SPEED-FEED® 400 TRIMMER HEAD
INSTRUCTION SHEET P/N 99944200907

SAFETY

Safety Symbols and Important Information

Throughout the instructions, you will find safety alerts and helpful, informational messages preceded by symbols or key words. The following is an explanation of those symbols and key words and what they mean to you.

⚠ CAUTION

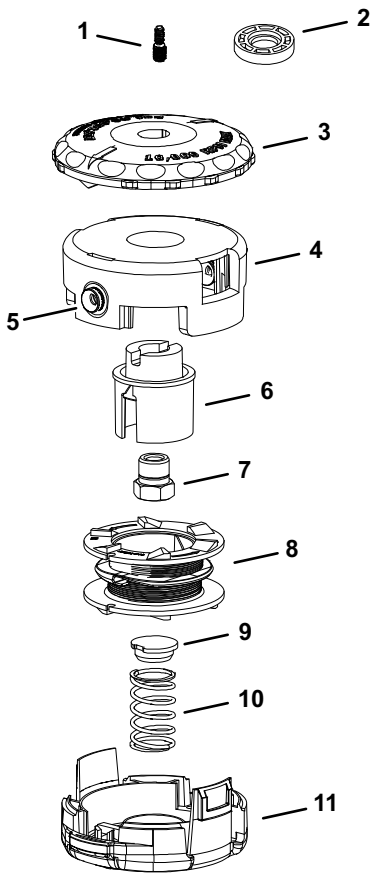
The safety alert symbol accompanied by the word "CAUTION" calls attention to an act or condition which might lead to minor or moderate personal injury if not avoided.

NOTICE

The enclosed message provides information necessary for the protection of the unit.

Note: This enclosed message provides tips for use, care and maintenance of the unit.

CONTENTS / DESCRIPTION



NO.	QTY.	DESCRIPTION
1	1	Stud M7 x 1.00 / M10 x 1.25, LH, Gold
	1	Stud M8 / M10 x 1.25, LH, Silver
	1	Stud M8 / M10 x 1.25, RH, Black
2	1	Spacer, Black
3	1	Knob
4	1	Spool Housing Assembly
5	2	Eyelet
6	1	White Hub, Clockwise Rotation, RH, Black Bushing Pre-Installed, for Curved Shaft Models
	1	Black Hub, Counterclockwise Rotation, LH, Gold Bushing Pre-Installed, for Straight Shaft Models
7	1	Bushing 10 mm x 1.25, LH, Gold, ECHO OEM
	1	Bushing 10 mm x 1.25, LH, Silver, Long Body
	1	Bushing 10 mm x 1.00, LH, Green
	1	Bushing 10 mm x 1.25, RH, Black
	1	Bushing 8 mm x 1.25, LH, Red
8	1	Line Spool
9	1	Spring Retaining Cap
10	1	Spring
11	1	Spool Housing Cover
LH = Left-hand thread, **RH** = Right-hand thread		

ECHO UNITS

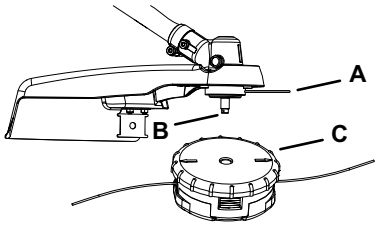
⚠ CAUTION

Your unit must be equipped with a debris shield and a line cutter that will cut line to length when the trimmer line is advanced or personal injury may result. Stop installation if your unit does not meet these requirements.

1. Insert a small screwdriver (A) into the gear case to lock output shaft (B).

Note: Locking tool insertion point may vary.

2. Remove existing cutting attachment (C) from the unit.
   - **Straight shaft trimmers:** Turn the existing line head counterclockwise (as viewed from top).
   - **Curved shaft trimmers:** Turn the existing line head clockwise (as viewed from top).

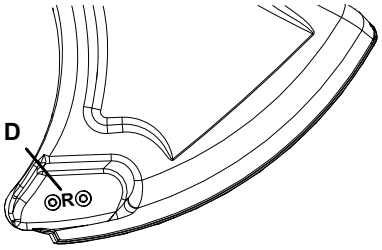


Note: If the unit uses a spacer between the base plate and line head, this spacer must be used with the Speed-Feed® 400 trimmer head.

