

WARNING:

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

AVERTISSEMENT:

La poussière résultant d'un ponçage, d'un sciage, d'un meulage, d'un perçage ou de toute autre activité de construction renferme des produits chimiques qui sont connus par l'Etat de Californie pour causer des cancers, des malformations congénitales et autres anomalies de reproduction. Nous énumérons ci-dessous certains de ces produits chimiques :

- Plomb des peintures à base de plomb,
- Silice cristalline des briques et du ciment et autres matériaux de maçonnerie, et
- Arsenic et chrome du bois d'œuvre traité chimiquement.

Le risque d'exposition à ces substances varie en fonction de la fréquence d'exécution de ce genre de travail. Pour réduire l'exposition à ces produits chimiques, travailler dans un lieu bien ventilé, et porter un équipement de protection agréé, par exemple un masque anti-poussière spécialement conçu pour filtrer les particules microscopiques.

ADVERTENCIA:

Algunos polvos creados por el lijado mecánico, el aserrado, el esmerilado, el taladrado y otras actividades de construcción contienen sustancias químicas consideradas por el Estado de California como cancerígenas, causantes de defectos en el feto y otros daños reproductivos. Algunos ejemplos de estas sustancias químicas son:

- El plomo de las pinturas a base de plomo,
- El sílice cristalino de los ladrillos y cemento y otros productos de mampostería, y
- El arsénico y el cromo de la madera tratada químicamente.

El riesgo resultante de la exposición varía según la frecuencia con que se realiza este tipo de trabajo. Para reducir la exposición a estas sustancias químicas: trabaje en un lugar bien ventilado y realice el trabajo utilizando el equipamiento apropiado, tal como las máscaras para el polvo especialmente diseñadas para eliminar las partículas minúsculas.

Issued by

Hitachi Koki Co., Ltd.

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Minato-ku, Tokyo 108-6020, Japan

Distributed by

Hitachi Koki U.S.A., Ltd.

3950 Steve Reynolds Blvd.
Norcross, GA 30093

Hitachi Koki Canada Corp.

450 Export Blvd. Unit B,
Mississauga ON L5S 2A4

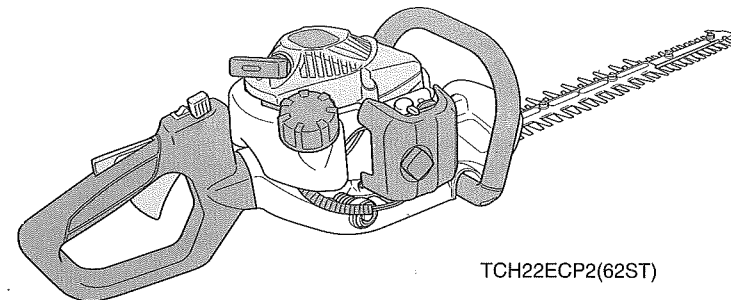
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Code No. E99252861 NA
Printed in China

Tanaka

Designed for operating in USA & Canada only.
When this product is used in areas other than the USA & Canada,
we cannot guarantee the product quality and performance.

Model	TCH 22EAP2 (50ST)/TCH 22EBP2 (62ST)	Hedge Trimmer
Modèle	TCH 22ECP2 (62ST)/TCH 22ECP2 (78ST)	Taille-Haies
Modelo		Cortasetos



TCH22ECP2(62ST)



SAFETY INSTRUCTIONS AND INSTRUCTION MANUAL

⚠ WARNING

IMPROPER OR UNSAFE use of this power tool can result in death or serious bodily injury!

This manual contains important information about product safety. Please read and understand this manual **BEFORE** operating the power tool. Please keep this manual available for other users and owners before they use the power tool. This manual should be stored in safe place.

INSTRUCTIONS DE SECURITE ET MODE D'EMPLOI

⚠ AVERTISSEMENT

Une utilisation **INCORRECTE OU DANGEREUSE** de cet outil motorisé peut entraîner la mort ou de sérieuses blessures corporelles !

Ce mode d'emploi contient d'importantes informations à propos de la sécurité de ce produit. Prière de lire et de comprendre ce mode d'emploi **AVANT** d'utiliser l'outil motorisé. Garder ce mode d'emploi à la disponibilité des autres utilisateurs et propriétaires avant qu'ils utilisent l'outil motorisé. Ce mode d'emploi doit être conservé dans un endroit sûr.

INSTRUCCIONES DE SEGURIDAD Y MANUAL DE INSTRUCCIONES

⚠ ADVERTENCIA

¡La utilización **INAPROPIADA O PELIGROSA** de esta herramienta eléctrica puede provocar lesiones graves o la muerte!

Este manual contiene información importante sobre la seguridad del producto. Lea y comprenda este manual **ANTES** de utilizar la herramienta eléctrica. Guarde este manual para que puedan leerlo otras personas antes de utilizar la herramienta eléctrica. Este manual debe ser guardado en un lugar seguro.

Hitachi Koki

MEANINGS OF SYMBOLS

NOTE: Some units do not carry them.

Symbols			
⚠ WARNING The following show symbols used for the machine. Be sure that you understand their meaning before use.			
	It is important that you read, fully understand and observe the following safety precautions and warnings. Careless or improper use of the unit may cause serious or fatal injury.		Off/Stop
	Read, understand and follow all warnings and instructions in this manual and on the unit.		Emergency stop
	Always wear eye, head and ear protectors when using this unit.		Fuel and oil mixture
	Choke - Run position (Open)		Hot surface
	Choke - Choked position (Closed)	Before using your machine • Read the manual carefully. • Check that the cutting equipment is correctly assembled and adjusted. • Start the unit and check the carburetor adjustment. See "MAINTENANCE".	
	On/Start		

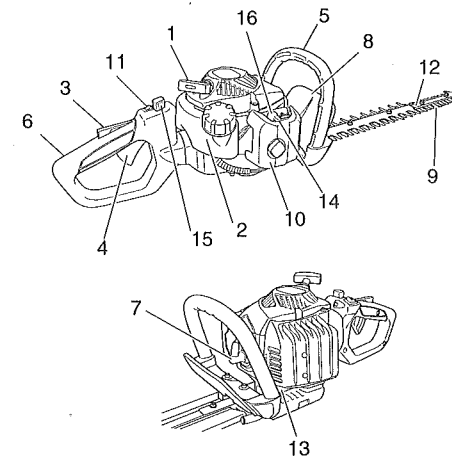
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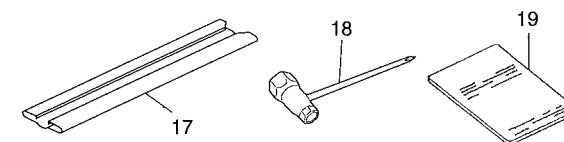
WHAT IS WHAT?

