	Stop, Idler Arm, 5/16" x 3 1/2" NF Bolt	1
43	460-503	Knob, Up/Down Adjustment	2
44	460-007	Rod, Ground	1
45	460-008	Bracket, Front, Up/Down	1
46	460-004	Bracket, Drape Retainer	1
47	460-010	Clamp, Wire Spool Bracket	1
48	460-013	Bracket, Wire Spool Mount	1
49	460-014	Tube, Wire Conduit, PEX	1
50	460-260	Guard, Drive Pulley	1
6, 32 & 33	460-015	Assembly, Hood with Drape	1


MODELS R460HA & R460KA WIREMASTER MOLE
ENGINE NOT SOLD SEPARATELY

WireMaster Mole Kit Installation Instructions

1. Remove the ReDefiner Rotor (item # 38) from the rotor shaft.
2. Remove the entire ReDefiner hood assembly (item #30) from the bearing housing bracket and bearing housing arm. Set aside the Lower Belt Stop (item #41) for reinstallation.
3. Remove the Brush (item #8) from the bearing housing arm and set aside for reinstallation.
4. Install the WireMaster Mole hood assembly with PEX tubing to the bearing housing bracket and the bearing housing arm with the Brush (item #8) between the hood back plate and the bearing housing arm.
5. Install PEX tube bracket (item #'s 50 & 51) to the outside of the of the left handle bar tube in the top bolt with Clip (item #51) to the outside.
6. Thread the end of the PEX tube (item #49) through the Clip (item #51).
7. Attach the Wire Reel Holder (item #48) to the top side of the handlebar using the Clamp Bar (item #47) on the bottom side of the handlebar. The Wire Reel Holder should be up against the lower edge of the handlebar plate that has the ReDefiner decal and data plate attached.
8. Install the removed ¾" hex nut (item #15) on rotor shaft and tighten to 40 ft.lbs and assure that the ¾" SAE flat washer is between the nut and the bearing.
9. Install the Wiremaster Mole Rotor (Ref. #57 - part #460-002) and tighten the outside ¾" nut to 70 ft.lbs. Remember, the Rotor rotates counter-clockwise when facing it from the nut end of the rotor shaft. The carbide cutting tip should be on the top of the right end and the bottom of the left end. The front wheel of the trencher controls the depth of the rotor. There are three depth positions (2", 3" and 4") determined by the front wheel position. The bottom position will give a 2" depth, the center position will give a 3" depth and the top position will give a 4" depth. Set the front wheel to the desired wire/trench depth.

WireMaster Mole Operating Instructions

1. Read and understand Operating Instructions on pages 10 & 11. Check oil level of engine. Add oil if needed.
2. The front wheel of the trencher controls the depth of the rotor. There are three depth positions (2", 3", 4") for the front wheel. The bottom position is 2", the center position is 3", and the top position is 4". Set the front wheel to the desired wire depth.
3. Place the machine at the starting point. Start the engine, tilt the handlebar down, raising the front wheel off the ground until the rotor clears the ground. Engage the clutch handle which will turn the rotor. Slowly raise the handle and allow the rotor to start digging, when the front wheel is on the ground, begin pulling the machine backward, digging a trench approximately 20-24 inches long. Stop the engine.
4. Load Wire Spool Mount with spooled wire and thread wire through PEX tubing (item #49) until it protrudes about 6-8" out of the bottom end of the PEX tubing.
5. Drive a stake in ground about 12" from the starting point of the wire run.
6. Loosen the two Up/Down Adjustment Knobs (item #43) and slide the Front Up/Down Bracket forward and lower it and then slide back with the Bracket on top of the tab on the Outside Brace (item #56) and tighten the Up/Down Adjustment Knobs (item #43) securely.
7. Secure the wire to the stake at ground level.
8. Check oil level, add as needed. Crank the engine and run at full throttle.
9. Be certain the ground rod (item #44) is positioned in the trench. The front wheel should be on the ground.
10. The wire is now positioned at the bottom of the trench at the desired depth. Continue to pull the machine and complete the wire installation/run.
11. To make turns, merely lift up on the handlebar and slide the rear wheels to make the turn, pivoting the trencher on the front wheel.

ReDefiner Edger Kit Installation Instructions

1. Remove the ReDefiner rotor (item # 38) from the rotor shaft
2. Remove the entire hood assembly (item #30) from the bearing housing and bearing housing arm. Keep the Lower Belt Stop (item #41) for reinstallation.
3. Remove the Brush (item # 8) from the bearing housing arm and keep for reinstallation.
4. Install the Extension, Blade Guard (item #59) loosely with the Brush (item #8) between the Blade Guard Extension and the bearing housing arm.
5. Bolt the Guard, Blade (item #60) to the bearing housing bracket with the Spacers (item #62) between the Blade Guard and the bearing housing bracket.
6. Reinstall the Lower Belt Guard on the back side of the bearing housing bracket so it is just above the lower pulley and tighten the two bolts. Note: The Blade Guard Extension should be inside the Blade Guard.
7. Slide the Blade Guard Extension back until it is snug against the inside of the Blade Guard and tighten the bolts. Assure that a flat washer is next to the slotted holes.
8. Install the removed ¾" hex nut (item #15)on rotor shaft and tighten to 40 ft.lbs and assure that the ¾" SAE flat washer is between the nut and the bearing.
9. Install the Edger Blade (item # 61) and ¾" hex nut and tighten to 70 ft.lbs.
10. Check oil level. Crank engine and move to full throttle,tilt the unit back and engage the blade. Then release theclutch lever and assure the blade stops turning fairly promptly. If not, adjust the Lower Belt Stop and repeat until it is working properly.

