TC/DC30, 50 & 70 Self-Reversing Tapping Units **Safety And Operation Instructions**





5. To Install Collets In Rubber-Flex Collet Chucks:

Torque Bars shown.

Some collets vary slightly in outside diameter. This does not affect capacity or performance. To install, put collet into the end of the drive spindle and push the tap chuck nut over it until the threads are engaged. Screw nut down completely. This will seat collet properly. Then back off nut to install tap. Collets must be ordered separately.

6. Inserting Tap In Rubber-Flex Collet Chucks:

Follow instructions to avoid excessive wear on back jaws when using tapping heads with collet chucks. Insert the tap into the tap chuck of the attachment so that the back jaws will engage the square of the tap. Hand tighten the chuck nut first, then tighten the back jaw on those units with adjustable back jaws. Then using the wrenches provided tighten the chuck nut firmly. When tightened correctly, the rubber flex collet should absorb most torque pressure, preventing the back jaws from being damaged by excessive torque. If the tap you are using has a male center at the square end, you must remove the point to assure maximum engagement in the back jaws.

Tor ose with rapping Attachments with hubber-riex collet spinules.							
		Collet Range					
Collet Series	Catalog No.	Tap Size	Shank Size				
#21000 Series	21600 ★	#0-#8 Standard	.098177				
For 30TC/DC with	21700 ★	#10-1/4" Standard	.177256				
capacities (#0-1/4")	21500		.040098				
	21200		.094146				
#22000 Series	22100 ★	#0-1/4" Standard	.139257				
For 50TC/DC with	22200 ★	1/4"-1/2" Standard	.253383				
capacities (#6-1/2")	22300		.090180				
,	22000		.194318				
#24000 Series	24100 ★	#10-1/2" Standard	.176383				
For 70TC/DC with	24000 ★	5/16"-5/8"	.280500				
capacities (#10-5/8")	24300		.110280				

Rubber-Flex Collet

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Table Mount

to With Dubboy El

1 3/4"

29096

Collet Cal

Safety Continued: TC/DC30, 50, 70 Self-Reversing Tapping Units



7. Continuous High Production Manual Tapping: Models for use on conventional drill press or milling machines. Speed is a critical factor in tapping. Please always refer to recommended tapping speed chart. Tapmatic Torque Control Reversing Tapping Attachments employ a planetary gear reversing mechanism that increases speed by a 1.75 x 1 ratio. This means that a machine speed of 2,000 RPM results in a reversing speed of 3,500 RPM. It is strongly recommended that you consider the AVERAGE TAPPING SPEED rather than machine speed when calculating your cycle time. For example, if machine speed is 1,500 RPM, reverse speed is 2,625 RPM, making your AVERAGE TAPPING SPEED 2,062 RPM. You must not exceed the maximum allowable speed marked on your tapping attachment.

8. Always Be Aware Of The Potential Hazards Of A Machining Operation: Sometimes working with your machine can seem routine. You may find that you are no longer concentrating on the operation. A feeling of false security can lead to serious injury. Always be alert to the dangers of the machines with which you work. Always keep hands, body parts, clothing, jewelry and hair out of the areas of operation, when the machine spindle is rotating. Areas of operation include the immediate point of machining and all transmission components including the tapping attachment. Never bring your hand, other body parts or anything attached to your body into any of these areas until the machine spindle is completely stopped.



9. Be aware of any other applicable safety instructions / requirements.

10. The tapping attachment housing, drive spindle and tap itself can become hot to the touch after operation. Use caution when removing the attachment from the machine or handling.

Check List For Good Tapping



1. Never use this unit before reading all safety instructions for this attachment as well as the machine it is to be used on.