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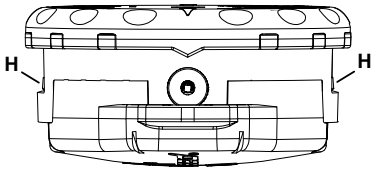
Perform steps (6-8) if your unit's cut-off blade is molded into the debris shield or if there is an "R" mark (D) on the debris shield. Otherwise perform steps (3-8).



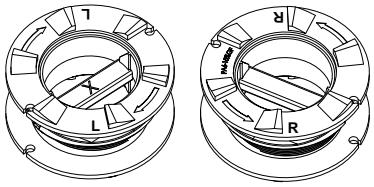
NOTICE

Do not force the assembly process. Forcing the assembly process can cause the threads to strip and result in permanent damage.

3. Units without "R" mark – Remove gold short bushing (7) from ECHO line head and replace with silver long bushing (7) and install spacer (2) between the base plate and line head.
4. Push locking tabs (H), and open the trimmer head to install new bushing.

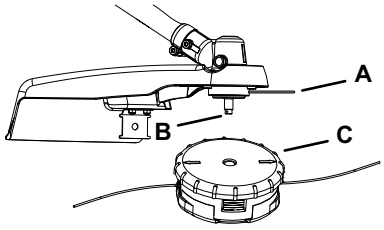


Note: The orientation of the line spool matters. If using the black hub, the letter "L" by the direction arrows must face towards the ground when assembled, if using the white hub, the letter "R" by the direction arrows must face toward the ground when assembled.



5. Reassemble the trimmer head in reverse order of disassembly. The trimmer head halves will snap together tightly only when all parts are properly aligned and assembled.
6. Insert a small screwdriver (A).
   - **Straight shaft trimmers:** Thread Speed-Feed® 400 trimmer head (C) clockwise (as viewed from top) onto the mounting stud output shaft (B).
   - **Curved shaft trimmers:** Thread Speed-Feed® 400 trimmer head (C) counterclockwise (as viewed from top) onto the mounting stud output shaft (B).

   Hand-tighten only.



7. Remove the locking tool (A).

Note: If your unit uses a spacer, there should be no gap between the spacer and line head after tightening.

8. If necessary, cut the trimmer lines so the length does not extend beyond the cut-off knife on the debris shield.

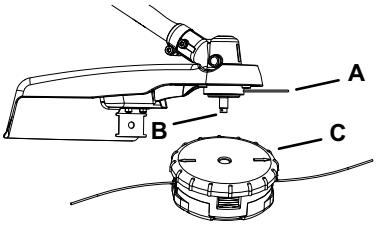
NON-ECHO UNITS

⚠ CAUTION

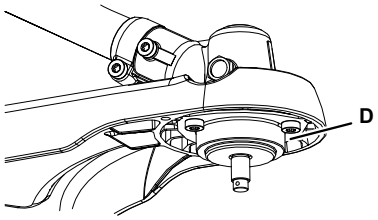
Your unit must be equipped with a debris shield and a line cutter that will cut line to length when the trimmer line is advanced or personal injury may result. Stop installation if your unit does not meet these requirements.

1. Start your unit and observe the rotation direction of the cutting head from the operating position looking down. If clockwise, use the white hub. If counterclockwise, use the black hub.
2. Insert a small screwdriver (A) into the gear case to lock output shaft (B).

Note: Locking tool insertion point will vary among manufacturers.



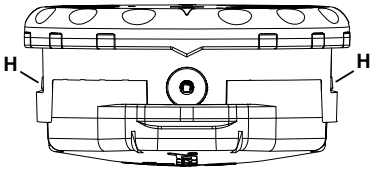
3. Remove existing cutting attachment (C) from the unit following the manufacturer's instructions.
4. Ensure the original gear case base plate (D) is installed. The base plate must support the trimmer head and allow it to rotate freely.



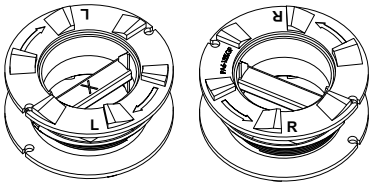
5. Select and install the Speed-Feed® 400 mounting hardware. Use the Speed-Feed® 400 Application Chart (page 3) and Configuration Chart (page 4) to identify the bushing, or bushing-and-stud combination, required for your model.

Note: If a brand or model number is not listed in the Application Chart (page 3), match the original mounting hardware from your unit with the Speed-Feed® 400 mounting studs and/or bushings to determine the correct parts needed, continue to step 6. If you need help, visit http://www.speedfeedhead.com, or call the Consumer Product Support Department at 1-800-432-3246 from 8:30 a.m. to 4:30 p.m. (Central Standard Time) Monday through Friday.

