



**CT122 (2HP) & CT123 (3HP)
TWO STAGE CYCLONE DUST COLLECTORS**



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2HP/3HP TWO STAGE DUST CYCLONE
CT122/CT123
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GENERAL SAFETY INSTRUCTIONS

EXTREME CAUTION SHOULD BE USED IN OPERATING ALL POWER TOOLS. KNOW YOUR POWER TOOL, BE FAMILIAR WITH ITS OPERATION. READ THE OWNER'S MANUAL AND PRACTICE SAFE USAGE PROCEDURES AT ALL TIMES.

- ❑ **CONNECT** your machine **ONLY** to the matched and specified power source.
- ❑ **WEAR SAFETY GLASSES, RESPIRATORS, HEARING PROTECTION and SAFETY SHOES** when operating heavy machinery. **Always wear safety glasses.**
- ❑ **DO NOT** wear loose clothing or jewellery when operating machinery.
- ❑ **A Safe Environment is important.** Keep the area free of dust, dirt and other debris in the immediate vicinity of the machine.
- ❑ **BE ALERT!** Do Not Use prescription or other drugs that may affect your ability or judgement to safely use this machine.
- ❑ **DISCONNECT** the power source when making adjustments or cleaning the filter
- ❑ **NEVER** leave an operating tool unattended.
- ❑ **ALWAYS** keep all safety guards in place and ensure their proper function.
- ❑ **ALWAYS** make sure that any tools used for adjustments are removed before operating the machine.
- ❑ **ALWAYS** secure your work with the appropriate clamps or vices.
- ❑ **ALWAYS** keep bystanders safely away while operating machinery.
- ❑ **THINK SAFETY. WORK SAFELY.** Never attempt a procedure if it does not feel safe or comfortable.

IMPORTANT SAFETY RULES FOR DUST COLLECTORS

WARNING: Basic precautions should always be followed when using your dust collector. To reduce the risk of injury, electrical shock or fire, comply with the safety rules listed below:

1. READ and understand the instruction manual before operating the dust collector.
2. DO NOT leave the dust collector plugged into the electrical outlet. Unplug dust collector from outlet when not in use and before servicing, changing bags, unclogging and cleaning.
3. ALWAYS turn the power switch "OFF" before unplugging the dust collector.
4. **WARNING: TO REDUCE THE RISK OF ELECTRICAL SHOCK** do not use outdoors or on wet surfaces. Use for dry pickup only!
5. FOLLOW all electrical and safety codes, including the National Electric Code (NEC) and the Occupational Safety and Health Regulations (OSHA). Qualified personnel should make all electrical connections and wiring only.
6. DO NOT use the dust collector to pick up flammable or combustible liquids, such as gasoline. NEVER use the dust collector near any flammable or combustible liquids.
7. USE the dust collector to pick up wood materials only. DO NOT use the dust collector to pick up metal shavings, dust, water, or parts.
8. NEVER use the dust collector to dissipate fumes or smoke. NEVER pick-up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
9. USE only as described in this manual.
10. DO NOT pull the dust collector by the power cord. NEVER allow the power cord to come in contact with sharp edges, hot surfaces, oil or grease.
11. DO NOT unplug the dust collector by pulling on the power cord. ALWAYS grasp the plug, not the cord.
12. DO NOT handle the plug or dust collector with wet hands.
13. REPLACE a damaged cord immediately. DO NOT use a damaged cord or plug. If the dust collector is not operating properly, or has been damaged, left outdoors or has been in contact with water, return it to an Authorized Service Center for service.
14. DO NOT use the dust collector as a toy. DO NOT use near or around children.
15. DO NOT insert fingers or foreign objects into the dust intake ports. Keep hair, loose clothing, fingers, and all body parts away from openings and moving parts of the dust collector.
16. DO NOT use the dust collector without a filter bag and dust collection bag in place and properly secured.
17. DO NOT operate the dust collector with unused dust intake ports uncapped. ALWAYS cover exposed dust intake ports.
18. PERIODICALLY INSPECT dust and filter bags for any cuts, rips or tears. NEVER operate the dust collector with a damaged bag or vacuum hose.
19. The dust collector is designed for home use or light commercial duty ONLY!
20. CONNECT dust collector to a properly grounded outlet only. See Grounding Instructions.

SAVE THESE INSTRUCTIONS

GROUNDING INSTRUCTIONS

This appliance must be grounded, if it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having equipment-ground conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet have a proper outlet installed by a qualified electrician.