- \Box 2. Is tap sharp and of correct design for current job?
- □ 3. Is tap in proper alignment with drilled hole?
- □ 4. Is machine speed correct?
- □ 5. Is machine feed correct?
- □ 5. Is machine stop set properly so tap releases in neutral rather than bottoming in work piece or fixture?
- □ 6. Is work piece held rigidly against rotation and upward movement?
- \Box 7. Is drilled hole the correct size?
- **8**. Is clearance between the drilled hole and tap sufficient at start position to allow the tap to clear the hole upon retraction?
- 9. Is the stop arm of the tapping attachment held rigidly against rotation by the torque bar extending from the machine
 - quill or table? Machine torque bar must be stronger than the largest tap to be used.
- □ 10. Is the proper cutting fluid or coolant being used for lubricating the tap?
- □ 11. If a bottom hole is being tapped is there sufficient chip clearance?
- □ 12. Is the correct Tapmatic model for the specific job requirement being used? (Capacity should be reduced 25% for roll form taps.)
- □ 13. If a torque control attachment is being used, is the torque set correctly so tap will not break if accidentally bottomed?
- □ 14. If depth control feature is employed, is it set correctly to cooperate with the machine stop, provide the total thread depth required and prevent engagement with bottom?
- □ 15. Is machine retraction correct for tapping attachment being used?

American National Standards Instutitute ANSI B11.8-1983 (Adopted May 31, 1983 by Department of Defense)

Coastal Video Communications Corporation Machine Guarding Copy Right 1994 Society Of Manufacturing Engineers Tool and Manufacturing Engineers Handbook Volume 1 Machining (Library of Congress Catalog No. 82-060312 This tapping attachment can be used on all types of manually operated machines with rotating non-reversing spindles. It can also be used in many applications that are automated or semi-automated, such as air feed drill units. It should not be used on machines which reverse the spindle on the back stroke or on machines which are automated and have no controlled back stroke.

MOUNTING THE STOPARM:

This attachment incorporates in its design a planetary gear reverse which has a 1.75 to 1 reverse ratio. To assure the best performance of this reversing mechanism, it is extremely important that a short stop arm (as furnished with the unit) be employed. A truarc ring (#40X) is provided to hold the stop arm (#32X) in place. Extend strong torque bar from machine quill or machine table to engage short stop arm. DO NOT LENGTHEN STOP ARM. Also, clamp part to be tapped securely as full power of the machine is transmitted in reverse. DO NOT HOLD PART BY HAND. DO NOT HOLD STOP ARM BY HAND.

INSTALLING THE ARBOR IN TAPER MOUNT UNITS:

Make sure that the taper mount of the unit and the arbor itself are clean and free of oil or grease. Then with a twisting motion, insert the arbor into the tapping attachment. The twisting motion allows the air entrapped in the taper to be released. When the arbor is inserted completely, several sharp blows should be made on the tang with a lead hammer to make sure the arbor is seated firmly. It is important that this procedure be followed, as the taper may be damaged if slippage occurs. Occasionally, for large units, it may be necessary for the attachment to be pinned to the arbor. This may be done with a #4 Taper Pin.

INSERTING THE TAP:

Rubber flex Collet Spindle: If the tap you are using has a male center as in Figure 1, the point should be ground off so that the tap square will be engaged by the back jaws as shown in Figure 2.

After removing the point, insert the tap into the tap chuck of the attachment so that the back jaws will engage the square of the tap. Hand tighten the chuck nut first. Then tighten back jaws with hex key. Then using wrenches provided, tighten chuck nut. This procedure will assure true running of the tap. Note: Reduce capacity 25% for roll form taps.



TAPPING SPEEDS: The Tapping Attachment has been designed to operate properly at recommended tapping speeds. Please refer to chart for the recommendations for specific tap sizes. **Do not exceed the maximum speed shown on the tapping attachment.**

SETTING THE PRE-SELECTED TORQUE CONTROL:

The attachment has a spring loaded friction clutch. Driving adjustments are made by tightening or loosening the knurled torque cap (#2) at the upper end of the attachment.