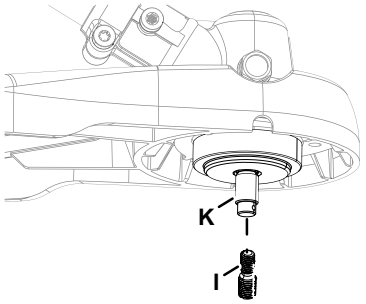
6. To replace the bushing or hub, push locking tabs (H), and open the trimmer head to install a new bushing and or hub.



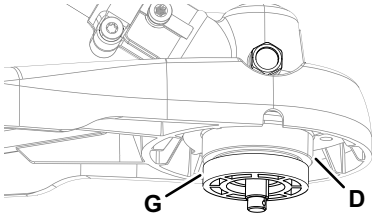
Note: The orientation of the line spool matters. If using the black hub, the letter "L" by the direction arrows must face towards the ground when assembled. If using the white hub, the letter "R" by the direction arrows must face towards the ground when assembled.



7. Reassemble the trimmer head in reverse order of disassembly. The trimmer head halves will snap together tightly only when all parts are properly aligned and assembled.
8. If required, install a new stud bolt (I) into the threaded hole in gear case output shaft (K). Turn left-hand studs clockwise to tighten, turn right-hand studs counterclockwise to tighten.



9. If required, install reversible spacer (G) on the base plate (D) of the gear case and match the spacer recess to pilot diameter of the base plate.



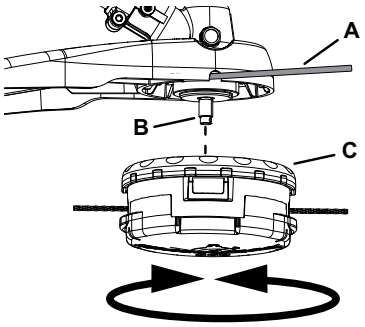
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Note: When the spacer (G) is properly matched and installed, there should be no gap between the spacer (G) and the base plate (D) on the gear case.

NOTICE

Do not force the assembly process. Forcing the assembly process can cause the threads to strip and result in permanent damage.

10. Insert a small screwdriver (A). Thread Speed-Feed® 400 trimmer head (C) counterclockwise (as viewed from top) onto mounting stud output shaft (B). If a right-hand stud was installed, turn the head clockwise (as viewed from top). Hand-tighten only.



Note: There should be no gap between the spacer and the line head after tightening.

11. Remove the locking tool.
12. If necessary, cut the trimmer lines so the length does not extend beyond the cut-off knife on the debris shield.

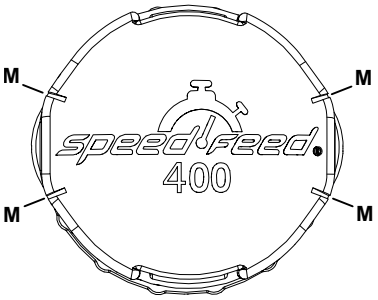
OPERATION

Advance the Trimmer Line

Bump bottom of trimmer head against ground while running trimmer at normal operating speed.

NOTICE

When wear indicators (M) located at the bottom of the Speed-Feed® 400 head are worn smooth, or if holes appear, replacement of the cover or the entire Speed-Feed® 400 head is required.



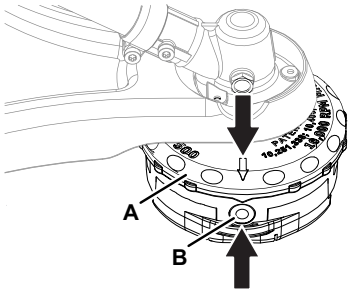
Loading the Trimmer Line

The Speed-Feed® 400 trimmer head accepts line diameter from 2.0 mm (0.080 in.) to 2.4 mm (0.095 in.).

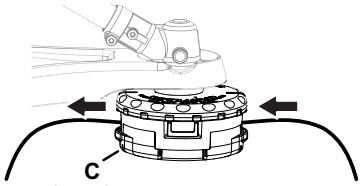
Line Capacity:

- 6 m (20 ft.) of 2.0 mm (0.080 in.) round line
- 6 m (20 ft.) of 2.4 mm (0.095 in.) round line

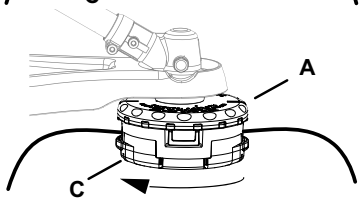
1. Cut one piece of line to the recommended length.
2. Align the arrows on the top of knob (A) with the openings in eyelets (B).



