

Revo 20|36 & 24|36 Lathe Manual



LAGUNA TOOLS
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Model Numbers: MLA Revo 20-0180
MLA Revo 24-0180

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Safety Rules

As with all machinery there are certain hazards involved with the operation and use. Using it with caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. If you have any questions relative to the installation and operation, do not use the equipment until you have contacted your supplying distributor.

Read carefully before operating the machine.

- 1. Keep the working area clean and be sure adequate lighting is available.**
- 2. Do not wear loose clothing, gloves, bracelets, necklaces or ornaments. Wear face, eye, respiratory and body protection devices as indicated for the operation or environment.**
- 3. Be sure that the power is disconnected from the machine before tools are serviced or an attachment is to be fitted or removed.**
- 4. Never leave the machine with the power on.**
- 5. Do not use dull, gummy or cracked cutting tools.**
- 6. Be sure that the keys and adjusting wrenches have been removed and all the nuts and bolts are secured.**

Limited Warranty

New machines and accessories sold by Laguna Tools carry a one-year warranty effective from the date of shipping. Machines sold through dealers must be registered with Laguna Tools within 30 days of purchase to be covered by this warranty. Laguna Tools guarantees all new machines and accessories sold to be free of manufacturers' defective workmanship, parts and materials. We will repair or replace, without charge, any parts determined by Laguna Tools, Inc. to be a manufacturer's defect. We require that the defective item/part be returned to Laguna Tools with the complaint. Any machines returned to Laguna Tools must be returned with packaging in the same manner in which it was received. If a part or blade is being returned it must have adequate packaging to ensure no damage is received during shipping. In the event the item/part is determined to be damaged due to lack of maintenance, cleaning or misuse/abuse, the customer will be responsible for the cost to replace the item/part, plus all related shipping charges. This limited warranty does not apply to natural disasters, acts of terrorism, normal wear and tear, product failure due to lack of maintenance or cleaning, damage caused by accident, neglect, lack of or inadequate dust collection, misuse/abuse or damage caused where repair or alterations have been made or attempted by others.

Laguna Tools, Inc. is not responsible for additional tools or modifications sold or performed (other than from/by Laguna Tools, Inc.) on any Laguna Tools, Inc. machine. Warranty maybe voided upon the addition of such described tools and/or modifications, determined on a case-by-case basis.

Software purchased through Laguna Tools Inc. is not covered under this warranty and all technical support must be managed through the software provider. Software is non-refundable.

Normal user alignment, adjustment, tuning and machine settings are not covered by this warranty. It is the responsibility of the user to understand basic machinery operation, settings and procedures and to properly maintain the equipment in accordance with the standards provided by the manufacturer.

Parts, under warranty, are shipped at Laguna Tools, Inc.'s cost either by common carrier, FEDEX ground service or a similar method. Technical support to install replacement parts is primarily provided by phone, fax, e-mail or Laguna Tools Customer Support Website. The labor required to install replacement parts is the responsibility of the user.

Laguna Tools is not responsible for damage or loss caused by a freight company or other circumstances not in our control. All claims for loss or damaged goods must be notified to Laguna Tools within twenty-four hours of delivery. Please contact our Customer Service Department for more information.

Only **new** machines sold to the original owner are covered by this warranty. For warranty repair information, **call 1-800-332-4094**.



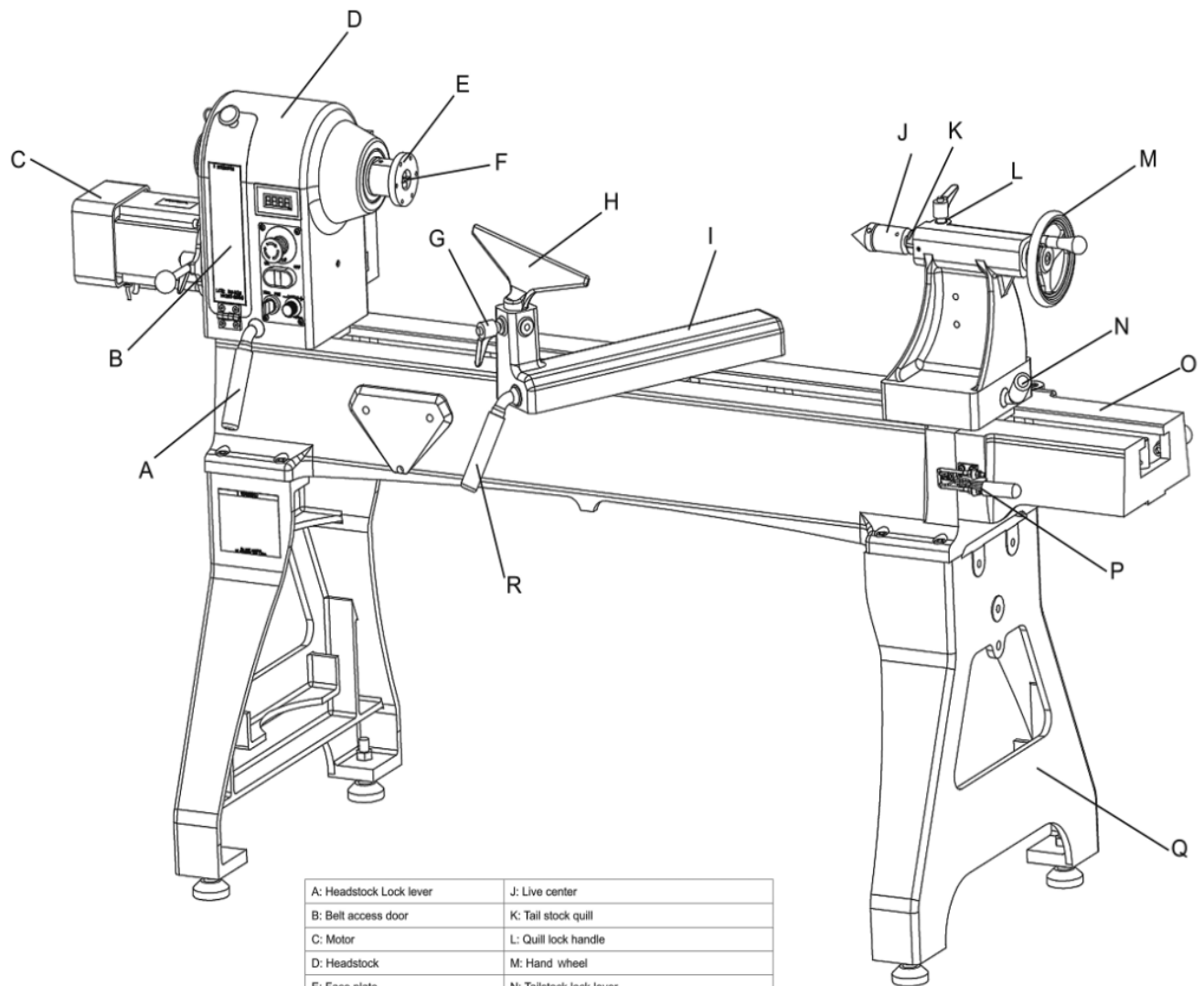
INTRODUCTION TO THE LATHE

Turbo lathes are designed and built to satisfy the most imaginative fantasies of woodworkers. With outstanding new features, energetic performances and so many user-friendly considerations, Turbo lathes simply turn turning jobs an unprecedented experience.