If you have technical questions, call Rodney Blackmon or Ron Brown @ 800-897-3726.

ReDefiner Assembly Instructions

1. Attach handlebar using the four 5/16"x 1" bolts and flat washers located in the hardware bag. (See drawing on pages 16 & 20) Insert bolt and flat washer on outside of handle and place nut on inside of handle.
2. Remove coiled Clutch Cable from Handle Bar and uncoil.
3. Attach Cable Clevis to the Idler Arm (991-05) using the Clevis Pin and Cotter Key in hardware bag.
4. With the Clutch Lever in the released position adjust the Cable length by turning the Turnbuckle until the Belt Idler Pulley (12-22-2A) is approximately 1/8"-3/16" above the drive belts.
5. Next tighten the Clevis Jam nut against the Clevis body.
6. Next engage the clutch lever and hold. Then release the clutch lever and recheck the distance between the idler pulley and drive belts. Readjust the Turnbuckle, if needed, to attain 1/8"-3/16" distance between idler pulley and drive belts.
7. With clutch lever engaged, assure that the lever is parallel to handlebar (bend if needed) and releases properly and does not drag or hang up on the handlebar tube. If lever does drag or hang up, use a screwdriver to open up the right side flange of the lever that is hanging up. Operate the clutch lever several times to assure that it returns to neutral position quickly when released.
8. The front wheel position of the trencher controls the depth of the rotor. There are three positions (2", 3" and 4"). The bottom position digs 2" deep, the middle position digs 3" deep and the top position digs 4" deep. The Redefiner is set at the factory with the 3" Redefining Rotor mounted on the machine with the front wheel in the center wheel position. It will dig 3" deep. To change the depth, loosen the wing nut at the front wheel, reposition the front wheel to give the desired depth, and retighten the wing nut.

Hardware Bag Contents:

5/16" x 1" Coarse 4 each • 5/16" Flat Washer 4 each • 5/16" Nylok Nuts 4 each
12-09 Pin, Sheave w/ cotter pin 1 each

BED EDGER BANTAM

B565H, B570K,
B590H & B595K Bantam

Install new beds and redefine existing beds

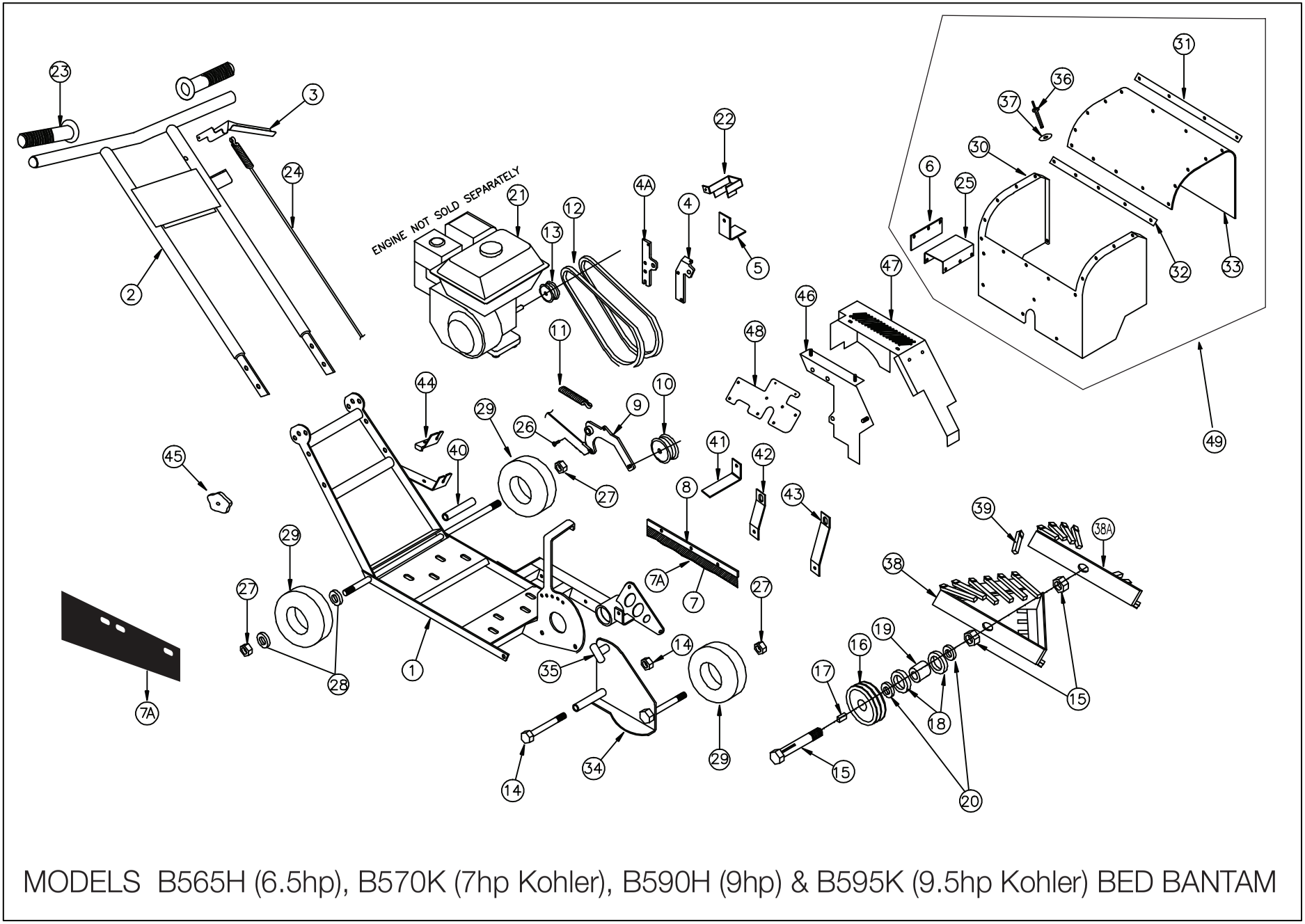
B765H & B770K (Bantam Mole)