Since this manual covers several models, there may be some difference between these illustrations and your unit. Use the instructions that apply to your unit.

1. Recoil starter
2. Fuel tank
3. Throttle lever lockout
4. Throttle lever
5. Front handle
6. Rear handle
7. Spark plug
8. Hand guard
9. Cutting blade
10. Air cleaner
11. Stop switch
12. Blade guide
13. Gear case
14. Choke lever
15. Lock lever
16. Priming pump
17. Blade case
18. Combi box spanner
19. Handling instructions



TCH22EAP2 (50ST), TCH22EBP2 (62ST)
TCH22ECP2 (62ST), TCH22ECP2 (78ST)



WARNINGS AND SAFETY INSTRUCTIONS

Keep for future reference.

THIS HEDGE TRIMMER CAN CAUSE SERIOUS INJURIES. Read the instructions carefully for the correct handling, preparation, maintenance, starting and stopping of the hedge trimmer. Become familiar with all controls and the proper use of the hedge trimmer.

Operator safety

- Always wear a safety face shield or goggles.
- Always wear heavy, long pants, boots and gloves. Do not wear loose clothing, jewelry, short pants, sandals or go barefoot. Secure hair so it is above shoulder length.
- Do not operate this tool when you are tired, ill or under the influence of alcohol, drugs or medication.
- Never let a child or inexperienced person operate the machine.
- Beware of overhead power lines.
- Wear hearing protection.
- Never start or run the engine inside a closed room or building. Breathing exhaust fumes can kill.
- Keep handles free of oil and fuel.
- Keep hands away from cutting equipment.
- Do not grab or hold the unit by the cutting equipment.
- When the unit is turned off, make sure the cutting attachment has stopped before the unit is set down.
- When operation is prolonged, take a break from time to time so that you may avoid possible Hand-Arm Vibration Syndrome (HAVS) which is caused by vibration.
- If the cutting mechanism strikes any foreign object or the hedge trimmer starts making any unusual noise or vibration, shut off the power source and allow the hedge trimmer to stop. Disconnect the spark plug wire from the spark plug and take the following steps:
 - Inspect for damage;
 - Check for, and tighten, any loose parts;
 - Have any damaged parts replaced or repaired with parts having equivalent specifications.

⚠ WARNING

- **Antivibration systems do not guarantee that you will not sustain Hand-Arm Vibration Syndrome or carpal tunnel syndrome.**

Therefore, continual and regular users should monitor closely the condition of their hands and fingers. If any symptoms of the above appear, seek medical advice immediately.

- If you are using any medical electric/electronic devices such as a pacemaker, consult your physician as well as the device manufacturer prior to operating any power equipment.
- When a foreign object is caught in the blade, turn off the engine, and remove the foreign object carefully using a plier etc., after the hedge trimmer has been cooled down. Be careful when removing the foreign object, since the blade may move because of the backlash.

Unit/machine safety

- Inspect the entire unit/machine before each use. Replace damaged parts. Check for fuel leaks and make sure all fasteners are in place and securely tightened.
- Replace parts that are cracked, chipped or damaged in any way before using the unit/machine.
- Keep others away when making carburetor adjustments.
- Use only accessories as recommended for this unit/machine by the manufacturer.

⚠ WARNING

Never modify the unit/machine in any way. Do not use your unit/machine for any job except that for which it is intended.

Fuel safety

- Mix and pour fuel outdoors and where there are no sparks or flames.
- Use a container approved for fuel.
- Never remove the fuel cap or add fuel with the power source running. Allow engine and exhaust components to cool down before refuelling.
- Do not smoke or allow smoking near fuel or the unit/machine or while using the unit/machine.
- Never refuel indoors.
- Wipe up all fuel spills before starting engine.
- Move at least 3 m away from fueling site before starting engine.
- Stop engine before removing fuel cap.
- Empty the fuel tank before storing the unit/machine. It is recommended that the fuel be emptied after each use. If fuel is left in the tank, store so fuel will not leak.

- Store unit/machine and fuel in area where fuel vapors cannot reach sparks or open flames from water heaters, electric motors or switches, furnaces, etc.

⚠ WARNING

Fuel is easy to ignite or get explosion or inhale fumes, so that pay special attention when handling or filling fuel.

Cutting safety

- Do not cut any material other than plant hedge.
- Inspect the area to be cut before each use. Remove objects which can be thrown or become entangled.
- For respiratory protection, wear an aerosol protection mask when cutting the grass after insecticide is scattered.
- Keep others including children, animals, bystanders and helpers outside the 15 m hazard zone. Stop the engine immediately if you are approached.
- Hold the unit/machine firmly with both hands.
- Keep firm footing and balance. Do not over-reach.
- Keep all parts of your body away from the muffler and cutting attachment when the engine is running.
- Keep cutting tool below shoulder level. NEVER operate unit from a ladder, while in a tree or from any unstable support.
- When relocating to a new work area, be sure to shut off the machine and ensure that all cutting attachments are stopped.
- Never place the machine on the ground when running.
- Always carry a first-aid kit when operating any power equipment.
- Never start or run the engine inside a closed room or building and/or near the inflammable liquid. Breathing exhaust fumes can kill.

Maintenance safety

- Maintain the unit/machine according to recommended procedures.
- Disconnect the spark plug before performing maintenance except for carburetor adjustments.
- Keep others away when making carburetor adjustments.
- Use only genuine Tanaka replacement parts as recommended by the manufacturer.
- When the hedge trimmer is stopped for servicing, inspection or storage, shut off the power source, disconnect the spark plug wire from the spark plug and make sure all moving parts have come to a stop.

Allow the hedge trimmer to cool before making any inspection, adjustment, etc.

Transport and storage

- Carry the unit/machine by hand with the engine stopped and the muffler away from your body.
- Allow the engine to cool, empty the fuel tank, and secure the unit/machine before storing or transporting in a vehicle.
- Empty the fuel tank before storing the unit/machine. It is recommended that the fuel be emptied after each use. If fuel is left in the tank, store so fuel will not leak.
- Store unit/machine out of the reach of children.
- Clean and maintain the unit carefully and store it in a dry place.
- Make sure engine switch is off when transporting or storing.
- When transporting in a vehicle or storage, cover blade with blade cover.

If situations occur which are not covered in this manual, take care and use common sense. Contact your Tanaka dealer if you need assistance. Pay special attention to statements preceded by the following words:

⚠ WARNING

Indicates a strong possibility of severe personal injury or loss of life, if instructions are not followed.

⚠ CAUTION

Indicates a possibility of personal injury or equipment damage, if instructions are not followed.

NOTE

Helpful information for correct function and use.

⚠ CAUTION

Do not disassemble the recoil starter. You may get a possibility of personal injury with recoil spring.

