

# HSVTC Saws Etc.

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<sup>1</sup>\$Header: d:/TcTools/RCS/SawList.tex,v 1.6 2006-05-07 10:57:18-07 Hamilton Exp Hamilton \$

## 1 Saws

### 1.1 HSVTC Saw #1

A 4 1/2 foot Simonds #13 two man bucking saw made in Canada and marked “**DBC**” which weighs 4 lbs and 0 oz. Has champion teeth.

Tooth pattern: 15 rakers total; with 5 cutters, raker, 2 cutters (repeats 14 times), raker, 5 cutters.

Location: HSVTC Storage.

### 1.2 HSVTC Saw #2

A 5 1/2 foot Simonds #13 two man bucking saw made in the USA and not marked which weighs 4 lbs 7 oz. Has champion teeth.

Tooth pattern: 19 rakers total; with 5 cutters, raker, 2 cutters (repeats 18 times), raker, 5 cutters.

Location: HSVTC Storage.

### 1.3 HSVTC Saw #3

A 6 1/2 foot bucking saw made by an unknown manufacturer two man saw marked “**Bronco**” which weighs 9 lbs 6 oz. Has lance teeth.

Tooth pattern: 18 rakers total; with 6 cutters, raker, 2 cutters (repeats 17 times), raker, 6 cutters.

Location: HSVTC Storage.

### 1.4 HSVTC Saw #4

A 4 foot Curtis Saw Company, St Louis, #3 one man saw that is not marked and weighs 5 lbs 12 oz.

Tooth pattern: 23 rakers total; with 1 cutter, raker, 2 cutters (repeats 22 times), raker, 1 cutter.

Location: HSVTC Storage.

### 1.5 HSVTC Saw #5

A 4 1/2 foot one man saw by an unknown manufacturer that is marked with a #7 and weighs an 6 lbs. 4 oz. Almost has semi-champion teeth.

Tooth pattern: 20 rakers total; with 1 cutter, raker, 2 cutters (repeats 19 times), raker, 1/2 cutter.

Location: HSVTC Storage.

### 1.6 HSVTC Saw #6

A 20 inch limb saw marked “**Z-28**” that weighs 1 lb 0 oz. And includes a leather sheath.

Location: HSVTC Storage.

### 1.7 HSVTC Saw #7

A 7 foot two man bucking saw by an unknown manufacturer that is marked **Butch**, weighs 10 lbs. 9 oz. and has lance teeth.

**Saw is unusable due being quite dull. It needs to be sharpened.**

Tooth pattern: 20 rakers total; with 4 cutters, raker, 4 cutters (repeats 19 times), 4 cutters.

Location: Eric Hamilton's home.

### 1.8 HSVTC Saw #8

A 7 foot two man bucking saw by Disston Philadelphia. Is marked "five gages thinner on back", Spring Steel Saw, No 11. That is marked **Mike Ede**, weighs 8 lbs. 2 oz. and has perforated lance teeth.

**Saw is unusable due being quite dull. It needs to be sharpened.**

Tooth pattern: 17 rakers total; with 4 cutters, raker, 4 cutters (repeats 16 times), 4 cutters.

Location: Eric Hamilton's home.

### 1.9 HSVTC Saw #9

A 5 foot 4 inch two man falling saw by an unknown manufacturer that is marked #132 on a paper label on one handle. Has two unmatched eastern pattern handles. weighs 3 lbs. 4 oz. and has "special" teeth. The raker on one end is half broken.

Saw has not been sharpened recently.

Tooth pattern: 15 rakers total; with 2 cutters, raker, 2 cutters (repeats 14 times), 2 cutters.

Location: Eric Hamilton's home.

### 1.10 HSVTC Saw #10

A 2 foot 10 inch one man saw by an unknown manufacturer that is not marked, weighs 2 lbs. 12 oz. and has perforated lance teeth.

**Saw is unusable due being quite dull. It needs to be sharpened.**

Tooth pattern: 7 rakers total; with 1 raker, 4 cutters (repeats 7 times), 8 cutters.

Location: Eric Hamilton's home.

### 1.11 HSVTC Saw #11

A 3 foot 5 inch one man saw by Atkins and is a model No. 392 that is marked with a "8" stamped on the handle. Weighs 3 lbs. 4 oz. and has perforated lance teeth.

Saw seems to be properly sharpened.

Tooth pattern: 11 rakers total; with 3 1/2 cutters, raker, 4 cutters (repeats 10 times), 4 cutters.

Put on a new sheath on 10FEB06.