Install low voltage wire 7″ deep or
dog fence 3 1/2″ deep

ASSEMBLY INSTRUCTIONS

Brown BedEdger Bantam™ and Bantam Mole

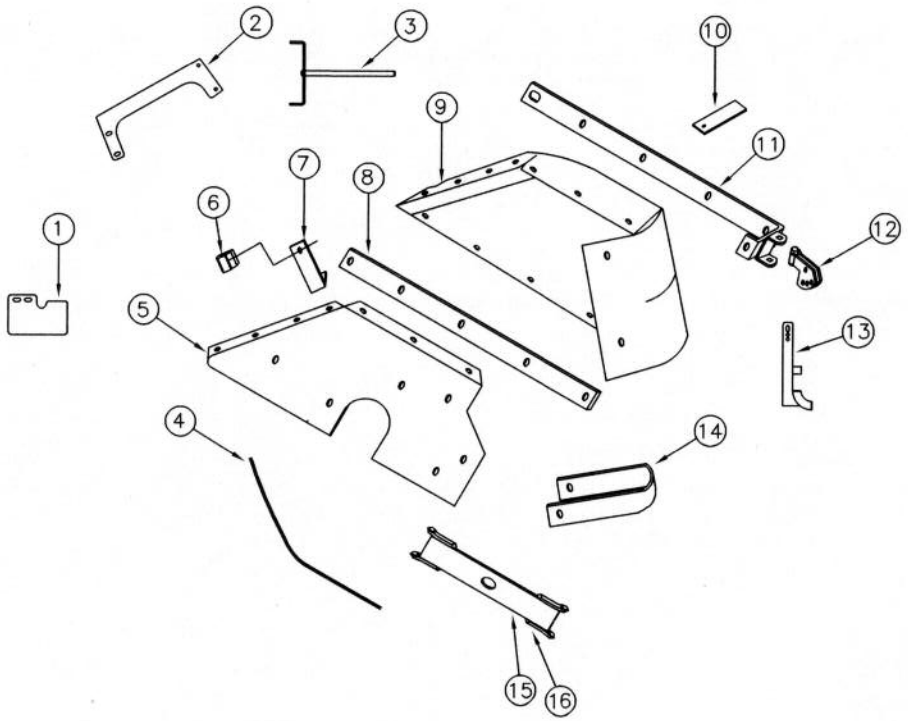
1. Read and understand the General Operating Instructions on pages 7-10.
2. The front wheel of the Bantam controls the depth of the rotor/trench. There are 5 depth positions on the Bantam models. All Bantam models (Bed and Mole) are shipped with the rotor installed and are Factory Set in the Middle Position. To trench deeper without changing rotors, reposition the T – Handle to one of the holes nearer the engine. To raise the rotor in order to dig more shallow, reposition the T-handle forward to one of the holes toward the front of the machine.
3. Install Handlebar using the four 5/16" X 1" carriage bolts located in hardware bag.
4. Remove zip tie on right side of handlebar holding clevis end of clutch cable, leaving the two zip ties on the left side of the handlebar securing the clutch cable.
5. Remove the dust cap and first nut on the clevis end bulk head fitting.
6. On Models B565H and B765H only, insert clutch cable conduit bulk head fitting into slotted hole of cable bracket that is welded to the left side of the frame and reinstall nut so that there is an equal amount of threads of the bulk head fitting on each side of the mounting bracket. On Models B580H, B590H, B780H, and B790H, insert the cable conduit bulkhead fitting into the slotted hole of Bracket (Part # 470-260, Item # 44) that is bolted to the bracket that is welded to the left side of frame.
7. Attach cable clevis to idler arm (Part # 991-05, Item # 9) and install cotter pin in clevis pin.
8. With the clutch lever (Part # 450-259, Item # 3) in the released position, adjust the clevis end conduit bulk head fitting until the belt idler pulley (Part # 12 -22-2A, Item # 10) is approximately 1/8" -3/16" above the drive belts.
9. Now engage the clutch lever and hold. Then release the clutch lever and recheck the distance between the idler pulley and drive belts. Readjust the bulk head fitting, if needed, to attain 1/8" -3/16" distance between idler pulley and drive belts.
10. Assure the bulkhead nuts are tight and replace dust cap.
11. Due to belt stretch, after one hour of operation, recheck idler pulley to belt distance. If distance is greater than 3/16", adjust bulk head fitting until 1/8" -3/16" is attained.
12. As belts wear and stretch, after many hours of operation, the top bulk head fitting can be adjusted in order to maintain proper idler pulley to belt distance.
13. With clutch lever engaged, assure that the lever is parallel to handlebar (bend if needed) and releases properly and does not drag or hang up on the handlebar tube. If lever does drag or hang up, use a screwdriver to open up the right side flange of the lever that is hanging up. Operate the clutch lever several times to assure that it returns to neutral position quickly when released.
14. On all Bantam Mole models (R795H, R780H, & R790H) install the wire spool brackets (Part #480-257) and the spool holder (Part #480-009).
15. Add gasoline and oil before operating your Bantam.



