

### **HT8 EX DRUM FLOOR SANDER**

From Serial Number 07294 (240/240 Volt) & 03415 (110/120 Volt)



### **OWNERS MANUAL & OPERATING INSTRUCTIONS**

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### WARNING

FITTING REPLACEMENT SWITCH

For safe operation of this machine, read and understand all instructions. Look for the 'warning/caution' symbol.



This symbol means that if you do not follow the instructions injury can occur to the operator and damage to the machine and floor may result.



**WARNING:** Risk of explosion.

Floor sanding can result in an explosive mixture of fine dust and air. Use this floor-sanding machine only in a wellventilated area free from any flame, match or source of ignition.



WARNING: Risk of fire.

Never leave the floor sander unattended with dust in the dust bag.



**WARNING:** Risk of potential injury from moving parts.

To reduce the risk of injury, unplug the machine before replacing the abrasive or carrying out any form of adjustment or servicing.









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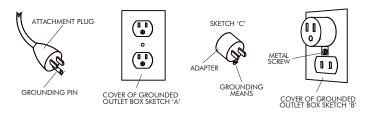
### NORTH AMERICAN SAFETY INSTRUCTIONS



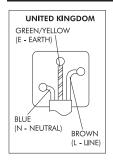
**WARNING:** This floor sanding machine must be grounded.

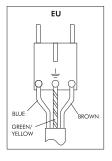
This floor-sanding machine shall be grounded while in use to protect the operator from electric shock. The machine is provided with a three-conductor cord and a moulded three-contact grounding type attachment plug to fit the proper grounding type receptacle. The Green (or Green and Yellow) conductor in the cord is the grounding wire. Never connect this wire to any pin other than the grounding pin of the attachment plug.

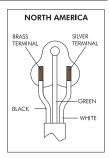
This floor-sanding machine is provided with an attachment plug as shown in sketch A. It is intended for use on a nominal 120 volt circuit. If a properly grounded receptacle as shown in sketch A is not available, an adaptor as shown in sketch 'C' should be installed as shown in sketch B if the outlet box that houses the receptacle is grounded. Be sure to fasten the grounding tab with a metal faceplate screw.



### MAINS CABLE WIRING - PLUG







### **USE & APPLICATION**

This machine is intended for commercial use connected with the laying and maintaining of wooden floors and decks.

These types of surfaces may be found both in commercial and household environments.

### SPARE PARTS

Use Hiretech genuine spare parts only for service and repair. Use of non-approved parts will void the product warranty. See the back cover of this manual for the terms and conditions of the Hiretech Limited Warranty.

Hiretech reserves the right to make changes or improvements to it's products without prior notice.

For the latest product news and updates, spare parts, downloads and service information visit www.hiretech.biz.

### **SPECIFICATION**

The Hiretech HT8 EX Drum Floor Sander will sand hard and soft wood floors, cork and composition floors that require rapid sanding and levelling to a fine finish. A powerful motor drives a finely balanced sanding drum covered in centrifugal drum rubber which grips a continuous abrasive belt providing a high quality finish to both hard and soft woods and other surfaces. Completely self contained with a high efficiency dust pickup the HT8 breaks down into three simple component parts for easy transport. The HT8 is a high performance floor sander suitable for professional and homeowner use.

Off Load Current  220/240 V 50/60 Hz  110/120 V 8A 220/250 V 5A  Average Load Current  110/120 V 15A 220/250 V 8A  Noise  95 dBa at 1 metre (3' 3")  Vibration  1.60 m/s² r.m.s.  Switch  Low voltage trip and overload protection.  Motor  Continuous heavy duty AC/DC self cooling 4 brush.  Motor RPM  3,300  Sanding Drum  200mm (8") wide dynamically balanced high performance drum with expandable drum rubber.  Drive  Non-slip toothed timing belts and gear cut pulleys.  Dust Pickup  Seated oversize vacuum fan with adjustable dust pan, disposable paper dust or cloth bag.  Moving Parts  Sealed for life ball bearings.  Guards  High impact injection moulded ABS.  Abrasive  200mm x 493mm (8" x 19.5") recommended type resin bonded belt, X-cloth backed wave joint semi open coat 24grit to 150 grit.  Power Cable  7m (23') Non-marking outer insulation.  Weight Net  41.5kg (91.5lbs)  Shipping Weight  50.0kg (110.3lbs)  78 x 40 x 44cm (30.75" x 15.75" x 17.5")  Warranty  2 years	Power Supply	110/120 V 50/60 Hz
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Vibration       1.60 m/s² r.m.s.         Switch       Low voltage trip and overload protection.         Motor       Continuous heavy duty AC/DC self cooling 4 brush.         Motor RPM       8,500         Drum RPM       3,300         Sanding Drum       200mm (8") wide dynamically balanced high performance drum with expandable drum rubber.         Drive       Non-slip toothed timing belts and gear cut pulleys.         Dust Pickup       Seated oversize vacuum fan with adjustable dust pan, disposable paper dust or cloth bag.         Moving Parts       Sealed for life ball bearings.         Guards       High impact injection moulded ABS.         Abrasive       200mm x 493mm (8" x 19.5") recommended type resin bonded belt, X-cloth backed wave joint semi open coat 24grit to 150 grit.         Power Cable       7m (23') Non-marking outer insulation.         Weight Net       41.5kg (91.5lbs)         Shipping Weight       50.0kg (110.3lbs)         Shipping Dimensions       78 x 40 x 44cm (30.75" x 15.75" x 17.5")		220/250 V 8A
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Motor RPM  8,500  Drum RPM  3,300  Sanding Drum  200mm (8") wide dynamically balanced high performance drum with expandable drum rubber.  Drive  Non-slip toothed timing belts and gear cut pulleys.  Dust Pickup  Seated oversize vacuum fan with adjustable dust pan, disposable paper dust or cloth bag.  Moving Parts  Sealed for life ball bearings.  Guards  High impact injection moulded ABS.  Abrasive  200mm x 493mm (8" x 19.5") recommended type resin bonded belt, X-cloth backed wave joint semi open coat 24grit to 150 grit.  Power Cable  7m (23') Non-marking outer insulation.  Weight Net  41.5kg (91.5lbs)  Shipping Weight  50.0kg (110.3lbs)  Shipping Dimensions  78 x 40 x 44cm (30.75" x 15.75" x 17.5")	Switch	- '
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19.5") recommended type resin bonded belt, X-cloth backed wave joint semi open coat 24grit to 150 grit.  Power Cable  7m (23') Non-marking outer insulation.  Weight Net  41.5kg (91.5lbs)  Shipping Weight  50.0kg (110.3lbs)  Shipping Dimensions  78 x 40 x 44cm (30.75" x 15.75" x 17.5")	Guards	1 * ' '
insulation.  Weight Net 41.5kg (91.5lbs)  Shipping Weight 50.0kg (110.3lbs)  Shipping Dimensions 78 x 40 x 44cm (30.75" x 15.75" x 17.5")	Abrasive	19.5") recommended type resin bonded belt, X-cloth backed wave joint semi open coat 24grit to 150 grit.
Shipping Weight         50.0kg (110.3lbs)           Shipping Dimensions         78 x 40 x 44cm (30.75" x 15.75" x 17.5")	Power Cable	
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Warranty 2 years	Shipping Dimensions	
	Warranty	2 years



Read the following Safety and Operational notes before using your Hiretech Floor Sander.

