

# **Grinder Dolly For 9" Hand Grinders SAFETY & OPERATORS MANUAL & PARTS LISTING**



**DESIGNED & BUILT IN AUSTRALIA**

V060314

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## **Safety instructions**

1. Read and understand the instructions on the machine and in this manual and engine manual (if applicable). Different models may have different parts and controls.
2. Equipment should only be operated by trained personnel, in good physical condition and mental health (not fatigued). The operator and maintenance personnel must physically be able to handle the bulk weight and power of this machine.
3. The Dolly must only be used according to the instructions given in this manual. Any other work methods or practices could result in injury or death
4. **This is a one person machine. Maintain a safe operating distance to other personnel. Remember 'one machine, one operator'.**
5. This equipment is intended for commercial use.
6. For **the operators' safety** and the safety of others, always keep all guards and shrouds in place.
7. Never start or run machine when it is unattended.
8. This machine is only intended for use on floor surfaces such as concrete, terrazzo and other hard floor surfaces.
9. Never start or run machine when disk(s) are not in contact with the surface.
10. Do not lend or rent machine without the operating and safety instructions for the machine (and the engine, if applicable).
11. Wear clothing suitable for the job and for the work place including, safety shoes, hard hat, hearing protection, non-fogging vented safety goggles, and dust mask suitable for dust.
12. Keep body parts or any loose clothing away from moving parts. Failure to comply could result in bodily injury.
13. Do not modify machine in any way. Only use genuine parts and accessories.
14. Repairs should be performed by qualified persons only.
15. Ensure parts have stopped moving and disconnect power or spark plug when servicing or changing blades or accessories.
16. Never operate machine in rain or if heavy moisture is present.
17. Petrol is extremely flammable and poisonous. Petrol should only be dispensed in well ventilated areas, and only when engine is cool.

**Safety instructions**

18. WARNING! POISONOUS EXHAUST GASES. Do not operate petrol powered equipment, including generators, without adequate ventilation. Carbon monoxide is an invisible odourless gas that can harm or can kill.
19. Do not operate Dolly with any covers or doors removed or open.
20. The Dolly can produce sound pressure levels greater than 85db. The operator must wear approved safety ear protection.
21. Do not allow the supply cord to come in contact with the cutting blade/head or other moving parts of this machine.

Assembly instructions

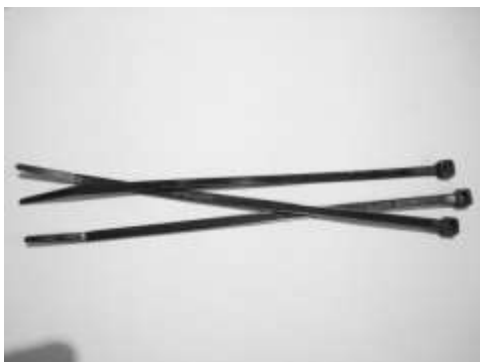
- 22. The Dolly is designed to be fitted to Metabo 9" Hand grinders that has a suitable diamond disk and a dust shroud fitted to it. The intention is that the hand grinder can be used without the user being on their hands knees.
- 23. Other Brands of hand Grinders may fit but it is not guaranteed
- 24. Due to the Nature of hand grinders it is almost impossible to simulate the ability to follow the floor when using a D handle, Due to this, the dolly may be susceptible to leave groves and gouges and also miss certain sections of the floor that are lower. This can be expected.
- 25. This Dolly is supplied with the following fasteners.



26. 2X M14 X 25  
With spring washer  
For side arms  
Do not over tighten!



27. 1 X M14 X 30  
With spring and flat washer  
For top chassis mount  
Tighten!



28. 3 X Cable Ties  
For clamping switch and holding excess cable onto the handle

### Assembly instructions

29. The First Step is to place the hand grinder over the dolly and loosely install the 3 Bolts in the positions shown below.

M14 X 30 with  
spring washer and  
flat washer



30.

31. Next Pull the body of the grinder up to the chassis until the grinder body is aligned with the chassis and then tighten the top Bolt.

