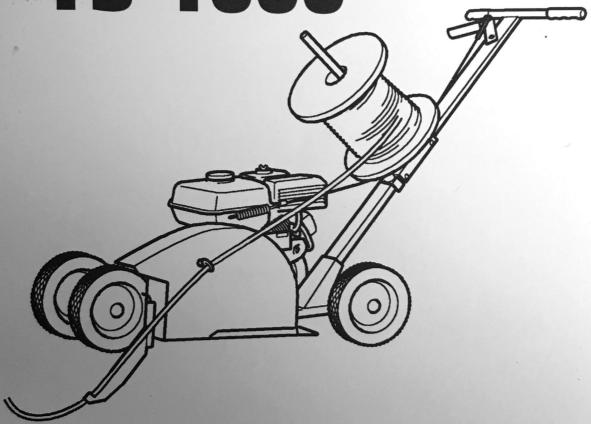
E-FRENCH® REIVER

Turfserf Cable Installer

TS-1000



Owners Manual

E-Z Trench Manufacturing Co., Inc. 2315 S. Hwy. 701 • Loris, S.C. 29569 (843) 756-6444 Fax (843) 756-6442 www.eztrench.com

A WORD TO E-Z TRENCH OWNERS . . .

THIS MANUAL HAS BEEN PREPARED TO ACQUAINT YOU WITH THE ASSEMBLY, OPERATION AND MAINTENANCE OF YOUR TURFSERF TRENCHING MACHINE, AND TO PROVIDE SAFETY INFORMATION. WE URGE YOU TO READ IT CAREFULLY AND FOLLOW THE RECOMMENDATIONS CONTAINED TO HELP ASSURE THE MOST TROUBLEFREE OPERATION.

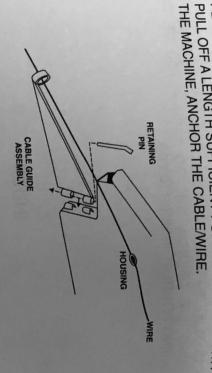
WE WOULD LIKE TO TAKE THIS OPPORTUNITY TO THANK YOU FOR CHOOSING E-Z TRENCH, AND TO ASSURE YOU OF OUR CONTINUING INTEREST IN YOUR NEEDS.

INDEX

- 1. A WORD TO E-Z TRENCH OWNERS
- 2. OPERATING INSTRUCTIONS.
- 3. TROUBLE SHOOTING AND MAINTENANCE
- 4. ASSEMBLY PARTS LIST
- 5.-7. ASSEMBLY INSTRUCTIONS
- 8.-9. PARTS DRAWING
- 10.-11. ASSEMBLY INSTRUCTIONS
 - 12. PARTS LIST
 - 13. TERMS AND WARRANTY
 - 14. WARRANTY REGISTRATION
 - 15. WARNINGS & SAFETY PRECAUTIONS
 - 16. NOTES

OPERATING INSTRUCTIONS

- FILL CRANKCASE WITH OIL. FOLLOW INSTRUCTIONS OF ENGINE MANUFACTURER.
- 2. LOAD CABLEWIRE REEL ONTO HOLDING DEVICE (1221).
- 3. PLACE THE DROP CABLE THROUGH THE CABLE GUIDE AND PULL OFF A LENGTH SUFFICIENT FOR BUILDING ENTRY. AT



- 4. START ENGINE.
- 5. RAISE DIGGING BLADE CLEAR OF GROUND BY PUSHING DOWN ON THE MACHINE HANDLE.
- 6. ENGAGE BELT DRIVE UNIT WITH HAND LEVER (1190) TO ROTATE DIGGING BLADE.
- 7. SLOWLY LOWER THE MACHINE TO GRADUALLY ENGAGE THE DIGGING BAR INTO SOIL UNTIL FRONT WHEEL IS ON THE GROUND
- 8. PULL THE MACHINE SLOWLY BACKWARD TO START TRENCHING. GUIDE THE CABLE GUIDE ASSEMBLY INTO THE TRENCH SO THE WIRE IS BURIED.