### **SAFETY**

- For safety it is recommended that a residual current circuit breaker (ground fault interrupter) is used with this machine.
- Check the operating voltage is correct and that the machine is switched OFF (O) before connecting to the power supply.
- Always completely assemble the floor sander and connect the handle cable to the body of the floor sander before connecting to the power supply.
- Always disconnect from the power supply when changing the abrasive belt, servicing the floor sander, replacing the dust bag or leaving the machine unattended.
- Always replace the dust bag (paper type) or empty the dust bag (cloth type) when the dust in the bag reaches the 'MAX' line or when the machine is left unattended.
- 6. Never dispose of or empty the contents of the dust bag into a fire or incinerator.
- Never reuse the paper dust bag or use a non standard bag.
   Cloth bags must be in good condition with no holes.
- Always wear a dust mask when using the floor sander, handling the dust bag or cleaning the machine after use.
- 9. Never leave the machine unattended with dust in the dust bag. Dispose of all dust and dust bags in a safe and proper manor. Dust left in a dust bag can be subject to combustion. Damp down all disposable paper dust bags on disposal.
- 10. Never operate the machine without the drum guard in place or if the drum guard is damaged.
- 11. Always store and transport the HT8 EX with a sanding belt in place at all times to protect the drum rubber.
- 12. Wear ear protection when using the floor sander.
- 13. Ensure adequate ventilation of the work area to avoid the formation of a combustible mixture of flying dust and air.
- Never smoke when using or servicing the floor sander or when handling the dust bag.
- Never expose the machine to rain or damp. Always store in a dry place.
- 16. Stop the floor sander immediately if damage to the machine or abrasive belt is suspected.
- 17. Never allow the power cable to come into contact with the sanding drum when the floor sander is in operation. If the power cable becomes damaged and the inner conductors are exposed switch the power OFF and remove the plug before attempting to move the machine. The cable must be replaced by an authorised dealer or qualified electrician using Hiretech genuine spare parts only.
- 18. Keep hands, feet and loose clothing away from all moving parts of the machine.
- Punch down or remove all nails, screws, tacks and other fixings from the floor before sanding to prevent contact with the sanding drum.
- 20. Never operate the machine without all the guards in place.
- 21. Never operate the machine without an abrasive belt installed on the drum.
- 22. Keep children and pets clear at all times.
- 23. If the machine should fail to operate refer to the Fault Finding Guide on page 10.
- 24. The HT8 is heavy, take care when lifting and transporting the machine. Always break down the machine into its component parts when lifting and transporting.

### **Assembly and Transport**

To help with the following instructions please refer to the parts drawings on page 12 and 13

- 1. The HT8-1.2 breaks down into three component parts, the main body, handle assembly and dust tube for easy handling and transport. To assemble loosen the Clamp Bracket Ref.21 and slide the handle assembly into the Handle Bracket Ref.51. Adjust the height of the handle so that your arms are slightly bent when standing upright behind the machine. This will provide you with maximum control in operation. Tighten the clamp bracket firmly. Always ensure that the clamp bracket is tight, check periodically during use.
- Connect the Cable Handle Ref.20 to the Body Twist Lock Ref.24 at the rear right hand side of the floor sander body. Align the plug with the pins, push in and twist clockwise to lock.
- 3. Slide the Exhaust Tube Ref.59 into the Exhaust Bracket Ref.56 and push fully home.
- 4. Fit a paper dust bag following the instructions printed on the bag. If a cloth bag is used ensure that it is tied securely around the dust tube neck and that the bag is in good condition with no holes.
- 5. To prepare the floor sander for use place the machine on the floor and remove the main cable from it's storage position on the handle assembly. Check that the cable is in good condition and that all fittings are secure.
- 6. To dismantle the floor sander reverse procedure 1 to 5 above.
- 7. Always ensure that the floor sander is secure and cannot move when being transported in a vehicle. The floor sander is heavy. Take care when lifting and carrying the machine. Always break down the machine into its component parts when lifting and transporting.

### **Installing Abrasive Belt**

- Ensure the power cable is disconnected from the power supply.
- 2. Tip the floor sander back so that it rests on the rubber buffer on the rear of the handle.
- 3. Lift the Drum Guard Ref.35 to expose the sanding drum.
- 4. Select a suitable grade of abrasive belt (see Abrasive Paper Guide on page 7). Check direction arrows printed on inside of the abrasive belt. The arrows must point clockwise in the same direction as the drum rotates. Look at the arrow on the side of the drum guard for reference.
- 5. Ware gloves when fitting the abrasive belt. Kneeling on the left hand side of the machine place one end of the abrasive belt on to the sanding drum at a slight angle then gently rotate clockwise to locate the end of the belt fully on to the sanding drum.

Now slide the belt fully onto the sanding drum while gently rotating in a clockwise direction.

Ensure the sanding belt is centred on the sanding drum Take care not to trap fingers around the main frame and dust shoe.

Lower the drum guard and latch in place. Stand the machine up, the floor sander is now ready for use.



**WARNING:** the drum guard must be latched in the fully closed position before operating the machine. Ref: 37 Clip Drum Guard locates on the outside of Ref. 84 Guard Wall End. Never operate the machine without the drum guard in the fully closed position.

Note: Use Hiretech genuine floor sander abrasives for the best sanding performance and finish. They will also reduce the risk of tearing due to poor fit which is a common problem with generic and non standard abrasives.

### **PREPARATION**

- Where possible remove all furniture from the area or room.
   The HT8-1.2 Floor Sander features an efficient dust pickup, however, some dust will escape.
- Remove all tacks, staples and other unwanted fixings from the floor. Failure to do so will result in damage to the abrasive paper and sanding drum.
- Punch all nails below the surface of the floor using a suitable nail punch and hammer. Any screws used to fix boards should be counter sunk below the surface. During sanding any nails or screws that become exposed must be punched or counter sunk further.
- 4. Firmly fix all loose boards or blocks.
- 5. Remove heavy wax, grease and dirt deposits by hand.
- 6. Sweep and vacuum the floor thoroughly to remove dirt and discarded fixings.
- 7. Ensure good ventilation by opening windows.

### **OPERATION**



**DANGER:** never operate the machine without an abrasive belt installed on the sanding drum.

- 1. Move the floor sander to the location of your work.
- 2. Connect the power cable to a suitable power supply ideally located behind or to one side of the machine and work area.
- Wear a dust mask and ear protection.
- 4. Hold both handles with the main cable held in a small loop in the left hand and then passed over the left shoulder.
- Apply light downwards pressure on the handles to tip the floor sander back to raise the sanding drum off the floor. Switch on by pushing the ON/OFF switch to the '1' position.



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**CAUTION:** the HT8-1.2 Floor Sander is a powerful machine. Always ensure that you have a firm grip before switching on.

- 6. Now move the floor sander slowly forward and at the same time release the pressure on the handles to gently lower it so that the sanding drum comes into contact with the floor.
- 7. Guide the floor sander in a straight line at a slow walking pace. Do not force or hold the floor sander back. Allow the machine to do the work and always move at an even pace.
- 8. At the end of the pass while still moving forward tilt the floor sander back so that the sanding drum comes clear of the floor. Now moving backwards lower the floor sander again and pull it backwards over the area just sanded moving at a steadily even pace. Take care to ensure that the power cable is kept clear of the sanding drum at all times. At the end of the sanding pass and while still moving backwards tilt the floor sander back so once again the sanding drum comes clear of the floor.