Tighten



32.

33. Now tighten the two side bolts until firm but not tight. These never need to be totally tightened.

### Assembly instructions

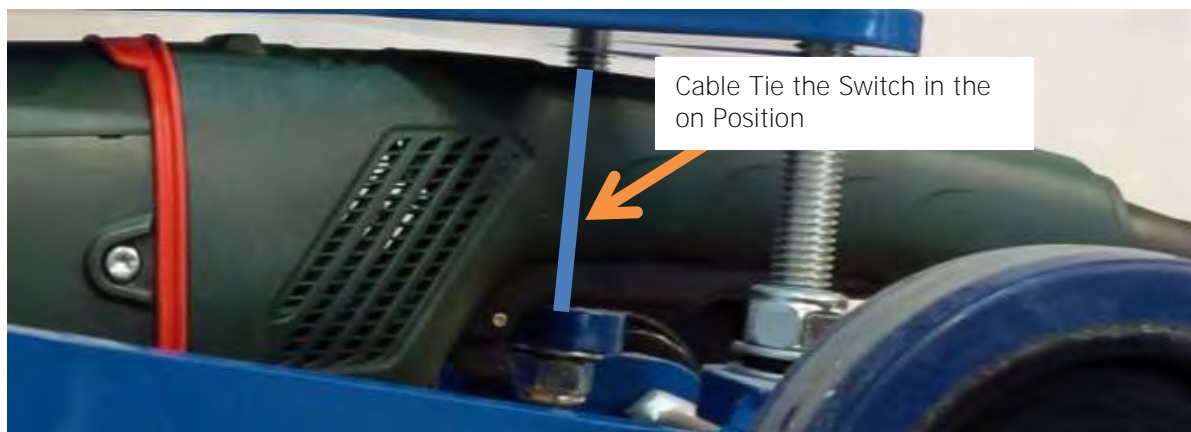
34. Adjust the two cross knobs shown below until the grinding disk is sitting flat onto the floor. You can move the grinder along the floor side to side and forward and backward to analyse if the disk is flat on the floor.
35. While adjusting you may find that the knobs become too tight to turn. If this is the case please loosen the top bolt and let the main chassis move forward or back so the cross knob threads align with the side arms again and re-tighten the bolt again.



36.

37. Next plug the Grinder lead into the socket coming from the control box.

38. Use the cable tie provided to clamp the main switch of the grinder in the on position. This must be removed is the grinder is ever removed from the frame for safety.



39.

Finally cable tie up the spare cable from the hand grinder onto the handle.

## Operating Instructions

40. Wear clothes suitable for the job and for the work place including, safety shoes, hard hat, hearing protection, non-fogging vented safety goggles, and dust respirator suitable for dust.
41. The Dolly must only be used according to the instructions given in this manual. Any other work methods or practices could result in injury or death
42. **WARNING! POISONOUS EXHAUST GASES.** Do not operate petrol powered equipment, including generators, without adequate ventilation. Carbon monoxide is an invisible odourless gas that can harm or can kill.
43. Be sure all equipment is tested and tagged prior to use on any job.
44. Inspect entire area to be ground before grinding and remove any bolts or concrete nails (etc) that could damage tooling or the machine and which could cause a hazardous situation.
45. Ensure there are no obstacles or existing structures that could present a hazard to the operator. If so, take necessary action to eliminate the hazard.
46. Tilt the machine back so handle is resting along the floor.
47. Install appropriate diamond tooling or other available tooling into the machine. Only use genuine tooling. Failure to comply could result in bodily injury.
48. Tilt machine back onto the disk.
49. Connect machine to suitable power outlet. Only use heavy duty power lead suitable for high current use (preferably 2.5mm<sup>2</sup> cable), no longer than 20 meters.
50. If no power is available within the specified distance, have a qualified person install a suitable power outlet closer to your work. Alternatively use 4mm<sup>2</sup> cable for up to 50 meters.
51. Connect a suitable dust extractor to the machine via a 38 or 50mm flexible hose. The machine is designed to take the standard 50mm hose ends to make connection of dust extractors easy and hassle free.
52. Keep machine clear of drainage pits, grates, steps or major lips or such hazard. Failure to comply could result in bodily injury and or could damage the machine or property.
53. This machine is designed to operate with the wheels in contact with the floor at all times. Do not operate with wheels off the floor.