Featuring

- ✧ High grade cast iron structure for headstock, beds and stands to secure maximum stability
- ✧ All beds are precisely ground to mirror like surface for smooth operations
- ✧ Driven by advanced Servo DC brushless motor with variable speeds 50-3500 RPM
- ✧ Digital wide angle speed readout with blue backlight
- ✧ Extraordinarily high torque at low speeds for easy working on large workpiece
- ✧ Oversized alloy spindle supported by three precision bearings
- ✧ Easy belt changing without taking off spindle
- ✧ Sliding headstock for easy outboard turning
- ✧ Unique “Swing-away” Extension Bed System (SEB) for easy tailstock storage (standard for T-60, optional for T-50)
- ✧ Heavy duty banjo with easy maneuver and secure locking
- ✧ Cast steel chrome trimmed tool rest
- ✧ End mounts for extension bed for longer center distance
- ✧ Side mounts of extension bed for back turning
- ✧ Lower end mounts of extension bed for outboard turning set up
- ✧ Extension bed mounts on both ends of bed
- ✧ Built-in spindle lock and index

Identifications



A: Headstock Lock lever	J: Live center
B: Belt access door	K: Tail stock quill
C: Motor	L: Quill lock handle
D: Headstock	M: Hand wheel
E: Face plate	N: Tailstock lock lever
F: Spur center	O: 12" swing away extension bed (standard for T-60)
G: Tool rest lock handle	P: Clamping kit
H: Tool rest	Q: Leg
I: Tool rest base	R: Tool rest base lock lever

Specifications

Models	T-50	T-60
Operation Information		
Swing Over Bed	20"	24"
Dist. Between Centers	36"	48"
Swing Over Tool Rest Base	16"	20"
Spindle Speeds: H	200-3500rpm (Variable)	200-3500rpm (Variable)
L	50-820rpm (Variable)	50-820rpm (Variable)
Floor to Spindle Center Height	44"	44"
Headstock Travel	Full Length	Full Length
Max. Outboard Turning Swing	32"	34"
Spindle		
Spindle Taper	MT#2	MT#2
Spindle Size	1-1/4 x 8(RH) TPI	1-1/4 x 8(RH) TPI
Spindle Bore	5/8"	5/8"
Spindle Index#	48	48
Spindle Bearing	2x6209 Front, 1x6208 Rear	2x6209 Front, 1x6208 Rear
Tailstock		
Tailstock Taper	MT#2	MT#2
Hole through Tailstock	3/8"	3/8"
Tailstock Quill Travel	4-1/2"	4-1/2"
Swing away	Optional	Standard
Accessories		
Tool Rest Width	14"	14"
Face Plate	3"	3"
Swing away Bed Length	12"	12"
Spur Center	MT#2	MT#2
Live Center	MT#2	MT#2
Extension Bed	20"	20"
Electrical and Motor information		
Motor Type	DC Brushless	DC Brushless
Motor Power	2HP	3HP
Speed	0-3500rpm	0-3500rpm
Switch	On/Off w/contactor, Variable Speed Dial	On/Off w/contactor, Variable Speed Dial
Power requirement	230V/single phase	230V/single phase

Standard accessories:

Spur Center
Live Center
Face Plate
Knockout Rod
Tool Kits

Optional accessories:

12" Extension bed with swing away system (standard for T60)
20" Extension bed
2nd lathe bed
Tool rest riser bushing for outboard turning
Chisel storage pan
Spindle shield
Comparator kits
Mobility kits

POWER SUPPLY

Warning: For your own safety and protection of property, consult an electrician if you are unsure about wiring practices or electrical codes in your area.

Caution: If the plug does not fit the available receptacle, or the machine must be reconnected for use on a different type of circuit, or use an extension cord with this machine, the reconnection must be made by a qualified electrician and comply with all local codes and ordinances.

Nominal Voltage-----220V/240V

Cycle-----50/60Hz

Phase-----Single-Phase

Power Supply Circuit----- 15Amps (T-50), 20Amps (T-60)

ASSEMBLY & SETUP

Location of the lathe

A level concrete floor is the best location for the lathe. The lathe should be located in a dry area. Keep electrical box and motor away from direct sun shine. Plenty of space around the lathe is good for operations and maintenances.

Unpacking

Report any damage to your shipping agent or dealer immediately as soon as check for shipping damage.

Check the shipping crate with the following parts list to make sure all parts are intact. If there is any missing parts please report to your dealer. Read this manual thoroughly for assembly, maintenance, operation and safety instructions.

Contents of the Shipping Crate(Fig.1)

- A, Lathe bed with Headstock, Tailstock, Tool Rest Base (Banjo), Tool Rest
- B, Leg Assemblies x 2
- C, Knockout rod x 1
- D, Face plate wrench x 1
- E: Spindle lock rod x 1
- F: Live center pin x 1
- G: Live center x 1
- H: Spur center x 1
- I: 12mm allen wrench x 1
- J, 3mm allen wrench
- K, 12mm bolt x 6
- L, 12mm spring washer x 6
- M, 12mm flat washer x 2
- N, Tool storage bracket x 1
- O, Foot x 4
- P, Operation Manual

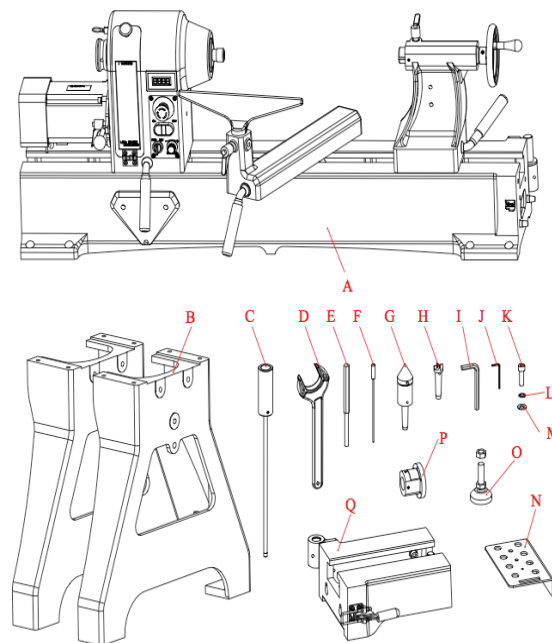


Fig. 1

Assembling Instruction

Warning: The lathe must be disconnected from power source during assembly.

