

ORIGINAL INSTRUCTIONS

# FEIDER

MACHINES

## COMPRESSOR INSTRUCTION MANUAL FC200L



Feider  
ZI, 32 RUE ARISTIDE BERGES 31270 CUGNAUX, FRANCE



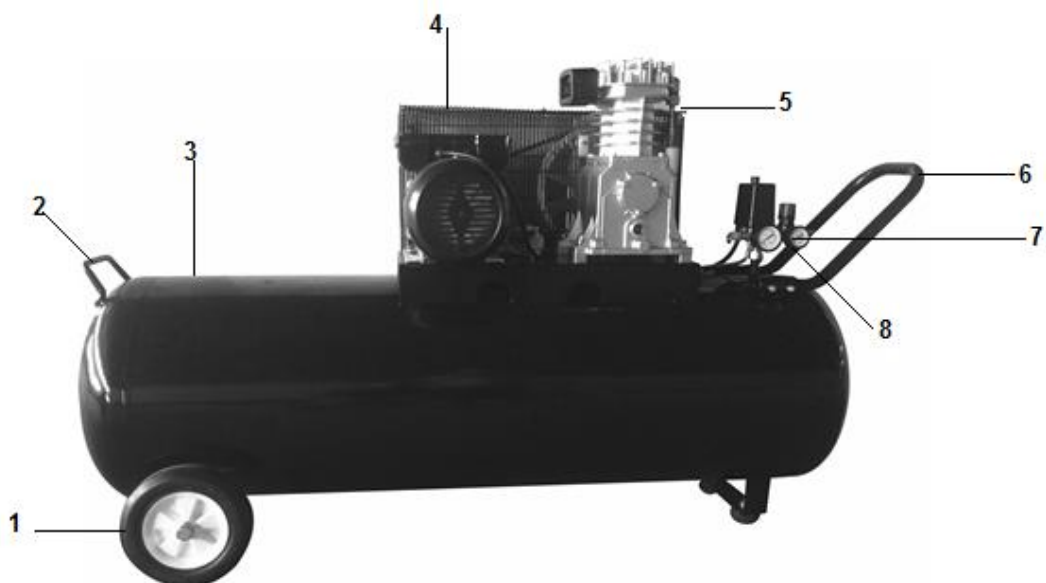
Read instructions before use. Keep for future reference

## I. INTRODUCTION

This air compressor is of a new design, and of excellent quality. With the advantage of being compact, beautiful in appearance, lightweight, easy to handle, highly reliable and quiet, it is suitable for many applications in the mechanic and chemical industries, for spraying and decorating, for automatic control systems, as well as in any other area requiring compressed air

## II. DESCRIPTION

1. Wheel
2. Transport handle
3. Air tank
4. Fan and fan cover
5. Compressor
6. Transport handle
7. Pressure gauge
8. Exit valve



### III. Technical specifications

Alimentation	220-230V AC / 50Hz
Power	2200W
Type of motor	2 poles
Max rotational speed	950/min
Max discharge pressure	0.8 mPa / 8 bars
Air flow	290 L/MIN
Outlet diameter	1/4"
Volume of air tank	200L
Weight	94 kg
Class	B
Degree of protection	IP20
Sound power level	95.2dB(A), K=1,96dB(A)
Sound pressure level	75,2dB(A), K=1,96dB(A)
Guarantee sound power level	97dB(A)

Inlet temperature: 10 °C -40 °C, intermediate temperature: 170-200 °C, discharge temperature: 10 °C -40 °C.

Pressures: 0 Bar

Intermediate pressure and discharge: 0 ~ 8Bar.

Pressure and limiting temperatures of the lubrication system: 8Bar, 200 °C

Note: Noise emission was measured according to the expected conditions by the standards EN1012 and EN ISO 2158.

### IV. Delivery checking

After unpacking the machine, check the contents of the carton for the possible presence of damage due to transport. Notify the dealer, carrier and / or manufacturer immediately in the event of a claim. Be aware that subsequent claims are no longer accepted.

N°	Designation	Quantity
1	Air compressor	1
2	Air filter	1

## V. Safety instructions

### A. Symbols

#### **IMPORTANT:**

The symbols below can be used on the machine. Please read them for their meaning.

