

05/17/2996 YED 8:52 FAX 5137910925 YBD I001/
009

ABLE CUT OFF MACHINE PARTS & SERVICE MANUAL

Second Edition
Publshed September 1995

STATIONARY
SUPPORT &
SLIDE ASSY.

MOVABLE
SUPPORT S
SLIDE ASSY. ;1

WARNING::;0]

ALWAYS EXERCISE CARE when operating or performing maintenance, repairs and adjustments. ALWAYS disconnect electrical connector before attempting to work on the machine. BE SURE all electrical machines are properly grounded. FOR YOUR protection keep finger guard as Tow as possible during operation. KEEP MAIN SWITCH OFF when machine is not in use. NEVER PLACE hands or any part of your person in the path of the cutter. NEVER leave the machine unattended with its motor running.

1st/Since 1888

THEWOLFMACHINECOMPANY

5570 Creek Road • Cincinnati, OH 45242 USA
Phones 513-791-5194 • FAX 1-513-791-0925
TOLL FREE 1-800-543-WOLF

STANDARD MODEL DELUXE MODEL

(DELUXE MODEL SHOWN)

GUIDE RAIL

CUTTING UNIT

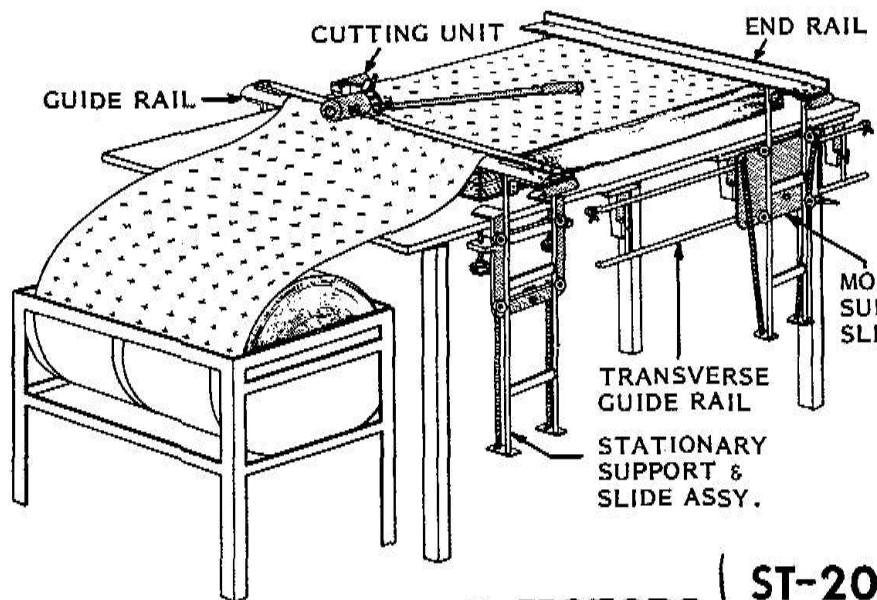
END RAIL..

TRANSVERSE GUIDE RAIL

• MOTORS

ST 2000 ST- 5000

WOLF®



ST-20

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Part P46. Decription

P,-t No. Decriptio,-,

Part No. Description

1433470
1 433571
I 433672
1433870
1 433971
1434072
1650100
1550200
1650300
1650400
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1651000
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1651200
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1654000
1654100
1554200
1654300
1654400
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1654800
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1655000
1655100
1655200
• 1655300
1655600
1655500

1655700
1655800
1655900
1656000
1656100
I 656200

1656300
1656400
1656500
1556600
1656700
1656800
1656900
1657000
1657100
1657200
1657400
1658100
1655200
1658300
1658400

Earth Screw
Serrated Washer
Grinding Device, Complete
Grindstone Holder
Grindstone, Complete
Press Button
Pressure Spring
Cylindrical Head Screw
Sliding Angle
Washer
Serrated Washer
Hexagonal Nut
Adjusting Screw
Threaded Pin
Counterweight
Cylindrical Head Screw
Counter Blade
Blade Holder
Tension Spring
Tensioning Nut
Finger Guard

Cylindrical Head Screw
Connection Angle
Cylindrical Head Screw
Plug Socket
Countersunk Screw
Main Switch
Ran,
Spring. Ran,
Micro Switch
Fillister Head Screw
Conductor Plate, Complete
Conductor Plate
Suppressor
Diode
Plug Flat
Socket
Cylindrical Head Screw
Serrated Washer