Legs Installation (Fig. 2)

- 1, Lift the lathe off the pallet by using a hoist or forklift. Place it on a table or workbench with sufficient clearance to allow the support legs to be attached from underneath.
- 2, Attach the legs to the bed by using 12mm hex head bolts A with washer B. Firmly tighten the bolts.
- 3, After firmly securing the legs to the lathe, carefully lower the lathe onto the floor.
- 4, Adjust the leveling feet to ensure all four feet sit firmly on the floor. Make sure that the lathe does not rock.

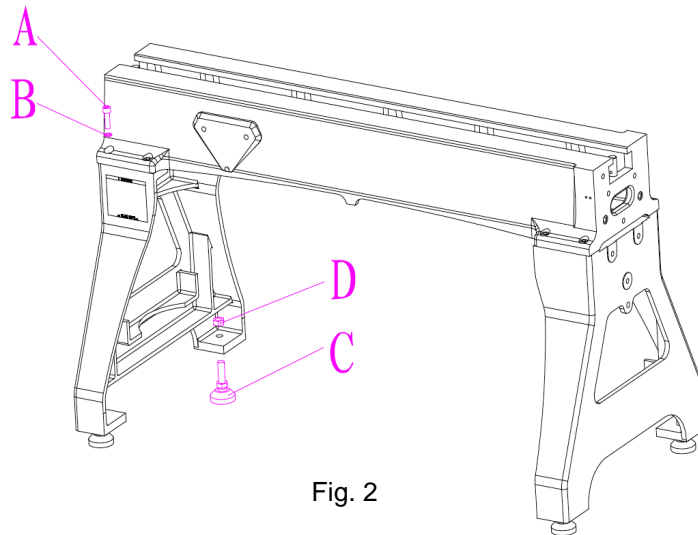


Fig. 2

Tool Storage Bracket (Fig. 3)

The tool storage bracket D can be mounted to the left end of the lathe. Use two 12mm head cap screws A with flat C and spring washers B to secure it to the lathe.

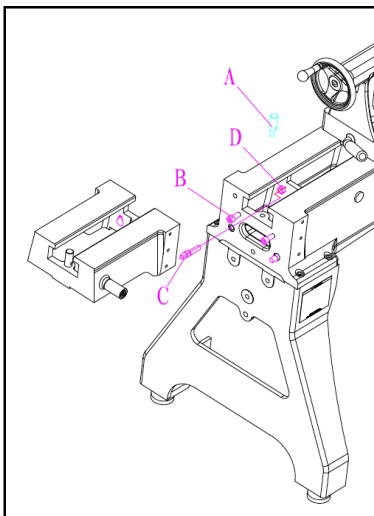


Fig. 3

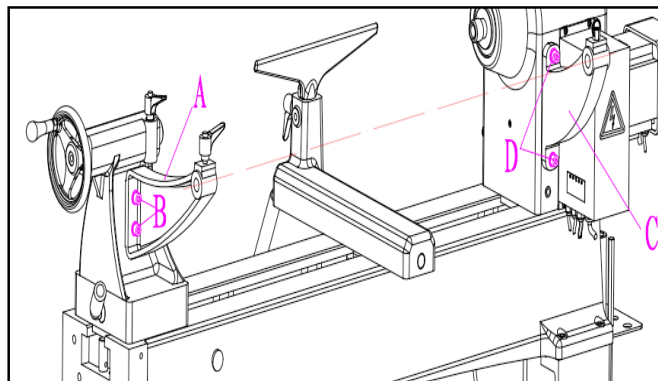


Fig. 4

Comparator Brackets (Optional)

See Fig.4, mount the front comparator bracket C to the back of the headstock with two 12mm socket head cap screws. This bracket can be also used for spindle shield guard mounts.

Rear comparator bracket should be mounted to the back of the tailstock. The bracket has a slot so it can be aligned with the front comparator bracket. Use two 12mm head cap screws to secure rear comparator bracket to the tailstock

Spindle Shield (Optional) - Fig. 5

- 1, Lift up the spring pin B and insert the support rod A into the bracket hole. Release the spring pin, slide the rod and you will feel the spring pin snap onto position.
- 2, Install the outer collar C and tighten the set screw D.

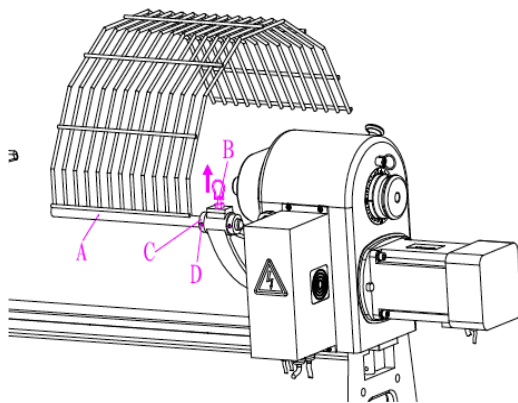


Fig. 5

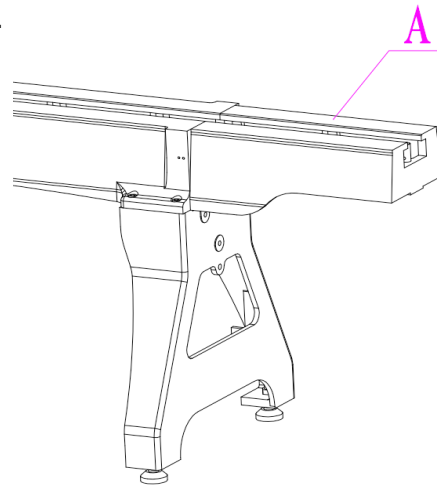


Fig.6

20" Extension Bed (Optional)

An optional 20" extension bed can be mounted on the lathe in three locations:

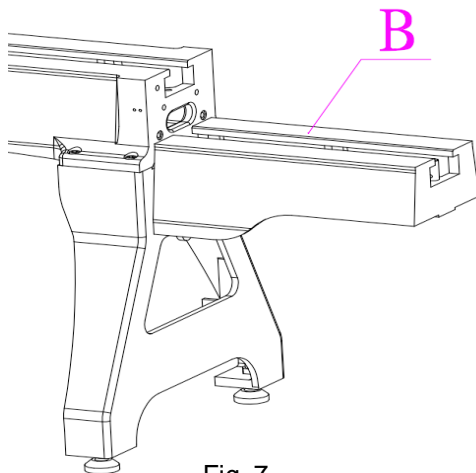


Fig. 7

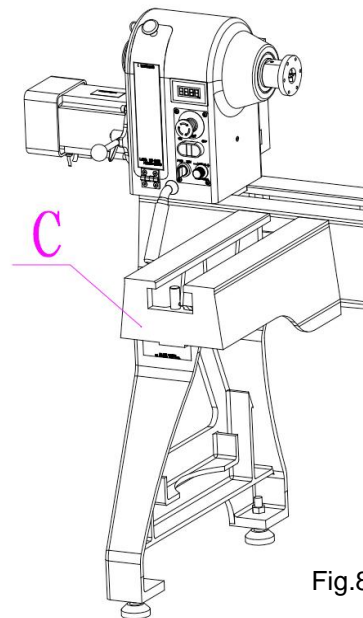


Fig.8

A: Right end of bed: for up to 56" center distanc (Fig. 6).
 B: Right leg: for outboard turning (Fig.7)
 C:Front bed: for convenience operation (Fig.8)

12" Swing away Extension Bed (Standard for T-60, Optional for T-50)

12" swing away bed is standard for T60 lathe (pre-installed before delivery).