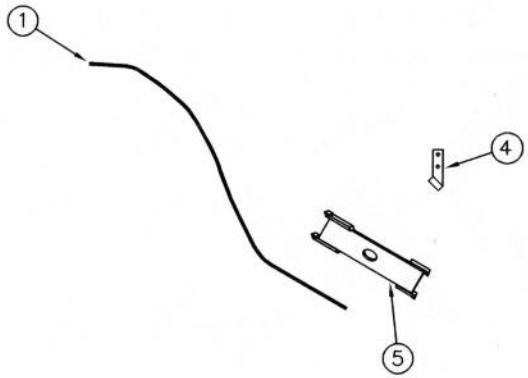
MODELS B565H (6.5hp), B570K (7hp Kohler), B590H (9hp) & B595K (9.5hp Kohler) BED BANTAM

Bed Bantam Models B565H (6.5hp), B570K (7hp Kohler), B590H (9hp) & B595K (9.5hp Kohler) PARTS LIST

Ref #	Part #	Description	# Req'd
1	470-022	Frame	1
2	470-024	Handlebar	1
3	450-259	Clutch Lever, Over Center	1
4	450-251	Bracket, Idler Arm, Model B590H & B580H	1
4A	470-261	Bracket, Idler Arm, Model B565H Only	1
5	450-024	Stop, Belt, Engine Pulley--Model B565H Only	1
6	470-755	Flap, Dirt Deflector	1
7	450-752	Brush (No longer available, See NEW Part #450-771)	1
7A	450-771	Dirt Deflector, Rubber Flap	1
8	450-503	Channel, Brush (Not needed w/ NEW Rubber Deflector #450-771	1
9	991-05	Arm, Idler	1
10	12-22-2A	Pulley, Double Idler	1
11	991-06	Spring, Idler Arm Return	1
12	450-767	Belt, Kevlar, Model B565H (1/2" x 33" A31K)	2
12	470-754	Belt, Kevlar, Model B590H & B580H 1/2"X35"/A33K/4L350K	2
13	701-02-2	Pulley, Engine	1
14	HC58C80Z	Bolt, Front Axle, 1/2"-13 X 5 w/Nylok Nut	1
15	450-502-2	Spindle, Rotor w/ 2 Nuts	1
16	450-768	Pulley, Double, Rotor, 4.5" O.D.	1
17	450-758	Key, 3/16" x 3/16" x 3/4" Long, Rotor Pulley	1
18	450-751	Bearing, Rotor	2
19	450-004	Bearing, Spacer	1
20	450-765	Washer, 3/4" SAE Rotor Spindle (against each bearing)	2
21	No Part #	Engine, Honda--NOT SOLD SEPARATELY	1
22	991-08	Stop, Belt, Models B590H & B580H	1
23	701-25	Grip, Handle	2
24	470-752	Cable, Clutch	1
25	470-257	Deflector, Dirt, Rear	1
26	12-09	Pin, Clevis w/Cotter Pin	1
27	701-06A	Nut, 5/8" Nylon Lock	3
28	702-27B	Bearing, 5/8" Wheel (2 per wheel)	6
29	702-50C	Wheel, Pneumatic w/ 5/8" Bearing	3
30	470-026	Hood	1
31	470-011	Strap, Top, Hood Drape (4 bolt holes)	1
32	470-021	Strap, Rear, Hood Drape (5 bolt holes)	1
33	470-751	Drape, Hood	1
34	470-025	Bracket, Front Wheel	1
35	470-753	Pop Pin, Front Wheel Adjustment	1
36	450-756	Rivet, Hood Drape	12
37	450-757	Washer, Rivet Back-up	8
38	470-019	Rotor, Bantam Bedmaster, 3"- 5" Adjustable (3/4" hole)	1
38A	450-100	Rotor, 3"- 4" Redefiner Rotor (Adjustable w/ pop pin)(3/4" hole)	Optional
39	450-507	Point, Rotor (2 1/4" straight)	N/A
39	12-85	Point, Rotor (3 1/2" straight)	N/A
40	470-008	Spacer, Left Rear Wheel	1
41	450-025	Stop, Belt, Rotor Pulley, --Model B565H Only	1
42	470-010	Brace, Hood, Rear	1
43	470-018	Brace, Hood, Front	1
44	470-260	Bracket, Cable, Handle Bar, Model B590H & B580H	1
45	470-756	Kit, Easy Fold Handle (Kit consists of 4 # 460-503 Star Knobs)	1
46	470-263	Back Plate, Belt Guard, All Models	1
47	470-262	Belt Guard, All Models	1
48	470-265	Mount Plate, Belt Guard, B-565H & B765H	1
49	470-039	Hood, Complete	1
N.S.	470-758	Washer, Rivet Back-up, 1/2" O.D.	4
N.S.	SD470-757	Decal, BedEdger Bantam	2