1659100

1654200

V

1659900
1660000
1660100
1660700
1660800

16541 00

1656300

1656200

1659000

1660200

1660300

1660400

1660500

1660800

1660900

1655900

1656100

1656000

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1653900

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1433571

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1433870

1433971

1434072

1653500

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1657100

1653600

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1555700

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1658400

16 58 500

1661 000

1658600

1661300

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1661400

1661500

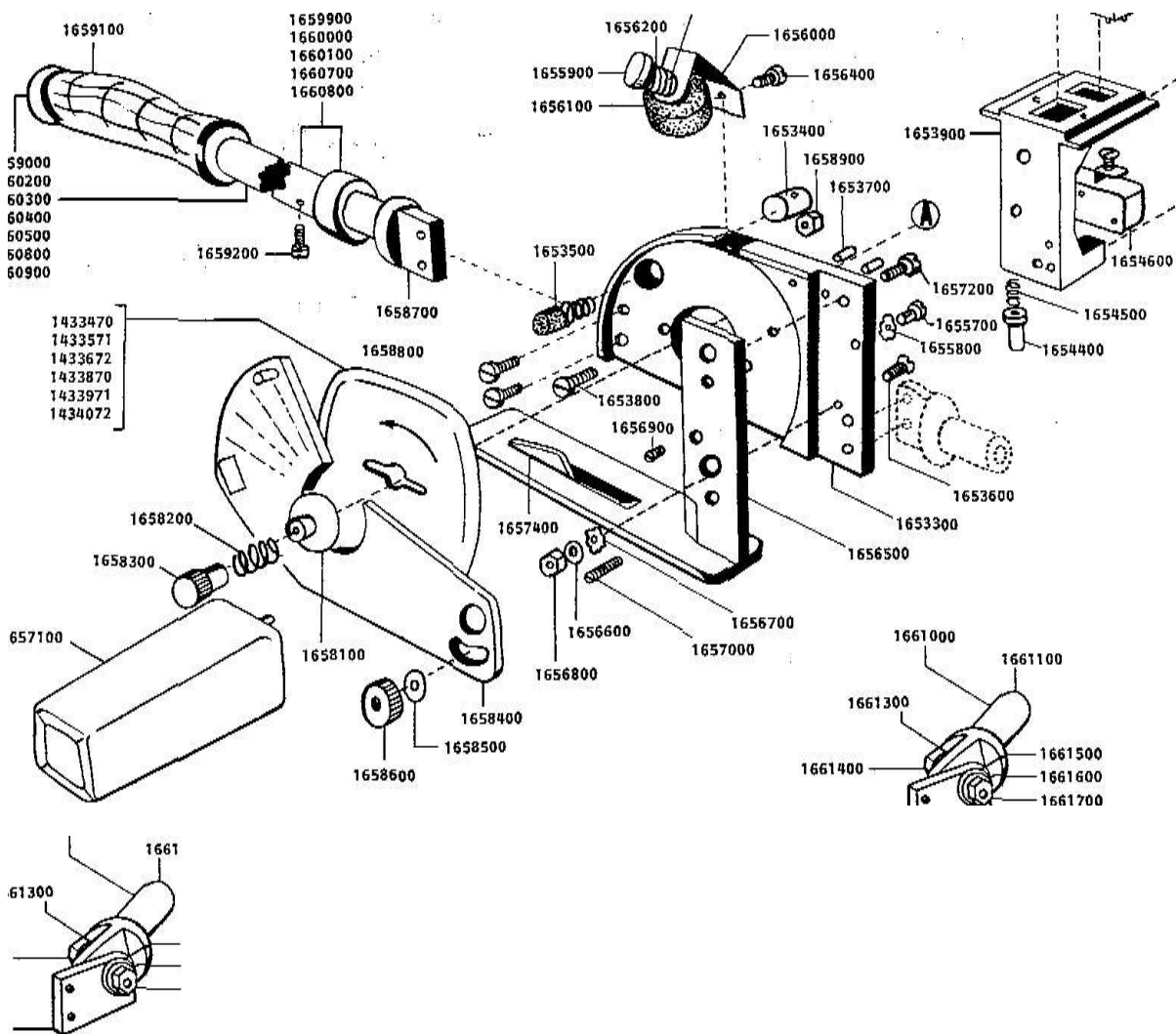
1661600

1661700

1661200

Four B6w Blade CRW	M6t6,-
Fou,- Bow Blade 1-155	Countersu,k 5c.ew
Teflon Coated Fou,- Bow Blade	Screw
Circula,- Blade CRW	Label, "Oil Daily"
Circular Blade '155	coupling w/Pins
Teflon Coated Circular Blade	Driving Pin
Motor ST-3000 IIOV 60HZ	Tenionihg Bush
A" tore 51—2000 hay 60HZ	Blade Houaing
Field Coil 5T—2000 hay 60HZ	Cap. Oiler Felt
Cian. Coils	Oiler Felt. Co'nplete
Small InsulatIn9 Plate	Coo,'te,-s.unk Screw
Bearin9 Bracket, Front	Pin
Dust Cap, Front	
Safety Washer	
Saddle Metal Washer	
Bali Bearing	
Mote,- ST-2000 220V 60HZ	
Arn,atore ST—2000 220v 60HZ	
Field Coll 51—2000 22eV 60HZ	
Beering Bracket, Rear	
Ball Searing	
D'jst Cap. Rear	

Countersunk Screw
Ca,-bo,, Brush
Fillkter Head Sc,-e,
Motor ST-E2000 220V 50HZ
Armature ST-2000 22ev 50HZ