If you purchase the Swing Away Bed System as optional accessory, please follow the instructions as below:

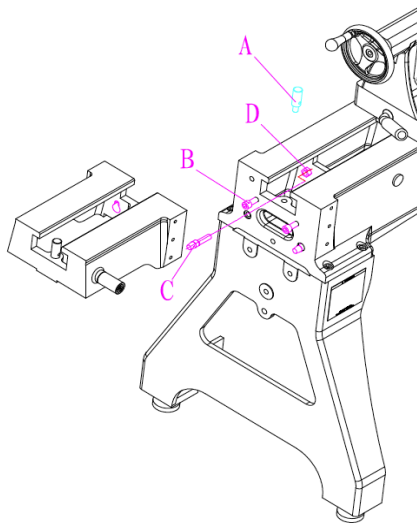


Fig. 9

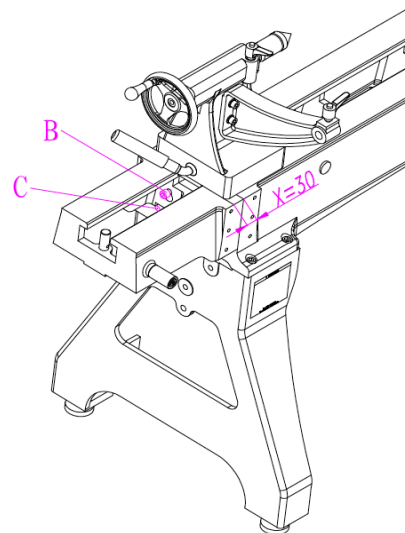


Fig. 10

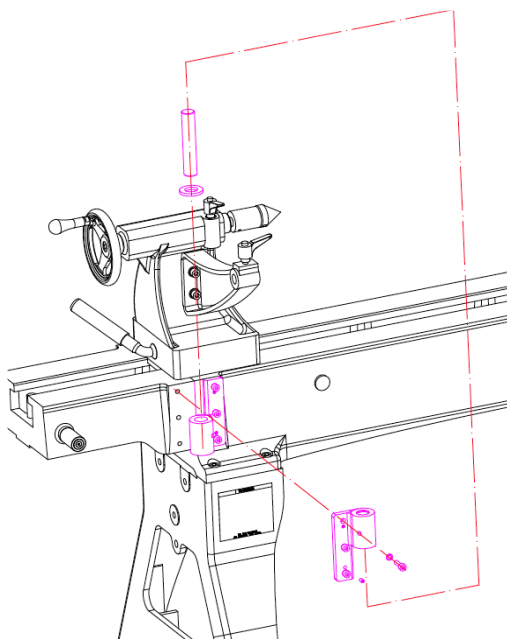


Fig. 11

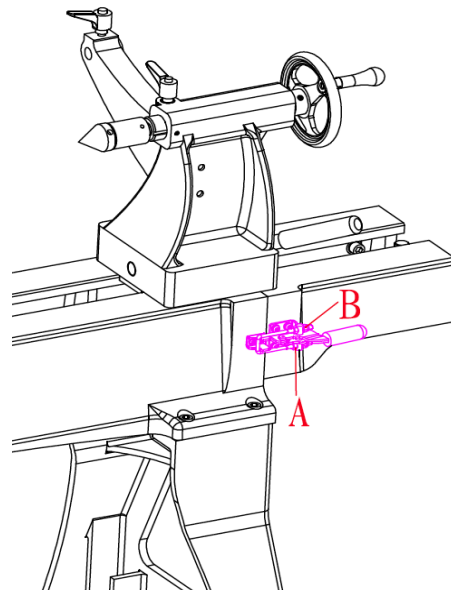


Fig. 12

- 1, With an assistant, attach the extension bed to lathe bed right end with two head cap bolts B. Slightly tighten the bolts. These two bolts must be taken off as soon as swing away system assembly is completed (Fig.9)
- 2, Adjust the extension bed flush to the lathe bed. Make sure inside ways and surfaces are aligned.
- 3, Slide the tailstock back to the position as show in figure. $X=30\text{mm}$ or $1\text{-}1/2''$ (Fig. 10)
- 4, Rotate the lock handle until the tailstock locked firmly. Now the extension bed is well aligned with lathe bed (Fig. 11)
- 5, Put the two eccentric pivot pins in lathe bed, turn the pins until it slightly touch extension bed bottom. Secure pivot pins with nuts D (Fig.9)
- 6, Mount the hinge between lathe bed and extension bed with head cap screws, spring washers and flat washer (Fig.11). **Do not** tighten head cap screws at this moment. Use alan wrench to tun the set screws until it hit beds. Then firmly tighten bolts.
- 7.,Mount clamping device on both lathe and extension bed as shown on Fig.12.

Operation of Lathe

Control Panel Information (Fig. 13)

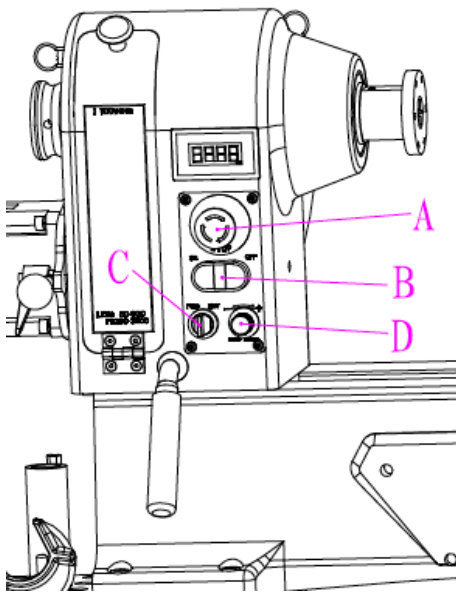


Fig. 13

A, Spindle speed readout: Indicates the spindle speed in RPM.

B, On/Off Switch: Turns lathe ON and OFF
NOTE: If a sudden power failure occurs, the spindle will not re-start automatically when the power is restored to the machine. Push the off button **C** to reset the switch, and then press the on button **D** to restart the lathe.