For grounded, cord – connected appliances:

This appliance is for use on a circuit having a normal rating more than 120volt and is factory – equipped with a specific electric cord and plug to permit connection to a proper electric circuit. Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adaptor should be used with this appliance. If the appliance must be reconnected for use on a different circuit, qualified service personnel should make the reconnection.

For permanently connected appliance:

This appliance must be connected to a ground metal, permanent wiring system; or an equipment – grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the appliance.

2HP TWO STAGE DUST CYCLONE CT122

As part of the growing line of Craftex Woodworking equipment, we are proud to offer you the CT122 2HP Two Stage Dust Cyclone. The Craftex name guarantees craft excellence. By following the instructions and procedures in this manual you will receive years of excellent service and satisfaction.

SPECIFICATIONS

Motor	2HP/220V/1 Phase
AMP	12A
Motor Speed	3450 RPM
Suction Capacity	1450 CFM at 8" Inlet
Static Pressure	11.2 Inch of Water
Impeller Size	14"
Inlet Size	8"
Switch	Magnetic Switch
Overall Dimensions of Base	45.3" x 25.4"
Net Weight	120 KGS/ 264 LBS
Gross Weight	139 KGS/ 305 LBS
Overall Height	76 ½"

3HP TWO STAGE DUST CYCLONE CT123

As part of the growing line of Craftex Woodworking equipment, we are proud to offer you the CT123 3HP Two Stage Dust Cyclone. The Craftex name guarantees craft excellence. By following the instructions and procedures in this manual you will receive years of excellent service and satisfaction.

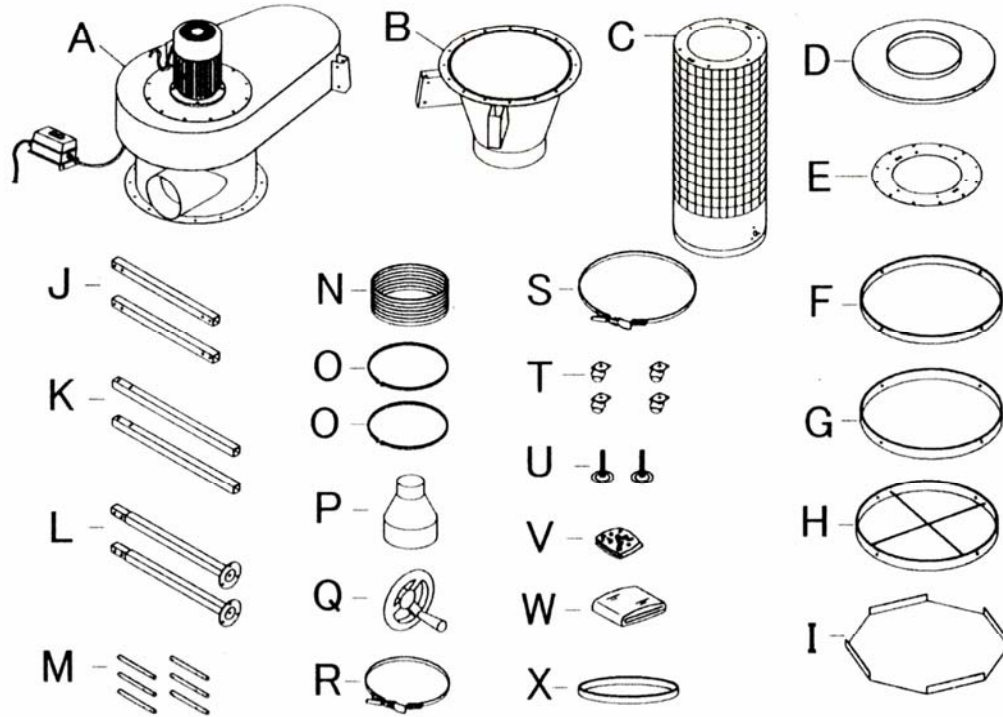
SPECIFICATIONS

Motor	3HP/220V/1 Phase
AMP	18A
Motor Speed	3450 RPM
Suction Capacity	2100 CFM
Static Pressure	12.4 Inch of Water
Impeller Size	15"
Inlet Size	8"
Switch	Magnetic Switch
Overall Dimensions of Base	52.3" x 33.5"
Net Weight	148 KGS/ 326 LBS
Gross Weight	166 KGS/ 365LBS
Overall Height	89 1/4"