Field Coil ST-200o 220V 50HZ
Serrated Washer
Fan -



From the library of: Diamond Needle Corp

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QQ9

Part No
I 658500
1658600
I 688700
1658800
1658900
1659000
1559100
I 659200
1659300
1659400
1659500
1659600
1659700
1659900
1660000
1660100
1660200
1660300
1650600
1660500
1660600

Tui5e 50CM
Conedion for Tube
Handle
Holding De,'ce fo'- Handle
E,denslon Cnmpiete
Holder kr Holding Handle
Hinge. Fuldng Handle
Spacer Bush
Hexagonal 5screw
Spring Wather
Washer
Hexagonal Nut
Accessories. Complete
Flexible Cord, Complete
TO Pole Plug
Appliance Plub
Suspenbn Spring
Cam, -Front

‘V

1662500 Cams Rear Complete
1662600 Hexagonal Wrench
1670000 cutting Head Complete
ST—2000 lloV 60HZ
1570500 Cutting Head Cnmpiete
ST—2000 220V 60HZ
1671000 Cutting Head Complete
ST—2000 220V 50HZ
1572000 Cutting Head CompTete
ST-4000 220V 60HZ
2101500 Oiler

WARNING

ALWAYS EXERCISE CARE
WHEN HANDLING OR
USING THIS MACHINE

Part No.
1660700
1660800
1660900
1661000

Description Part No. Description

Spring
Knee, -led Nut
Handle Holder
Countersunk Screw
Hexagonal Nut
Tube w/Handle 13CM
Handle, Shortened
Screw
Cam. Front
Cam. Rear Complete
Cam., , Rear
Tensioning Plate
cylindrical Head Screw
Handle Holder for Extension
Connection Piece. Rubber
insert for Tube
Handle w/Tube 25CM
Handle w/Tube 50CM
Handle w/Tube 75CM
Handle w/Tube 100CM
Handle ,slTube 125CM

1661100
1651200
1661300
1661400
1661500
1661600
1661700
1651800
1662000
1662100
1662200
1652300
1662800