C, Spindle direction switch: Toggles the spindle direction between forward or reverse.
 Forward: Spindle rotates towards you;
 Reverse: Spindle rotates away from you;

D, Speed control knob: Adjust the spindle speed within the range.

Change Over of low-high speed ranges

This lathe is designed with two speed ranges (Low/High speed range) , within each range, speed can be changed variably by an electronic variable speed controller. To change the spindle speed range, please follow instructions as below (Fig 14):

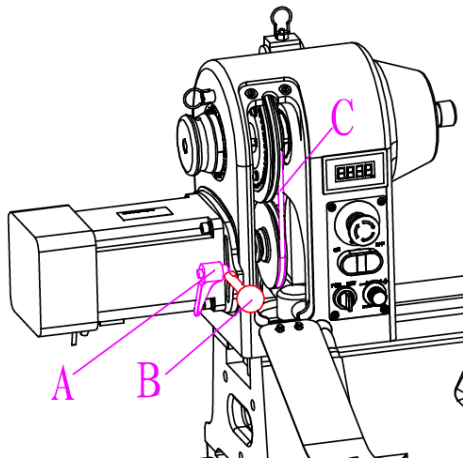


Fig.14

- 1, Unplug the lathe from the power source.
- 2, Open the magnetic belt cover which is located on the headstock.
- 3, Loosen lock lever A and pull the belt tension release lever B.
- 4, Place the belt C in the desired speed range.
- 5, Rotate the spindle by hand and make sure the pulley grooves are aligned with the belt grooves and the belt runs smooth.
- 6, Pushing the tension release lever properly and tighten the lock lever A.

Note: The best belt tension should be that when pressing belt on the middle by one finger, the belt deflects about 1/4" -1/2" (about 6-12mm)

Note: Always use the lowest speed of the range when starting lathe

For best turning result, find the following recommended spindle speed chart:

Diameter of wood-stock	Rough cutting	General cutting	Finishing/Sanding
under 50mm	1600rpm	3500rpm	3500rpm
50-100mm	800rpm	1600rpm	2500rpm
100-150mm	500rpm	1100rpm	1700rpm
150-200mm	400rpm	800rpm	1250rpm
200-250mm	300rpm	700rpm	1000rpm
250-300mm	250rpm	550rpm	900rpm
300-400	200rpm	450rpm	680rpm
400-500mm	150rpm	350rpm	550rpm
500-600mm	100rpm	280rpm	400rpm
more than 600mm on out board turning	80rpm	200rpm	300rpm

Tool Rest Base (Banjo)

The Banjo is designed with cam-lock system. it can slide along the bed freely when unlocked. Loosen the locking handle and move the Banjo to the desired place. Lock the lever firmly after adjustment.

Tool Rest

A 14" tool support is provided with your lathe as standard. It is designed to allow adjustment for height and angle. Loosen the locking lever to raise or lower the tool rest and angle it to the work. Tighten the handle before operating the Lathe.

The locking lever can be inserted into one of three holes on the tool rest base.

Headstock, Tailstock

Both headstock and tailstock can slide along the bed. Loosen the locking lever and move the Headstock or Tailstock to a desired place. Tighten the lever firmly after adjustment.

CAUTION: Always Unplug the lathe from the power source before headstock adjusting.

Spindle Centers installation/removing

- 1, Unplug the lathe from the power source.
- 2, Make sure the taper of center and the spindle tapered hole are clean and free of debris. Then push the center into the spindle tapered hole for installation.
- 3, To remove the center, insert the knockout rod from back hole in end of spindle and tap the center end (Fig. 15) out.

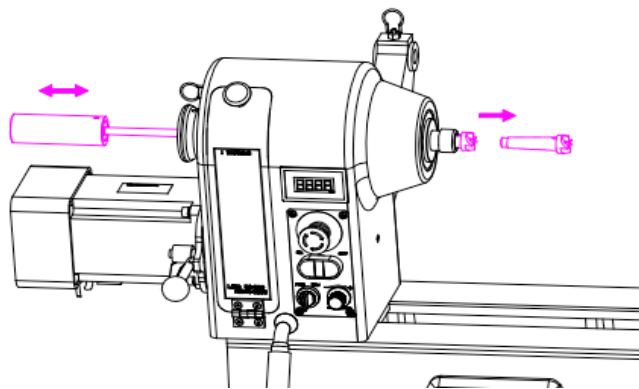


Fig. 15

Faceplate-Mounting and Removing

- 1, Unplug the lathe from the power source.
- 2, Mount the faceplate to the workpiece.
- 3, Install the face plate onto the spindle thread and turn it clockwise

- 4, Insert lock rod A (Fig.16) into handwheel hole. Hold the rod and tighten the faceplate with faceplate wrench.
- 5, There is a set screw on face plate. Please tighten it when you work with the lathe in reverse rotation.

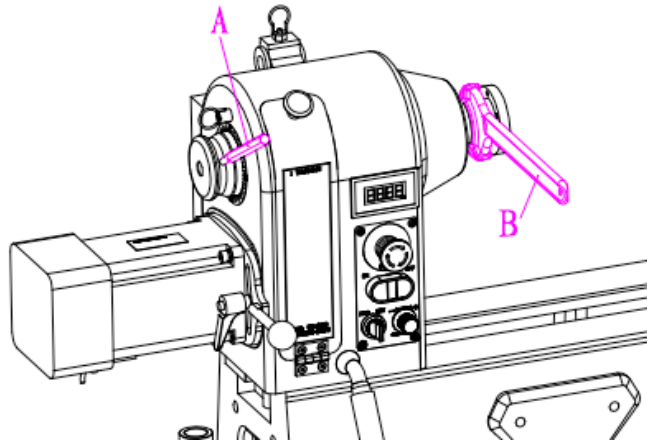


Fig. 16

Tailstock Quill

The tailstock quill can be turned in and out by turning the quill handwheel. A locking lever is used for secure the quill in position.

Tailstock centers Installation/removing

- 1, Make sure the taper of the center and the quill hole are clean and free of debris. Then push the center into the quill hole. The taper contact will hold the center securely.
- 2, To remove the center from tailstock, loosen the tailstock locking lever and move the quill out by turning the quill hand wheel until the quill end is almost inside the tailstock, then the center can be taken out by hand.

MAINTENANCE

Daily:

Clean off dust;
Clean and apply rust-proof oil on spindle and tailstock quill, bed ways.

Monthly:

Check belt tension;
Replace belt if it is damaged or worn;
Clean off dust from pulleys if any.

PARTS LIST / DIAGRAMS

Parts List For models T-50 and T-60

Note: The parts for T-50 and T-60 lathes are mostly the same, except for some parts are different which are underlined below and clearly specified for T-50 or T-60.