To begin the tapping operations, set the clutch adjustment cap (#2) at a setting less than the final setting, then progressively tighten until the unit will drive a sharp tap to the desired depth. When the desired torque has been determined, the knurled cap may be friction locked in place by a set screw (#5). If later during the operation the clutch slips, it is evident that the tap is dull and should be immediately exchanged for a sharp tap, but the clutch should not be tightened further. The graduations on the housing are simply reference points, they do not refer to specific tap sizes. When the proper torque is determined for a specific job, this reference point may be noted to save set up time in the future.

THROUGH HOLE TAPPING: Tapping with this attachment does not require that the operator apply any lead pressure on the tap during the tapping operation. The free axial float in the attachment will automatically permit the tap to follow its own lead. The operator merely moves the machine's spindle behind the lead of the tap until the desired depth is reached. To reduce wear within the tapper it is recommended that a short, quick, upward movement of the machine spindle be made during transition from drive to reverse. The tap will return to a forward rotation as soon as it rotates out of the hole.

BOTTOM HOLE TAPPING: For accurate and efficient bottom hole tapping, a machine feed stop should be used to allow the attachment's spindle to disengage in neutral before the tap bottoms in the hole. To achieve this, set the machine stop so that the machine feed plus the attachment's self-feed will equal the desired thread depth. This greatly simplifies the tapping operation, and affords maximum tap protection.

The amount of self-feed built into each of the tappers is as follows: M6 or 1/ 4" capacity is .140, M12 or 1/2" capacity is .250, M16 or 5/8" capacity is 3/8", M28 or 1 1/8" capacity is 1/2".

If the clutch should slip before the tap reaches the thread depth, check to see that the hole is the correct size, not packed with chips, and that the tap is sharp and undamaged. The torque control is designed as a safety device to prevent tap breakage in case the tap accidently engages bottom. We do not recommend using the clutch for repetitive bottom hole tapping unless absolutely necessary.

ADJUSTING DEPTH CONTROL: If you need to tap a hole shallower than the maximum self-feed of your tool you can use the depth control collar to reduce self-feed. After adjustment retighten lock set screw being sure to align it with the flat.

The amount of adjustable self-feed built into each of these attachments is as follows: 30TC/DC self feed is 1/16" to 1/4", 50 TC/DC and 70 TC/DC self-feed is 1/16" to 3/8".

LUBRICATION: This unit is pre-packed at the factory and only needs periodic additions of grease to maintain proper lubrication. Approximately every 600 hours, partially disassemble the unit, per disassembly instructions #1 through #11, and clean removed parts in solvent. Add a small amount (from 1/4 to 3/4 ounce) of #2 multipurpose lithium grease to reversing gears and reassemble. Do not over-lubricate- excess grease will create internal friction and overheating.

TAP LUBRICATION: To insure maximum tap life, the proper lubricant should be used. We recommend Dry-Cut from MQL Systems a Division Of Tapmatic. Call For FREE Sample.

REMOVAL OF TAPERED ARBORS: Removal of the arbor from the Jacobs taper in a tapping attachment will generally require striking the arbor with a soft metal rod. Hold the tapping attachment, with the arbor pointed away, in one hand and strike the arbor sideways on tang or in relief area, with a brass rod grasped in the other hand. Numerous blows may be required. **DO NOT STRIKE THE TAPPING ATTACHMENT.** Stuborn arbors and arbors installed with Loctite will require the application of heat. Using a soft flame propane torch, evenly heat the interface area where the arbor enters the attachment. (300% F will be required to break down the Loctite.) After applying heat, resume striking the arbor with the soft metal rod until the arbor loosens. Always use caution when handling heated parts.