3. Insert one end of the trimmer line into an eyelet, and push the line an equal distance through trimmer head (C).



4. Wind line onto spool. Hold knob (A) while turning trimmer head (C) counterclockwise until a click is heard, repeat until about 130 mm (5.0 in.) of the longest line remains extended.



SPEED-FEED® 400 APPLICATION CHART

COUNTERCLOCKWISE TRIMMERS

BRAND	MODEL	CONFIGUATION
ECHO	SRM: 140, 200, 202, 210, 220, 225, 230, 250, 251, 260, 261, 265, 266, 280, 300, 302, 303, 311, 330, 340, 343, 350, 400, 402, 500, 501, 1500, 1501, 2010, 2090, 2100, 2110, 2200, 2201, 2300, 2301, 2400, 2410, 2450, 2500, 2501, 2502, 2510, 2530, 2601, 2620, 3000,3001, 3010, 3020, 3100, 3110, 3400, 3410, 3500, 3550, 3800, 4600	LH6
	PAS-225SB	
	DSRM-225, DSRM-2100, DSRM-2600, DPAS-2100SB, DPAS-2600SB	
HOMELITE	HK-24 (to 1/1/86), HK-30 (after/1/1/86), HK-33 (to 1/1/86)	LH2
	BCH-20, BCH-24, BCH-32, BCH-33, BCH-40, BCH-48, HBC-30, HBC-38, HK-15, HK-18 (after 1/1/86), HK-28, HK-24 (after 1/1/86), HK-25, HK-30 (up to 1/1/86), HK-33 (after 1/1/86), HK-38, PBC-3600, PBC-3800, PBC-4000, PBC-4000, PLT-3400, ST-285, ST-155, ST-175, ST-385, ST-485	LH4
	FK-514, NBA-524, PMB-522, SX-040, SXD-40,TXD-508	LH3
	HBC-40, PBC-3800, PBC-4000, PMB-52, HBC-48	LH6
	ST-80/385 (European)	LH2
	ST-100/200/400, SXD-20, RK-521, TK-518	LH4
HONDA	UMK-422LNA/LTA, UMK-431LNA/TA/UNBA, HHT-25SLTAT, HHT-35SLTAT, HHT-35SUKAT	LH6
HUSQVARNA	(Up to 86) 16R, 22R, 24R, 25RL	LH2
	24R (up to serial number 603702)	LH1
	26LC, 26RLC, 32LC, 32RLC, MONDO	LH1
	122L, 125L, 225L, 225LD, 225R, 225RD, 225RJ, 227LD, 232L, 232R, 322L, 322R, 324LX, 325LX/RX, 326LS/LX, 335LS	LH6
JONSERED	BP40, BP40COMBI, BP2040, BR400, BR420, BR450, BR460, BR480, BR500, Tiger 40, GT21L, GT22L, GT24L, GR26COMBI, GR26D, GR26L, GR32L, GR2026CL, GR2026D, LR200, LR220, LR260, LR320, LR400, LR420, LR450, LR460	LH2
	LR420, LR450, LR460 RS38ANCIEN, RS38 older	LH5
	RS44, GR44, GR41, J40D, KQ20/30 (European)	LH6