480–249 KIT CONVERTS A BEDEDGER BANTAM TO A LOW VOLTAGE BANTAM MOLE



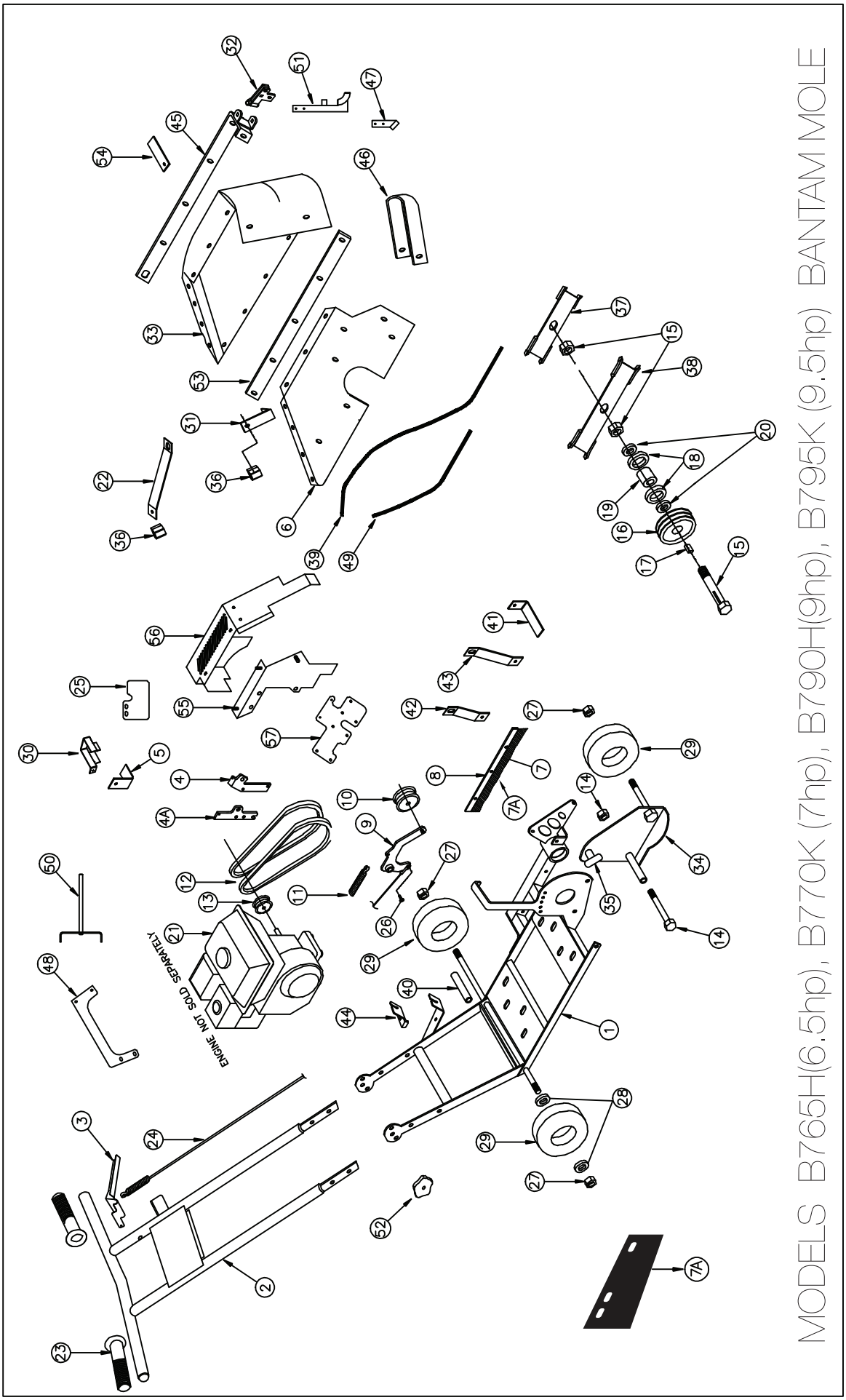
480–250 KIT CONVERTS A LOW VOLTAGE BANTAM MOLE FOR INVISIBLE DOG FENCE INSTALLATION @ 3" DEPTH

Parts List for Bantam Mole Kit # 480-250 to Convert Bantam Mole Models B765H, B780H, & B790H to Invisible Dog Fence @ 3” Depth

REF. NO.	PART NO.	DESCRIPTION	NO. REQ’D
1	480-019	Tube, PEX, 1/4” I.D., Invisible Fence	1
4	480-022	Ground Rod, Invisible Fence, 3” Depth	1
5	480-011	Rotor, 3” Depth x 1-3/8” Wide, 3/4” Bore, Invisible Fence	1

Parts List for Bantam Mole Kit # 480-249 to Convert BedEdger Bantam Models B565H, B580H, & B590H to a Low Voltage Bantam Mole