Following the instructions given in the manual will help you to use the device more efficiently and to reduce the risks.



Do not use the portable compressor with the door or fence open.



Read instruction manual



Wear hearing protection



Do not open the valve before connecting the air hose.



The device can turn on automatically without warning



Risk of high temperature.



Risk of electric shock



Do not start



WARNING: Maintenance work in progress



Filling with lubricating oil

## B. General safety instructions

Warning! To reduce the risk of fire, injury and fire when using electrical appliances, follow the general safety instructions below. Please read them carefully before using your electrical appliances. Keep this manual carefully for future reference.

- 1. Keep the work area clean.** Congested work areas and workbenches often cause injuries.
- 2. Consider the environment of the work area. Do not expose your compressor to rain and do not use it in damp places. Keep the work area clear.** Never use your compressor if there is a risk of fire or explosion.
- 3. Protection against electric shock.** Avoid getting your body in contact with grounded surfaces (such as pipes, radiators, cooking modules, refrigerators).
- 4. Keep children away from the work area.** Never let people touch the compressor, the power cable, or the extension cord.
- 5. Store the compressor properly.** If you do not use the compressor, keep it in a dry place, out of the reach of children, either in height or locked.
- 6. Never force your compressor.** It works better and safer if it is used at the speed for which it was designed.
- 7. Wear appropriate clothing.** Never wear loose clothing or jewellery. They could get tangled in moving parts. Rubber gloves and non-slip shoes are recommended for outdoor work. Wear a hard hat if you have long hair.
- 8. Wear safety glasses.** Also wear a dust-proof mask

**9. Do not damage the power cable.** Never carry the compressor by its cable and never pull on it to disconnect it from the power socket. Keep the cable away from sources of heat, greasy areas, and sharp objects.

**10. Never overestimate your strength.** Always keep a firm position and maintain your balance.

**11. Always care for your compressor carefully.** Keep your compressor clean for better performance and more safety. Follow the instructions for maintenance. Check the power cable regularly and, in the event of a defect, have it replaced by a qualified service technician. Check the extensions regularly and replace them if they are damaged. Keep the handles dry, clean and free of grease or oil.

**12. Unplug the tools.** In case of non-use or maintenance of your compressor.

**13. Remove the tools on your compressor.** Make a habit of checking that the adjustment tensioners are removed before activating the tool.

**14. Avoid untimely start-ups.** Make sure the switch is in the OFF position before plugging it into the mains.

**15. Use only extension cords for outdoor use.** Only use extension cords designed for this purpose.

**16. Always be on your guard.** Watch your work. Use common sense. Do not use the compressor if you are tired.

**17. Check for faulty or damaged parts of your compressor.** Before using your compressor again, we strongly recommend that you carefully check the protective accessories and other parts to see if the unit will work properly. Check that the moving parts are properly secured, that no parts are broken, that the unit is properly assembled and that no other factor could affect its operation. Unless otherwise stated in the operating instructions, any damaged protective gear or damaged parts must be repaired by a qualified and approved company. Never use the compressor if the switch does not activate or deactivate the tool.

**18. Use original or equivalent replacement parts recommended by the manufacturer or dealer.** The use of accessories other than those mentioned in the user manual may cause damage and constitute a source of injury.

**19. Always have the compressor serviced by an authorized professional service center.** This compressor complies with safety standards. Repairs can only be carried out by qualified service, with original spare parts. If this condition is not met, the user could be faced with considerable danger.

**20. Connect a dust extraction device.** If the compressor has a receptacle for connecting a dust collection or extraction device, make sure that it is properly connected and used.

**21. Wear hearing protection.** Exposure of prolonged duration to the noise emitted by the device may carry waiting to the hearing.

**22. Wear respiratory protection.** There is a risk of inhalation of harmful gases and fumes.

**23. Please refer to standard EN 12021 for acceptable levels of contaminants in the breathing air.** In all areas accessible to people, the concentration of the transformed gases that can move in the breathing air must be kept at acceptable levels.