Move the machine over so that it overlaps the area just sanded by 3'' (75mm) and start to sand the next pass repeating the above technique.



**CAUTION:** to prevent damage to the floor surface, work piece or machine follow these rules.

- Always ensure that the floor sander is moving when in operation and the sanding drum is in contact with the floor.
- ii. Never lift the back of the machine when sanding.
- iii. Never apply pressure to try to increase the rate of sanding. Damage to the floor and machine will occur.
- iv. Never bounce or drop the floor sander on to the floor. Always lower the machine gently.
- v. Never dwell in one place, move steadily at all times.
- vi. Never allow the power cable to come into contact with the sanding drum.
- 9. When the dust in the dust bag reaches the 'MAX' line stop sanding. Disconnect the power cable from the power supply and remove the paper dust bag. Turn the top of the paper dust bag over to stop the escape of dust and dispose of into a suitable container. Dampen the dust bag down with water to reduce the risk of spontaneous combustion. Never reuse the paper dust bag or empty it or dispose of it into a fire. If a cloth bag is used empty into a suitable container being careful to contain the dust. Do not dispose of the contents into a fire.
- 10. Fit a new paper dust bag or refit the cloth bag. Reconnect the floor sander to the power supply and continue sanding.
- 11. When taking a break from work disconnect the power cable from the supply, remove and dispose of the paper dust bag, or empty the cloth bag as detailed in 8. above. Never leave the floor sander unattended with the dust bag in place containing dust.
- 12. On completion disconnect the power cable from the supply. Remove and dispose of the paper dust bag, or empty the cloth bag as detailed in 8. above. Stow the cable on the handle assembly and if required dismantle for transportation. Carry out maintenance as recommended in Maintenance and Servicing.



**DANGER:** never leave the floor sander unattended with dust in the dust bag. Always remove the dust bag and dispose of into a suitable container.

### FLOOR SANDING TECHNIQUE

HT8 Drum Floor Sander - a powerful floor sander designed for the rapid levelling and sanding of all types of wood flooring excluding thin laminated or veneered floors. Load the sander with abrasive making sure that it is skin tight around the drum. Loose sheets will tear. Place the sander on the right hand wall (unless you are making an angled cut on uneven floors) with about two thirds of the floor in front of you. Start the sander with the drum off the floor then walk forward at an even pace and ease the drum on to the floor. As you near the end of the pass, gradually raise the drum off the floor. Practice this technique before turning on the sander.

Cover the same path you made on the forward cut by pulling the machine backwards and easing the drum to the floor as you begin the backward pass until you reach the original starting point, then ease the drum off the floor.

When two thirds of the floor is sanded, turn the floor sander around and sand the remaining third in the same way. Overlap the one third area by 0.6 to 0.9 meters (2 to 3 feet) with the two thirds area to blend the two areas together.



**WARNING:** never bounce the sanding drum or dwell in one place as this will sand dips and hollows in the floor.

HT7 Disc Floor Sander - a powerful disc floor sander designed for sanding along the edges of a floor without damaging the baseboards or mouldings. Also suitable for smaller areas where the HT8-1.2 Floor Sander will not reach like stair treads and closets load the abrasive disc making sure the retaining bolt is tight. Start the edger with the disc off the floor then lower the disc to the floor as you move the sander. Work progressively moving the sander in a sweeping motion from side to side.

HTF Orbital Floor Sander - a orbital action floor sander designed for re-finishing, sanding between coats of varnish and re-surfacing floors in good condition. Load the abrasive sheet, pad or strip. Start the sander, move immediately and sand in the direction of the grain using the same technique as the drum floor sander. For difficult to reach areas use the disc floor sander with a fine grit abrasive, or sand by hand.

Hand Sanding - to sand difficult to reach areas scrape and sand the floor by hand. Use a scraper to remove old finishes, always scraping in the direction of the grain, and then sand by hand using the same grit abrasive as you finished with when machine sanding. See Floor Sanding Technique diagrams on page 5.

### FLOOR TYPES

### **Plank & Strip Floors**

Old floors in good condition - when the floor is in good condition - no uneven edges, cupping or crowning of planks and strips - and you want to re-surface the floor, sanding back to new wood, start sanding in the direction of the planks or strips - with the wood grain. Start with a medium grit abrasive. Complete the first cut with the HT8-1.2 Floor Sander then sand up to the baseboards and door thresholds with the HT7-2 Disc Floor Sander, using a medium grit abrasive, blending the edges in with the main floor area. Sweep the floor. Using a medium/fine grit abrasive, sand the main floor area with the drum sander and then complete the floor with the edger using a fine grit abrasive. Sweep the floor. Finish sanding the main floor area with the drum floor sander using a fine grit abrasive. If the floor is in particularly good condition (level with no deep scratches or blemishes) you may re-surface the floor using the HTF-2 Floor Sander, however, as the sanding action of this machine is less aggressive than the HT81.2 Floor Sander the job will take more time.

Uneven floors - when the floor is uneven sand diagonally at 450 across the room in both directions using the HT8-1.2 Floor Sander with a coarse grit abrasive. Only make one cut on both diagonals, this will achieve a basic level. Now complete the floor as for a level strip or plank floor. Use the same grit abrasive as was used on the 450 cut for the first cut parallel to the planks or strips.

Floors with an existing finish - when re-finishing a floor remove as little of the existing surface as possible. If the old finish is worn and the floor is generally in good condition use the HTF-2 Floor Sander with Hiretech abrasive pads and strips which have been especially designed for re-finishing floors. These will maintain the integrity of any stain used to colour the wood and prepare the surface for a new coat of finish. If the floor is badly marked and scratched and

has to be sanded back to new wood use the HT8-1.2 Floor Sander and HT7-2 Disc Floor Sander. Always try a medium grit paper first, particularly on a diagonal cut. If 90% of the old finish is removed and the floor is generally level, you do not need to use a coarse grit abrasive.

### **Engineered and Thin Floors**

Use the HTF-2 Floor Sander for engineered or thinner floors that may have been subjected to repeated sanding. The HTF-2 will remove old surface finishes and prepare the floor for re-finishing. Sand the floor using the same method as a strip, plank, or parquet floor. If the floor has deeper scratches or marks these should be sanded out by hand and blended in with the main floor. To check the wood depth in the floor remove a baseboard or moulding from around the edge of the floor. This should provide access to the edge of the floor for inspection.

### **Parquet & Block Floors**

The grain of the wood will run in a number of directions so sand the floor in the direction of the main source of natural light in the room. If there is no source of natural light sand in the direction of the longest side of the room or, if the room is square, in the direction the furniture is laid out and how people normally use and view the

This technique will help mask any imperfections in the floor. Complete the sanding operation as detailed for plank or strip floors.

### Between Coats of Finish (varnish)

Use the HTF-2 Floor Sander to sand between coats of floor finish, particularly when using water based varnishes. These types of finishes tend to raise the wood grain when first applied to raw wood. Allow each coat of varnish to dry completely following the manufactures directions. Use Hiretech abrasive pads to sand between each coat of varnish. The fine abrasive pads will remove light brush/applicator marks and raised grain while maintaining the integrity of the coat of varnish applied.