MAXIMUM TAPMATIC TAPPING SPEEDS**															
Size		Cast Iron and Bronze	Plastics and Aluminum	Steel	Stainless Steel	Brass	Copper	Size		Cast Iron and Bronze	Plastics and Aluminum	Steel	Stainless Steel	Brass	Copper
0	-80	2000	2000	2000	1900	2000	2000	1/4	-20	1000	1200	750	400	1200	1200
1	-64	2000	2000	2000	1600	2000	2000	1/4	-28	1200	1200	850	400	1300	1200
1	-72	2000	2000	2000	1600	2000	2000	5/16	-18	850	1100	650	300	1200	1100
2	-56	1900	2000	1800	1300	2000	2000	5/16	-24	900	1200	700	350	1300	1200
2	-64	2000	2000	1900	1300	2000	2000	3/8	-16	700	900	550	250	1200	900
3	-48	1800	1900	1700	1000	1900	1900	3/8	-24	750	1000	600	300	1200	1000
3	-56	1900	2000	1800	1100	2000	2000	7/16	-14	600	800	450	200	950	800
4	-40	1700	1800	1500	900	1900	1800	7/16	-20	650	850	475	225	1000	850
4	-48	1800	1900	1600	1000	2000	1900	1/2	-13	500	650	400	200	850	650
5	-40	1650	1700	1600	800	1800	1700	1/2-	-20	575	750	425	200	1000	750
5	-44	1750	1800	1700	900	1900	1800	9/16	-12	450	600	350	175	800	600
6	-32	1500	1600	1500	700	1700	1600	9/16	-18	500	6/5	375	175	900	6/5
6	-40	1650	1700	1600	800	1800	1700	5/8	-11	375	500	300	150	700	500
8	-32	1400	1400	1200	600	1400	1400	5/8	-18	450	600	325	150	800	600
8	-36	1500	1500	1300	700	1500	1500	3/4	-10	325	400	250	125	575	400
10	-24	1300	1400	1100	500	1500	1400	3/4	-16	375	475	275	125	650	450
10	-32	1400	1500	1200	600	1500	1400	7/8	-9	275	350	200	90	500	350
12	-24	1300	1400	900	400	1500	1400	7/8	-14	300	400	250	100	550	400
12	-28	1400	1500	1000	500	1500	1400	1	-8	250	300	175	75	425	300
	-							1	-14	275	350	200	100	475	350
**These	maxim	im tapping speeds are f	or optimum tapp	ing condition	is for the tap size,	tap pitch and	material involve	d. Optimu	m cond	itions are (1) a through	hole or blind hol	le with genero	ous chip clearance:	(2) thread d	epth is one times

a tap diameter or less; (3) free machining material; (4) tap drill diameter for 60% thread; (5) use of LPS Tapmatic Cutting Fluid or Coolant; and (6) proper designed tap. Reduce speed accordingly for each non-optimum condition.

		30 TC/DC	-50	D TC/DC	7		'DC	
					(5) (3) (3)		-(1) -(1) -(1) -(1) -(1)	
							(®) (®) (®)	
							• • • • • • • • • • • • • • • • • • •	
))	39 (1) (1) (1) (1)		● ③ ● ④ - ④ - ② 5	
					(8) (14) (15)		(12) (11) (12) (12) (12) (12) (12) (12) 	
					99 (1) (1) (1) (1) (1)	and the second		
		®	4)		F	40	
	30TC	/DC Wrench Set		50TC	/DC Wrench Set		70TC/	DC Wrench Set
Qty.	Order No.	Description	Qty.	Order No.	Description	Qty.	Order No.	Description
1 1 1 1 1	50332 50340 27078 28050 28062 29030	332X Stop Arm 340X Stop Arm Ring 5/64" Hex Key 1/2" Wrench 5/8" Wrench 30 Series Spanner Wrench	1 1 1 1 1 1	56532 56540 28075 28097 27125 27078	5032XB Stop Arm 5040XB Stop Arm Ring 3/4" Wrench 31/32" Wrench 1/8" Hex Key 5/64" Hex Key	1 1 1 1 1	50732 50740 27078 27156 28097 28131	732X Stop Arm 740X Stop Arm Ring 5/64" Hex Key 5/32" Hex Key 31/32" Wrench 1 5/16" Wrench

1212 ISO 9001 CERTIFIED- 802 Clearwater Loop, Post Falls, ID 83854, Phone: 800 854-6019, 208 773-8048, FAX: 208 773-3021, www.tapmatic.com 4.