### C. Specific safety instructions

1. Before turning the machine, mount the air filter, vacuum breaker, wheels and pads (Fig. 2).



(Fig.2)

2. Never unscrew the connecting pieces when the tank is pressurized.
3. Never disassemble an electrical component before unplugging the unit.
4. Never adjust the safety valve without reason.
5. Never use the compressor with a power supply that is too weak or too powerful.
6. Never turn off the power by disconnecting the power plug, but turn the power switch to OFF.

If the relief valve does not work and the engine stops, look for the cause right away, otherwise the engine may be damaged.

7. Make sure the oil coolers are in place and the guards are kept in

good condition.

8. The lubricating oil must be clean; the oil level must be maintained at the recommended level on the scale.
9. High oil viscosity during cold start, obstruction of oil filters, or malfunction of valve may result in lack of oil.
10. Disconnect the plug to turn off the power and open the outlet valve.
11. Do not use the compressor in an environment where there is a risk of explosion.
12. Please wear hearing protection while operating the machine.
13. Pay attention to the formation of fuel in the arrival duct.
14. The user of this machine must be trained and qualified.
15. Caution: In use, the high-pressure conduit and the relief valve can become very hot.
16. When the tank is pressurized, all closing parts attached to it must not be removed.
17. Disassemble the closing parts only when the machine is unplugged.
18. If the motor locks up after turning on the machine or if the speed is lower than normal, switch off immediately.
19. If the motor gets stuck due to excessively high temperature, stop and then disconnect the machine, and find the cause.
20. If, at a pressure greater than 8 bar, the machine does not stop automatically, immediately switch off the machine by hand, and find the cause.
21. If a strange noise has occurred, turn off the machine immediately, and look for the cause.
22. If the oil level in the compressor is too low, turn off the machine and add compressor oil.
23. Do not install the compressor on excessively hot or cold surfaces.

When using the compressor, close all windows and doors.

Do not use the compressor on extremely hot or cold surfaces. Risk of frost, fire and accidents. The air compressor should not be used at temperatures below 0 ° C.

There is a risk of inhalation of harmful gases, mists and vapors. Wear a protective mask.

Do not expose to gases and vapors.

There is a risk of coke formation in the distribution piping that can cause a fire or explosion.

All hoses and fittings must be suitable for on-site use at the maximum allowable pressure.

The openings must be closed when the compressor is in operation.



For the oil:

Replace the lubricating oil after 100 hours of use; Unscrew the oil plug when changing the oil. Add lubricating oil using a funnel. However, it is recommended to change the oil after every 500 hours. Fill the oil when the ambient temperature is above 10 °C: recommended oil: recommended SAE30 or L-DAB100 compressor oil,

For the air filter:

The air filter should be cleaned at least every month.

The air compressor must be kept away from all flammable materials. The compressor should not be used in such applications unless appropriate additional precautions are taken;

High oil viscosity during cold start, clogged oil filters or malfunction of the valve can result in oil failure.

There is an overload protector on the compressor (12A). If the current exceeds 12A, the overload protector will start and stop the compressor automatically. After 2 ~ 3 minutes, press the overload protector button to restart the compressor.

The ambient temperature for the air compressor is 5 ~ 40 degrees.

Use the air compressor oil according to the ambient temperature for the air compressor (5 ~ 40 degrees).

The user must provide for the installation of pressure relief devices and other protective devices. There is a safety valve on the air compressor that starts automatically at a pressure of 8.8 bar.

### **Intended use**

This product is suitable for the removal of dust and plastic. It can also be used to inflate, clean, air-clean, etc.

Do not use this tool for other purposes. Follow the instructions below to properly use the tool and avoid injury

## **VI. Preparation before use**

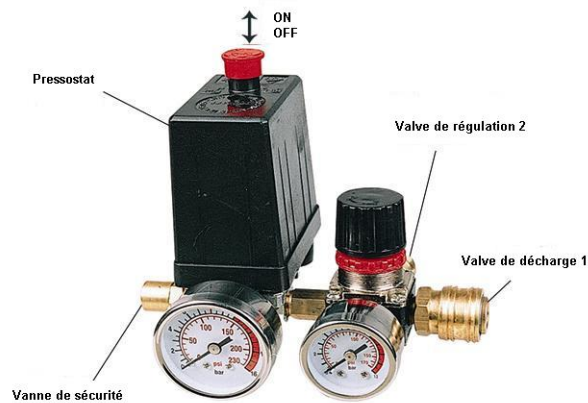
- Fit the wheels delivered with the machine.