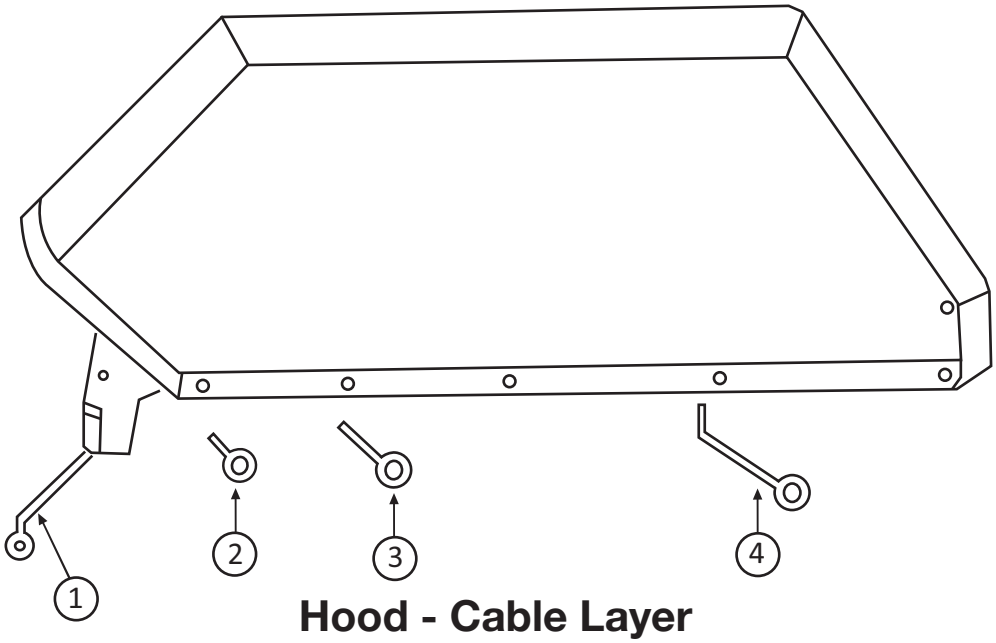
REF. NO.	PART NO.	DESCRIPTION	NO. REQ’D
1	480-258	Deflector, Dirt, Rear	1
2	480-257	Bracket, Wire Spool Mount	1
3	480-009	Spool Holder	1
4	480-015	Tube, PEX, 1/2” I.D., Low Voltage Wire	1
5	480-251	Hood, Back Plate	1
6	350-866	Strap, 3/4” EMT, One Hole	2
7	480-014	Bracket, Front, PEX Tube Mount, All Models	2
8	480-003	Strap, Flap, Inside	1
9	480-751	Drape, Hood	1
10	480-004	Strap, Flap Support, Inside	1
11	480-018	Brace, Outside, Hood Flap	1
12	480-006	Swivel, Ground Rod	1
13	480-013	Ground Rod, Low Voltage Wire, 7” & 5-1/2” Depth	1
14	480-002	Bracket, Drape Retainer	1
15	480-029	Rotor, 6”-7” Adjustable Depth x 1-3/8” Wide, (3/4” Bore) Low Voltage Wire	1
16	480-012	Rotor, 5” x 1-3/8” (3/4” bore), Low Voltage	1


MODELS B765H(6.5hp), B770K (7hp), B790H(9hp), B795K (9.5hp) BANTAM MOLE
ENGINE NOT SOLD SEPARATELY

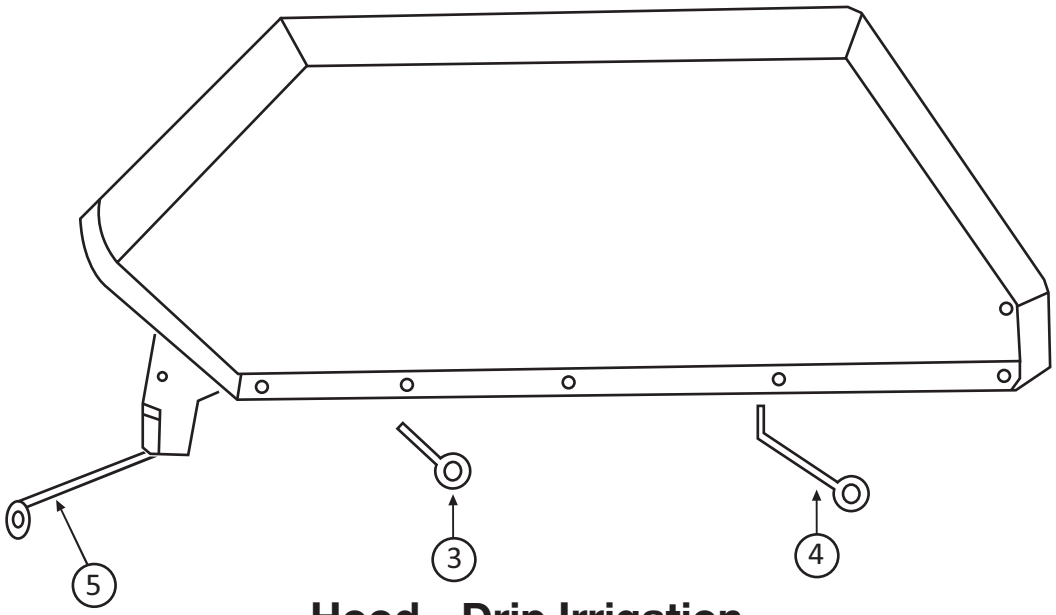
Bantam Mole Models B765H, B770K, B790H & B795K