TIP: KEEP INSIDE OF HOUSING CLEAN FOR MAXIMUM BACKFILL OPERATION

TROUBLE SHOOTING

DAMAGED DIGGING BLADE HOUSING CLOGGING **EXCESSIVE VIBRATION EXCESSIVE BELT WEAR IRREGULAR OR** PROBLEM operating hour interval, whichever Clean air filter or replace Check air pressure of tires Change engine oil Check engine oil & air filter Check belt tension* Check blade and bits comes first. Perform at every indicated month or Tighten any loose bolts MAINTENANCE SCHEDULE 1. STRIKING HARD OBJECTS, SUCH 1. ENGINE PULLEY WORN OUT. 2. BELT TENSION TOO TIGHT. 4. CHECK FOR PULLEY 3. RATE OF DIG IS TOO FAST FOR 2. SOIL IS TOO WET. 1. HOUSING NOT BEING KEPT 3. ENGINE R.P.M. TOO FAST. 2. LOOSE ENGINE MOUNT BOLTS 1. LOOSE, BENT, OR BROKEN 5. USING OTHER THAN FACTORY SOLUTION SOIL CONDITION AS BRICKS, LARGE ROCKS, AND CLEAN. SHOULD BE 2800 TO DIGGING BAR OR BIT MISALIGNMENT STEEL OBJECTS. 3000 R.P.M. RATED BELTS. Every Use 0 0 0 20 Hrs. month First 9 0 0 3months 6 months 50 Hrs. Every 9 0 0 100 Hrs. Every 9 0

ω

ASSEMBLY PARTS LIST

-	2	ω	_	_	-	2	-	4	4	4	12	12	З	4	2	_	QTY.
CABLE ASSEMBLY	BELTS	BOLT, FEEDER ASM., 1/4" x 3/4"	TUBE, FEEDER ASM.	BOLT, REEL HOLDER BRACE, 1/4" x 23/4"	BRACE, REEL HOLDER	BOLTS, REEL HOLDER, 1/4" x 13/4"	REEL HOLDER	LOCK NUT, 5/16"	FLAT WASHER, 5/16"	BOLTS, USS, 5/16" x 11/2"	HEX LOCK NUT, 1/4"	FLAT WASHERS, 1/4"	BOLTS, HANDLE 1/4" x 13/4"	BOLTS, HOUSING 1/4" x 3/4"	CAPS, AXEL	AXEL, FRONT	DESCRIPTION
1150	1050		146		1222		1221						1460	1440		1230	PART

TOOLS NEEDED FOR ASSEMBLY

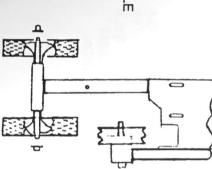
7/16" WRENCHES
1/2" WRENCHES
PLIERS

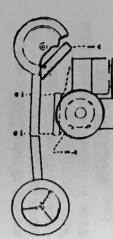
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ASSEMBLY INSTRUCTIONS

TOP VIEW

STEP 1: INSTALL FRONT AXLE AND WHEELS ON FRAME ASSEMBLY, BY HAMMERING CAPS ON AXLE.



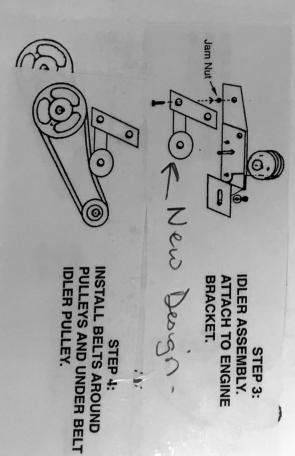


SIDE VIEW

STEP 2: PLACE ENGINE ON FRAME ASSEMBLY WITH (4) 5/16" X 11/2" BOLTS, 5/16" FLAT WASHERS AND LOCKNUTS.

NOTE: DO NOT TIGHTEN

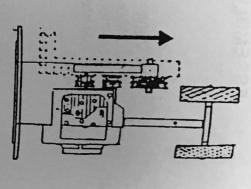
BOLTS AT THIS TIME. (STEP 5)

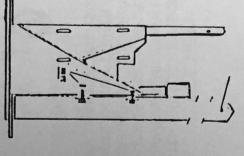


TOP VIEW

STEP 5: SLIDE ENGINE FORWARD. ALIGN USING A STRAIGHT EDGE, TIGHTEN ENGINE BOLTS SECURELY.

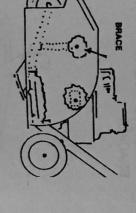
SEE STEP 15: FOR BELT GUARD INSTALLATION.





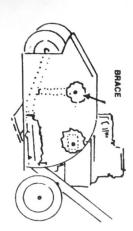
BOTTOM VIEW

STEP 6: INSTALL HOUSING (1120) AND LOWER HOUSING BOLTS LOOSELY (2) 1/4" x 3/4" WITH NUTS TOWARD ENGINE AND WASHERS UNDER BOLT HEAD.