2HP CONTENTS LIST

UNPACKING & CHECKING CONTENTS:

With Canister Filter Condition



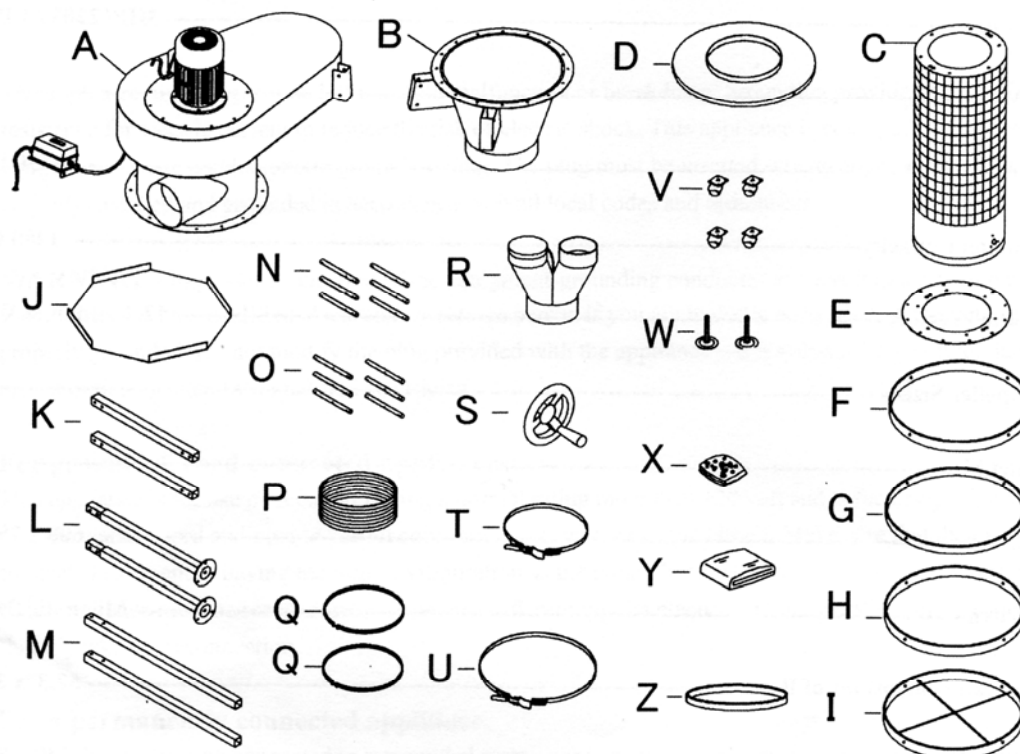
A: Dust Collector Housing
 B: Reducing Connector
 C: Canister Filter
 D: Drum Lid
 E: Filter Upper Plate
 F: Drum Support (1)
 G: Drum Support (2)
 H: Drum Support (3)
 I: Drum Base

J: Upper Rear Support Leg
 K: Front Support Leg
 L: Lower Rear Support
 M: Drum Support Rods
 N: Hose
 O: Hose Clamps
 P: Reducer
 Q: Hand Wheel
 R: Small Bag Clamp

S: Large Bag Clamp
 T: Drum Base Wheels
 U: Adjustable Feet
 V: Parts Bag
 W: Plastic Bag
 X: Foam Tape

3HP CONTENTS LIST

UNPACKING & CHECKING CONTENTS: A: With Canister Filter Condition



A: Dust Collector Housing	J : Drum Base	S: Canister Cleaning Wheel
B: Reducing Connector	K: Upper Rear Support Leg (2)	T: Small Plastic Bag Clamp
C: Canister Filter	L: Lower Rear Support Leg (2)	U: Large Plastic Bag Clamp
D: Drum Lid	M: Front Support Leg (2)	V: Drum Base Wheel (4)
E: Canister Filter Upper Plate	N: Upper Drum Support Rod (6)	W: Adjustable Feet (For Front Support)
F : Drum Support 1	O: Lower Drum Support Rod (6)	X: Parts Bag
G: Drum Support 2	P: 12" Hose	Y: Plastic Bag (x 2)
H: Drum Support 3	Q: Hose Clamp (2)	Z: Foam Tape
I : Drum Support 4	R: 8" x 4" Connector	

Assembly Instructions

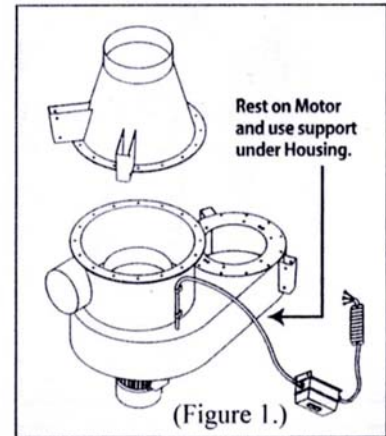
Step 1

- A. Place the collector housing upside down and rest on motor.