## **Operating Instructions**

54. Switch on the dust extractor.
55. Hold the handles firmly and switch the Dolly on by pulling the toggle switch on with your finger.
56. Do not attempt to make any adjustments while the machine is in operation. Any adjustments must only be performed when machine is stopped and power disconnected.
57. After a few minutes of grinding check the wear of the diamond tooling. This will pay handsomely if the diamonds are wearing out fast due to soft concrete / abrasive concrete. There is a wide range of diamonds available to suit every need.
58. **WARNING!** As with any diamond tooling, breathable silica may be generated by use and maintenance of this machine. Silica can cause severe and permanent lung damage, cancer, and or other serious diseases. Do not breathe the dust. Do not rely on your sight or smell to determine if dust is in the air. Silica may be in the air without a visible dust cloud. If air monitoring for silica is not provided by your employer at your work site, you must wear appropriate respiratory protection when operating or maintaining this equipment. Consult your employer for proper respiratory protection.

### Electrical safety

59. All electrical maintenance and repairs are to be carried out by qualified persons only.
60. CAUTION - Line terminals may be alive when main switch is in the off position. Disconnect the machine completely before performing any maintenance or repairs.
61. WARNING - DO NOT operate the machine with any electrical panels open.
62. Never operate machine in the rain or if heavy moisture is present.
63. Never bypass over current devices in this machine.
64. Never connect or disconnect power cables with voltage present or while under load.
65. Disconnect all power connections and observe lock out / tag out procedures before attempting to carry out any maintenance or repair on any equipment.
66. Avoid any contact with any rotating parts or driven parts.
67. Never use equipment that has not been tested and tagged (including cords).
68. Before connecting the machine to power, check the condition of all power leads and cables on, or used in conjunction with the machine. DO NOT USE it if any faults, cuts, wear marks, **etc...** Get qualified persons to repair and re-tag it as required by regulations in your country.
69. Connect machine to suitable power outlet. Only use heavy duty power lead suitable for high current use (preferably 2.5 mm<sup>2</sup> cable), no longer than 20 meters.
70. If no power is available within the specified distance have a qualified person install a suitable power outlet closer to your work. Alternatively use 4 mm<sup>2</sup> cable for up to 50 meters.
71. Do not operate Dolly with any covers or doors removed or open.