SIDE VIEW

STEP 8: BOLT LOOSELY THE HOOD BRACE TO FRONT OF HOUSING WITH (1) $^{1/4}$ " x $^{3/4}$ " BOLTS.



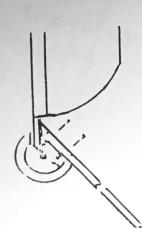
RETAINING HOUSING

SIDE VIEW

STEP 9: ATTACH FEEDER
TUBE ASSEMBLY TO SHIELD,
USING RETAINING PIN AS
SHOWN.

SIDE VIEW

STEP 10: INSTALL HANDLE TO FRAME WITH (2) 1/4" x 13/4" BOLTS WITH FLAT WASHERS UNDER NUTS. TIGHTEN SECURELY.



6

HOUSING.

OUTSIDE OF BRACKET.
TIGHTEN ALL BOLTS ON

HOUSING, AND A WASHER

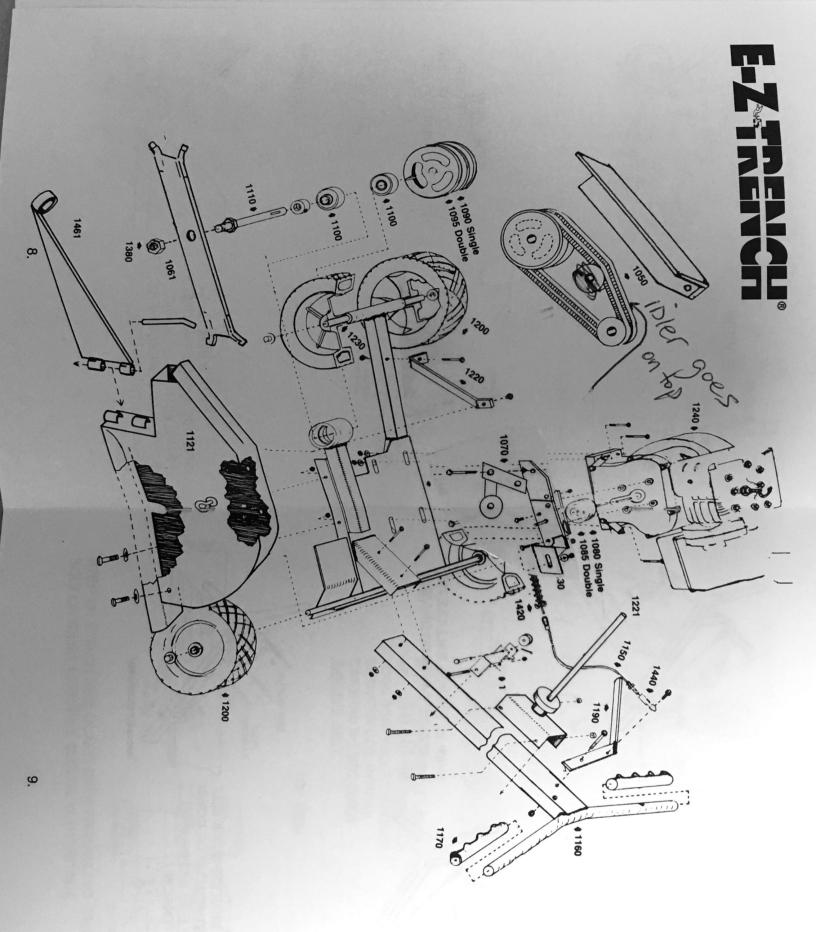
NOTE: HEAD OF BOLT AND

WASHER GOES ON INSIDE OF

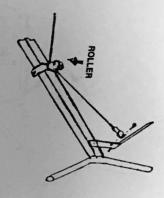
STEP 7: INSTALL LOOSELY REAR UPPER HOUSING BOLT (1) 1/4"x3/4"

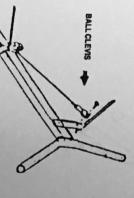
SIDE VIEW

TO SLOTTED IDLER BRACKET.

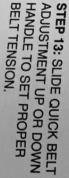


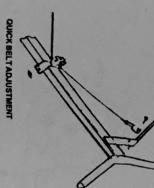
STEP 11: PLACE CABLE UNDER ROLLER ON QUICK BELT ADJUSTER.