Location: Given to Barbara at Helicopter school.

### 1.12 HSVTC Saw #12

A 4 foot 10 inch one man saw by an unknown manufacturer that is not marked, weighs 4 lbs. 1 oz. and has perforated lance teeth.

**Saw is unusable due being quite dull. It needs to be sharpened.**

Tooth pattern: 10 rakers total; with 3 cutters, raker, 4 cutters (repeats 10 times), 10 1/2 cutters.

Location: Eric Hamilton's home.

### 1.13 HSVTC Saw #13

A 2 foot 6 inch bow saw by an unknown, but modern manufacturer, that weighs a unknown amount and has modern teeth.

Location: Eric Hamilton's home.

### 1.14 HSVTC Saw #14

A 3 foot 0 inch bow saw by an unknown, but modern manufacturer, that weighs a unknown amount and has modern teeth.

Location: Eric Hamilton's home.

### 1.15 HSVTC Saw #15

A 1 foot 10 inch limb saw by American Intertool, Elk Grove Village, IL, 6007, Made in Japan, Professional Prune..., 40005. a modern manufacturer, that weighs a 1 lb 2 oz and has modern teeth.

Location: Given to Barbara at Helicopter school.

### 1.16 HSVTC Saw #16

A 1 foot 10 inch limb saw by American Intertool, Elk Grove Village, IL, 6007, Made in Japan, Professional Prune..., 40005. a modern manufacturer, that weighs a 1 lb 2 oz and has modern teeth.

Missing two of three screws holding the handle to the saw. These were replaced on 10FEB06.

Location: Given to Barbara at Helicopter school.

## 2 HSVTC Axe

A single bit full size ax that weighs 5 lbs 2 oz.

Location: Eric Hamilton's home.

### 3 Saw Handles

1. **41, 42:** These appear to be matching pair of western style handles that have all their parts and are in good overall condition.  
Location: HSVTC Storage.
2. **43, 44:** These appear to be matching pair of western style handles that have all their parts and are in good overall condition.  
Location: HSVTC Storage.
3. **45:** This is a western style handle that has all its parts and is in good overall condition. However the hole thought the handle is under sized and the securing bolt will not turn easily. Similar to #46.  
Location: HSVTC Storage.
4. **46:** This is a western style handle that has all its parts and is in good overall condition. Similar to #45.  
Location: HSVTC Storage.
5. **47:** This is a western style handle that is missing the back plate. Otherwise it is good overall condition.  
Location: HSVTC Storage.
6. **48:** This is a western style handle that has all its parts and is in good overall condition.  
Location: HSVTC Storage.
7. **49:** This is a western style handle that has all its parts and is in good condition  
Location: HSVTC Storage.
8. **50, 51:** These appear to be a matching pair of eastern style handles that have all their parts and are in good overall condition. Similar to Simonds #88 type handles.  
Location: HSVTC Storage.
9. **52, 53:** These appear to be a matching pair of unknown style short handles that have all their parts and are in good overall condition.  
Location: HSVTC Storage.
10. **34, 35:** These appear to be a matching pair of semi-western handles that are missing the ferrule and are not usable until ferrules are replaced. Otherwise the condition is fair. Handles are marked "Disston 101" and have a "Key stone" symbol.  
Location: HSVTC Storage.

11. **36:** This is semi-western handle that is incomplete in that it is missing the cross pin used to hold the saw. Otherwise the condition is good. Similar to a Disston #22 style handle. (Replaced the cross pin on 25JAN06.  
Location: HSVTC Storage.
12. **37:** This is a western handle that is rust-frozen and has a broken wing nut. One of the castings says "Disston". Not usable. Repaired on 28JAN06 by breaking off, and replacing, the broken wing nut. The through bolt was then rethreaded.  
Location: HSVTC Storage.
13. **38:** This is a western handle that is short, oval and missing its finger guard. Is usable, but unsafe because of the missing finger guard.  
Location: HSVTC Storage.
14. **61:** This is a one man supplementary handle which is in fair condition and is complete. (Almost identical to #63 and #65.)  
Location: HSVTC Storage.
15. **62:** This is a one man supplementary handle which is in good condition and is complete.  
Location: HSVTC Storage.
16. **63:** This is a one man supplementary handle which is in good condition and is complete. (Almost identical to #61 and #65.)  
Location: HSVTC Storage.
17. **64:** This is a one man supplementary handle which is in good condition and is complete.  
Location: HSVTC Storage.
18. **65:** This is a one man supplementary handle which is in good condition and is complete. (Almost identical to #61 and #63.)  
Location: HSVTC Storage.
19. **66:** This is a one man supplementary handle which is in fair condition and is complete.  
Location: HSVTC Storage.