50 Series Spanner Wrench

(Thread Mounts Only)

#5 Hook Spring Puller 70 Series Spanner Wrench

(Thread Mounts Only)

30 Series Spanner Wrench (Thread Mounts Only)

29050

Parts Listing: 30, 50 & 70TC/DC Self-Reversing Tapping Units

IDENT	PART NAME	30TC/DC		50TC/DC	70TC/DC		
1	Housing - #6JT	54301 B (1)		54501 B (1)	-		
1	Housing - DINB16 Housing - #33 IT	54301 G (1) 54301 E (1)		54501 G (1) 54501 E (1)	-		
1	Housing - DIN B 12	54301 F (1)		-	-		
1	Housing - 5/16-24	54301 H (1)		- 54501 L (1)	•		
1	Housing - 1/2-20	54301 J (1)		54501 J (1)	54701 J (I)		
1	Housing - 5/8-16	54301 K (1) 54301 L (1)		54501 K (1) 54501 L (1)	54701 K (1)		
1	Housing - 7/8-20	-		-	54701 M (1)		
1 2Y	Housing - #3JT	- 50202 A (2)		- 56502 A (2)	54701 C (1)		
3X	Spring Plate	50303		56503	50703		
4X	Driver Pins	50304 (3 required)		50704 (3 required)	50704 (3 required)		
5XX	Lock Set Screw Plug	503051		503051	503051		
6X 6XX	Guide Spindle	503061		56506	51720		
7X	Clutch Sleeve	50307		50507	50707		
8X ox	Clutch Bearing Gear Carrier Bearing (Ball)	50308		56508 50509	50708		
9XA	Gear Carrier Bearing (Nylon)	503091		-	-		
9XX 11X	Truarc Ring Betaining Bing	- 50311		505091 50511	507091 50711		
11XX	Gear Washer	503111		505111	507111		
12XA 12 XA I	Reversing Sleeve Reversing Driver Spring	503121 (4) 51312		505121 (4) 505122	507121 (4) 507122		
13X	Gear Carrier	503131		54513	54713		
14X 15X	Drive Spindle Back Jaw Betainer Screw	54314 A (5) 50315 (2 required)		54514 A (5) 50315	54714 A (5) 50315		
16X	Back Jaw or Tap Jaw	503161		56516	50716		
17X 17XX	Rubber Flex Collet (small) Bubber Flex Collet (large)	21300 21400		22100 22200	24100		
18X	Tap Chuck Nut	50318		56518	50718		
19X 20X	Key Stop Bing	50319 50320		50319 56520	50719 50720		
21X	Adjustment Thrust Bearing	-		56521	50721		
22X 23X	Clutch Spring (large) Clutch Spring (small)	50322 (3 required) 50323 (3 required		50522 (9 required) 50723 (9 required)	50722 (9 required) 50723 (9 required)		
26X	Cushion Spring	50326		565261	50726		
27X 27XA	Spring Cup Driver Reversing Driver	503271 503272		505271 505272	507271 507272		
28X	Drive Pins	50328 (3required)		56528 (3 required)	50728 (3 required)		
29X 30X	Guide Spindle Bearing Return Spring	50329 51328		56529 51528	50729 51628		
31X	Drive Spindle Bearing	-(4)		-(4)	-(4)		
32X 33X	Stop Arm Guide Spindle Washer	50332 50333			50732		
34X	Guide Spindle Nut	503341		56534	-		
34XA 34XX	Spring Bearing Spring Bearing Hanger			-	50734 50706		
35X	Ring Gear	50335		50535	50735		
36X 37X	Gear Pins Planet Gears	50336 (3 required) 50337 (3 required)		50536 (3 required 50537 (3 required)	50/36 (3 required 50737 (3 required)		
38X	Spacer (and Truarc Ring)	50338		54538 and 56511	54738 and 50611		
39X 40X	Truarc Ring	50339		50539 56540	50739		
41X	Clutch Driver	50341		56541	50741		
42X 42XX	Internal Clutch Plate	50342 503421		565421 (2 required	507421 (2 required)		
43X	External Clutch Plate	50343 50344 (2 required)		56543 (2 required)	50743 (2 required)		
44A 46XA	Reversing Sleeve Bushing	503461		50544 (5 required) 505461	507461		
47X	Friction Washer	50347 50348		50547 50548	50747		
49X	Lock Set Screw	50305		50305	50305		
 Housing only available as an assem Clutch Adjustment Can only available 	ibly with Ident. #4X and #6X.						
(3) Lock Set Screw comes with Ident. #	5XX.						
 (4) Reversing Sleeve and Drive Spir (5) Drive Spindle only available as a 	ndle Bearing available only as an assembly. n assembly with Ident #29X						
INI				NOTDUOTIONO			