1651700

1651800

1651400

1650200
1651200

16

1551000

1663200

1550600

1550900

1653100

1 654000

1658900

1655000

1655100

1551900

1652400

1652300

1662000

1655300

1550500

1550400

ST-2000

1562100

1652900

1552500

1652700

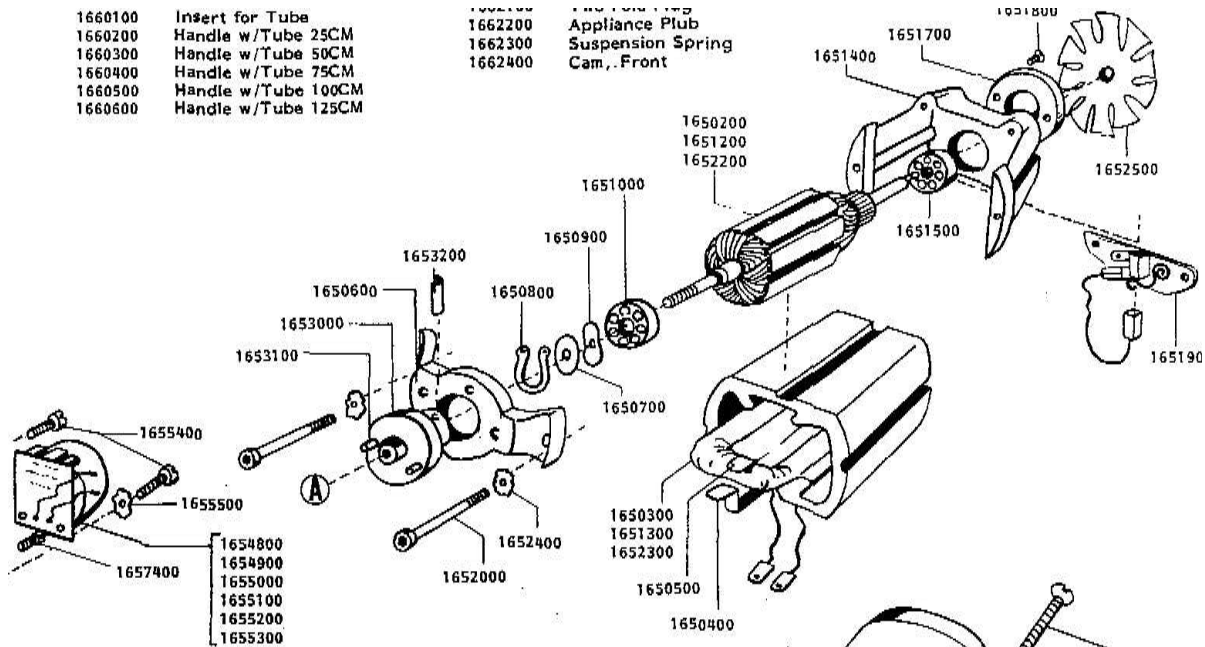
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1662600

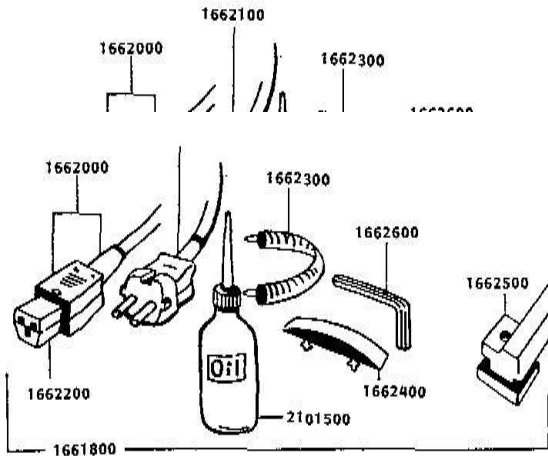
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1660100 Insert for Tube
 1660200 Handle w/Tube 25CM
 1660300 Handle w/Tube 50CM
 1660400 Handle w/Tube 75CM
 1660500 Handle w/Tube 100CM
 1660600 Handle w/Tube 125CM

1662100 The Tube Plug
 1662200 Appliance Plug
 1662300 Suspension Spring
 1662400 Cam, Front



ST-2000



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 ?dth Std8 Ay.
 (N88!• 51d9)

FIXED SUPPORT

AND SLIDE ASSEMBLY

569

*j|,16 | & 6,bly be,- d,8€k P8,-ti L19t fO. Oil po-t k,clud8d.
4737500
9900677
4736600

473s03
S11d8 Afly.
(Fo, 81d€)

9901908

I

9901

1603000

4736393

1628000

1603100

47 36 00

k735 05 5* FI1(9d sppo,-t with 5lid A*y. (F8! 81d9)

4

*This is an assembly number; check Parts List for all parts included.



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NUMBERS FOR FIXED SUPPORT & SLIDE ASSEMBLY

Bearing Spacer

Quantity used if more than 1

Leather Strap –Specify table length
Lifter Spring
Spring Strip Steel –Specify rail length
Roam Rubber –1+” –Specify rail length
Actuator Switch
Fixed Support & Slide Assy. –Near side
Fixed Support Assy. –Near side
Slide Assy. –Near side
Angle with Roller
Fixed Support
Fixed Support
Slide Assy.
Clamping Plate
Adjust Screw with Knob
Leather Strap Grip

Axle
Slide
Hinge

Belt Roller
Holding Bridge
Holding Bridge Assy.
Roller
Roller Axle
Retaining Ring
Eyelet Screw
Clamp Frame
Fastening Angle
Roller Screw
End Flap

Lifter Spring Holder
Cushion
Guide Rail (Note: Give Table Size)
Pulley
Bearing Spacer
Round Head Screw
Flat Head Screw
Fillister Head Screw
Fillister Head Screw
Flat Head Screw
Fillister Head Screw
Pen Head Screw
Hex Head Cap Screw
Hex Head Bolt
Round Head Thread Cutting Screw
Hex Nut
Hex Stop Nut
Spring Lock Washer
Flat Washer

Flat Washer

Part No. Description

Part No.