Index No.	Part No.	Description	Size	Qty
1	<u>HWT50-01-10</u>	<u>Headstock Casting for T-50</u>	T-50	1
1A	<u>HWT60-01-10</u>	<u>Headstock Casting for T-60</u>	T-60	1
2	HWT50-01-30	Lock Handle		1
3		Rubber Sleeve	¢ 21.5×120	3
4	HWT50-01-34	Position Pin	M6- ¢ 5	4
5	HWT50-01-31	Lock Shaft		2
6	HWT50-01-32	Clamp Block		3
7	GB/T 889.1-2000	Lock Nut	M20	3
8	HWT50-01-33	Position Block		3
9	GB/T70.2-2000	Round Head screw	M6×16	11
10	GB/T117	Taper Pin	6×20	8
11	HWT50-01-11	Spindle		1
12	6209/P6-2RZ	Ball Bearing		2
13	HWT50-01-12	Separate Ring		1
14	6208/P6-2RZ	Ball Bearing		1
15		Gasket		1
16	HWT50-01-13	Lock Nut		1
17	<u>7M650</u>	<u>Motor Belt for T-50</u>	T-50	1
17A	<u>7M750</u>	<u>Motor Belt for T-60</u>	T-60	1
18	HWT50-01-17	Pulley		1
19	GB/T 1096	Flat Key	10×25	1
20	GB/T 77-2000	Set Screw	M6×12	6
21	HWT50-01-15	Position disc		1
22	GB/T 70.2-2000	Round Head Screw	M6×12	3
23	GB/T 93-1987	Spring Washer	6	3
24	GB/T 97.1-1985	Flat Washer	6	3

25	HWT50-01-27	Position Pin		1
26	GB/T 889.1-2000	Lock Nut	M12	1
27	HWT50-01-14	Degree Indicator		
28	HWT50-01-16	Spindle Hand-wheel		1
29	<u>HWT50-01-35</u>	<u>Cover for T-50</u>	<u>T-50</u>	1
29A	<u>HWT60-01-35</u>	<u>Cover for T-60</u>	<u>T-60</u>	1
30		Hinge		1
31	GB/T70.3-2000	Hex Socket Cap screw	M5×14/16	4
32	GB/T 97.1-1985	Flat Washer	5	8
33	GB/T 889.1-2000	Hex Nut	M5	2
34	HWT50-06-03	Speed Step Indicator		1
35	HWT50-01-38	Button		1
36	GB/T 70.1-2000	Hex Socket Cap screw	M8×16	
37		Magnet	D15×5- ϕ 4	2
38	GB/T 70.3-2000	Hex Socket Cap screw	M4×12	2
39	GB/T 889.1-2000	Hex Nut	M4	2
40	<u>HWT50-04-02</u>	<u>DC Motor Driver for T-50</u>	<u>2HP, T-50</u>	1
40A	<u>HWT60-04-02</u>	<u>DC Motor Driver for T-60</u>	<u>3HP, T-60</u>	1
41	HWT50-04-06	Wire		1
42	HWT50-04-05	Wire		1
43		Wire		1
44		Wire		1
45		Wire		1
46		Wire Indicator		1
47		Voltage Label	80	1
48	<u>HWT50-06-06</u>	<u>Motor Driver Label</u>	<u>T-50</u>	1
48A	<u>HWT60-06-06</u>	<u>Motor Driver Label</u>	<u>T-60</u>	1
49	GB/T 70.2-2000	Hex Socket Cap screw	M5×16	4
50	GB/T 93-1987	Spring Washer	5	6
51	HWT50-04-03	Speed DRO		1
52	HWT50-04-13	Cover		1
53	GB/T 70.2-2000	Cross Head Screw	M5×10	4
54		Emergency Stop Label	ϕ 22-60	1

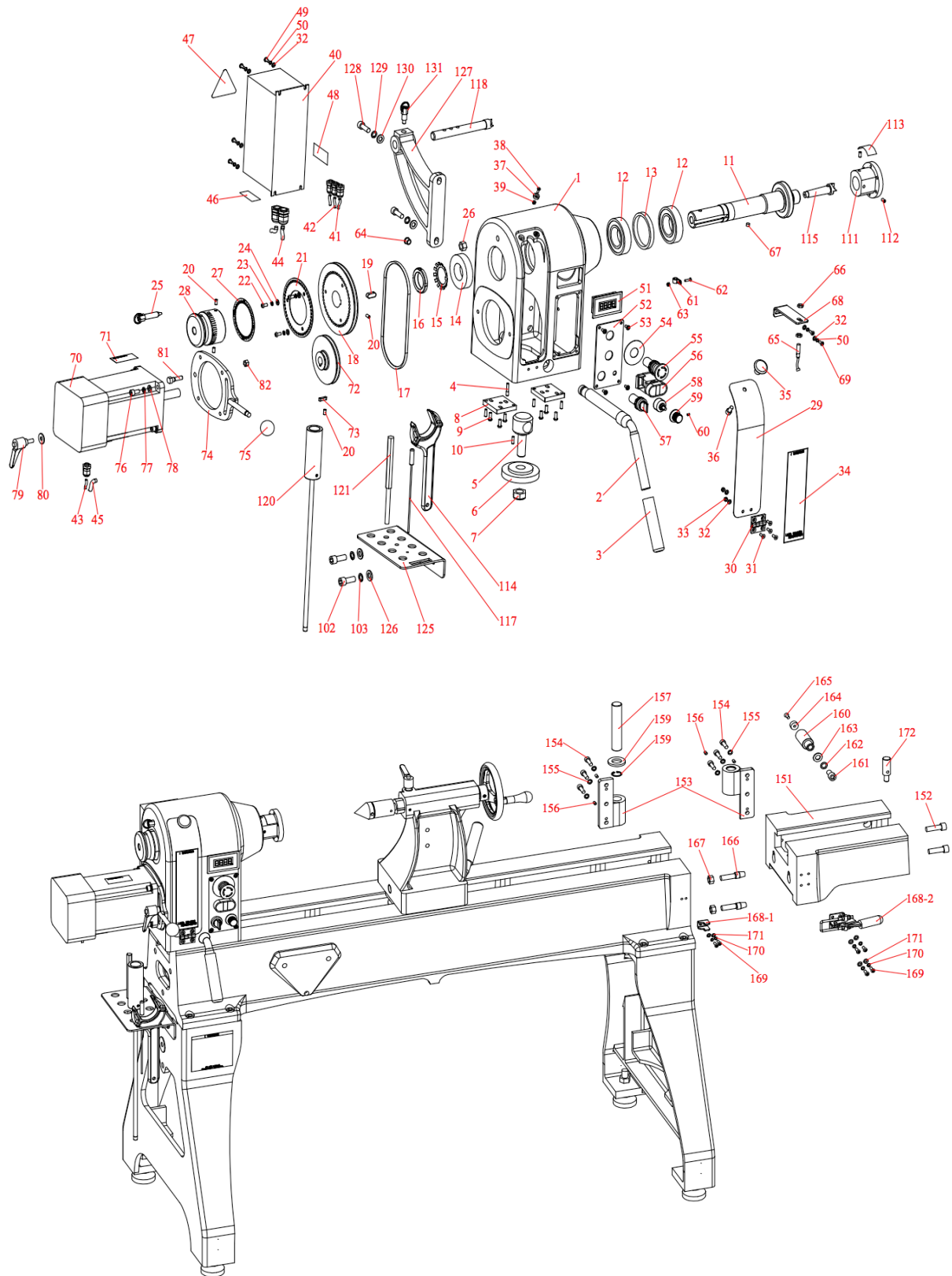
55	Ce4T-10R-01	Emergency Stop Button		1
56	MPD2-11B	On/Off Switch		1
	McBH-00	Bracket		1
	McB-10	Contact Point		1
	McB-01	Contact Point		1
57	C3SS1-10B-20	Three-position Switch		1
58		Speed Controller		1
59	HWT50-04-15	Speed Adjusting Button		1
60	GB/T 77-2000	Hex Socket Cap screw	M4×6	1
61		Cable Clamp	10.4mm	1
62	GB/T 70.2-2000	Hex Socket Cap screw	M4×16	1
63	GB/T 889.1-2000	Hex Nut	M4	1
64		Cable Clamp		1
65	HWT50-04-04	Switch		1
66	GB/T 6173-2000	Hex Nut	M8	2
67		Magnet	D8×5	2
68	HWT50-04-11	Switch Bracket		1
69	GB/T 70.2-2000	Round Head Screw	M5×12	2
70	HWT50-04-01	<u>2HP DC motor for T-60</u>	<u>HBL-124IM-2HP-L</u>	1
70A	HWT60-04-01	<u>3HP DC motor for T-60</u>	<u>HBL-124IM-3HP-L</u>	1
71	<u>HWT50-06-05</u>	<u>Motor Label</u>	<u>T-50</u>	1
71A	<u>HWT60-06-05</u>	<u>Motor Label</u>	<u>T-60</u>	1
72	HWT50-01-18	Pulley		1
73	GB/T 1096	Key	6×22	1
74	HWT50-04-10	Flange		1
75	JB/T7271.1-1994B	Handle Ball	M10×32	1
76	GB/T 70.1-2000	Hex Socket Cap screw	M8×25	4
77	GB/T 93-1987	Spring Washer	8	4
78	GB/T 97.1-1985	Flat Washer	8	4
79		Adjusting Handle	M8×20	1
80	GB/T 96-1985	Flat Washer	8	1
81	HWT50-04-12	Motor Screw		1