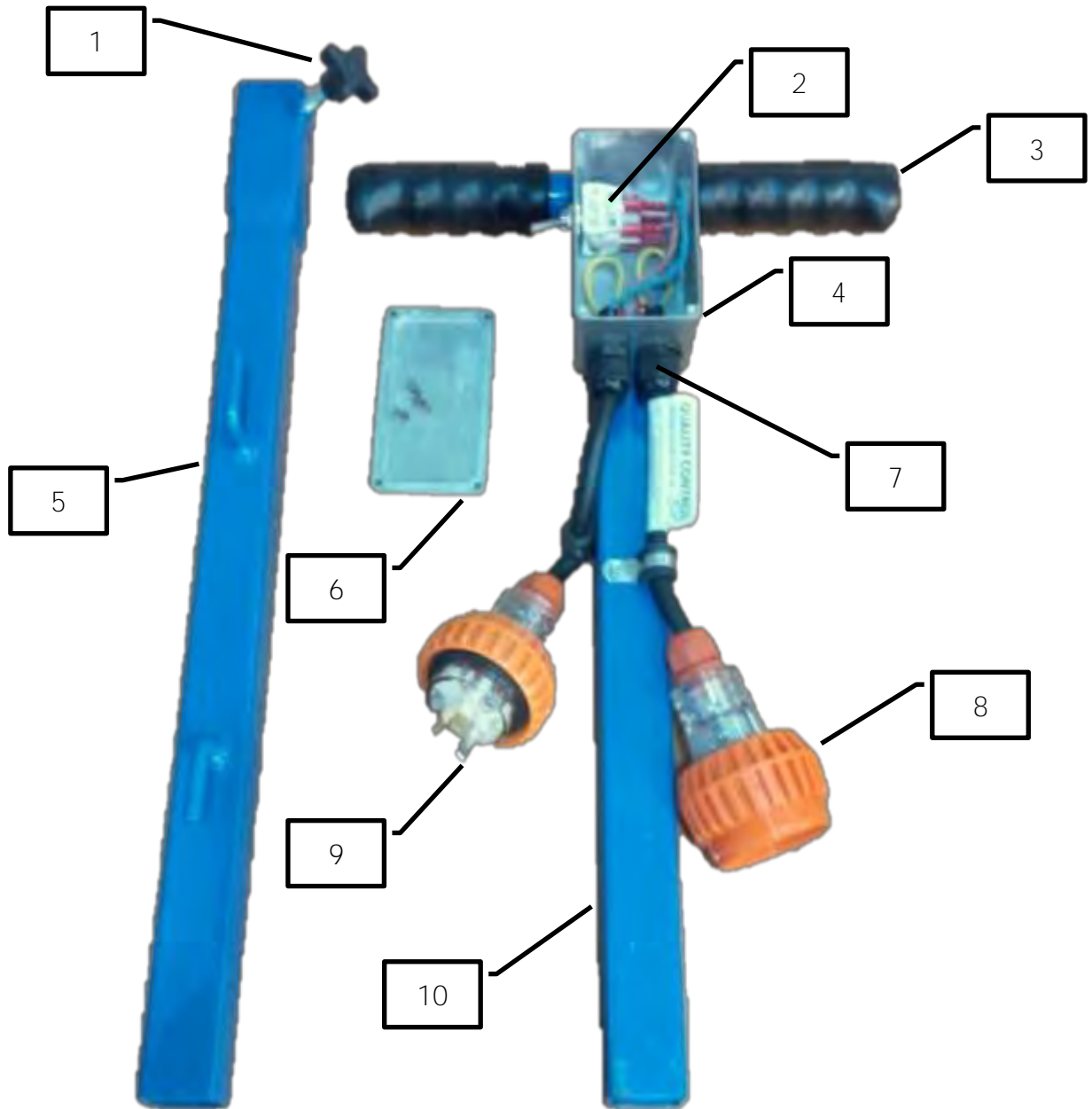
Problem solving

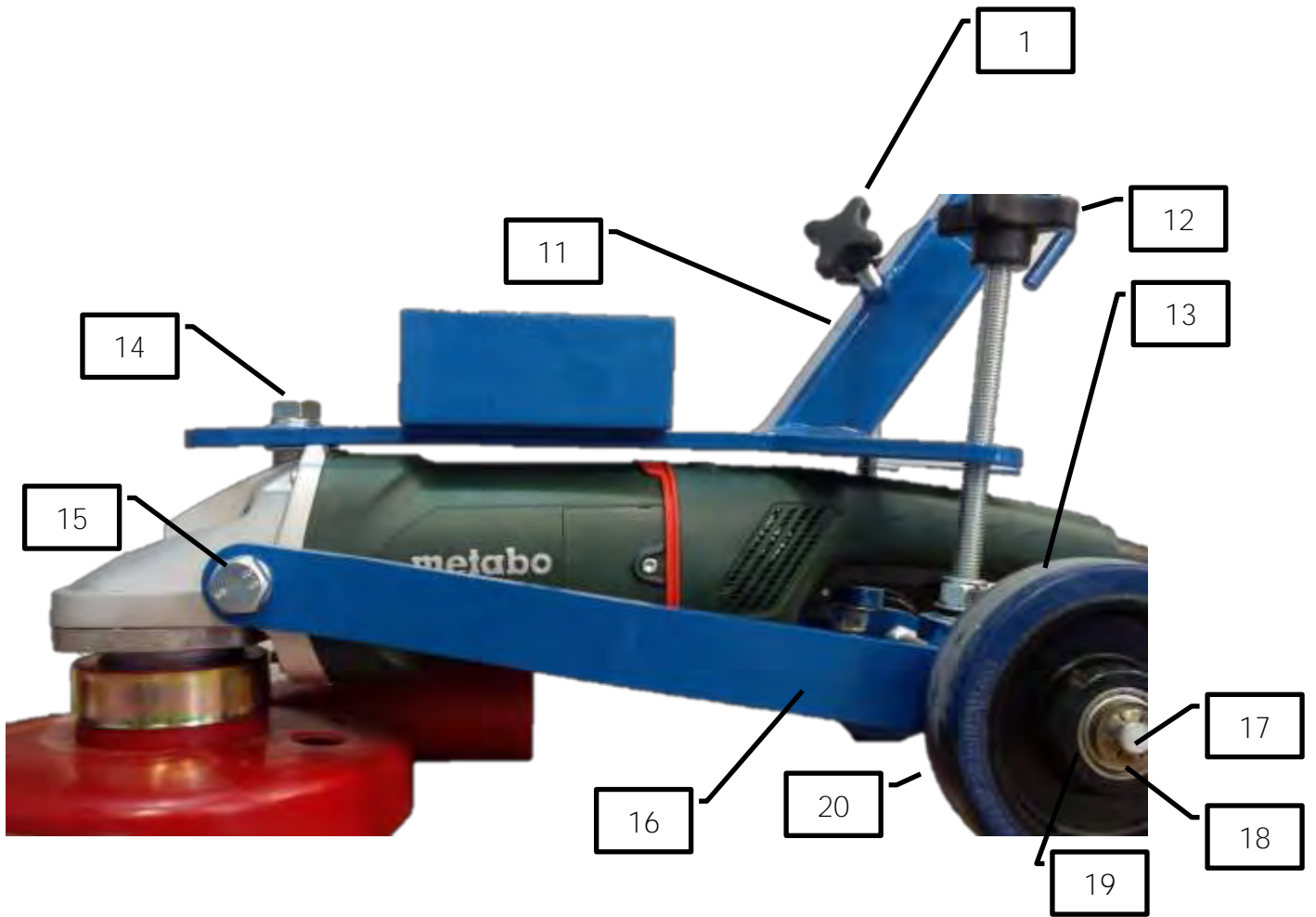
73. Diamond Grinding has many variables. When you understand some of these, you can solve a lot of problems without a lot of bother and expense.

PROBLEM	CAUSE	REMEDY	EXPLANATION
Machine will not start / run.	No power is present at cable end.	Check the power is present with another tool.	Using another tool confirms power is present
	Machine is trying to start on glue or other sticky substance.	Clear a patch with a scraper and grind into the glue a little at a time.	This means it only tackles a small amount of glue at a time and keeps the glue residue coated with dust, preventing glue sticking and building up on the diamonds.
	Power lead is too small in capacity or too long.	Upgrade the power lead to 2.5mm <sup>2</sup> (20meters max) or 4mm <sup>2</sup> (50 meters max).	The long / small capacity cable is <b>too restrictive and can't allow</b> enough power through for the machine to start / run properly.
Machine is not grinding at all.	No blades / accessories in unit.	Fit blades. <b>Note: check wear on machine.</b>	
	Very hard concrete or glazed topping on concrete.	Turn dust extractor down / restrict flow. Only just control the dust from escaping.	The extra dust accumulating on the floor acts as an abrasive between the segments and the floor thus exposing the diamonds better.
		Place river sand or cement on the floor.	The sand is an abrasive as described above.
		Use softer grade of diamond tooling.	The softer grade will expose the diamonds better.
		Use coarser diamond tooling.	The coarser diamond tooling can get through hard toppings without wearing out the diamonds too fast.
The diamonds are wearing out too fast.	The concrete is: *Soft *Abrasive *Rain Damaged *A rough finish (Scarified or shot blasted).	Use a powerful dust extractor to remove as much dust as possible.	The dust, as described acts as an abrasive between the segments exposing the diamonds prematurely, wasting them.
		Use harder diamond matrix.	<b>The harder segments don't expose</b> as easily.
		Use tooling with more segments or area <sup>2</sup> of segment.	The tooling with more segments <b>or area<sup>2</sup> doesn't have the same</b> weight on them, reducing wear.