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BRAND	MODEL	CONFIGUATION
MARUYAMA	BC184, BC184C, BC200, BC201, BC230, BC241, BC260, BC260H, BC310, BC320, BC320H, BC326, BC340DL, BC402, BC420H, BC500, BC500H, BC2300, BC2321, BC2600, BC3021, BC3200, BC4200H, BCL2550, BCGX22, BCGX31, BCL2250, BCL2250C, BST23, MC-5, NC8	**LH2**
	BC220DL, BC221DL	**LH1**
	BT17, BT220, BC200C, BC260C	**LH4**
	BC184C, BC200C, BC260C	**LH6**
	BC430DWM, BC440DWM, 32, 35, BC500	**LH3**
	MAC57, MAC90, MAC95, MAC1000A	**LH3**
McCULLOCH	PROMAC SERIES: III, IIISUP, IVSUP, PROSCAPER; SERIES: 28S, 32H, 32HDS, III IV, V, IS, II, IIHD, SEBIC, SUPMAC100A; PS1, PS2, PS3, PS4, PS5, SEBIV; EB SERIES: III, IVSL, 3, 4, 3SX, 32BCS, 35L, 280, 282, 285BCS, 297BCS, 325BC, 327BC, 2815, 2816 2817, 2818	**LH6**
	MAC 22/23/30A, SUPERMAC 30AV, MS33, DELTA, 38AV, MS40, BP30AV, TD2400/3300/4000	**LH2**
	MAC 57, MAC 90, MAC 95, MAC 100A, MAC 32, MAC 37	**LH3**
RED MAX	BC220DL, BC221DL, BC300DL, BC2300DL, BK235FL, BK345FL, BK435FL, BK530DL, BC17, BC23, BC32, BC240DL	**LH1**
	BC260DL, BC261DL, BC262DL, BC340DL, BC341DL, BC342DL, BC2600DL, BC430DWM, BC440DWM, BK346FL, BK245FLK, BK436FL, BC245A, BC260DM/DMU, BC340DWM/FW, BC431DWM, BCD20, BCF01, BC2601S, BC3400DW, BC4400DW, BCX2600DS, BCZ2500S/SU/SW	**LH2**
	BC430DWM, BC440DWM, BC441DWM, BC442DWM, BC531DWM, BC532DWM, FBC22, FBC26	**LH3**
	BC200, BC2000DL, BT2000, BT2001DL	**LH6**
SHINDAIWA	22T, C230, C242, C2510, T195s, T220, T222, T230, T231, T230s, T242, C242, T242X, T2510, C2510, T2510X	**LH1**
	C3410, T3410, C260, T260, T261, T261B/XR/XB, T270, T272, T272X, T282, C282, T300, T3410, T3410X, T350	**LH2**
	BP35, B45, B450, C350	**LH3**
	C254, C262, C302, C344, T225, T235, T254, T262, T302, T344	**LH6**
STIHL	FS51, FS55, FS60, FS61, FS65, FS80, FS83, FS85, FS86, FS90, FS91, FS96	**LH2**
	FS66, FS74, FS76, FS81, FS83, FS85, FS86, FS100, FS106, FS108, FS110, FS130, FS250, FS44, FS45, FS46, FS48, FS52, FS56, FS62, FS66, FS85, FS86, FS88, FS96, FS106, FS108,FS120, FS200, FS350, FS450, FS550	**LH5**
DOLMAR / SACHS DOLMAR	BC250, BC330, BC400, PRO370, PRO400, SD330, LT250	**LH2**

CLOCKWISE TRIMMERS

BRAND	MODEL	CONFIGUATION
ECHO	GT: 100, 140, 160, 200, 225, 230, 251, 1000, 1100, 2000, 2100, 2101, 2102, 2103, 2200, 2301, 2400	**RH1**
HOMELITE	HBC20, HBC24, HBC33, ST200, ST360, ST80, SXD20, TK518, RK521, ST100, ST120, ST155, ST175CG	**RH2**
HUSQVARNA	26LC, 26RLC, 32LC, 32RLC, MONDO	**RH1**
JONSEDER	GT25L, GT26, GT26L	**RH1**
MARUYAMA	BC201C	**RH2**
McCULLOCH	70, 75, 80, 85, MAC100A, MAC85, MAC2825, MAC2827, PROMAC, SER;1-SX, II SUP, IV, HD, 2320L, 2035, 2045, 138, SEB-I SX, SPECIAL, SEB II-S, SEBIII-S, SILVER EAGLE 28, SILVER EAGLE 32, SUPER EBI-S, TITAN, 2100, 2200, 2510, ROADRUNNER	**RH1**
SHINDAIWA	F18, F20, F21, F222, F230, F195	**RH2**

CONFIGUATION CHART

Refer to the drawing in Contents section for part identification.

Use every indicated item from the Configuration Chart. Example: LH2: Install silver stud, black hub, and gold bushing.

CONFIGUATION	STUD (1)	SPACER (2)*	HUB (6)	BUSHING (7)
LH1	Gold	Not Used	Black	Gold
LH2	Silver	Not Used	Black	Gold
LH3	Silver	Not Used	Black	Red
LH4	Use Existing	Not Used	Black	Red
LH5	Use Existing	Not Used	Black	Green
LH6	Use Existing	Not Used	Black	Gold
	or			
	Use Existing	Used	Black	Silver
RH1	Use Existing	Not Used	White	Black
RH2	Black	Not Used	White	Black

* Some units may require the installation of spacer (2) if unable to tighten the Speed-Feed® 400 line head to the base plate without a gap.

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