 Remove stop ring (#20X) and un 	screw clutch adjustment cap (#2X).		1. Clean and	INSTRUCTIONS F Iubricate all parts requiring lubrication thor	oughly. Do not get clutch parts wet or oily		
 Hold unit in vertical position and r 	remove adjustment thrust bearing (#21X). (Mod	lels	2. Place inter	mal clutch plate (#42X) on clutch sleeve (#	7X), then clutch disc (#44X),		
3. Lift off spring plate (#3X).			(#42XX). a	and so forth, until you have all plates and d	scs on clutch sleeve, then line up external		
4. Carefully invert unit over a clean	receptacle. Clutch springs (#22X & 23X) will dr	op out.	dogs so th	at you can slip clutch driver (#41X) over co	mplete subassembly. 27X) in clutch sleeve (#7X)		
 Hemove tap chuck nut (#18X) ar Bemove back iaw retainer screw 	na collet (#1 / X). (#15X)		 Frace cust Insert cluto 	ch sleeve (#7X) and clutch driver (#41X) su	bassembly into housing (#1X), making		
 Remove back jaw (#16X). 	(sure that 3	holes in clutch driver mate with 3 pins in h	ousing (#1X).		
 Remove return spring (#30X) by tapped bolo in part (#24XX) and 	threading spring puller (supplied with unit) into	oring book	 Bress drive 	e spindle (#14X) into reversing sleeve (#12	y. XA) subassembly and insert drive pins		
(also supplied with unit). (Model	70TC/DC.)		(#28X). 7 Insert.com	inlete subassembly into housing (#1Y) utili	zina kev (#19X)		
8b. Unscrew guide spindle nut (#34)	() and remove return spring (#30X).		 Insert gear washer (#11XX) and snap in truarc ring (#11X). 				
(IVIOUEIS 30 & 50 TC/DC.) 9. Remove truarc ring (#40X) and s	top arm (#32X).		 Hook return spring (#30X) to spring hanger (#6X) and insert this subassembly into neck end of housing (#1X) making certain spring hanger is seated property. (Model 70TC/DC.) 				
10. Remove truarc ring (#11X) and g	ear washer (#11XX).		10. Use spring hook (supplied with unit) to expose return spring (#30X) and attach spring				
 Lift out drive spindle (#14X) and i Lift out spacers (#46YA) and (#2 	reversing sleeve (#12XA) subassembly from ur	nt.	bearing hanger (#34XX) with bearing (#34XA) mounted. (Model 70TC/DC.)				
 Lift out clutch sleeve (#7X), clutch 	n driver (#41X), clutch plates (#42X, 42XX. 43X)	carefully lo	wer assembly into drive spindle (#14X) un	til bearing (#34XA) seats itself, then		
and clutch discs (#44X).			unscrew s	pring puller. (Model 70TC/DC.) m spring (#30X) into drive spindle (#14X) a	ind screw quide spindle nut on		
 LIT out cushion spring (#26X) and Bemove driver nins (#28X) from 	a spring cup ariver (#27X). drive spindle (#14X).		to guide sp	pindle (#6X). (Models 30 & 50TC/DC).			
16. Press drive spindle (#14X) out of	reversing sleeve (#12XA) subassembly.		12. Place back 13. Insert colle	(jaws (#16X) in drive spindle (#14X) and ir et (#17X) into tap chuck nut (#18X) and ser	istall back jaw retainer screw (#15X). ew tap chuck nut (#18X) on to		
17. Do not disassemble planetary ge	ar reversing subassembly (#13X).		drive spino	dle (#14X).			
1 Domovio ton obviole met (#10)()	CEMENT OF FRICTION WASHER #47X		 Insert cluto Place sprin 	ch springs (#22X & 23X) into unit. na plate (#3X) on springs			
 Inernove tap chuck hut (#18X.) Unscrew depth control collar all t 	he way off.		16. Place adju	Place adjustment thrust bearing (#21X) on spring plate (#3X). Models 50 & 70TC/DC.)			
3.) Using small screwdriver, flip out u	used washer (#47X) and insert new one.		17. Screw on (18 Install stop	ciuton adjustment cap (#2X).			
			10 Install stop	arm (#32X) and snap on truarc ring (#40)	0		