- Replace the oil filter.
- Fit the air filter.
- Install the compressor in a dry, clean, dust-free, well-ventilated area, which will allow the compressor to work better and have a longer life.
- Install the compressor in a sufficiently bright place, easy to fill the oil.
- Install the compressor in a place with flat ground to ensure the stability of the compressor during operation.
- Keep a 50-80cm wide passage around the compressor for good ventilation and easy handling and maintenance of the machine.

## VII. Adjustment and use

### Warning ! indoor use only

1. The place of use of the compressor must be clean, dry and ventilated.
2. Conditions of use: Use the compressor only at a temperature between 0 and 35 ° C.
3. Be sure to use a voltage  $\pm 5\%$  of the recommended voltage.
4. Maintain the oil level at the red circle filler cap.
5. Use SAE30 or L-DAB100 compressor oil above 10 ° C, and SAE10 or L-DAB68 below 10 ° C.
6. Open the outlet valve, set the pressure switch to ON (Fig. 3), run the compressor idle for 10 minutes to properly lubricate the moving parts before normal use.



(Fig.3)

1. The compressor is controlled by a pressure switch during normal operation. It stops automatically when the pressure reaches its maximum level or restarts automatically when the pressure drops to its minimum level. The maximum

and minimum pressure levels have been preset at the factory. These settings should not be changed without good reason. As soon as the electric motor cuts off, the compressed air contained in the discharge pipe must be released by the relief valve located under the pressure switch. This is a necessary condition for the next start, otherwise the engine will be damaged. The nominal pressure can be adjusted by turning the pressure switch adjustment knob (Fig. 4).

2. The compressed air output pressure can be adjusted by acting on the control valve. Pull the knob on the control valve and turn it clockwise or counterclockwise to increase or decrease the pressure (Fig. 4).

3. To stop the compressor, simply turn the pressure switch knob OFF.



(Fig.4)

## VIII. Maintenance

**TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**  
Turn the Power Switch “OFF” and unplug the compressor from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.

**TO PREVENT SERIOUS INJURY FROM COMPRESSOR FAILURE:**  
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

### a. Cleaning, Maintenance, and Lubrication

Before and after each use, check the condition of the compressor, including:

- Loose hardware,
- Cracked or broken parts,
- Damaged electrical wiring
- Condition of the electrical cable and the plug

- Any other condition that may affect its safe operation.

If any malfunction, damages or abnormally, do not use the tool and bring it to a qualified service for inspection and repairs.

If the supply cord of this compressor is damaged, it must be replaced only by a qualified service technician.

## **b. Maintenance Schedule**

**Note: The environment in which the compressor is used and the frequency of use can affect how often you will need to check the Air Compressor components and perform maintenance procedures.**

### **Daily**

- Make sure all nuts and bolts are tight,
- Drain moisture from air tank,
- Check for abnormal noise or vibration,
- Check for air leaks to check for air leaks, apply soapy water to joints while the Air Compressor is pressurized. Look for air bubbles.
- Wipe off any oil or dirt from the compressor. To clean the compressor surface, wipe with a damp cloth, using a mild detergent or mild solvent.

### **Draining Moisture from the Tank**

It must be used daily to release all trapped air and moisture from the Tank. This will eliminate condensation which can cause tank corrosion.

CAUTION! Do not open the Drain Valve so that more than four threads are showing.

- Turn ON/OFF switch to the OFF position
- Place a collection pan under the drain valve.
- Unthread the drain valve two or three turns.
- When all the pressure and moisture is released, close the drain valve.

### **Monthly**

- Inspect Safety Valve.