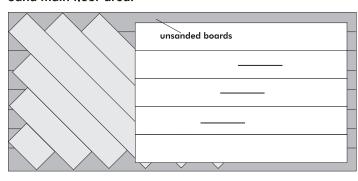
### FLOOR SANDING TECHNIQUE

### unsanded boards sanded boards

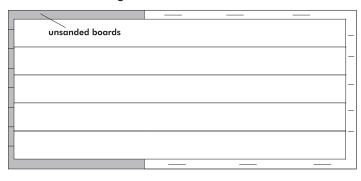
level very uneven floors by sanding diagonally in both directions

### Sand main floor area.

Level uneven floors.



### Sand and blend edges in with main floor area.



5

**Plank and Strip Floors** - sand in the direction the boards are laid, with the wood grain.

### Parquet and Wood Block Floors -

sand in the direction of the main source of natural light. If there is no natural source of light, sand in the direction of the longest side of the room. If the room is square, sand in the direction the furniture is laid out and how people normally use the room.

Abrasive Grade	Floor Type and Condition				
Grit P24 Open Coat (Very Coarse non-glogging)	For removing surface coatings from old floors such as varnish, stains and wax polishes. For the rapid sanding and removal of scratches and marks. Sanding level the joints of sub-flooring like particle board and masonite.				
Grit P24 (Very Coarse)	For the rapid sanding and removal of scratches and marks. Sanding level the joints of sub-flooring like particle board and masonite.				
Grit P36 to P50 (Coarse/Medium)	For removing surface coatings from old floors such as varnish, stains and wax polishes. For the rapid sanding and removal of scratches and light marks.  Sanding level the joints of sub-flooring like particle board and masonite.				
Grit P60 to P80 (Medium)	For the rapid sanding and removal of scratches and light marks. Sanding level the joints of sub-flooring like particle board and masonite.				
Grit P100 to P120 (Medium/Fine)	Intermediate sanding of all types of wood floor. For final sanding of all types of wood floor.				
Grit P150 - P180 (Fine/Very Fine)	For final sanding of all types of wood floor. First sanding of cork or composition floors. For sanding between coats of solvent based and 2 pack varnishes.				

DO NOT OVER-SAND USE ONLY AS HEAVY GRADE ABRASIVE AS IT TAKES TO DO THE JOB. PROGRESS FROM FIRST GRADE USED THROUGH FOLLOWING GRADES TO REMOVE ALL VISIBLE SANDING MARKS.

DO NOT MISS A GRADE.

### FLOOR SANDER ABRASIVES

Hiretech Abrasives	JER SE	DER	C C ED	7 C ED ED	EET	Æ
Hiretech recommend the following abrasive range which are suitable for all floor types and	8/DU8 R SAND HEET 50/CA 50/CA R SAND R SAND R SAND R SAND R SAND		HT7/SUPER 7 EDGER DISC FIBRE BACKED 25/CASE	HTZ/SUPER 7 EDGER DISC PAPER BACKED 25 & 50/CASE	htf floor Sander sheet Adhesive Backed	HTF ABASRIVE PAD 20/CASE
P16	-	-	01025	-	-	-
P24 Grit Open Coat	01001	-	-	01044	-	-
P24 Grit	01002	01010	01026	-	-	-
P36 Grit	-	01011			-	-
P40 Grit	01003	01012	-	01045	01750	-
P50 Grit	-	01013	01027	-	-	-
P60 Grit	-	01014	-	-	01 <i>7</i> 51	-
P80 Grit	01004	01015	01028	01046	01752	-
P100 Grit	-	01016	-	-	-	-
P120 Grit	01005	01017	01030	01048	01754	-
P150 Grit	-	01018	-	-	-	-
P180 Grit	-	-	-	-	01756	-
P280 Grit/Backing Pad	-	-	-	-	-	01769

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### **SERVICE & ROUTINE MAINTENANCE**



**CAUTION:** maintenance and repairs must be carried out by authorised personnel only. To prevent injury, always remove the power cable from the power supply before undertaking any work on the machine. Do not operate the floor sander unless it is fully assembled and all guards are in place. Use Hiretech genuine spare parts only.

### General

- Always make a list when first examining the machine, to remind you of parts or action needed on completion of repair/ service.
- 2. The HT8-1.2 is subject to high speeds. All screws should be fitted using a suitable thread lock compound.
- On completion of any work or service on an electrical tool or appliance statutory safety tests must be carried out by a competent person and recorded (see Testing for Electrical Safety page 8).
- 4. The HT8-1.2 needs no lubrication during routine servicing.
- Always ensure that the electrical supply is disconnected before starting any routine servicing or repair.

### **Visual Inspection**

- Check that the drum guard Ref.35 is in good condition and functioning correctly. Ensure that the Warning Label Ref.36 is present and legible.
- 2. Check all other guards and mechanical parts are in good condition.
- 3. Examine the power cable Ref.39 and the handle cable Ref.20. If the outer insulation shows the slightest of abrasions or the inner conductors are exposed, then the cable must be replaced. The cable must not be repaired with tape or insulation sleeve
- 4. Examine both the mains plug and the interconnecting socket, Body Twist Lock Ref.24. The plugs must be opened and examined (see Electrical Testing page 8).
- 5. If a cloth type bag is in service check the condition, old clogged cloth dust bags make for an inefficient dust pickup.
- 6. Ensure that all labels are present and in good condition.

### **Drive Belts**

- To examine the condition of the Drive Belts Ref.164 and Ref.165 remove the four screws Ref.83 and the Belt Guard Ref.81.
- 2. Lift the Fan Belt Ref.165 while rotating the pulley remove the fan belt. Repeat for the Drum Belt Ref.164.
  - CAUTION take care to avoid trapping your fingers when removing or replacing the drive belts.
- Examine the pulleys for wear, worn or damaged pulleys should be replaced
- 4. To reduce the instance of belt breakage, examine the drive belts, look for cracks or fraying and replace if necessary with new belts. To replace reverse the above procedure taking care to avoid bending the belts tighter than the pulley diameter

as this can result in damaged belts. Refit the belt guard.

### **Dust Control System**

- For efficient dust pick up ensure that cloth type dust bags are clean and unclogged and that the intake is clear and properly adjusted.
- 2. Turn the machine on to its side and loosen the three Screws Ref.71 and remove the Dust Shoe Ref.72 and clear any obstruction. The grit from the abrasive paper can wear away the leading edge of the dust shoe, if this has occurred then file or grind the leading edge level before refitting.
  - Install the dust shoe ensuring that the clearance between the shoe and the drum is maintained at 3/8ì (10mm).

### Lubrication

 The HT8-1.2 is completely lubricated. The bearings are sealed and do not require lubrication. In the unlikely event that a bearing requires replacement use a Hiretech genuine spare part only as the grease contained in these bearings is special. A standard bearing is not suitable and may result in further damage.

### **Sanding Drum**

Note: In operation The sanding belt is held in place on the sanding drum by centrifugal force. It is important that the drum rubber and abrasive guides are maintained in good condition at all times.