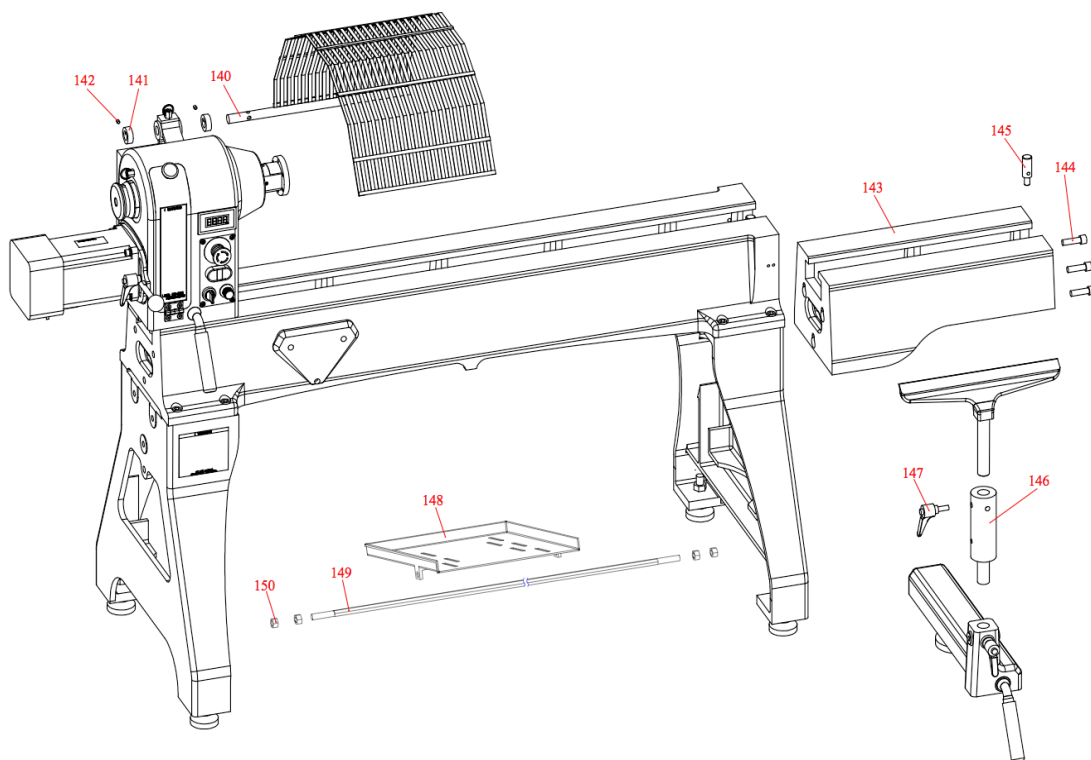
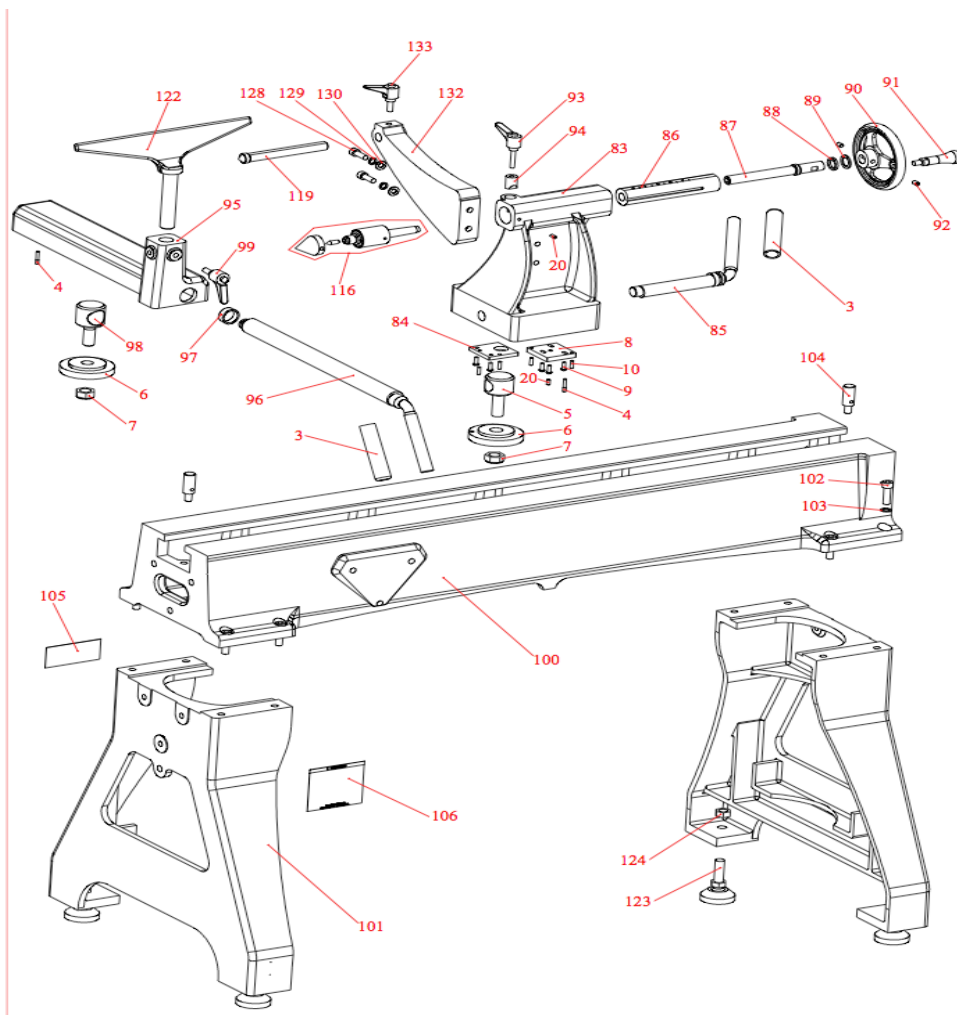
82	GB/T 889.1-2000	Hex Nut	M8	1
83	<u>HWT50-02-01</u>	<u>Tail stock for T-50</u>	<u>T-50</u>	1
83A	<u>HWT60-02-01</u>	<u>Tail Stock for T-60</u>	<u>T-60</u>	1
84	HWT50-02-11	Position Block		1
85	HWT50-02-10	Lock Handle		1
86	HWT50-02-02	Sleeve		1
87	HWT50-02-03	Lead Screw		1
88	HWT50-02-04	Position Ring		1
89	HWT50-02-05	Washer		1
90	HWT50-02-06	Hand Wheel		1
91	HWT50-02-07	Handle		1
92	GB/T 77-2000	Set Screw	M8×10	2
93		Adjusting Handle	M10×45	1
94	HWT50-02-08	Lock Block		1
95	HWT50-03-01	Tool-post Base		1
96	HWT50-03-03	Lock Handle		1
97	HWT50-03-06	Brass Sleeve		1
98	HWT50-03-04	Lock Shaft		1
99		Adjusting Handle	M10×25	1
100	HWT50-01-01	Bed		1
101	HWT50-01-02	Stand		2
102	GB/T70.1-2000	Hex Socket Cap screw	M12×40	10
103	GB/T 93-1987	Spring Washer	12	10
104	HWT50-01-37	Position Pin		2
105	HWT50-06-01	<u>Specs Label for T-50</u>	<u>T-50</u>	1
105A	HWT60-06-01	<u>Specs Label for T-60</u>	<u>T-60</u>	1
106	HWT50-06-02	Safety Label		1
Standard Accessories				
111	HWT50-01-51	Face Plate	3"	1
112	GB/T 77-2000	Set Screw	M6×10	2
113	HWT50-06-04	Alert Label		1