Note: Use a block or support, to place underneath the collector housing, for stability.

- B. Place the reducing connector on the top of the impeller housing and secure with fifteen $\frac{1}{4}$ " x 1" flange bolts(A), $\frac{1}{4}$ " washers (B), and $\frac{1}{4}$ " nuts (C). Secure the magnetic switch with two of the flange bolts in the proper holes provided.

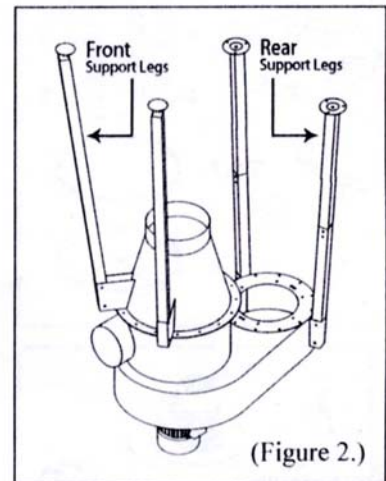
Fig. 1.



Step 2

- A. Attach the $\frac{5}{8}$ " adjustable feet to the front support legs using $\frac{5}{8}$ " nut (D).
- B. Assemble the upper and lower rear support legs together with eight $\frac{5}{16}$ " x $\frac{1}{2}$ " flange bolts (E).
- C. Insert the front and rear supports into the four channel brackets and secure with eight $\frac{5}{16}$ " x $2\frac{1}{2}$ " hex head screws (F), $\frac{5}{16}$ " washers (G) and $\frac{5}{16}$ " nuts (H).

Fig. 2



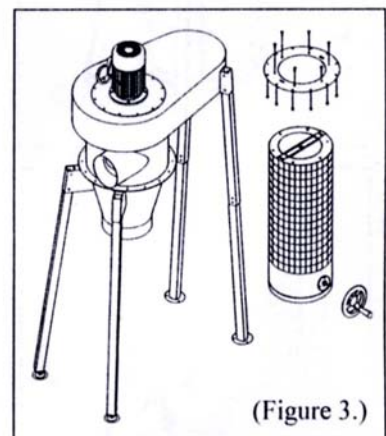
Step 3

- A. Turn the dust collector right side up.

Caution: This dust collector is heavy, use at least three people to: Lift motor end, Tilt up, Place on four legs. Be Careful when turning machine upright.

- B. Place the canister plate on the top of the canister and secure with six $\frac{5}{16}$ " x $\frac{1}{2}$ " flange bolts (I). Tighten the hand wheel on the canister.

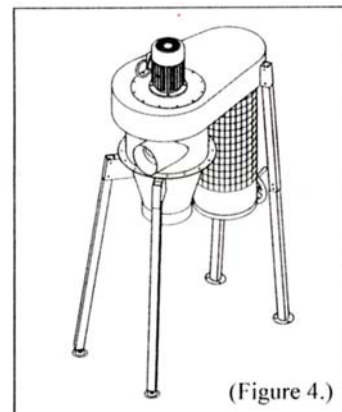
Fig. 3



Assembly Instructions

C. Mount the Canister to the dust collector housing with twelve 5/16" x 3/4" flange bolts.

Fig. 4.

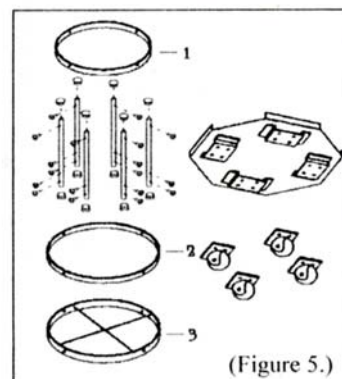


(Figure 4.)

Step 5

- A. Assemble the upper and lower drum support rods with six 1/4" x 3/8" phillips head screws (K). Assemble drum support 1),(2), (3), and (4) to the support rods with twenty-four 1/4" x 3/8" phillips head screws (K).
- B. Turn the drum base over and attach the four movable wheels with sixteen 3/16" x 3/8" phillips head screws (L).