Store and transport the HT8 EX with a sanding belt in place at all times to protect the drum rubber.

- Check that power supply is disconnected. Tilt the machine back and rest the handle on the floor. Open the drum guard and remove the abrasive belt if fitted. Inspect the condition of the drum rubber. A damaged or worn drum rubber must be replaced to maintain machine performance. A damaged or worn drum rubber can result in poor sanding performance with subsequent damage to the floor surface and can be dangerous in operation.
  - If the machine moves from side to side when sanding or you are experiencing inconsistent sanding performance this can indicate a worn or damaged drum rubber. This is caused because the drum rubber is not gripping the sanding belt.
- To replace the drum rubber contact your local Hiretech Service Agent. Hiretech operate a simple exchange program to replace HT8 EX Sanding Drums. Please contact your local service agent for information, service levels and pricing. For further information visit www.hiretech.biz.
- 3. Check the condition of the Abrasive Guides Ref.142. It is very important that the Abrasive Guides are maintained in good condition. The Abrasive Guides ensure that the abrasive belt runs evenly and centred on the sanding drum. Worn Abrasive Guides will cause wear to the drum rubber, result in poor sanding performance and cause damage to the machine and floor surface. Worn guides will also damage the abrasive belt and may cause it to tear.
  - The Abrasive Guides should not be worn by more than 3mm (0.12in).
- 4. When fitting new Abrasives Guides ensure that the correct gap is maintained between the edge of the sanding drum and the Abrasive Guide fitted to the inside face of sanding drum (frame side).
  - Remove any abrasive belt fitted, using the Spacer Guide Abrasive Ref.143 adjust the gap between the Abrasive Guide

and the edge of the sanding drum as follows;

200mm wide abrasive - gap 1.5 to 2.5mm

8in wide abrasive - gap 3/32 to 5/32in

Use Ref.143 PSTK: 024845 7mm (1/4'') spacer only for 8' wide abrasive. Use 7mm (1/4'') plus 1.5mm (1/16'') spacers for 200mm wide abrasives.



**CAUTION:** Always check the width of the abrasive belt being fitted.

Note: The Abrasive Guide fitted to the Drum Guard Ref.35 is fixed and does not require adjustment.

Check the condition of the rear wheels (Rollers Ref.61). The
wheels must be free from dirt and rotate freely. Check the
condition of the Shaft Roller Ref.60, use a straight edge to
make sure the shaft is not bent.

### Care of Motor

- The motor must be kept free from grease and dust. DO NOT use high pressure air to blow the motor clean. Use a vacuum and soft brush to clean the motor and brush block assembly.
- The motor brushes must be checked regularly, inspect the brushes every three months or every 300 hours from new and then every 100 hours of use thereafter.
- 3. Replace ALL FOUR motor brushes when any one brush has worn to 12mm (1/2") or less in length. Brushes MUST slide freely in the brush holders.

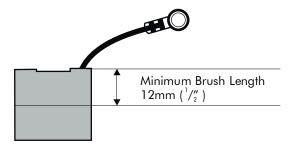
Brush ware is also indicated by the triangular ware indicator stamped on genuine Hiretech motor brushes marked with the HT symbol. See illustration opposite.

When any one motor brush is worn down to the ware indicator inspect the brushes ever 100hrs. Replace all four motor brushes when any ONE (1) motor brush is worn down to the minimum brush length as indicated by the bottom of the triangle stamped on the motor brush.

- 4. To inspect and replace motor Brushes Ref.104, with the brush block assembly removed.
  - Remove the three Screws Ref.82 and remove the Wall End Guard Ref.84 to expose the motor brush assembly.
  - Remove the four retaining Screws Ref.31 from the Shield Wall End Ref.30, insert two of the screws into the 'jacking holes' situated adjacent to the countersunk retaining holes.
  - Carefully tighten these screws until the shield wall end is jacked clear of the outer casting. Withdraw the shieldwall end.
  - iv. With the brush block assembly complete and the connecting leads still attached. You will note that as the brush block assembly is withdrawn the brushes spring towards the centre and often the brush springs fall clear as the brushes are no longer at a height to retain them. Take care not to lose any springs.
  - v. To remove a brush spring with a brush in the operating position push the brush spring down and towards the brush and lift out.
  - Vi. Using a cross recess screwdriver remove the four brush shunt (pigtail) retaining Screws Ref. 105 and lock Washers Ref. 100.
  - vii. Remove the four brushes. Remove the two jacking screws.
  - viii. Thoroughly clean the brush assembly and housing using a soft brush and a suitable vacuum cleaner.

ix. Inspect the four brushes for damage or wear and if any one brush is found to be damaged or worn to a length of 12mm (1/2") or less in length then replace all four brushes.

### **Motor Brush**



- x. When replacing brushes ensure free movement in each brush holder and fit the brush with the shunt (pigtail) towards the field coil. Ensure that each brush shunt is connected securely with the screw, and lock washer, two spare screws and lock washers are provided with each pack of brushes. Do not fit the brush springs at this stage.
- xi. Pull each brush up to the top of the holder using the shunt wire to retain it in this position for the next stage.
- xii. Enter the assembly into the main frame taking care to avoid contact between the brushes and the commutator of the armature, that the shield wall end is correctly aligned with the main frame and that no leads are trapped. There is a depressed pattern on the shield wall end and on the main frame to assist alignment. Both the bearing fit and the main frame fit are 'light contact' and may require lightly tapping into position using a soft mallet. DO NOT FORCE.
- xiii. Replace and tighten the four countersunk Screws Ref.31.
- xiv. Remove the four brush block retaining Screws Ref.31 and the single timing Screw Ref.34 from the Shield-Wall End Ref.30. The brush block assembly is now free to rotate. To fit the brush springs rotate the brush block assembly counter clockwise (over towards the rear of the machine) until the lower brush holder is accessible, fit the brush spring by inserting into the holder with the coil spring over the brush then push down until the tag comes into contact with the holder, slide the tag away from the brush and release. The brush spring will clip into position. Check the spring and brush for correct alignment and free movement.
- xv. Rotate the brush block assembly clockwise and repeat to fit the remaining three springs. The switch and field cables restrict the movement of the brush block assembly, take care not to loosen or damage these cables.
- xvi. Return the brush block assembly to its original position and align the timing notch in the block with the timing hole, screw the timing Screw Ref.34 into position.
- xvii. Secure the brush block assembly using the remaining four screws Ref.34. DO NOT OVER TIGHTEN.
- xviii. Finally check that all cables are well clear of moving parts before refitting the guard wall and securing with the 3 Screws Ref. 82.

Note: To inspect and replace the motor brushes while retaining the brush block assembly in place repeat the procedure xiv. to xviii. above.

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### **Electrical Testing**



**CAUTION:** testing for electrical safety should be undertaken by a competent person and all results recorded. Do not exceed 1250 volt insulation test duration of 3 seconds.

- Examine the power cable and handle cable for damage, if the outer insulation shows more than the slightest of abrasions or the inner conductors are exposed then the cable must be replaced. The cables must not be repaired with tape or insulation sleeve.
- Open and check mains plug and interconnecting socket Ref.24 for condition, loose connections, damaged wires etc. Ensure that the strain relief of the power cable plug is correctly secured to the outer cable insulation.
- Open and examine the Switch Housing Ref.11 for loose connections, damaged wires, and general condition. Pay special attention to any gaskets, 'O' rings and seals intended to exclude dust from the switch and switch housing area, these must be maintained in good condition.
- 4. Ensure that the Strain Relief Ref.5 is correctly secured to the outer cable insulation.