All other maintenance and repairs must be provided by our services



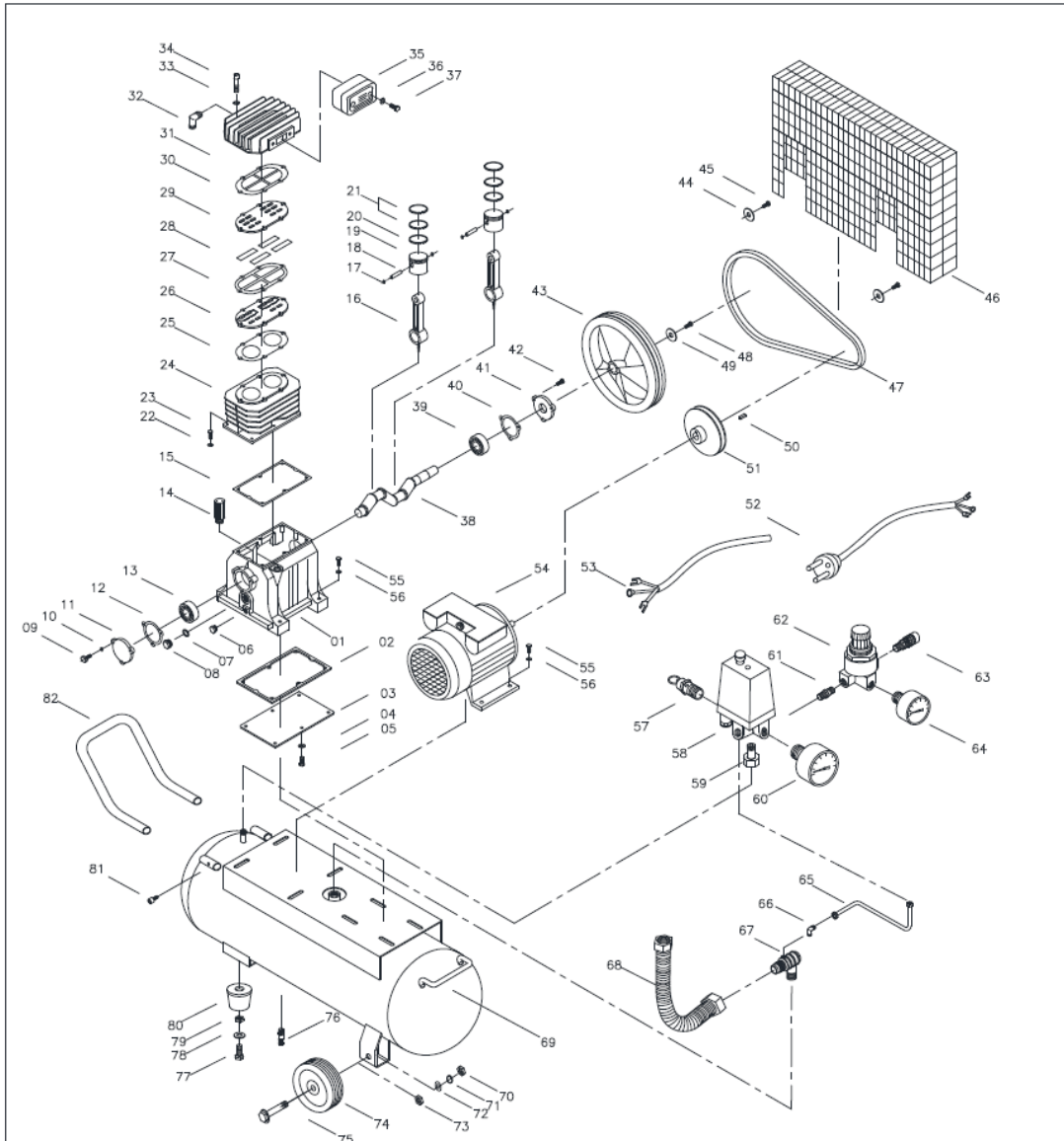
## IX. Transport and storage

- Do not tilt the compressor during transport to avoid spilling the compressor oil.
- Do not put objects on the compressor during transport.
- The machine is heavy; it must be carried to two people for the movement or using a lifting tool for loading.
- Clean the compressor before storing it in a dry, ventilated and dust-free place.

