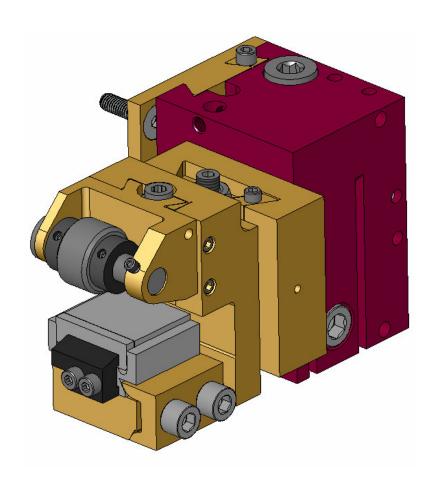


Shave Tool Adjustment Manual



Become familiar with the adjustments of your Shave Tool

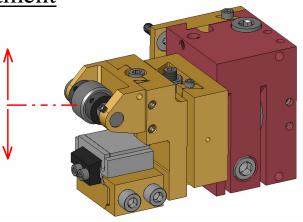
Congratulations and thank your for purchasing your new 111 Shave Tool. To fully insure that you understand the operation and gain full advantage of this tool's benefits, this instruction manual will guide you through the simple, few steps in learning the different adjustments available. Those being Roll, Taper, and Lift adjustment. Although this manual uses a 111-15 for example, this manual also applies to the items found in the Applications section.

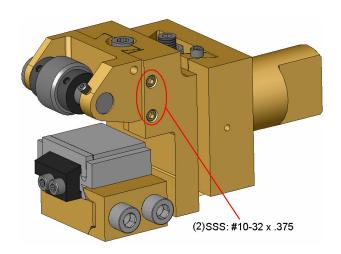
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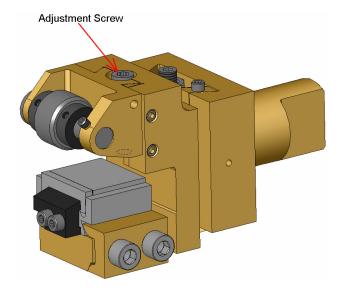
Adjustments

Roll Adjustment





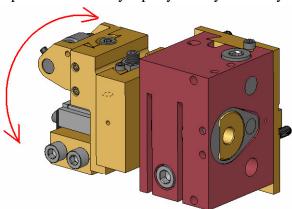
1. Loosen both #10-32 set screws (Item #12 in Appendix I). Note: Never tighten set screws without roll holder in place. Possible damage can occur to head.

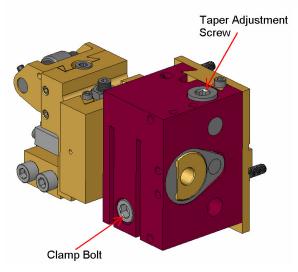


- 2. Turn adjusting screw (Item #9 in Appendix I) clockwise or counterclockwise until desired size is achieved. This distance between the OD of the roll and the shave tool will be the OD of the part. This can be done with Vernier Callipers or a gage. It is easiest to set this height while the Shave Tool Assembly is out of the machine. Each turn of the adjustment screw is approx .035" (.889mm).
- 3. Retighten both set screws to lock setting in place.

II. Taper Adjustment

This adjustment will help to eliminate any taper you may have in your part.



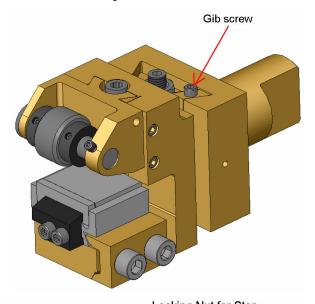


- 1. To adjust the taper, start by loosening the clamp bolt (item #14 in Appendix II). Use and allen wrench to turn the Taper Adjustment Screw (item #4 in Appendix II) clockwise or counterclockwise until the desired position is achieved.
 - Each click in turn of the Taper Adjustment Screw equals .00015" (.00381mm) in diametral taper per inch of part length.

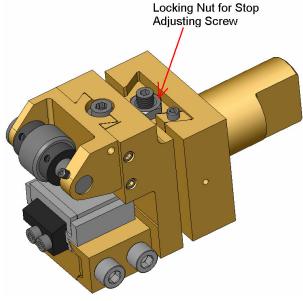
Once the desired setting is achieved, re-tighten the Clamp Bolt to lock the setting in place.

III. Lift Adjustment

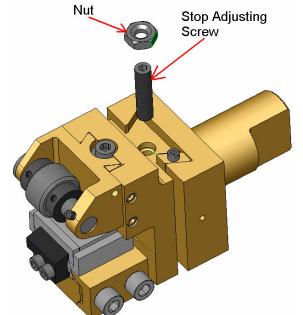
This adjustment is used to increase or decrease the amount of lift of the head.



1. Gib Assembly (item# 11 in Appendix 1) does not need to be loosened to adjust the head. The gib should be tight enough to allow movement of the head up and down with the action of the internal spring (item# 1 in Appendix 1).



2. Loosen the locking nut to free the Stop Adjusting Screw (Item #3 in Appendix 1).



- 3. Turn the Stop Adjusting Screw clockwise or counterclockwise until the desired lift height is achieved.
- 4. Re-tighten the locking nut to secure the lift height.

Applications B.

The following items are subject to the instructions outlined in this manual.