Note: HT8-1.2 Floor Sanders manufactured from October 1993 starting with Serial Number 00532 (110/120V) and 00779 (220/240V) feature a fully protected circuit breaker which incorporates 'Low Volt Protection'. This means that should the mains supply be interrupted during use the switch will immediately return to the 'OFF' position to protect the operator. This feature, by preventing a circuit through the switch unless mains voltage is present, also prevents a full insulation (flash) test unless the test instrument has 'test on run' facility.

If your instrument has this facility then:- replace the switch cover 'A' taking care to avoid trapping leads and ensuring that all dust gaskets are correctly positioned. Check that the circuit breaker 'ON' button does not lock in the 'ON' position when depressed. The button must only lock 'ON' when current is present. Before carrying out test ensure that the motor is connected by the twist lock socket Ref. 24 and that all safety measures have been taken.

(Class 1 Earthed Appliance [U.K.] ) Carry out 'test on run' procedure.

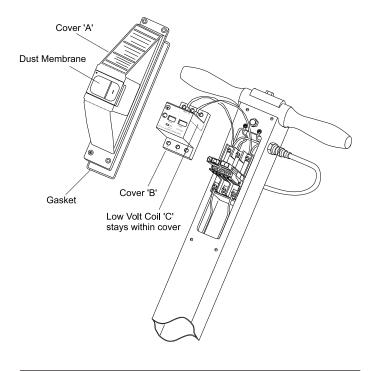
If your instrument does not have 'test on run' facility then Continue as follows:-

- 5. While you have the switch housing open for visual inspection remove the circuit breaker cover 'B' together with the 'low volt coil 'C'(see below). Do not disconnect or disturb any cables. The 'low volt coils will remain within the cover 'B'.
  - The circuit breaker will now lock into the 'ON' position without current present. Before carrying out an insulation (flash) test ensure that the motor is connected by the twist lock socket Ref. 24 and that all safety measures have been taken.
- 6. Using standard procedure test for electrical safety (Class 1 Earthed Appliance [U.K.] ). Do not exceed 1250 volt flash duration of 3 seconds.
- 7. Record the test results.
- 8. Complete a functional (run) test and record results.



**CAUTION:** when undertaking a functional test ensure that the machine is secure, remember the sanding drum will rotate, ensure that the drum cannot come into contact with the work bench/service area.

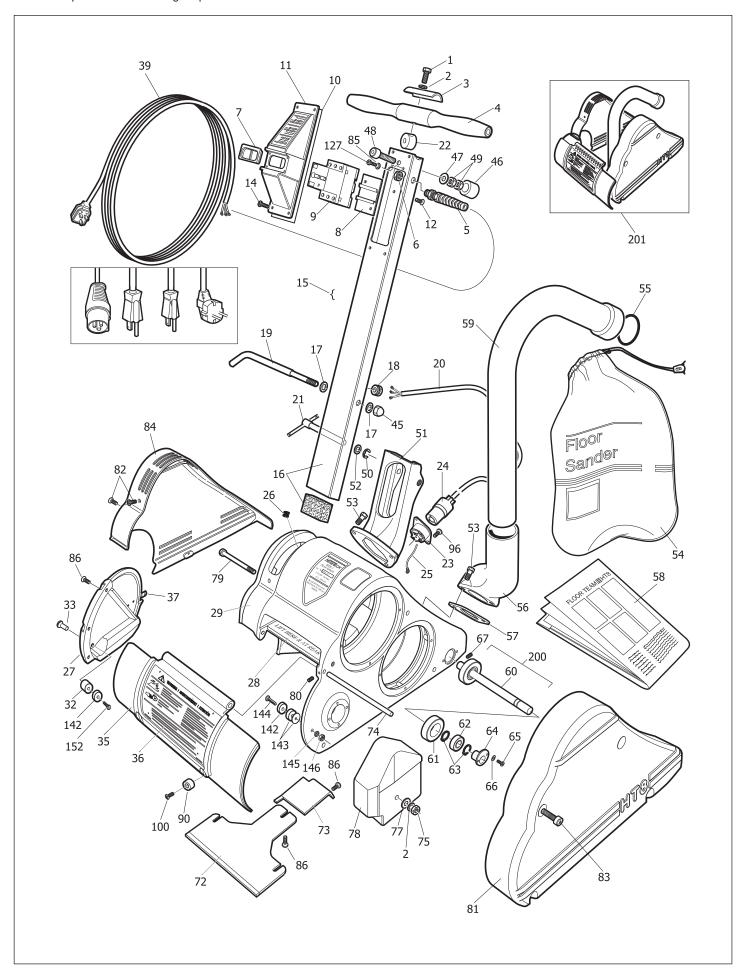
- 9. After carrying out the tests disconnect the machine from the test station and snap the 'Low Volt Coil' 'C' back into position and replace cover 'B'.
- 10. Replace the switch cover 'A' taking care to avoid trapping leads and ensuring that all dust gaskets are correctly positioned. Check that the circuit breaker 'ON' button does not lock in the 'ON' position when depressed. The button must only lock 'ON' when current is present.
- Finally test the machine once again to ensure good earth and insulation of the mains cable and switch. Do not exceed 1250 volt flash duration of 3 seconds.