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Repair Service is available at...

Attention:

Repair Department Tapmatic Corporation 802 Clearwater Loop Post Falls, ID 83854

To Expedite Repair: Return tool direct to Tapmatic Corporation, by United Parcel Service and enclose the following statement with your purchase order: **"Authorization given to repair and return tool without notifica-tion if total repair cost does not exceed 40% of the cost of a new tool."** Tapmatic will repair the tool and call to request your credit card # for invoicing.

Important: Be sure to return the tool complete with the tap chuck nut, back jaw and if the tool is a reversing unit, include stop arm. Otherwise, we will add these missing parts to every non-warranty repair.

Cost Notification: Tapmatic will FAX a cost notification to you, soliciting your approval before repairs are completed.

If it is determined that a tapping attachment cannot be repaired, at the customer's request, Tapmatic will return the disassembled parts. We are not able to reassemble tapping attachments using damaged or worn out parts.

Optional Return Procedure: Tools may also be returned for repair through your local Tapmatic Distributor. They will ship the tool to us and include instructions for the repair and return. You may already have an open account with them which facilitates the handling of invoicing.

Priority Service: Tapmatic services tapping attachments returned for repair in the order in which they are received. All tools will be evaluated and repaired within three weeks from the date they arrive subject to receiving the customer's approval to proceed with the repair.

Priority is given to the tools shipped to us by overnight or second day.

If a repair is sent to us by UPS ground or similar service it can also be given priority. Just call and let us know you need priority service and advise if you would like the tool returned to you by overnight or second day. In the interest of fairness, to all our customers, we ask that you approve return shipment by overnight or second day before we agree to upgrade your repair order to priority service. Typical turnaround, not including shipping time, for priority repairs is 3 days subject to receiving the customer's approval to proceed with the repair.

If we can answer any questions, please call our toll free number: 800 395-8231.

The Tapping Specialists TAPMATIC CORPORATION: ISO 9001 CERTIFIED 802 Clearwater Loop, Post Falls, Idaho 83854 Phone: (208) 773-8048, (800) 854-6019, FAX: (208) 773-3021

TAPMATIC INTERNATIONAL CORPORATION Alte Rheinstrasse, CH-9451 Kriessern, Switzerland Phone: 011 41 71 757 5900, FAX: 011 41 71 757 5901

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