SPECIFICATIONS

MODEL	TCH22EAP2 (50ST)	TCH22EBP2 (62ST)	TCH22ECP2 (62ST)	TCH22ECP2 (78ST)
Engine Size (cu. in.)	1.34 (21.1 ml)			
Spark Plug	Champion CJ 6			
Fuel Tank Capacity (fl. oz.)	10.1 (0.30 l)			
Dry Weight (lbs)	9.5 (4.3 kg)	10.4 (4.7 kg)	11.0 (5.0 kg)	11.5 (5.2 kg)
Overall blade length (in.)	19.7 (500 mm)	24.4 (620 mm)	24.4 (620 mm)	30.7 (780 mm)
Blade type	Double-sided			
Sound pressure level LpA (dB(A)) (ISO 10517)	84			
Sound power level Lw measured (dB (A)) (2000/14/EC, ISO 10517)	102			
LwA (dB (A))	104			
Vibration level (m/s ²) (ISO 10517)				
Front handle	7.0	9.1	2.8	2.8
Rear handl	7.5	9.1	3.4	2.8

NOTE

Equivalent noise level/vibration level are calculated as the time-weighted energy total for noise/vibration levels under various working conditions with the following time distribution: ISO 10517.....1/5 idle, 4/5 racing. 2000/14/EC.....only racing.

* All data is subject to change without notice.

OPERATING PROCEDURES

Fuel (Fig. 1)

⚠ WARNING

The hedge trimmer is equipped with a two-stroke engine. Always run the engine on fuel, mixed with oil.

Provide good ventilation, when fueling or handling fuel.

Fuel

- Always use branded 89 octane unleaded gasoline.
- Use genuine two-cycle oil or use a mix between 25:1 to 50:1, please consult the oil bottle for the ratio or Tanaka dealer.
- Only for the state of California at 50:1.
- If genuine oil is not available, use an anti-oxidant added quality oil expressly labeled for air-cooled 2-cycle engine use (JASO FC GRADE OIL or ISO EGC GRADE). Do not use BIA or TCW (2-stroke water-cooling type) mixed oil.
- Never use multi-grade oil (10W/30) or waste oil.
- Always mix fuel and oil in a separate clean container.

Always start by filling half the amount of fuel, which is to be used. Then add the whole amount of oil. Mix (shake) the fuel mixture. Add the remaining amount of fuel.

Mix (shake) the fuel-mix thoroughly before filling the fuel tank.

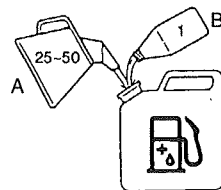


Fig. 1

Fueling

⚠ WARNING (Fig. 2)

- Always shut off the engine before refueling.
- Slowly open the fuel tank (1), when filling up with fuel, so that possible over-pressure disappears.
- Tighten the fuel cap carefully, after fueling.
- Always move the unit at least 10 ft (3 m) from the fueling area before starting.

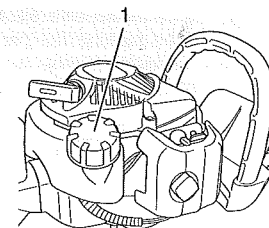


Fig. 2

Before fueling, clean the tank cap area carefully, to ensure that no dirt falls into the tank. Make sure that the fuel is well mixed by shaking the container, before fueling.

Starting

⚠ CAUTION

Before starting, make sure the cutting attachment does not touch anything.

1. Set stop switch (2) to ON position (A). (Fig. 3)

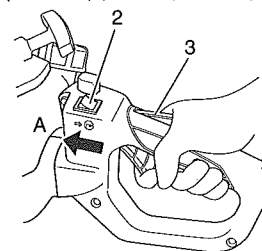


Fig. 3

2. Set choke lever (5) to CLOSED position (B). (Fig. 5)

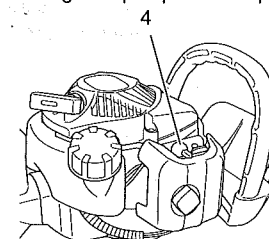


Fig. 4

* Push priming pump (4) several times so that fuel flows through the pump or return pipe. (Fig. 4)

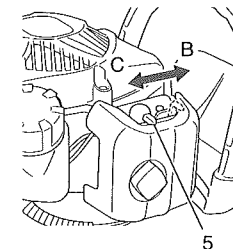


Fig. 5

3. Pull recoil starter briskly, taking care to keep the handle in your grasp and not allowing it to snap back. (Fig. 6)

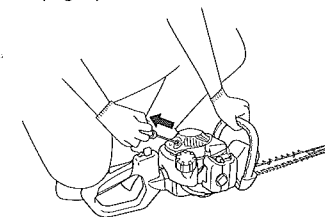


Fig. 6

4. When you hear the engine attempts to start, return choke lever to RUN position (open) (C). Then pull recoil starter briskly again.

NOTE

If engine does not start, repeat procedures from 2 to 3.

5. After starting engine, allow the engine about 2-3 minutes to warm up before subjecting it to any load.

Cutting

When cutting, operate engine at full throttle as this maintains proper blade speed. When trimming top of hedge, hold trimmer so blades are between 15 and 30 degrees from a horizontal position and swing trimmer in an arc toward edge of hedge to sweep cuttings off. When trimming sides of hedge, hold blade vertically and swing unit in an arc.

NOTE

- Multi-position twist handle (Fig. 7)

The rear control handle turns 90 degrees to provide comfortable use while accommodating a variety of cutting angles. The handle allows for five different locking positions. Before attempting to adjust rear handle, make sure the machine is at idle or engine is shut off.

- The throttle lever cannot be engaged if the handle is not secured (the lock lever is pressed). To rotate the handle; push the lock lever (6) allowing the handle to turn. Rotate the handle to the desired 0°, 45° or 90° locking position and release the lock lever (6) to lock the handle in place.

D: LOCK
E: UNLOCK

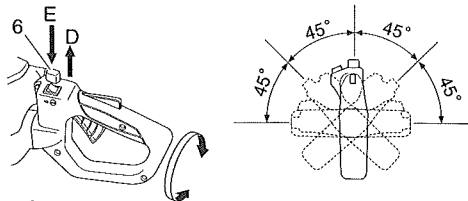


Fig. 7

Stopping (Fig. 8)

Decrease engine speed, and push stop switch to stop position (F).

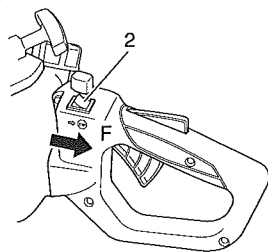


Fig. 8

NOTE

If the engine does not stop, it can be forced to stop by rotating the choke lever to the choked position. Before restarting the engine, ask our dealer for repairs.

MAINTENANCE

MAINTENANCE, REPLACEMENT OR REPAIR OF THE EMISSION CONTROL DEVICES AND SYSTEM MAY BE PERFORMED BY ANY NONROAD ENGINE REPAIR ESTABLISHMENT OR INDIVIDUAL.