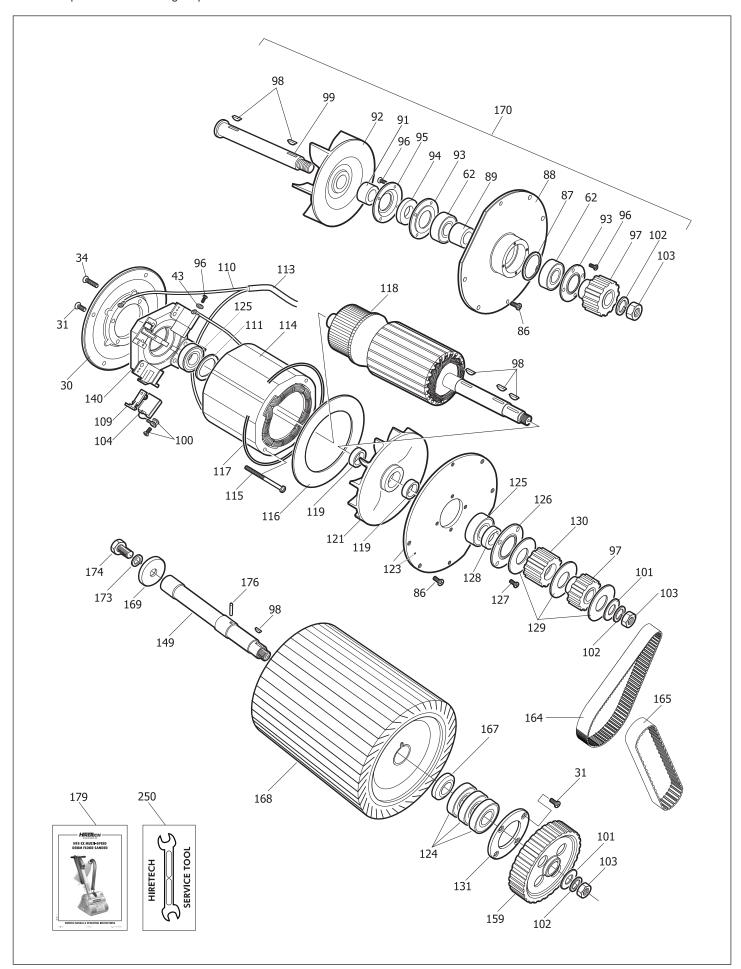
9

FAULT	CAUSE	ACTION
The machine does not run.	The power cable is not connected to the power supply.	Connect the power cable to the power supply.
	The overload protection has been activated.	Allow to cool, switch on.
	The motor brushes are worn.	Replace the motor brushes.
	The voltage is too low.	Check main power supply complies with the machine serial plate data.
The overload protection activates frequently.	The drum motor is stopped.	Contact an authorised repair agent.
	A bearing has failed.	Contact an authorised repair agent.
	The voltage is too low.	Check the main power supply complies with the machine's serial plate data.
	The pressure on the sanding drum is too high.	Fit a finer grit abrasive paper, make sure the voltage is correct.
	The sanding drum will not rotate.	Disconnect from the power and check the sanding drum for obstruction. If overload still operates contact an authorised repair agent.
The machine will not pick-up dust.	The dust bag is full.	Replace the dust bag.
	The dust shoe is out of adjustment.	Adjust the dust shoe.
	There is an obstruction in dust pickup.	Remove the dust shoe and check for obstruction. Clear as necessary.
	The fan belt has broken.	Replace the fan belt.
The machine does not sand evenly.	The drum rubber is damaged. The abrasive guides are worn.	Replace the drum. Replace the abrasive guides.
	The Floor Roller assembly (adjustable type) is out of adjustment.	Adjust the Floor Roller assembly see page 11.4
	The Floor Roller assembly is worn or damaged.	Repair/replace the Floor Roller Assembly.
	The machine is not being operated properly.	Read 'Operation' section of this manual.
The sanding drum will not rotate.	The drum belt is broken.	Replace the drum belt.
	The drum bearing has failed.	Contact an authorised repair agent.
	The shear pin Ref.144 has operated.	Contact an authorised repair agent.
	There is an obstruction.	Disconnect from power supply and clear the obstruction.

HT8-1.2 Expandable Drum Single Speed



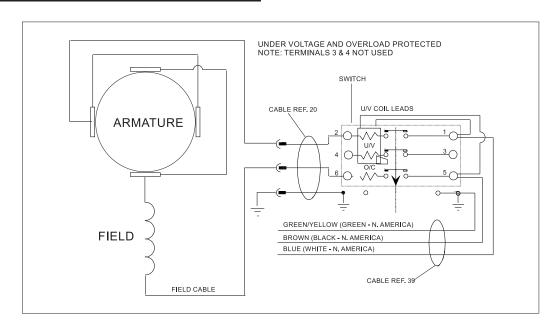
HT8-1.2 Expandable Drum Single Speed



PAR	TS LIST			Ref	PSTK	Pack Qty	Description
Ref	PSTK	Pack Qty	Description	049	030850	2	Nut
	. •	r disk Qiy	2000	050	167308	1	Ring Retaining
001	962308	1	Screw	050	160815	1	Bracket Handle Kit Complete
002	980652	2	Washer	051	980196	1	Washer
003	162019	1	Clamp Handle	053	962244	5	Bolt
004	163907	1	Handle Cross	054	163796	1	Bag Dust Cloth
005	101205	1	Strain Relief	055	163826	6	Retainer Dust Bag Disposable/Ring Seal
005	163691	1	Strain Relief (NA)	056	160809	1	Bracket Exhaust
006	101206	1	Nut Lock	057	163403	1	Gasket Exhaust
007	163849	1	Dust Cover Kit	058	07037	25	Disposable Paper Dust Bag HT8 Pack 2
800	163837	1	Bracket Switch Mounting	058	07039	50	Disposable Paper Dust Bag HT8
009	163839	1	Switch 110/120V	059	163790	1	Tube Exhaust
009	163848	1	Switch 220/240V	060	167708	1	Shaft Floor Roller
010	163870	1	Gasket Switch Housing	061	169704	2	Roller Floor Assembly (with bearing)
011	163840	1	Cover Switch	062	902567	4	Bearing (Fan & Floor Roller)
012	163838	2	Screw	063	467308	4	Ring Retaining
014	163871	4	Screw	064	020010	1	Support Floor Roller
015	020300	1	Multi-Speed Conversion Kit HT8/DU8	065	962139	2	Bolt
			220/240V UK	066	980646	2	Washer
015	020305	1	Multi-Speed Conversion Kit HT8/DU8	067	962103	1	Screw
			110V (UK)	072	167905	1	Shoe Intake EX
015	020310	1	Multi-Speed Conversion Kit HT8/DU8	073	163636	1	Cover Inlet
			220V (EUR)	074	167404	1	Rod Drum Guard
015	020315	1	Multi-Speed Conversion Kit HT8/DU8	075	920256	1	Nut
			240V (AUS)	077	980629	1	Washer
015	020320	1	Multi-Speed Conversion Kit HT8/DU8	078	169504	1	Weight Balance
			110V (NA)	079	962409	1	Screw
015	163737	1	Handle Assembly Complete 240V (UK)	080	962170	1	Screw
015	163738	1	Handle Assembly Complete 220V (AUS)	081	163791	1	Guard Belt
015	163739	1	Handle Assembly Complete 110V (UK)	082	163814	3	Screw
015	163741	1	Handle Assembly Complete 220V (EEC)	083	163869	4	Screw Guard Belt
015	163844	1	Handle Assembly Complete 110V (NA)	084	024810	1	Guard Wall End EX
016	169012	1	Tube Handle	085	980623	2	Washer
017	980615	2	Washer	086	962109	8	Screw
018 018	101220	1	Strain Relief Handle Cable	087	167312	1	Ring Retaining
019	163804 164508	1 1	Strain Relief Handle Cable (NA) Hook Cable	088	164202	1	Housing Fan
020	104308	1	Cable Handle	089	168203	1	Spacer Fan Bearing
020	163782	1	Cable Handle 110V (UK)	090	025120	2	Buffer Guard Drum EX
020	519510	i	Cable Handle 110V (NA)	091 092	008212 163004	1	Spacer Fan Fan Intake
021	960180	1	Clamp Handle Bracket	092		1	
022	960183	1	Bracket Handle Cross	093	162021 167608	2 1	Clamp Bearing Seal fan
023	911045	1	Base Twist Lock	094	167210	1	Retainer Seal
024	911046	1	Body Twist Lock	096	010210	4	Screw
025	163867	1	Lead Earth Base Twist Lock	097	166906	2	Pulley Fan
026	163808	1	Grommet	098	915028	6	Key
027	024820	1	Guard Drum Side EX	099	167704	1	Shaft Fan
028	165103	1	Label 'Lift Here & At Rear' (Metal)	100	010220	4	Screw and Washer Set
029	163202	1	Main Frame EX	101	980648	2	Washer
030	167804	1	Shield Wall End	102	980626	3	Washer Lock
031	962084	4	Screw	103	920132	3	Nut
032	024985	1	Abrasive Guide Spacer (200mm wide	104	010180	4	Brush Motor
			abrasive)	109	010230	4	Brush Spring
032	024990	1	Abrasive Guide Spacer (8in wide	110	911662	1	Lead Motor Assembly
			abrasive)	111	167302	1	Ring Retaining
033	024995	1	Abrasive Guide Retainer	113	168104	1	Sleeve
034	962204	5	Screw	114	163104	1	Field 110/120V HT8
035	024822	1	Guard Drum Front EX	114	163112	1	Field 220/240V HT8
036	121252	1	Label Guard Drum	115	962401	2	Screw
037	024915	1	Clip Guard Drum	116	166172	1	Baffle Motor
039	163683	1	Cable Main Assembly 220V (EEC)	117	167204	1	Retainer Baffle
039	163684	1	Cable Main Assembly 240V (AUS)	118	160408	1	Armature 110/120 Volt
039	163685	1	Cable Main Assembly 110V (UK)	118	160412	1	Armature 220/240 Volt
039	519501	1	Cable Main Assembly 110V (NA)	119	980004	2	Spacer
039	908285	1	Cable Main Assembly 240V (UK)	121	163008	1	Fan Motor
043	010200	4	Washer	123	167802	1	Shield Pulley
045	920148	1	Nut	124	024885	3	Bearing Drum Shaft EX
046	024600	1	Buffer Rubber	125	163682	2	Bearing Armature
047	980197	1	Washer	126	062003	2	Clamp Bearing
048	024605	1	Bolt	127	962345	10	Screw