Description

2

Quantity used if more than, I

& Slide Assy. -Far side **Assy.** -Far side Far side

1221900
1248900
1503000
1603100
1604200
1528000
4733200
4735050*
4735051*
473 50 52*
473 50 5 3*
4 73 50 5 5*
473 50 55*
473 50 57*
4735100
4735350
4735400
4735500
4735500
4735700
4735800
4735900
4735950*
4736000
4736100
4736293
4735393
4735400
4735500
47357.93
4736800
4735 goD
4737000
47 37 500**
4737100
4737200
9900088
9900398
9900403
9900405
9900443
9900577
9900844
9901408
9901417
9901559
9901578
9901732
9901935
9901984

9901985*

2

5

4737100	Pulley			4
4737200	Bearing Spacer			4
g900088	Round Head Screw			2
9900398	Flat Head Screw			2
9900443	Flat Head Screw			
90I 417	Flat Head Bolt			4
g901678	Hex Nub			5
9901732	Hex Stop Nut			2
9901935	Lock Washer			4
9901 986	Washer			4
*4735052	SLIDE ASSEMBLY –Near Side			
4735053	Angle with Roller			
4735600	Slide			
9900844	Pen Heed Screw			4
*4735053	Angle with ROLLER			
4735500	Axle			
4735800	Belt Roller			
4736500	Fastening Angle			
*4735055	FIXED SUPPORT & SLIDE ASSY. –Far side			
1603100	Lifter Spring			2
4735056	Fixed Support –Far side			
4735057	Slide Assy. –Far side			
4736900	Lifter Spring Holder			2

*4735056	FIXED SUPPORT –Far side			
1221900	Peering			8
1248900	Spacer			8
4735100	Clemping Plete			2
4735360	Adjust Screw with Knob			2
4735400	Leather Strap Grip			
4735000	Roller			4
4735393	Eyelet Screw			2
4736400	Clamp Frame			
4736793	Roller Screw			4
4737100	Pulley			4
4737200	Bearing Spacer			4
9900088	Round Head Screw			2
gg0D3gB	Flat Head Screw			2
gg0L4L7	Hex Head Bolt			4
9g01578	Hex Nut			4
9901 732	Hex Stop Nut			2
9901 35	Lock Washer			4
9901 g86	Washer			4
*4735057	SLIDE ASSSIBLY –Far side			
4735053	Angle with Roller			
4735600	Slide			
4735950	Holding Bridge Assy.			
9900844	Pan Head Screw			4
gg0L 408	Hex Head Cap Screw			
*473595Q	HOLDING BRIDGE ASSEMBLY			

*4735050	FIXED	SUPPORT	.,/SLIDE ASSY _Near Side	
1503100 4735051 4735052 4736900	Lifter Frame Slide Lifter	Spring Assy. – Assy. – Spring	Near side Near side Holder	2 2
*4735051	FIXED	SUPPORT	_Near side	

4735100	Clanping Plate		2	4735800	Belt Roller					
4735350	Adjust Screw with Knob		2	4735go0	Holding Bridge					
4735400	Leather Strap	Grip		4735100	Roller Assembly					
4735700	Hinge			47352g3	Retaining Ring					
4735000	Roller		4							
4735393	Eyelet Screw		2	*Part & part quantities	shown	separately	on	this	page.	
4735400 4735793	Clamp Frame Roller Screw		4	*GUIDE RAILS include: 1628000. 1504200. 4736800 (2). 9901569			(4).	9901984.		