Ref #	Part #	Description	# Req'd
1	470-022	Frame	1
2	470-024	Handlebar	1
3	450-259	Clutch Lever, Over Center	1
4	450-251	Bracket, Idler Arm, Model B790H & B780H	1
4A	470-261	Bracket, Idler Arm, Model B765H Only	1
5	450-024	Stop, Belt, Engine Pulley--Model B765H Only	1
6	480-251	Hood, Back Plate	1
7	450-752	Brush (No longer available, See NEW Part #450-771)	1
7A	450-771	Dirt Deflector, Rubber Flap	1
8	450-503	Channel, Brush (Not needed w/ NEW Rubber Deflector #450-771)	1
9	991-05	Arm, Idler	1
10	12-22-2A	Pulley, Double Idler	1
11	991-06	Spring, Idler Arm Return	1
12	450-767	Belt, 31" Kevlar, Model B765H Only	2
12	470-754	Belt, Kevlar, Models B780H & B790H 1/2"X35"/A33K/4L350K	2
13	701-02-2	Pulley, Engine	1
14	HC58C80Z	Bolt, Front Axle, 1/2"-13 X 5 w/Nylok Nut	1
15	450-502-2	Spindle, Rotor w/ 2 Nuts	1
16	450-768	Pulley, Double, Rotor, 4.5" O.D.	1
17	450-758	Key, 3/16" x 3/16" x 3/4" Long, Rotor Pulley	1
18	450-751	Bearing, Rotor	2
19	450-004	Bearing, Spacer	1
20	450-765	Washer, 3/4" SAE Rotor Spindle (against each bearing)	2
21	No Part #	Engine, Honda--NOT SOLD SEPARATELY	1
22	480-007	Bracket, Rear, PEX Tubing, Invisible Fence, 3" Depth	1
23	701-25	Grip, Handle	2
24	470-752	Cable, Clutch	1
25	480-258	Deflector, Dirt, Rear	1
26	12-09	Pin, Clevis w/Cotter Pin	1
27	701-06A	Nut, 5/8" Nylon Lock	3
28	702-27B	Bearing, 5/8" Wheel (2 per wheel)	6
29	702-50C	Wheel, Pneumatic w/ 5/8" Bearing	3
30	991-08	Stop, Belt, Model B790H & B780H	1
31	480-014	Bracket, Front, PEX Tube Mount, All Models	1
32	480-006	Swivel, Ground Rod	1
33	480-751	Drape, Hood	1
34	470-025	Front Wheel Mount	1
35	470-753	Pop Pin, Front Wheel Adjustment	1
36	460-504	Clip, 12 mm, PEX Tubing Guide	2
37	480-011	Rotor, 3" Depth, Invisible Fence (adjust to one or two holes nearer engine for 3" depth	1
38	480-029	Rotor, 6" - 7" depth, low voltage wire	1
39	480-019	Tube, PEX, 1/4" I.D., Invisible Fence	1
40	470-008	Spacer, Left Rear Wheel	1
41	450-025	Stop, Belt, Rotor Pulley, --Model B765H Only	1
42	470-010	Brace, Hood, Rear	1
43	470-018	Brace, Hood, Front	1
44	470-260	Bracket, Cable, Handle Bar, Model B790H & B780H	1
45	480-018	Brace, Outside, Hood Flap	1
46	480-002	Bracket, Drape Retainer	1
47	480-022	Ground Rod, Invisible Fence, 3" Depth	1
48	480-257	Bracket, Wire Spool Mount	1
49	480-015	Tube, PEX, 1/2" I.D., Low Voltage Wire	2
50	480-009	Spool Holder	1
51	480-013	Ground Rod, Low Voltage Wire, 7" & 5-1/2" Depth	1
52	470-756	Kit, Easy Fold Handle (Kit consists of 4 # 460-503 Star Knobs)	1
53	480-003	Strap, Flap, Inside	1
54	480-004	Strap, Flap Support, Inside	1
55	470-263	Belt Guard Mount Plate, All Models	1
56	470-262	Belt Guard	1
57	470-265	Mount Plate, Belt Guard, B565H & B765H Only	1

BANTAM CABLE LAYER B765H, B770K - CL, B790H, B795K - CL & BANTAM DRIP IRRIGATION INSTALLER B565H, B570K - DI, B590H, B595K - DI



Hood - Cable Layer



Hood - Drip Irrigation

REF. NO.	PART NO.	DESCRIPTION
1	480-503	5/16” Eye Bolt, Ground Rod, Cable Layer
2	480-756	1/4” Eye Bolt, Mounts at front of hood
3	480-755	3/8” Eye Bolt, Mounts as shown in drawing above
4	480-502	3/8” Eye Bolt, Mounts as shown in drawing above
5	480-501	3/8” Eye Bolt, Ground Rod, Drip Irrigation
NS	480-037	7” x 2” Rotor, Cable Layer
NS	470-013	5” x 2” Rotor, Drip Irrigation

Note: Hood & frame parts for the Cable Layer & Drip Irrigation units are the same as the Bantam Mole except for the parts shown above.

Bantam Mole Operating Instructions

1. Read and understand General Operating Instructions on pages 7-10.
2. The front wheel of the Bantam Mole controls the depth of the rotor. There are actually three depth positions on the Bantam Mole. However, you only use the hole closest to the engine and the center hole for low voltage wire installation. The Rotor for low voltage wire installation is part number 480-029 and the Ground Rod is part number 480-013. The Bantam Mole is shipped with this Rotor and Ground Rod. Using this Rotor and Ground Rod, the hole closest to the engine is 7" deep and the center hole is 5-1/2 inches deep. For invisible fence wire at 3" deep, you use Rotor number 480-011 (reposition pop pin nearer engine for 3" depth), Ground Rod # 480-022, PEX Tubing # 480-019, Rear PEX Tubing Bracket # 480-007, and one Clip, 12mm PEX Tubing Guide # 460-504. The depth position for invisible fence wire at 3" is the hole closest to the engine. Effective 1 Jan. 2020, kit #480-250 (invisible pet/dog fence installation) will be included with the purchase of a Bantam Mole.
3. Load Wire Spool Mount with spooled wire and thread wire through PEX tubing (item #49) until it protrudes about 6-8" out of the other end of the PEX tubing.
4. Drive a stake in ground about 12" from the starting point of the wire run.
5. Move the Bantam Mole into position about 3-4" from the stake with the handlebar pointing in the direction of the wire run.
6. Secure the wire to the stake at ground level.
7. Crank the engine and run at full throttle.
8. Tilt the handlebar down until the rotor clears the ground and engage the rotor.
9. Slowly lower the rotor into the ground and start pulling the Bantam Mole toward you until the front wheel is on the ground. Once the front wheel is on the ground the wire is now buried to the desired depth. No continue to complete the wire run. To make turns, merely lift up on the handlebar and slide the rear wheels to make the turn. That is, always pivot the Bantam Mole on the front wheel.
10. When installing low voltage wire, at each light location, disengage the clutch lever and allow the rotor to stop turning. Then push down on the handlebar until the wire is above ground level and then lower the front of the machine back onto the ground. Pull about 10"-12" of slack wire off the wire spool. Place a short piece of 2" X 4" lumber under the loop and continue the wire run. Repeat this step at each light location.