Carburetor adjustment (Fig. 9)

⚠ WARNING

- The cutting attachment may be spinning during carburetor adjustments.
- Never start the engine without the complete cleaner cover. Otherwise the clutch can come loose and cause personal injuries.

In the carburetor, fuel is mixed with air. When the engine is test run at the factory, the carburetor is adjusted. A further adjustment may be required, according to climate and altitude. The carburetor has one adjustment possibility:

T = Idle speed adjustment screw.

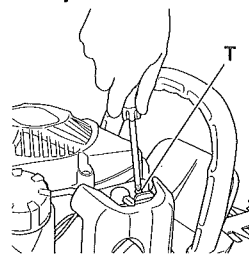


Fig. 9

Idle speed adjustment (T)

Check that the air filter is clean. When the idle speed is correct, the cutting attachment will not rotate. If adjustment is required, close (clockwise) the T-screw, with the engine running, until the cutting attachment starts to rotate. Open (counter-clockwise) the screw until the cutting attachment stops. You have reached the correct idle speed when the engine runs smoothly in all positions well below the rpm when the cutting attachment starts to rotate.

If the cutting attachment still rotates after idle speed adjustment, contact Tanaka dealer.

Air filter (Fig. 10)

The air filter must be cleaned from dust and dirt in order to avoid:

- Carburetor malfunctions.
- Starting problems.
- Engine power reduction.
- Unnecessary wear on the engine parts.
- Abnormal fuel consumption.

Clean the air filter daily or more often if working in exceptionally dusty areas.

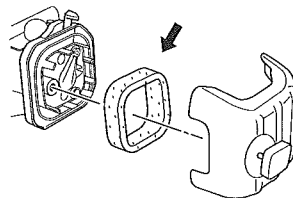


Fig. 10

Cleaning the air filter

Remove the cleaner cover and the filter. Rinse it in warm soap suds. Check that the filter is dry before reassembly. An air filter that has been used for some

time cannot be cleaned completely. Therefore, it must regularly be replaced by a new one. A damaged filter must always be replaced.

NOTE

Saturate the element in 2-cycle oil or the equivalent. Squeeze the element to distribute the oil completely and to remove any excess oil.

Spark plug (Fig. 11)

The spark plug condition is influenced by:

- An incorrect carburetor setting.
- Wrong fuel mixture (too much oil in the gasoline).
- A dirty air filter.
- Hard running conditions (such as cold weather).

These factors cause deposits on the spark plug electrodes, which may result in malfunction and starting difficulties. If the engine is low on power, difficult to start or runs poorly at idling speed, always check the spark plug first. If the spark plug is dirty, clean it and check the electrode gap. Readjust if necessary. The correct gap is 0.024" (0.6 mm). The spark plug should be replaced after about 100 operation hours or earlier if the electrodes are badly eroded.

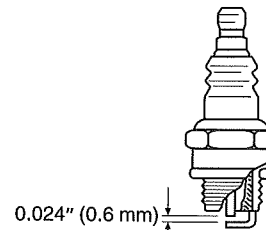


Fig. 11

NOTE

In some areas, local law requires using a resistor spark plug to suppress ignition signals. If this machine was originally equipped with resistor spark plug, use the same type of spark plug for replacement.

Lubricating the blade (Fig. 12)

During trimming, sap adhering to the blade edge will increase load.

Use machine oil (or bicycle oil or the like) to lubricate the blade and wipe the blade with a cloth. To prevent the blade from rusting, be sure to lubricate the blade after use and when it will not be used for an extended period of time before placing it in the blade case.

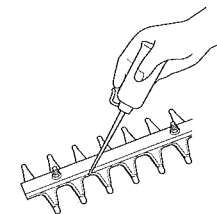


Fig. 12

Gear case (Fig. 13)

Apply a good quality lithium based grease through the grease fitting until a small amount comes out between the cutting blades and the gear case. Lubricate the grease from the grease nipple (indicated by an arrow) next to the gear case using a commercially available cartridge grease gun.

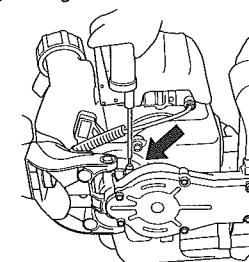


Fig. 13

NOTE

Lubrication should be applied 3g at 20 hour intervals and more frequently with heavy use.

Fuel filter (Fig. 14)

Remove the fuel filter from the fuel tank and thoroughly wash it in solvent. After that, push the filter into the tank completely.

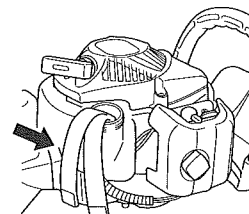


Fig. 14

NOTE

If the filter is hard due to dust and dirt, replace it.

Cleaning the cylinder fins (Fig. 15)

When leaves get caught between cylinder fins (7), the engine may overheat, resulting in lower output. To avoid this, always keep cylinder fins and cylinder cover clean.

Every 100 operating hours, or once a year (more often if conditions require), clean fins and external surfaces of engine of dust, dirt and oil deposits which can contribute to improper cooling.

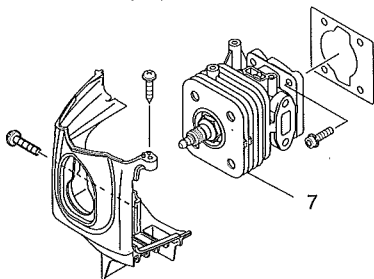


Fig. 15

Cleaning the muffler (Fig. 16)

Remove the muffler and spark arrestor (if so equipped), and clean out any excess carbon from the exhaust port or muffler inlet every 100 hours of operation.

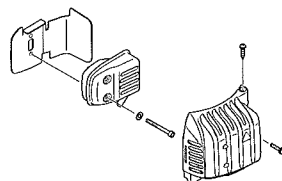


Fig. 16

For long-term storage

Drain all fuel from the fuel tank. Start and let engine run until it stops. Repair any damage which has resulted from use. Clean the unit with a clean rag, or high pressure air hose. Put a few drops of two-cycle engine oil into the cylinder through the spark plug hole, and spin the engine over several times to distribute oil. Cover the unit and store it in a dry area.

Maintenance schedule

Below you will find some general maintenance instructions. For further information please contact your Tanaka dealer.

Daily maintenance

- Clean the exterior of the hedge trimmer.
- Check the blade guide for damage or cracks. Change the guard in case of impacts or cracks.
- Check that the blade is sharp, and without cracks.

- Check that the blade nut is sufficiently tightened.
- Make sure that the blade blunt guard is undamaged and that it can be securely fitted.
- Check that nuts and screws are sufficiently tightened.