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MOVABLE SUPPORT AND SLIDE ASSEMBLY

*ThiS is •[l 6,0bly :&9b9,: Ports List fob' sil psts 1.ddd.
•4739500•
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Siid8 Assy. (Fol' 51d6)
506 p696 5, Psts List.
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9900806
4735053
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9901935
9901673

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NUMBERS FOR MOVABLE SUPPORT & SLIDE ASSEMBLY

Bearing
Spacer
Spacer
Leather Strap
Lifter Spring
Foa,n Rubber. 1 inch
Return Spring
Claaping Spring
Slide Assy.. -Near side,
Angle with Roller
Slide Assy. -Far side
Leather Strap Grip
Asl a
Slide
Belt Roller
Roller
Eyelet Screw
Fastening Angle
Roller Screw
Lifter Spring Holder
Pulley
Bearing Spacer
Movable Support & Slide Assy. -Near side

Movable Support & Slide Assy. –Far side
 Movable Suppo, -t Assy.
 Angle
 Cleeping Plate
 Mowable Support
 Stop Belt
 Spherical Button
 Table Support
 Cloaping Knob with Stud
 End Ring
 Thueb Screw
 Connecting Pin
 Transverse Guide Rail –49 inch
 Transverse Guide Rail Kit –49 inch
 End Rail (NOTE: Bmw Teble Size)
 Flat Heed Screw
 Flat Hoed Screw
 Flat Head Screw
 Filllister Head Screw
 Pan Head Screw
 Hex Head Cap Screw
 Hex Nut
 Hex Stop Nut
 Lock
 Flat
 Flat

Washer
 Washer
 Washer

Part Nm.

Descriptimn

Quantity use if more than 1

Quantity used If more them 1

1 See pege 5
 J–Parts List for all parts included.

1221900
 1248400
 1248900
 1603000
 1603100
 1620000
 1643300
 1644200
 4735052
 4735053
 4735057
 4735400
 4735500
 4735600
 4735800
 4736000
 4736393
 4735500
 4736793
 4735900
 4737100
 4737200
 4738050*

47 380 5 1*
 4738052*
 4738100
 4738200
 4738300
 4738493
 4738593
 4738600
 4738793
 4738893
 4738993
 4739001
 4739100
 4739150*
 4•739 500
 9900398
 9900403
 9900446
 9900577
 9900844
 9901414
 9901 578
 9901732
 9901935
 9901985
 8901985

4738500
 4738893
 4738993
 4739001
 4739100
 9900445
 9901414
 9901 678
 9901935
 9901 985

*Part & part *quantities* shown separately on this page. uLJIDE RAILS include: 1520000

Table Support
 End Ring
 Thumb Scraw
 connecting Pin
 Transverse Guide Rail 49 inch
 Flab Head Screw
 He, Head cap Screw
 He,(Nut
 Lock Washer
 Flat Washer

5
 2
 2
 4
 2
 12
 5
 18
 18
 18

Part No.	Description			
*4738050	MOVABLE SUPPORT & SLIDE ASSY. -	Near	side	
16D3100	Lifter Spring			2
4735052	Slide Assy. - <i>Near side</i>			
4735900	Lifter Spring Holder			2
4738052	Movable Support Assy.			
*4733051	MOVABLE SUPPORT & SLIDE ASSY. -	Far	side	
1BD3I00	Lifter Spring			2
4735057	Slide Assy. - <i>Far side</i>			
4736900	Lifter Spring Holder			2
4738052	Movable Support Assy.			
*4738052 -	MOVABLE SUPPORT ASSEMBLY.			
1221900	Bearing			8
1248400	Spacer .			8
1248900	Spacer			4
1643300	Return Spring			
1644200	Clamping Spring			
4735400	Leather Strap Grip			
4736000	Roller			8
4736393	Eyelet Screw			2
4736793.	Roller			8
4737100	Pulley			4
4737200	Bearing Spacer			4
4738100	Angle			
4738200	clamping Plate			
4738300	Movable Support			
4738493	Stop Bolt			

4738593	Spherical Button			
4738793	<i>Clamping Knob with Stud</i>			
9900398	Flat Heed Screw			2
9900403	Flat Head Screw			
9901578	Hex Nut			4
9901732	Hex Stop Nut			2
9901985	Flat Washer			
9901986	Flat Washer			5
*4739160	TRANSVERSE GUIDE RAIL KIT _49	<i>inch</i>		