Bantam Mole KIT # 480-249 Installation Instructions

1. Remove the Rotor (Part # 470-019) from the rotor shaft.
2. Remove the entire Bed Bantam hood assembly (item #30) from the bearing housing bracket and bearing housing arm leaving the hood braces (Part # 470-018) attached to the bearing housing. Set aside the Lower Belt Stop (Part # 450-025, Model B765H only) and Rear Hood Brace (Part # 470-010) for reinstallation.
3. Remove the Brush with Channel (Part # 450-752 & 450-503) from the bearing housing arm and set aside for reinstallation.
4. Install the Bantam Mole hood assembly to the bearing housing bracket and the bearing housing arm with the Brush with Channel (Part # 450-752 & # 450-503) between the hood back plate and the bearing housing arm.
5. Attached two Wire Spool Mount Brackets (Part #480-257) to the inside of the handlebar frame brackets. Leave bolts loose, do not tighten.
6. Attach Spool Holder (Part # 480-009) to the outside of the two Wire Spool Mount Brackets mentioned in step 5.
7. Now tighten all bolts attaching the Wire Spool Holder and Brackets.
8. Install the Bantam Mole Rotor (Part # 480-010) and tighten the outside ¾" nut to 70 ft lbs. Remember, the Rotor rotates counter-clockwise when facing it from the nut end of the rotor shaft. The carbide cutting tips should be on the top of the points on the right end and the bottom of the points on the left end.

The above 8 installation steps are for Bantam Mole Kit # 480-249 which converts a Bed Bantam to a Low Voltage Wire Bantam Mole for 7" deep cable placement.

For 3" Invisible Dog Fence Wire, you must order the 480-250 Conversion Kit. This kit consists of only five parts as shown in the drawing for that kit.

ROTORS FOR THE BROWN BEDEDGER BANTAM AND THE BANTAM MOLE

The **BEDEDGER BANTAM** (Models B565H/B590H) is designed to install/dig new bed edges at different depths without needing to change rotors. The depth is controlled by the position of the front wheel which may be changed by repositioning the pop pin (item #35) to a different hole (5 holes/positions) to achieve the desired depth. By repositioning it toward the engine, it will dig deeper. By repositioning the pin toward the front of the machine, it will dig shallower.

The Bantam Bedmaster rotor (part # 470-019) is installed on the machine at the factory and the pull pin is factory set in the standard/middle position which will dig a bed edging trench 3 ½" deep, angling up into the bed. By repositioning the pop pin 2 holes toward the engine, it will dig 5" deep. Trench width at surface level is 6 ½". The total length of this rotor, tip to tip is 15".

The following rotors will also fit on the Bededger Bantam:

450-100 3" Redefining Rotor (in order to use this rotor at a depth of 3" x 4" wide, the pull pin must be repositioned (from the standard position [middle hole]) one hole in the direction of the engine.

460-002 3" x ¾" rotor, digs 3" deep and ¾" wide for installing invisible dog/pet fence and remote device/mower wire. If used on the Bed Bantam, the trench must be refilled manually.

470-013 5" x 2" Bantam clay rotor digs 5" deep and 2" wide and is used for installing irrigation pipe. In the standard pop pin setting (middle hole) it will dig 5" deep, to dig deeper, you must reposition the pop pin in a hole in the direction of the engine. The total length of this rotor is 18 ¼".

The **BANTAM MOLE** (Models B765H/B790H) is designed to install low voltage lighting by digging a trench 7" deep (depth may be adjusted to a shallower trench by repositioning the pop pin [item 35] to a hole position toward the front of the machine or by changing rotors). The Bantam Mole is designed to dig a trench, install the wire/cable, and refill the trench all in one operation/pass.

The Bantam Mole is shipped from the factory with a trenching rotor #480-029 (standard Bantam Mole rotor) which will provide a 6" or 7" trench 1 3/8" wide for low voltage wire installation. In order to achieve the maximum 7" depth, the pull pin must be positioned in the hole closest to the engine. If left in the standard pull pin position (middle hole) the machine will only trench 5 ¾" - 6" deep. The total length of this rotor is 19 ¾" inches.

Beginning 1 January 2020, the Bantam Mole will additionally ship with the Ground Rod (part #480-022) and the 3" rotor (part #480-011) which are needed to install invisible dog/pet fence and robot mower wire.

480-011 3" x 1 3/8" rotor, designed to install invisible dog/pet fence and remote mower wire at depth of 3" at the standard pull pin setting (middle position). Deeper or shallower depths may be achieved by repositioning the pop pin. This is a 3 point (3 points on each end) rotor which is 14 ½" inches long from tip to tip. In order to use the Bantam Mole to install invisible dog/pet fence and remote mower wire, you must change the ground rod from part #480-013 (item#51) to part #480-002 (item #47).

480-012 5" x 1 3/8" rotor designed to install low voltage to a depth of 5" inches maximum. Depth may be adjusted up or down by repositioning the pop pin. This is a 3 point rotor (3 points on each end) and it digs 1 3/8 inches wide. Total length of this rotor is 18 ¼" inches.

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