- a. Shave Tool Assembly
 - 1. 111-01

b. Tool Block Assemblies

- 1st Position 1. 111-10

- 1st Position, Quick Change Tooling 2. 111-10-QCT

- 2nd Position 3. 111-11

- 2nd Position, Quick Change Tooling 4. 111-11-QCT

- 2nd Position, Davenport Slide 5. 111-11-DAV

- 3rd Position 6. 111-12

c. Shave Tool Assemblies with Block Assembly

- 1st Position 1. 111-13

- 1st Position, Quick Change Tooling 2. 111-13-QCT

- 2nd Position

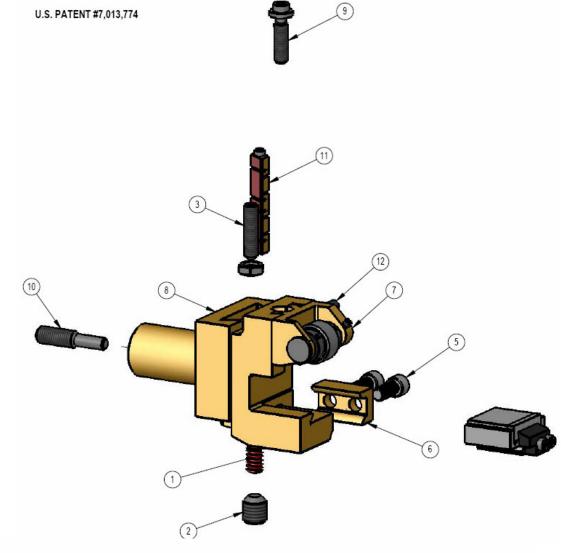
- 2nd Position, Davenport Slide

- 2nd Position, Quick Change Tooling

2. 111-13-20-3. 111-14 4. 111-14-DAV 5. 111-14-QCT 6. 111-15 7. 111-16-CJW 8. 111-16-DAV - 3rd Position - 4th Position - 3rd/4th Position - 2nd/3rd Position - 1st/2nd/3rd Position 10.111-18

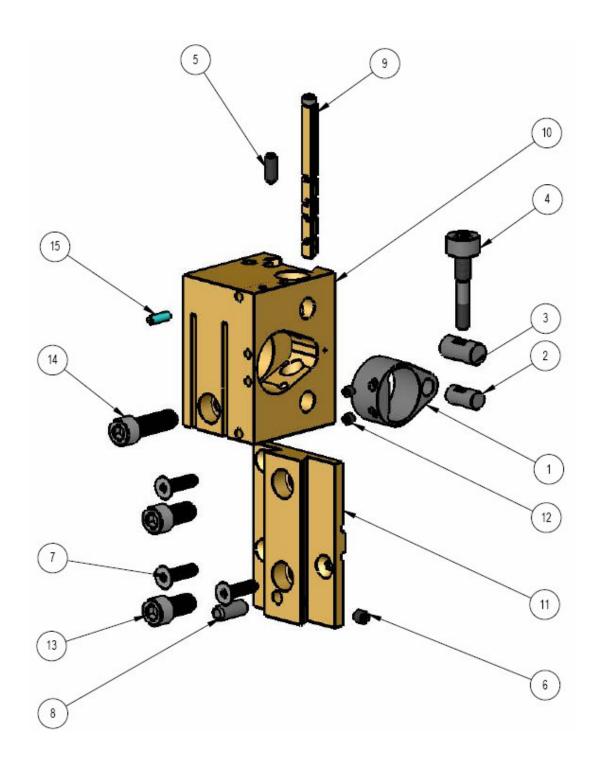
C. Appendix

I. <u>111-01</u> - Center Shave Tool Assembly



ITEM NO.	PART NUMBER	Description	QTY
1	108011	Spring: Compression, .300 OD x 1.00	1
2	108017	Screw: SSS, 7/16-20 x .500	1
3	108018	Stop Adjusting Screw	1
4	108019	Nut: Jam, 1/4-20	1
5	108023	Screw: SHCS, 1/4-28 x .625	2
6	108046	Dovetail Clamp - 1/2" & 5/8" Reversible	1
7	111-20	Center Roll Bracket Assembly	1
8	111000	Matched Assembly	1
9	111004	Adjusting Screw	1
10	111014	Body Pin	1
11	111058	Running Expansion Gib Assembly	1
12	162008	Screw: SSS, #10-32 x .375 Half Dog Pt.	2
13	Shave Tool Insert		1

II. <u>111-12</u> - 3rd Position Tool Block Assembly



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	111007	Taper Arm - 3rd Position	1
2	111008	Taper Pin (Arm)	1
3	111009	Taper Pin (Body)	1
4	111010	Taper Adjustment Screw	1
5	111023	Screw: SSS, #10-32 x .500 Cup Pt.	1
6	111024	Screw: SSS, #8-32 x .250 Flat Pt.	1
7	111026	Screw: FHCS, #10-32 x .750	3
8	111028	Pin: Dowel, 1/4 x .625	1
9	111059	Locking Gib - 1st & 3rd Position	1
10	111201	Tool Block	1
11	111202	Dovetail Adapter Plate (3rd)	1
12	125043	Screw: SSS, #8-32 x .188 Cup Pt.	2
13	130046	Screw: SHCS, 5/16-24 x .625	2
14	130047	Screw: SHCS, 5/16-24 x 1.000	1
15	NC41029	Spring Plunger #8-32 Short, Heavy Force	1

III. 111 Shave Tool Holder Capacity Chart