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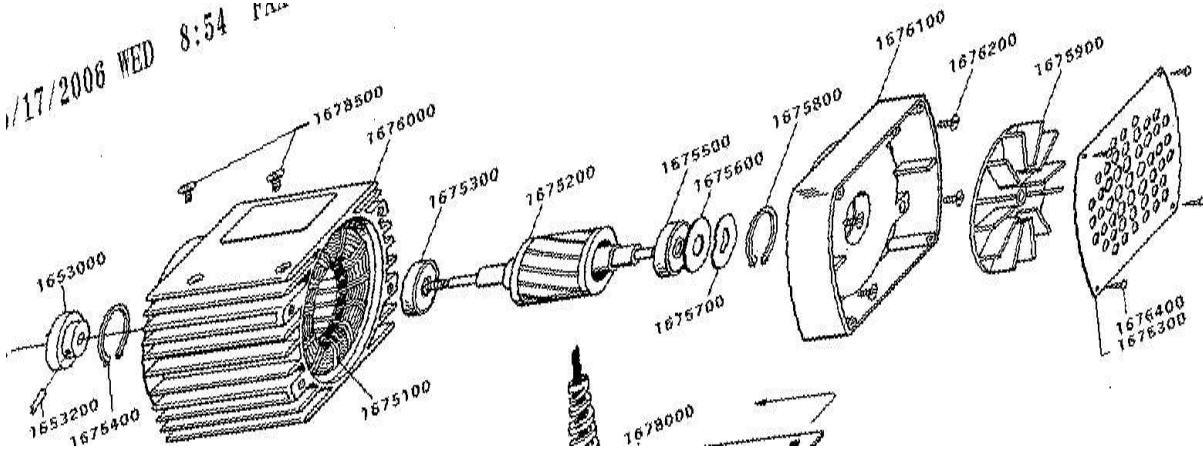
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ST-5000

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PART NO.	DESCRIPTION
1676800	Lifting Switch
1676900	Cylindrical Head Screw (2)
1677000	Deated Washer (2)
1677100	Box
1677200	Countersunk Screw
1677300	Angle for Box
1677400	Contact/terminal Box S.
1677500	Cylindrical Head Screw (2)
1677600	Wire Protector
1677700	Hexagonal Nut, Flat
1677800	Switch
1677900	ON/OFF Switch
1678000	Sliding Angle
1678100	Counter Weight
1678200	Finger Guard
1678300	Screw (2)
1678400	
1678500	

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SERVICE INSTRUCTIONS (TINGINSTRUaION

1. Pull cloth across GuideRail to desired end rail setting (as shown on front cover).
2. Secure cloth under the end rail.
3. Turn on main switch and pull cutter across material. NOTE: When main switch is on, machine will automatically turn motor on when lifting switch slides oFF cam on far side, and turn off motor when cutter reaches cam on the near side.
4. Push cutter back to far side. Pull up Guide Rail and secure cut end beneath it.
5. Repeat operations.

LUBRICATION

Add or 2 drops of oil daily, depending on use, to oil hole on blade housing.
Occasionally clean and iightly oil the spring steel strip in the guide rail

SHARPENING

To sharpen, press grinding stone button lightly and briefly down against the blade while machine is running. Pressure must be light to avoid pulling a burr on the blade. When blade becomes less than 3—7/8 or 98 MM in diameter, it must be replaced. Also keep grinding wheel clean by spraying with Wolf s Keep—M—Kleen emery wheel cleaner (Part 2100600).

CHANGING BLADES

1. Turn Main Switch off, and disconnect the electrical connector. The cutting machine may then be removed from the Guide Rail.
2. Remove the Sharpener and the Finger Guard.
3. Remove Tension Nut, Tension Spring and Blade Holder.
4. Remove old Blade. NOTE: Be careful when handling blades. New blades are factory sharpened and extremely sharp. Old blades may be dull For cutting material but both new and old blades can inflict personal injury.
5. Insert new blade with the writing side out and make sure blade is properly seated on the driving pins before reassembling.
6. Reverse steps 1, 2, and 3.

PART ORDERING

Order ALL PARTS by Part No. shown and BE SURE to give the motor and voltage of your cut—off machine.

The Motor number tells us the size of the port needed in your installation.

ST—2000 iLOVolts Single Phase

51—2000 220 Volts Single Phase

51-5000 220 Volts Three Phase

EXAMPLEt Give Serial No. of machine ____ Give name & no. of part,

Motor Housing 1816000 Supply Model No- 51—5000 Give voltage, 220V.

THE WOLF MACHINE CO. 5570 CREEK RD. CINCINNATI, OH 45242 USA

8 Phone: 513—791—5194 . FAX 513—191—0925 . TOLL FREE 1—800-543—WOLF