114	HWT50-01-52	Wrench		1
115	HWT50-01-40	Dead Center		1
116	HWT50-01-41	Live Center		1
117	HWT50-01-42	Knockout Bar		1
118	HWT50-01-43	Profiling Center		1
119	HWT50-01-44	Profiling Center		1
120	HWT50-01-45	Knockout Rod		1
121	HWT50-01-55	Spindle Locating Rod		
122	HWT50-03-02	Tool Rest		1
123		Leveler	M16x65	4
124	GB/T 6176-2000	Hex Nut	M16	4
125	HWT50-01-50	Tool Holder		1
126	GB/T 97.1-1985	Flat Washer	12	2
127	HWT50-01-03	Support Bracket	20"	1
128	GB/T70.1-2000	Hex Socket Cap screw	M10x30	4
129	GB/T 93-1987	Spring Washer	10	4
130	GB/T 97.1-1985	Flat washer	10	4
131	HWT50-01-28	Position Pin	M12- ϕ 8	1
132	HWT50-01-04	Rear Support Bracket	20"	1
133		Adjusting Handle	M10x25	1
Optional Accessories				
140	HWT50-01-57	Spindle Guard		1
141	HWT50-01-58	Guard Position Ring		2
142	GB/T 77-2000	Set Screw	M6x8	4
143	HWT50-05-01	Extension Bed	20 "	1
144	GB/T70.1-2000	Hex Socket Cap screw	M12x40	3
145	HWT50-01-37	Position Pin		1
146	HWT50-05-02	High Tool-rest Bar		1
147		Adjusting Handle	M10x20	1
148	HWT50-01-53	Chisel Storage Pan		1
149	HWT50-01-54	Chisel Storage Rod		1
12" Swing-Away Extension Bed (Standard For T-60)				

150	GB/T 6170-2000	Hex Nut	M12	4
151	HWT50-05-05	Swing Extension Bed	12"	1
152	GB/T70.1-2000	Hex Socket Cap screw	M12x40	2
153	HWT50-05-06	Hinge		2
154	GB/T 70.1-2000	Hex Socket Cap screw	M8x25	6
155	GB/T 93-1987	Spring Washer	8	6
156	GB/T 77-2000	Set Screw	M6x10	4
157	HWT50-05-07	Hinge Shaft		1
158	HWT50-05-10	Brass Sleeve		1
159	GB/T 893.1-1986	Retaining Ring	25	1
160	HWT50-05-08	Locating Shaft		1
161	GB/T70.1-2000	Hex Socket Cap screw	M12x20	1
162	GB/T 93-1987	Spring Washer	12	1
163	GB/T 97.1-1985	Flat Washer	12	1
164		Magnet	D20x10- Φ 6	1
165	GB/T 70.3-2000	Hex Socket Cap screw	M6x16	1
166	HWT50-05-09	Position Pin		2
167	GB/T 6170-2000	Hex Nut	M12	2
168	GTY-431SS	Bed Lock Assy		1
169	GB/T 70.2-2000	Hex Socket Cap screw	M6x16	6
170	GB/T 93-1987	Spring Washer	6	6
171	GB/T 97.1-1985	Flat Washer	6	6
172	HWT50-01-37	Position Pin		1

Parts Diagrams





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