Weekly maintenance

- Check the starter, especially cord and return spring.
- Clean the exterior of the spark plug.
- Remove it and check the electrode gap. Adjust it to 0.024" (0.6 mm), or change the spark plug.
- Clean the cooling fins on the cylinder and check that the air intake at the starter is not clogged.
- Check gear case is filled with grease.
- Clean the air filter.

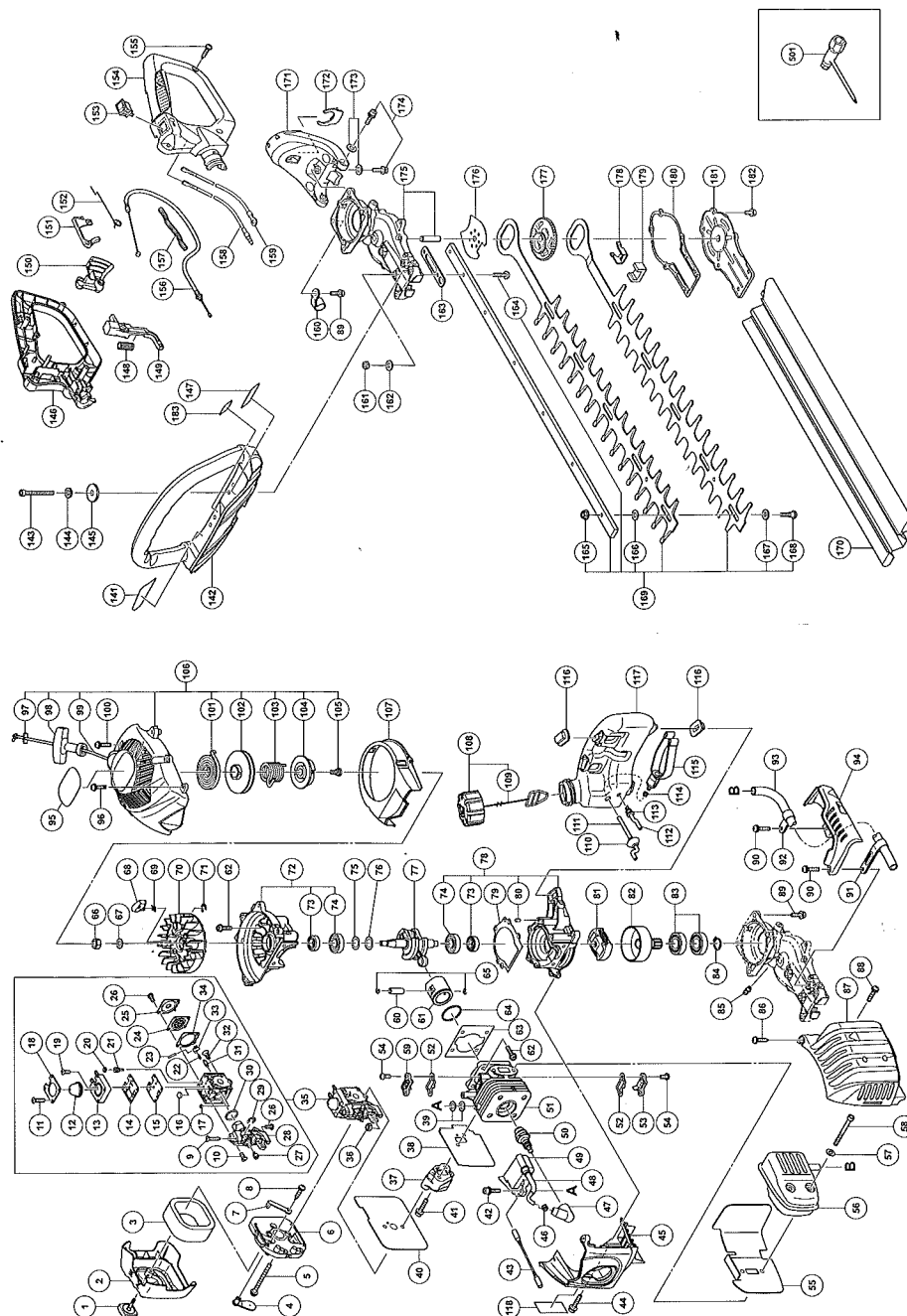
Monthly maintenance

- Rinse the fuel tank with gasoline.
- Clean the exterior of the carburetor and the space around it.
- Clean the fan and the space around it.

TROUBLESHOOTING

Use the inspections in the table below if the tool does not operate normally. If this does not remedy the problem, consult your dealer or the Tanaka dealer.

	Symptom	Possible cause	Remedy
Tool	Does not operate.	Foreign matter is lodged in the blade.	When there is foreign matter in the blade, use a pair of tongs or similar tool to remove it. Take great care since the tool may start operating when the foreign matter has been removed. Sap or rust may also prevent the blade from operating. Use a wire brush or similar tool to remove sap or rust.
	The tool does not trim well.	The blade stopped because it was used to cut a branch whose width exceeded the blade's cutting capacity. NOTE Work that will repeatedly cause the blade to stop will eventually damage the tool.	Some garden trees have wood that is very hard and may be beyond the capacity of the tool even if it is of a width that is within normal capacity. Use a pair of pruning shear to remove thick branches before starting work. An oblique cut may also exceed the capacity of the tool since the length of the cut increases. Be sure to trim thick branches



TCH22EAP2 (50ST)

Item No.	Part Name	QTY
1	COVER FIXING BOLT COMP.	1
2	CLEANER COVER	1
3	CLEANER SPONGE	1
4	CHOKE VALVE	1
5	MACHINE SCREW (W/ WASHERS) M5x60	2
6	CLEANER BODY	1
7	CHOKE HANDLE	1
8	TAPPING SCREW (W/FLANGE) D4x12	1
9	THROTTLE ADJUST SCREW (TAS)	1
10	SET SCREW (B)	3
11	SET SCREW (D)	4
12	SYRINGE	1
13	PRIMER BASE	1
14	PUMP GASKET	1
15	PUMP DIAPHRAGM	1
16	STRAINER	1
17	GUIDE PIN ROLLER	1
18	SYRINGE RETAINER	1
19	SET SCREW (E)	1
20	BALL PLUG RETAINER	1
21	ADJUSTING SCREW (MAIN MIXTURE)	1
22	METERING LEVER SPRING	1
23	PIN	1
24	METERING DIAPHRAGM	1
25	METERING COVER	1
26	SET SCREW (C)	3
27	POST	1
28	ROTOR COVER	1
29	RETAINING RING (E-TYPE) FOR D2.5 SHAFT	1
30	O-RING	1
31	INLET NEEDLE VALVE	1
32	SET SCREW (A)	1
33	METERING LEVER	1
34	METERING GASKET	1
35	CARBURETOR ASS'Y (INCLUD.9-34)	1
36	LOCK NUT M6	1
37	CARBURETOR INSULATOR	1
38	INTAKE PACKING	1
39	GLASS WASHER	4
40	CARBURETOR PACKING	1
41	SEAL LOCK HEX. SOCKET BOLT (W/WASHERS) M5x25	2
42	HEX. SOCKET HD. BOLT (W/WASHERS) M4x18	2
43	CORD	1
44	SEAL LOCK HEX. SOCKET HD. BOLT M4x12	1
45	CYLINDER COVER	1
46	METAL OF PLUG CAP (60) (B)	1
47	PLUG CAP	1
48	CORD INSULATION TUBE	1
49	IGNITION COIL	1
50	SPARK PLUG	1
51	CYLINDER	1
52	COVER PACKING	2
53	INTAKE COVER (A)	1
54	SEAL LOCK SCREW M4x10	4
55	HEAT PROTECTION PANEL	1
56	MUFFLER	1
57	BOLT WASHER M6	2