**NOTE: THIS IS A GUIDE ONLY**

Parts Listing





## Parts Listing

<b>Item Number</b>	<b>Description</b>	<b>QTY</b>
<b>1</b>	<b>Cross Knob M8 Male</b>	<b>2</b>
<b>2</b>	<b>Switch Toggle Apem Momentary</b>	<b>1</b>
<b>3</b>	<b>Handle Grip</b>	<b>2</b>
<b>4</b>	<b>Electrical Box</b>	<b>1</b>
<b>5</b>	<b>Handle Section Lower</b>	<b>1</b>
<b>6</b>	<b>Electrical Box Lid</b>	<b>1</b>
<b>7</b>	<b>Cable Gland M16 Nylon</b>	<b>2</b>
<b>8</b>	<b>Socket Screw Type 1 Phase</b>	<b>1</b>
<b>9</b>	<b>Plug Screw Type 1 Phase</b>	<b>1</b>
<b>10</b>	<b>Handle Section Upper</b>	<b>1</b>
<b>11</b>	<b>Chassis Section With Weight</b>	<b>1</b>
<b>12</b>	<b>Cross Knob Axle Height</b>	<b>2</b>
<b>13</b>	<b>Wheel 125mm Blue</b>	<b>2</b>
<b>14</b>	<b>Bolt M14 X 30 With Spring and Flat Washer</b>	<b>1</b>
<b>15</b>	<b>Bolt M14 X 25 With Spring Only</b>	<b>2</b>
<b>16</b>	<b>Side arm Set Left and Right</b>	<b>1</b>
<b>17</b>	<b>Axle 12mm</b>	<b>1</b>
<b>18</b>	<b>Axle Clip 12mm Push on</b>	<b>2</b>
<b>19</b>	<b>Washer M12</b>	<b>4</b>
<b>20</b>	<b>Axle Bush 12mm</b>	<b>2</b>

## Warranty

The Dolly is offered with a 1 year **Limited manufacturer's Warranty against defects**. This does not mean the machine is indestructible or will not require replacement parts as there are some parts which are normal replacement items and the wear is not a fault of manufacture.

Warranty on Metabo or other brand **tools are subject to that manufacturer's warranty terms**. For warranty on the hand tool please take the tool to your local agent.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

As these goods are not of a kind ordinarily acquired for domestic, household or personal use, **Con-Treat** is entitled to limit their liability to sellers (companies or individuals who resell the machine) to the cost of replacing the goods, having the goods repaired or obtaining equivalent goods (whichever is lowest).

Consumer Guarantees are a contract between the seller and the consumer. For this reason if goods are purchased to be resold or to be transformed into a product that is sold, the consumer guarantees between **Con-Treat** and the reseller will not apply.

Compensation - Manufacturers are not responsible for problems with goods beyond their control. For this reason **Con-Treat** will not be held liable for:

1. An act, default, omission or representation made by some other person (excluding an employee or agent of the manufacturer).
2. Contract penalties such as promises for completion date of jobs. These are at the risk of the parties involved.
3. **A cause independent of human control that occurs after the goods left the manufacturer's control**

The consumer guarantees require you to return goods to the place where they were purchased unless it is not reasonable for you to do so. For example, it would be reasonable to expect you to return an item if you would be able to easily take it away with you when you purchased it. However, if the item is large, heavy or bulky or needed to be delivered, the seller should arrange for this to be returned.

For this reason for timely repairs and as little downtime for the consumer, **Con-Treat** may offer to have the machine repaired by a nominated repairer close by.