## 4 Handle Data

### 4.1 Part 1, two man crosscut saw handles

Item	#41	#42	#43	#44	#45	#46
Weight	1 lb, 2 oz.	1 lb, 2 oz.	1 lb, 2 oz.	1 lb, 2 oz.	1 lb, 6 oz.	1 lb, 6 oz.
<b>Handle</b>						
Diameter	1.3	1.3	1.27	1.3	1 1/4	1.3
Length	12 1/8	12	13 7/8	14	14	14 1/8
TB Hole	.48	.48	.45	.43	.43	.43
TB Hole above short end	5 1/2	5 3/8	5 3/4	5 3/4	5 1/4	5
<b>Through Bolt</b>						
Length	5.7	5.74	5.1	5 3/8	5 3/4	5.7
Dia in handle	.45	.43	.41	.41	0.44	0.4
Thread Dia.	7/16	27/64	7/16	7/16	7/16	7/16
TPI	14	14?	14	14	14	14
<b>Rivet</b>						
Diameter	1/4	1/4	1/4	1/4	1/4	1/4
Length	3/4	3/4	3/4	3/4	3/4	3/4

Item	#47	#48
Weight	1 lb, 3 oz.	1 lb, 1 oz.
<b>Handle</b>		
Diameter	1.3	1.12
Length	14 5/8	14
TB Hole	1/2	.43
TB Hole above short end	4 1/4	5 1/8
<b>Through Bolt</b>		
Length	5 7/8	5 3/4
Dia in handle	0.4	.44
Thread Dia.	13/32	27/64
TPI	14	14
<b>Rivet</b>		
Diameter	1/4	1/4
Length	3/4	3/4

## 4.2 Part 2, one man crosscut saw handles

Item	#61	#62	#63	#64	#65	#66
Weight	8 oz.	8 oz.	8 oz.	8 oz.	8 oz.	8 oz.
<b>Handle</b>						
Diameter Min	1.06	1.13	1.07	1.09	1.06	1.17
Diameter Max	1 1/4	1.28	1.31	1.30	1.27	1.34
Ferrule Length	.65	2	1.03	.65	.65	1.53
Nut Depth	1.57	1.28	1 3/8	1.55	1.54	1.19
Length, includes ferrule	5.30	5.18	5.40	5.21	5.28	4 3/4
<b>Long Split Bolt</b>						
Length	3 1/2	3.4	3.7	3 1/2	3.6	3.9
Dia in handle	.43	—	.35	.44	.44	.38
Length of Threads	1.34	1.48	1.61	1.04	1.43	1.14
Thread Dia.	3/8	5/16	11/32	3/8	3/8	5/16
TPI	16	18	16	16	16	18
<b>Rivet</b>						
Diameter	.217	—	.201	.218	.219	.185
Length	.855	—	.677	.871	.854	.587



## 4.3 Part 3, misc handles

Item	#34	#35	#36	#37	#38	#49	FF	FS
Weight	8 oz.	8 oz.	1 lb.	1 lb.	1 lb.	1 lb.	—	—
<b>Handle</b>								
Diameter Min	1 1/4	1 1/4	1.21	1 1/4	1.16	1.32	—	1 1/4
Diameter Max	1 3/8	1 3/8	1.34	—	1.32	—	—	—
Dia at Ferrule	1.15	1.15	1.18	—	—	—	—	—
Length	12 3/4	12 3/4	13 5/8	13 3/4	8 1/16	9 3/4	—	13 7/8
TB Hole	.43	.43	1/2	—	.45	.54	—	1/2
TB Hole above short end	1 3/8	1 3/8	1 5/8	6	3 3/8	4 1/3	—	5 1/2
<b>Through Bolt</b>								
Length	3.12	3.12	3.83	5.83	5.83	5.88	5 1/4	5 3/4
Dia in handle	.384	.384	.485	—	7/16	.436	1/2	7/16
Thread Dia.	5/16	5/16	7/16	7/16	7/16	7/16	1/2	7/16
TPI	18	18	14	14	14	14	13	14
<b>Rivet</b>								
Diameter	.20	.20	—	1/4	1/4	1/4	1/4	1/4
Hole Diameter Large	—	—	.283	—	—	—	—	5/16
Hole Diameter Small	—	—	.255	—	—	—	—	9/32
Length	.63	.63	—	3/4	3/4	3/4	3/4	3/4