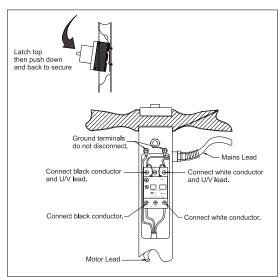
Ref	PSTK	Pack Qty	Description	Ref	PSTK	Pack Qty	Description
128	168212	1	Spacer Motor Pulley	168	020200	1	Drum Assembly Complete EX
129	163304	3	Flange Pulley	168	020205	1	Drum Assembly Complete EX (exchange)
130	166909	1	Pulley Motor	169	024895	1	Washer Drum Shaft EX
131	024870	1	Clamp Bearing	170	163012	1	Assembly Fan Intake
140	163789	1	Brush Block Assembly	173	011170	1	Washer Lock
142	024840	2	Guide Abrasive Kit	174	024900	1	Bolt Drum Shaft EX
142	024850	1	Abrasive Guide	176	925113	1	Pin Drum Shaft
143	024845	1	Abrasive Guide Spacer (8in & 200mm	179	024965	1	Owners Manual & Operating Instructions
			wide Abrasive)	200	101219	1	Floor Roller Assembly
144	024855	1	Screw Guide Abrasive Main Frame	201	024950	1	Kit Moulded Guards
145	031660	1	Washer Lock	201	024955	1	Kit Moulded Guards (excl. Tube Exhaust)
146	024860	1	Nut Lock				
149	024875	1	Shaft Drum EX	Follow	ing parts n	ot illustrated	
152	024865	1	Screw Abrasive Guide Drum Guard	250	011860	2	Service Tool - Extractor Seal
159	024880	1	Pulley Drum EX	250	024500	1	Test Lead (UK)
164	903260	1	Belt Drum 3/4in (19mm) Wide	250	024502	1	Test Lead (NA)
165	903273	1	Belt Fan 1/2in (13mm) Wide	250	163865	1	Service Tool - Locking Drum
167	024890	1	Spacer Bearing				-

### CIRCUIT DIAGRAM

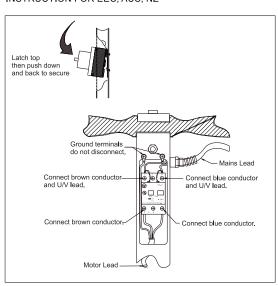


### FITTING REPLACEMENT SWITCH

### INSTRUCTION FOR NORTH AMERICA



### INSTRUCTION FOR EEC, AUS, NZ



# **DECLARATION OF CONFORMITY**



Manufacturer's Name: Hire Technicians Group Ltd.

Manufacturer's Address: Manufactured by Hiretech in the United Kingdom. See www.hiretech.biz for contact information and address.

declares that the product:

Product Name: Hiretech Floor Sander

Model Name: HT8-1.2 230 Volt 50Hz Insulation Class 1 HT8-1.2 110 Volt 50Hz Insulation Class 1

conforms to the following:

Machinery Directive (Harmonised)

89/392-EU as amended

73/23/EU as amended

Electromagnetic Compatibility Directive

89/336/EU as amended

following the provisions of the directives:

89/392/EU, 93/44EU, 73/23/EU, 93/68/EU/89/336/EU, 91/368/EU, 92/31/EU

EN60 335-1-88 (HD 251-1-3) BS 3456-201 EN292-1-91 EN292-2-91 EN55014-93 (BS 800) EN 50082-1-92 IEC 745-2-4 (HD 400.2) (BS 2769-2-2.4)

electrical safety test procedures comply with:

IEC 335 pt. 1-2, HD251 1-3 1982, BS 2769 & 3456, CSA C22.2, KEMA K78A1/W1 & W3, NEMKO 503./89, DIN VDE 0700 1/04.88 HD 264.S2 15/07.86

Where the product is licensed to carry a National Approval Mark it is certified that all such products comply with the terms of that license.

C.J. Hedger, Director of Engineering. 1 April 2012

## HIRETECH LIMITED WARRANTY

Hiretech warrants to the original purchaser that the Hiretech machine covered by this warranty is free from defects in workmanship and materials. Should any part fail in the period of two years from the date of the original purchase as a result of a defect, Hiretech will (at it's option) either repair or replace the part without charge provided that the machine has been operated in accordance with the Owners Manual and Operating Instructions.

Should any such defect arise, please contact your nearest authorised repair agent. Standard service over land mainland freight costs will be refunded on warranty repairs at the sole discretion of Hiretech or the authorised repair agent. If the repair is non-warranty, the customer will be advised before any work is undertaken.

This warranty is the sole warranty by Hiretech and is in lieu of all other warranties express or implied and releases Hiretech from all other obligations and liabilities.

This warranty does not apply to normal wear and tear to the machine, and in particular does not cover normal wear parts such as mains cable, wheels, switches, relays, brushes, rubber parts, hoses and bearings. This warranty also does not cover, and Hiretech will not be liable for, excessive wear caused by abnormal use.

Hiretech will under no circumstances be liable for alterations to the machine or for damage caused by third persons, or for misuse or abuse of the machine, or damage caused during transportation. Repairs of the machine made or attempted by persons other than those specifically authorised by Hiretech shall render this warranty void and Hiretech will not be liable for such repairs, the cost of such repairs, or the consequences of such repairs. Where spare parts are used on the machine and they do not conform to Hiretech specifications, this warranty will be rendered void and Hiretech will not be liable.

Hiretech will not be liable for any indirect or consequential loss, damage, cost or expense of any kind whatever and however caused whether arising under contract, tort (including negligence) or otherwise including (without limitation) loss of profits or contracts or of operating time or goodwill or anticipated savings.

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