Item No.	Part Name	QTY
58	HEX. SOCKET HD. BOLT M6x55	2
59	INTAKE COVER (B)	1
60	PISTON PIN	1
61	PISTON	1
62	HEX. SOCKET HD. BOLT (W/SP.WASHER) M5x18	8
63	CYLINDER PACKING	1
64	PISTON RING	1
65	CIR CLIP	2
66	FLYWHEEL NUT M7	1
67	BOLT WASHER D7	1
68	STARTER PAWL	2
69	STARTER PAWL SPRING	2
70	MAGNETO ROTOR	1
71	RETAINING RING D4	2
72	CRANK CASE (B) ASS'Y (INCLUD.73,74)	1
73	OIL SEAL TB 12227	2
74	BALL BEARING 6001C3	2
75	SHIM T0.2	1
76	SHIM T0.3	1
77	CRANK SHAFT	1
78	CRANK CASE (A) ASS'Y (INCLUD.73,74,80)	1
79	CRANK CASE PACKING	1
80	KNOCK PIN 4x12	2
81	CLUTCH ASS'Y (B)	1
82	CLUTCH DRUM	1
83	BALL BEARING 6002ZC3	2
84	RETAINING RING FOR D15 SHAFT	1
85	GREASE NIPPLE COMP.	1
86	TAPPING SCREW (W/FLANGE) D5x20	1
87	MUFFLER PROTECTOR	1
88	MACHINE SCREW (W/SP.WASHERS) M5x16	1
89	HEX. BOLT 6x18/S	4
90	HEX. SOCKET HD. BOLT (W/BUTTON) M5x20	2
91	FIXATION PLATE (A)	1
92	FIXATION PLATE (B)	1
93	TAIL PIPE (A)	1
94	EXHAUST COVER	1
95	LABEL	1
96	TAPPING SCREW D4.5x16	1
97	PLATE	1
98	STARTER KNOB	1
99	STARTER ROPE	1
100	HEX. SOCKET HD. BOLT (W/BUTTON) M5x20	3
101	RECOIL SPRING	1
102	STARTER ROPE REEL	1
103	DAMPER SPRING	1
104	CAM PLATE	1
105	SET SCREW	1
106	RECOIL STARTER ASS'Y (INCLUD.97-99,101-105)	1
107	AIR DEFLECTOR	1
108	FUEL TANK CAP ASS'Y (INCLUD.109)	1
109	TANK CAP CHAIN	1
110	FUEL GROMMET	1
111	FUEL PIPE	1
112	FUEL PIPE (PINK)	1
113	RETURN GROMMET	1

Item No.	Part Name	QTY
114	CLIP	1
115	PUMP FILTER	1
116	CUSHION RUBBER	4
117	TANK	1
118	CAUTION LABEL	1
141	NAME PLATE	1
142	HANDLE	1
143	SEAL LOCK HEX. SOCKET HD. BOLT M5x40	2
144	SPRING WASHER M5	2
145	BRAKE AXIS WASHER	2
146	HANDLE A	1
147	CAUTION LABEL	1
148	SPRING (A)	1
149	LOCK LEVER	1
150	THROTTLE LEVER	1
151	TRIGGER LOCKOUT	1
152	THROTTLE LEVER SPRING	1
153	STOP SWITCH	1
154	HANDLE B	1
155	TAPPING SCREW (W/FLANGE) D4x16	4
156	THROTTLE WIRE	1
157	PROTECTION TUBE	1
158	STOP SWITCH CORD	1
159	STOP SWITCH CORD (B)	1
160	FIXATION PLATE (B)	1
161	NYLON NUT M5	2
162	SMALL WASHER 5	2
163	SPACER	1
164	HEX. SOCKET HD. BOLT (W/BUTTON) M5x25	2
165	U-NUT M5	5
166	WASHER (B)	5
167	WASHER M7	5
168	SHOULDER BUTTON BOLT M5x25	5
169	BLADE ASS'Y (INCLUD.164-168)	1
170	BLADE CASE (A)	1
171	HANDLE BRACKET	1
172	CLIP	1
173	BOLT WASHER D5	3
174	SEAL LOCK HEX. SOCKET BOLT (W/WASHERS) M5x16	3
175	GEAR CASE (A) ASS'Y (INCLUD.176)	1
176	GUIDE PLATE (C)	1
177	GEAR 2	1
178	GUIDE PLATE (A)	1
179	FELT PACKING (A)	1
180	GEAR CASE PACKING	1
181	GEAR CASE COVER	1
182	HEX. SOCKET HD. BOLT (W/SP.WASHER) M5x12	6
183	START LABEL (B)	1
501	BOX WRENCH 10/19MM	1

EPA / CALIFORNIA EMISSIONS CONTROL

WARRANTY STATEMENT

THE US EPA, THE CALIFORNIA AIR RESOURCES BOARD AND HITACHI KOKI U.S.A., LTD. ARE PLEASED TO EXPLAIN THE EXHAUST AND EVAPORATIVE EMISSION CONTROL SYSTEM WARRANTY ON YOUR 2007 AND LATER SMALL OFF ROAD HAND HELD ENGINE. NEW EQUIPMENT THAT USE SMALL OFF ROAD ENGINES MUST BE DESIGNED, BUILT AND EQUIPPED TO MEET STRINGENT FEDERAL AND STATE ANTI-SMOG STANDARDS. HITACHI KOKI U.S.A., LTD. MUST WARRANT THE EMISSION CONTROL SYSTEM ON YOUR SMALL OFF ROAD HAND HELD ENGINE FOR THE PERIODS OF TIME LISTED BELOW PROVIDED THERE HAS BEEN NO ABUSE, NEGLECT OR IMPROPER MAINTENANCE OF SMALL OFF ROAD ENGINE.