Fig. 5

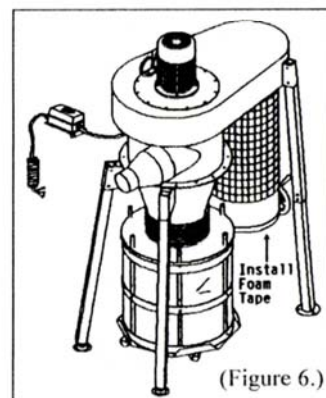


(Figure 5.)

C. Place the drum support inside the large plastic bag. Secure the bag to the top of the drum support using the large bag clamp. Place the drum lid on top of the drum support and connect the drum to the collector using the 12" hose and clamp.

D. Attach the foam tape to the bottom of the canister filter to form a airtight seal between the small plastic bag and small belt clamp.

Fig. 6

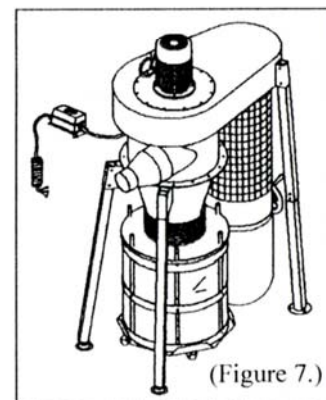


(Figure 6.)

Step 6

- A. Place the 8" x 4" connector on the inlet and secure with one 3/16" x 3/8" phillips head screw (L).
- B. Place the small plastic bag on the bottom of the canister and secure with small bag clamp.
- C. All the assembly steps are completed.

Fig. 7



(Figure 7.)

CYCLONE DESIGN

Design

If you have a small to medium size shop you should be able to design the dust collection system for your shop without the aid of professionals. There are many factors involved when designing how your shop should be laid out.

When you get into large shops there are more machines and factors to be taken into consideration. This is the time when the system becomes more complicated and the aid of a professional will make the process much easier.

The time has come to work out the details on how to make your dust collection system work to its full potential. This is accomplished by sketching the basic layout of your shop. The sketch should include the basic layout of the shop and the positioning of all machines and the dust collector.

The next step in this process is to determine the most effective way to install the duct work. A good guide line is to determine which machines generate the most saw dust, they should be placed closest to the dust collector.

There are many factors in determining how the duct work should flow. To start with anytime we change air flow direction this will increase the resistance to the airflow. Therefore they should be kept to a minimum, and when direction must be changed always use the largest radius you available.

A good system consists of 2 lines a main line and the secondary line. When possible the main line should run down the center of the shop. The secondary lines can now branch off to each machine, you will also have to install individual blast gates at each secondary line to control the suction from one machine to the other.

Another helpful tool is knowing the required CFM for each of your machines. All machines create a different amount of sawdust, and each machine requires X number of CFM to create efficient dust collection. Once you have established the required CFM for your machines this will help you to determine the size of duct you require for your dust collector.

The chart will help to determine the required CFM for your machines.
Fig: 1

Machine Dust Port Size	Approximate Required CFM
2"	98
2.5"	150
3"	220
4"	395
5"	614
6"	884
7"	1203
8"	1570
9"	1990
10"	2456

Fig. 1

Not all machines have dust ports so it can be hard to determine what size to install.

This chart will help you to effectively install the correct dust port for your machine.

Fig: 2

Machine	Average Dust Port Size
Table Saw	4"
Miter/Radial-Arm Saw	2"
Jointer-8" and smaller	4"
Thickness Planer -13" and smaller	4"
Thickness Planer -14"-20"	6"
Shaper	4"
Router-mounted to table	2"
Bandsaw.....	4"
Lathe.....	4"
Disc Sander -12" and smaller	2"
Belt Sander-6" and smaller	2"
Belt Sander -7"-9"	3"
Edge Sander-6" x 80" and smaller	4"
Edge Sander-6" x 80" and larger	5"
Drum Sander -24" and smaller	2 x 4"

Fig. 2

Maintenance

Emptying the Reservoir

You should empty the canister reservoir (plastic drum) when it is approx. $\frac{3}{4}$ full. If the drum is full and you continue to use the Cyclone, you may have larger dust particles enter the filter and damage the canister.