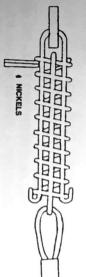
STEP 12: INSTALL BALL CLEVIS ON END OF CABLE TO DRIVE BELT LEVER.





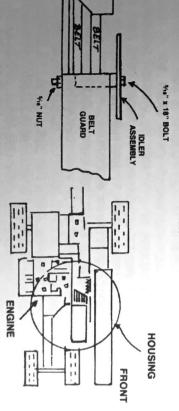
SIDE VIEW

STEP 14: INSTALL REEL HOLDER TO HANDLE. (2) 1/4" x 13/4" BOLTS, AND (1) 1/4" x 23/4" BOLT, LOOSELY. (See Diagram Page 9.)



NOTE: PROPER BELT TENSION, 1/8", OR WHEN TWO NICKELS TOGETHER WILL FIT SNUGLY BETWEEN COIL SPRING.
CAUTION: DO NOT OVER
TIGHTEN BELT.

TOP VIEW



STEP 15: ATTACH BELT GUARD OVER PROTRUDING END OF 5/16" BOLT ON IDLER ASSEMBLY, SECURE WITH 5/16" NUT.

PART NUMBER	DESCRIPTION	RED
1050 1061	BELT TRENCHING BAR	N E N
1070	DESCRIPTION OF THE PARTY OF THE	333
1090	V PULLET, 3 DOUBLE	3
1100	OUTPUT S	2
1110	SHAFT, ASSEMBLY, OUTFOILLING	33
1121	HOUSING	33
1130	BLY	3
1150	CABLE ONLY	3
1160		33
1170	GRIPS, HANDLE BAD	35
1190	LEVER, CONTROL	3
1200	F	£ £
1221	BRACE REEL HOLDER	3
1230	AXLE	3
1240	7	33
1300	BOLT, CONTROL LEVER, 1/2" x 13/4" USS	3
1310	, CLEVIS, C	Ξ
1320	BOLT IDLE ARM, 3/8" x 21/4" USS	203
1340	IDLER, 3/4" x 11/4" USS	3
1345	BOLT, V-IDLER, LONG	Ξ
1380	OUTPUT SHAFT, 3/4" SA	33
1400	KEY ENGINE SHAFT SOLIARE	33
1410	VIS, CABLE	3
1420		3
1430	, ENGINE, 5/16" x 11/2" (£ (£
1460	BOLTS HANDIE 1/2" x 13/4"	203
1461	R, TUBE ASSEMBLY .	33

TERMS AND CONDITIONS OF SALE

OTHER USE IS AT THE RISK OF THE OWNER. E-Z TRENCHER IS DESIGNED TO TRENCH IN SOIL ONLY. ANY

in effect on date of order. Prices are subject to change without notice and will be invoiced at prices

CHANGES:

and without incurring any obligation whatsoever. E-Z TRENCH MANUFACTURING, Inc. reserves the right to discontinue items, change specification, design, or prices at any time, without notice

FREIGHT POLICY:

of loss passed in Loris, South Carolina. All orders are F.O.B., Loris, South Carolina, USA. Title to goods and risk

DAMAGED OR LOST SHIPMENTS:

accept the shipment, but have carrier note damages or loss on delivery All shipments must be carefully inspected. In case of damaged or loss, for damage with carrier. receipt. If it is concealed damage, call carrier for inspection. Make claim

LIMITED WARRANTY:

Company, Inc. will not be responsible for any transportation charges. ranty repairs are F.O.B., Loris, S.C, U.S.A. E-Z Trench Manufacturing or altered by other than E-Z Trench Manufacturing Company, Inc. All warneglect or accident; nor does it apply to products which have been repaired which have been subject to improper use, or application, or misuse covered. In the event of a warranty claim contact E-Z Trench Manufacturing Company, Inc. This warranty does not include products warranty covers replacement of parts only, no consequential damages are wear items. Shaft bearings and blades are warranted for 30 days only. This rials for a period of one year from the date of purchase except for normal The E-Z Trencher is warranted against defects in workmanship or mate-

not allow limitation on how long an implied warranty lasts, and some EXTENT THAT EXCLUSION IS PERMITTED BY LAW. Some states do ARE EXCLUDED. LIABILITY FOR CONSEQUENTIAL DAMAGES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE PERMITTED BY LAW ALL IMPLIED WARRANTIES INCLUDED THOSE UNDER ANY AND ALL WARRANTIES ARE EXCLUDED TO THE THERE IS NO OTHER EXPRESS WARRANTY. TO THE EXTENT