YOUR EMISSION CONTROL SYSTEM MAY INCLUDE PARTS SUCH AS: CARBURATEURS OR FUEL INJECTION SYSTEM, IGNITION SYSTEM, CATALYTIC CONVERTERS, FUEL TANKS, VALVES, FILTERS, CLAMPS, CONNECTORS, AND OTHER ASSOCIATED COMPONENTS. ALSO INCLUDED MAY BE HOSES, BELTS, CONNECTORS, SENSORS, AND OTHER EMISSION-RELATED ASSEMBLIES.

WHERE A WARRANTABLE CONDITION EXISTS, HITACHI KOKI U.S.A., LTD. WILL REPAIR YOUR SMALL OFF ROAD HAND HELD ENGINE AT NO COST TO YOU INCLUDING DIAGNOSIS, PARTS AND LABOR.

MANUFACTURER'S WARRANTY COVERAGE:

THE EMISSIONS CONTROL SYSTEM IS WARRANTED FOR TWO YEARS. IF ANY EMISSION RELATED PART ON YOUR ENGINE IS DEFECTIVE, THE PART WILL BE REPAIRED OR REPLACED BY HITACHI KOKI U.S.A., LTD.

OWNER'S WARRANTY RESPONSIBILITIES:

AS THE SMALL OFF ROAD HAND HELD ENGINE OWNER, YOU ARE RESPONSIBLE FOR THE PERFORMANCE OF THE REQUIRED MAINTENANCE LISTED IN YOUR OWNER'S MANUAL. HITACHI KOKI U.S.A., LTD. RECOMMENDS THAT YOU RETAIN ALL RECEIPTS COVERING MAINTENANCE ON YOUR SMALL OFF ROAD HAND HELD ENGINE, BUT HITACHI KOKI U.S.A., LTD. CANNOT DENY WARRANTY SOLELY FOR THE LACK OF RECEIPTS OR FOR YOUR FAILURE TO ENSURE THE PERFORMANCE OF ALL SCHEDULED MAINTENANCE.

AS THE SMALL OFF ROAD HAND HELD ENGINE OWNER, YOU SHOULD HOWEVER BE AWARE THAT HITACHI KOKI U.S.A., LTD. MAY DENY YOUR WARRANTY COVERAGE IF YOUR SMALL OFF ROAD HAND HELD ENGINE OR A PART HAS FAILED DUE TO ABUSE, NEGLECT, IMPROPER MAINTENANCE OR UNAPPROVED MODIFICATIONS.

YOU ARE RESPONSIBLE FOR PRESENTING YOUR LAWN AND GARDEN EQUIPMENT ENGINE TO A HITACHI KOKI U.S.A., LTD. SERVICE CENTER AS SOON AS A PROBLEM EXISTS. THE WARRANTY REPAIRS SHOULD BE COMPLETED IN A REASONABLE AMOUNT OF TIME, NOT TO EXCEED 30 DAYS.

IF YOU HAVE ANY QUESTIONS REGARDING YOUR WARRANTY RIGHTS AND RESPONSIBILITIES, YOU SHOULD CONTACT A HITACHI KOKI U.S.A., LTD. CUSTOMER SERVICE REPRESENTATIVE AT (888) 482-6252.

DEFECTS WARRANTY REQUIREMENTS:

(a) THE WARRANTY PERIOD BEGINS ON THE DATE THE ENGINE OR EQUIPMENT IS DELIVERED TO AN ULTIMATE PURCHASER.

(b) GENERAL EMISSIONS WARRANTY COVERAGE. HITACHI KOKI U.S.A., LTD. MUST WARRANT TO THE ULTIMATE PURCHASER AND EACH SUBSEQUENT OWNER THAT THE ENGINE OR EQUIPMENT IS:

1. DESIGNED, BUILT, AND EQUIPPED SO AS TO CONFORM WITH ALL APPLICABLE REGULATIONS ADOPTED BY THE AIR RESOURCES BOARD; AND
2. FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP THAT CAUSES THE FAILURE OF A WARRANTED PART FOR A PERIOD OF TWO YEARS.

(c) THE WARRANTY ON EMISSION RELATED PARTS WILL BE INTERPRETED AS FOLLOWS:

1. ANY WARRANTED PART THAT IS NOT SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE IN THE WRITTEN INSTRUCTIONS REQUIRED BY SUBSECTION (b) MUST BE MAINTAINED FOR THE WARRANTY PERIOD DEFINED IN SUBSECTION (b)(2). IF ANY SUCH PART FAILS DURING THE PERIOD OF WARRANTY AND IT MUST BE REPAIRED OR REPLACED BY THE MANUFACTURER ACCORDING TO SUBSECTION (d) BELOW, ANY SUCH PART REPAIRED OR REPLACED UNDER THE WARRANTY MUST BE WARRANTED FOR THE REMAINING WARRANTY PERIOD.
2. ANY WARRANTED PART THAT IS SCHEDULED FOR REGULAR INSPECTION IN THE WRITTEN INSTRUCTIONS REQUIRED BY SUBSECTION (d) MUST BE WARRANTED FOR THE WARRANTY PERIOD DEFINED IN SUBSECTION (b)(2). A STATEMENT IN SUCH WRITTEN INSTRUCTIONS TO THE EFFECT OF "REPAIR OR REPLACE AS NECESSARY" WILL NOT REDUCE THE PERIOD OF WARRANTY COVERAGE. ANY SUCH PART REPAIRED OR REPLACED UNDER THE WARRANTY FOR THE REMAINING WARRANTY PERIOD.
3. ANY WARRANTED PART THAT IS SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE IN THE WRITTEN INSTRUCTIONS REQUIRED BY SUBSECTION (d) MUST BE WARRANTED FOR THE PERIOD OF TIME PRIOR TO THE FIRST SCHEDULED REPLACEMENT POINT FOR THAT PART. IF THE PART FAILS PRIOR TO THE FIRST SCHEDULED REPLACEMENT, THE PART MUST BE REPAIRED OR REPLACED BY THE ENGINE MANUFACTURER ACCORDING TO SUBSECTION (d) BELOW. ANY SUCH PART REPAIRED OR REPLACED UNDER THE WARRANTY MUST BE WARRANTED FOR THE REMAINDER OF THE PERIOD PRIOR TO THE FIRST SCHEDULED REPLACEMENT POINT FOR THE PART.
4. REPAIR OR REPLACEMENT OF ANY WARRANTED PART UNDER THE WARRANTY MUST BE PERFORMED AT NO CHARGE TO THE OWNER AT A WARRANTY STATION.
5. NOTWITHSTANDING THE PROVISION OF SUBSECTION (d) ABOVE, WARRANTY SERVICES OR REPAIRS MUST BE PROVIDED AT ALL MANUFACTURER DISTRIBUTION CENTERS THAT ARE FRANCHISED TO SERVICE THE SUBJECT ENGINES.
6. THE OWNER MUST NOT BE CHARGED FOR DIAGNOSTIC LABOR THAT LEADS TO THE DETERMINATION THAT A WARRANTED PART IS IN FACT DEFECTIVE, PROVIDED THAT SUCH DIAGNOSTIC WORK IS PERFORMED AT A WARRANTY STATION.
7. THE MANUFACTURER IS LIABLE FOR DAMAGES TO OTHER ENGINE COMPONENTS PROXIMATELY CAUSED BY A FAILURE UNDER WARRANTY OF ANY WARRANTED PART.
8. THROUGHOUT THE EMISSIONS WARRANTY PERIOD DEFINED IN SUBSECTION (b)(2), THE MANUFACTURER MUST MAINTAIN A SUPPLY OF WARRANTED PARTS SUFFICIENT TO MEET THE EXPECTED DEMAND FOR SUCH PARTS.
9. ANY REPLACEMENT PART MAY BE USED IN THE PERFORMANCE OF ANY WARRANTY MAINTENANCE OR REPAIRS AND MUST BE PROVIDED WITHOUT CHARGE TO THE OWNER. SUCH USE WILL NOT REDUCE THE WARRANTY OBLIGATIONS OF THE MANUFACTURER.
10. ADD-ON OR MODIFIED PARTS THAT ARE NOT EXEMPTED BY THE AIR RESOURCES BOARD MAY NOT BE USED. THE USE OF ANY NON-EXEMPTED ADD-ON OR MODIFIED PARTS WILL BE GROUNDS FOR DISALLOWING A WARRANTY CLAIM. THE MANUFACTURER WILL NOT BE LIABLE TO WARRANTY FAILURES OF WARRANTED PARTS CAUSED BY THE USE OF A NON-EXEMPTED ADD-ON OR MODIFIED PART.
11. THE MANUFACTURER ISSUING THE WARRANTY SHALL PROVIDE ANY DOCUMENTS THAT DESCRIBE THAT MANUFACTURER'S WARRANTY PROCEDURES OR POLICIES WITHIN FIVE WORKING DAYS OF REQUEST BY THE AIR RESOURCES BOARD.