During your first few uses of the machine, continue to check the drum and to see how quickly it fills up. This will give a good idea about maintenance in the future. Machines such as table saws and sanders produce fine dust and will fill the drum slower than machines such as planers and jointers.

Cleaning the Filter

As you turn the flapper handles on the canister, you are cleaning the dust that clumps and resides together on the walls of the filters. You should repeat this exercise of full turns before and after each use to maintain longer life and optimize efficiency.

For a more thorough cleaning of the filter, you can rinse the filter. To do this, you must remove the filter all together and make sure you brush it first before beginning the rinse. After a light rinse, allow the filter to air dry. DO NOT place the filter under direct sunlight and or any type of heaters as this may damage the filter.

OPTIONAL ACCESSORIES

PVC FLEX HOSE

PH003 - 3" PVC Pipe ~ per foot, or 50 ft. Roll

PH004 - 4" PVC Pipe ~ per foot, or 50 ft. Roll

PH005 - 5" PVC Pipe ~ per foot, or 50 ft. Roll



Dust Accessories Kit For 4" Fittings

Model – W1055

Kit #2 to service two machines

Two blast gates, two 10' hoses, one table

saw hood, one universal hood, one "Y"

fitting, ten hose clamps

17 pieces



Dust Accessories Kit For 4" Fittings

Model – W1054

Kit #1 to service one machine

10' hose, one universal hood, two hose clamp

4 pieces



OPTIONAL ACCESSORIES



Blast Gates

W1006 – 3"

W1007 – 4"

W1008 – 5"



"T"

W1014 – 3"

W1013 – 4"



"Y"

W1016 – 3"

W1015 – 4"

B2500 – 5"



Reducers

W1011 – 4" - 3"

W1044 – 4" - 2 ½"

W1027 – 5" – 4"



Elbows

W1012 – 3"

W1017 – 4"

W1029 – 4" with flange



Hose Clamps

PH003CW

PH004CW

PH005CW

Call 1-800-461-BUSY or visit www.busybeetools.com for current pricing.



CRAFTEX 3 YEAR LIMITED WARRANTY

Craftex warrants every product to be free from defects in materials and agrees to correct such defects where applicable. This warranty covers **three years** for parts and 90 days for labour (unless specified otherwise), to the original purchaser from the date of purchase but does not apply to malfunctions arising directly or indirectly from misuse, abuse, improper installation or assembly, negligence, accidents, repairs or alterations or lack of maintenance.

Proof of purchase is necessary.

All warranty claims are subject to inspection of such products or part thereof and Craftex reserves the right to inspect any returned item before a refund or replacement may be issued.

This warranty shall not apply to consumable products such as blades, bits, belts, cutters, chisels, punches etceteras.

Craftex shall in no event be liable for injuries, accidental or otherwise, death to persons or damage to property or for incidental contingent, special or consequential damages arising from the use of our products.

RETURNS, REPAIRS AND REPLACEMENTS

To return, repair, or replace a Craftex product, you must visit the appropriate Busy Bee Tools showroom. Craftex is a brand of equipment that is exclusive to Busy Bee Tools. For replacement parts directly from Busy Bee Tools, for this machine, please call 1-800-461-BUSY(2879), and have your credit card and part number handy.

- All returned merchandise will be subject to a minimum charge of 15% for re-stocking and handling with the following qualifications.
- Returns must be pre-authorized by us in writing.
- **We do not accept collect shipments.**
- Items returned for warranty purposes must be insured and shipped pre-paid to the nearest warehouse (see locations on inside back cover of this manual).
- Returns must be accompanied with a copy of your original invoice as proof of purchase. Returns must be in an un-used condition and shipped in their original packaging a letter explaining your reason for the return. Incurred shipping and handling charges are not refundable.
- Busy Bee will repair or replace the item at our discretion and subject to our inspection.
- Repaired or replaced items will be returned to you pre-paid by our choice of carriers.
- Busy Bee reserves the right to refuse reimbursement or repairs or replacement if a third party without our prior authorization has carried out repairs to the item.
- Repairs made by Busy Bee are warranted for 30 days on parts and labour.
- Any unforeseen repair charges will be reported to you for acceptance prior to making the repairs.
- The Busy Bee Parts & Service Departments are fully equipped to do repairs on all products purchased from us with the exception of some products that require the return to their authorized repair depots. A Busy Bee representative will provide you with the necessary information to have this done.
- For faster service it is advisable to contact the nearest Busy Bee location for parts availability prior to bringing your product in for repairs.

busybeetools.com