**Note**

1. On all handles the finger guard, standoff (when not cast into the front plate), front plate and back back plate are all cast iron.
2. The through bolt is machined steel.
3. The wing nut is cast iron.
4. The rivet is iron and its length includes the head.
5. #37 has head on the rivet that is 3/8 long.
6. #62 has a unique connection to the saw that does not use a rivet and the “saw petitioner” is included in the overall length and the length of the ferrule. It is 1/2 inch long.
7. FF (Flicker Forge) is a new set of hardware from Flicker Forge, 660-777-3508, L. Japheth Howard. Did not include a wooden handle. Finger guard, standoff, back plate and front plate are made out of cast brass. The rest are made out of machined steel or cast iron (for the wing nut).

8. FS (Forest Service) Handle is described in “New Tools for Old Saws, Crosscut Saw Tools”, June,2005, Publication # 0532-2815-MTDC, page 14, drawing # MTDC-1024.
9. FS rivet is McMaster-Carr #97300A685.
10. FS wingnut is McMaster-Carr #90866A150.

Item			
<b>Handle</b>			
Diameter Min			
Diameter Max			
Ferrule Length			
Nut Depth			
Length, includes ferrule			
TB Hole			
TB Hole above short end			
<b>Long Split Bolt or Through Bolt</b>			
Length			
Dia in handle			
Length of Threads			
Thread Dia.			
TPI			
<b>Rivet</b>			
Diameter			
Length			

Fraction	Inch	mm	Fraction	Inch	mm
<b>1</b>	<b>1.0000</b>	<b>25.4000</b>	<b>1/2</b>	<b>0.5000</b>	<b>12.7000</b>
63/64	0.984	25.0031	31/64	0.4844	12.3031
31/32	0.9688	24.6062	15/32	0.4688	11.9062
61/64	0.9531	24.2094	29/64	0.4531	11.5094
<b>15/16</b>	<b>0.9375</b>	<b>23.8125</b>	<b>7/16</b>	<b>0.4375</b>	<b>11.1125</b>
59/64	0.9219	23.4156	27/64	0.4220	10.7188
29/32	0.9062	23.0187	13/32	0.4062	10.3187
57/64	0.8906	22.6219	25/64	0.3906	9.9219
<b>7/8</b>	<b>0.8750</b>	<b>22.2250</b>	<b>3/8</b>	<b>0.3750</b>	<b>9.5250</b>
55/64	0.8594	21.8281	23/64	0.3594	9.1281
27/32	0.8438	21.4312	11/32	0.3438	8.7312
53/64	0.8281	21.0344	21/64	0.3281	8.3344
<b>13/16</b>	<b>0.8125</b>	<b>20.6375</b>	<b>5/16</b>	<b>0.3125</b>	<b>7.9375</b>
51/64	0.7969	20.2406	19/64	0.2969	7.5406
25/32	0.7812	19.8438	9/32	0.2812	7.1437
49/64	0.7656	19.4469	17/64	0.2656	6.7469
<b>3/4</b>	<b>0.7500</b>	<b>19.0500</b>	<b>1/4</b>	<b>0.2500</b>	<b>6.3500</b>
47/64	0.7344	18.6531	15/64	0.2344	5.9531
23/32	0.7188	18.2563	7/32	0.2188	5.5563
45/64	0.7031	17.8594	13/64	0.2031	5.1594
<b>11/16</b>	<b>0.6875</b>	<b>17.4625</b>	<b>3/16</b>	<b>0.1875</b>	<b>4.7625</b>
43/64	0.6719	17.0656	11/64	0.1719	4.3656
21/32	0.6562	16.6687	5/32	0.1562	3.9688
41/64	0.6406	16.2719	9/64	0.1406	3.5719
<b>5/8</b>	<b>0.6250</b>	<b>15.8750</b>	<b>1/8</b>	<b>0.1250</b>	<b>3.1750</b>
39/64	0.6094	15.4781	7/64	0.1094	2.7781
19/32	0.5938	15.0813	3/32	0.0938	2.3812
37/64	0.5781	14.6844	5/64	0.0781	1.9844
<b>9/16</b>	<b>0.5625</b>	<b>14.2875</b>	<b>1/16</b>	<b>0.0625</b>	<b>1.5875</b>
35/64	0.5469	13.8906	3/64	0.0469	1.1906
17/32	0.5312	13.4937	1/32	0.0312	0.7937
33/64	0.5156	13.0969	1/64	0.0156	0.3969

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