## X. Troubleshooting

<b>Problem</b>	<b>Causes</b>	<b>Solutions</b>
<b>Motor doesn't work</b>	<ul style="list-style-type: none"> <li>(1) Fuse blown, or circuit breaker tripped</li> <li>(2) Failure of electrical connection wires</li> <li>(3) Overheated motor</li> <li>(4) Pressure switch fault</li> <li>(5) Engine fault</li> <li>(6) Tightening of the main compressor</li> </ul>	<ul style="list-style-type: none"> <li>(1) Check, change the fuse, switch on the circuit breaker.</li> <li>(2) Check and repair</li> <li>(3) Press the reset button or wait for an automatic restart</li> <li>(4) Repair or replace</li> <li>(5) Check and repair</li> <li>(6) Check and repair</li> </ul>
<b>Low pressure</b>	<ul style="list-style-type: none"> <li>(1) Air leak in the safety valve.</li> <li>(2) Air filter more or less clogged.</li> <li>(3) Defectiveness in other valves</li> </ul>	<ul style="list-style-type: none"> <li>(1) Check, repair, change if necessary.</li> <li>(2) Clean, change if necessary</li> <li>(3) Check, change if necessary</li> </ul>
<b>Clamping the main compressor</b>	<ul style="list-style-type: none"> <li>(1) Moving parts overheated due to lack of oil.</li> <li>(2) Moving parts are damaged or blocked by a foreign object.</li> </ul>	<p>Check compressor components such as crankshaft, bearing, connecting rod, piston, piston rings, etc., and replace if necessary.</p>
<b>Presence of trace of oil in the air</b>	<ul style="list-style-type: none"> <li>(1) Viscosity of the oil is not appropriate</li> <li>(2) Too much oil in the crankcase</li> <li>(3) Overheated compressor</li> <li>(4) Clogged air filter</li> </ul>	<ul style="list-style-type: none"> <li>(1) Change the oil, use the non-detergent oil SAE30 or SAE20</li> <li>(2) Evacuate the overflow</li> <li>(3) Readjust the control valve and lower the pressure level</li> <li>(4) Clean the air filter, change if necessary</li> </ul>

# XI. Nomenclature



## Spare Parts List

01.Crankcase	15.Gasket	29.Valve	43.Belt pully	57.Safety valve	71.Spring
02.Gasket	16.Connecting rod	30.Gasket	44.Washer	58.Pressure switch	72.Washer
03.soleplate	17.Circlip	31.Cylinder head	45.Bolt	59.Joins	73.Nut
04.Spring	18.Piston pin	32.Elbow exhaust	46.Cover	60.Pressure gauge	74.Wheel
05.Bolt	19.Piston	33.Spring	47.V belt	61.Connect	75.Bolt
06.Bolt	20.Piston ring	34.Bolt	48.Bolt	62.Regulator	76.Drain cock
07.Gasket	21.Piston ring	35.Ail filter	49.Washer	63.Drain tap	77.Bolt
08.Oil glass	22.Spring	36.Spring	50.Key	64.Pressure gauge	78.Washer
09.Bolt	23.Bolt	37.Bolt	51.Belt pully	65.Unloading pipe	79.Nut
10.Spring	24.Cylinder	38.Crank shaft	52.Electrical wire	66.Elbow bend	80.Foot cushion
11.Bearing cover	25.Gasket	39.Bearing	53.Plug	67.Check valve	81.Bolt
12.Gasket	26.Valve	40.Gasket	54.Motor	68.Exhaust pipe	82.Handle
13.Bearing	27.Valve gasket	41.Bearing cover	55.Bolt	69.Tank	
14.Breath	28.Valve slice	42.Spring	56.Spring	70.Nut	

## XII. Declaration of conformity

**FEIDER**  
MACHINES

Feider

ZI, 32 rue Aristide Bergès – 31270 Cugnaux - France

Declare that the following machine

*Compressor FC200L*

*N/S :*

Is in conformity with the following Directives

Directive Machine 2006/42/EC

Directive EMC 2014/30/EU

Directive RoHS 2011/65/EU

Directive NOISE 2000/14/EC Annex VI & 2005/88/EC

Also in conformity with the following standards

EN 1012-1 :2010

EN 61000-6-1 :2007

EN 61000-6-3 :2007/A1 :2011

EN 62321:2009

Sound power level: 95.2dB(A),K=1.96dB(A)

Guarantee sound power level: 97dB(A)

Responsible of technical file: M. Olivier Patriarca

Cugnaux: 25/10/2018

Philippe MARIE/PDG

## DISPOSAL



Electrical products should not be discarded with household products. According to the European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation into national law, electrical products used must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.