(d) EMISSION WARRANTY PARTS LIST

1. FUEL METERING SYSTEM
1. CARBURATOR AND INTERNAL PARTS (AND/OR PRESSURE REGULATOR OR FUEL INJECTION SYSTEM).
2. AIR/FUEL RATIO FEEDBACK AND CONTROL SYSTEM.
3. COLD START ENRICHMENT SYSTEM.
4. FUEL TANK.
2. AIR INJECTION SYSTEM
1. CONTROLLED HOT AIR INTAKE SYSTEM.
2. INTAKE MANIFOLD.
3. AIR FILTER.
3. IGNITION SYSTEM
1. SPARK PLUGS.
2. MAGNETO OR ELECTRONIC IGNITION SYSTEM.
3. SPARK ADVANCE/RETARD SYSTEM.
4. EXHAUST GAS RECIRCULATION (EGR) SYSTEM
1. EGR VALVE BODY, AND CARBURATOR SPARK IF APPLICABLE.
2. EGR RATE FEEDBACK AND CONTROL SYSTEM.
5. AIR INJECTION SYSTEM
1. AIR PUMP OR PULSE VALVE.
2. VALVES AFFECTING DISTRIBUTION OF FLOW.
3. DISTRIBUTION MANIFOLD.
6. CATALYST OR THERMAL REACTOR SYSTEM
1. CATALYTIC CONVERTER.
2. THERMAL REACTOR.
3. EXHAUST MANIFOLD.
7. PARTICULATE CONTROLS
1. TRAPS, FILTERS, PRECIPITATORS, AND ANY OTHER DEVICE USED TO CAPTURE PARTICULATE EMISSIONS.
8. MISCELLANEOUS ITEMS USED IN ABOVE SYSTEMS.
1. ELECTRONIC CONTROLS
2. VACUUM, TEMPERATURE, AND TIME SENSITIVE VALVES AND SWITCHES.
3. HOSES, BELTS, CONNECTORS, AND ASSEMBLIES.

HITACHI KOKI U.S.A., LTD. WILL FURNISH WITH EACH NEW ENGINE WRITTEN INSTRUCTIONS FOR THE MAINTENANCE AND USE OF THE ENGINE BY THE NEW OWNER.

EPA / CONTROL DE EMISIONES EN CALIFORNIA

DECLARACION DE GARANTIA

LA EPA DE EE.UU., LA JUNTA DE RECURSOS DEL AIRE DE CALIFORNIA Y HITACHI KOKI U.S.A., LTD. SE COMPLACEN EN EXPLICAR LA GARANTIA DEL SISTEMA DE CONTROL DE EMISIONES DE ESCAPE Y EVAPORACION DE SU MOTOR DE MANO PEQUEÑO PARA EXTERIORES DE 2007 O POSTERIOR. LOS EQUIPOS NUEVOS QUE USAN MOTORES PEQUEÑOS TIENEN QUE ESTAR DISEÑADOS, FABRICADOS Y EQUIPADOS PARA CUMPLIR LAS ESTRICTAS NORMAS FEDERALES Y ESTATALES CONTRA EL SMOG. HITACHI KOKI U.S.A., LTD. DEBE GARANTIZAR EL SISTEMA DE CONTROL DE EMISION DE SU MOTOR DE MANO PEQUEÑO PARA EXTERIORES POR LOS PERIUDOS DE TIEMPO MENCIONADOS MAS ADELANTE SIEMPRE Y CUANDO EL MISMO NO HAYA SUFRIDO EL ABUSO, NEGLIGENCIA O MANTENIMIENTO INADECUADO.

SU SISTEMA DE CONTROL DE EMISIONES PUEDE INCLUIR PIEZAS COMO: CARBURADORES, SISTEMA DE INYECCION DE COMBUSTIBLE, SISTEMA DE ENCENDIDO, CONVERTIDORES CATALITICOS, TANQUES DE COMBUSTIBLE, VALVULAS, FILTROS, PRENSAS, FILTROS Y OTROS COMPONENTES ASOCIADOS. TAMBIEN PUEDE INCLUIR MANGUERAS, CORREAS, CONECTORES, SENSORES Y OTRAS PIEZAS RELACIONADAS CON LA EMISION.

EN CONDICIONES DE GARANTIA, HITACHI KOKI U.S.A., LTD. REPARARA SU MOTOR DE MANO PEQUEÑO PARA EXTERIORES SIN COSTO ALGUNO INCLUYENDO EL DIAGNOSTICO, LAS PIEZAS Y LA MANO DE OBRA.

COBERTURA DE LA GARANTIA DEL FABRICANTE:

EL SISTEMA DE CONTROL DE EMISIONES ESTA GARANTIZADO POR DOS AÑOS. SI ALGUNA PIEZA RELACIONADA CON LAS EMISIONES DE SU MOTOR ESTUVIERA DEFECTUOSA, LA PIEZA SERA REPARADA O REEMPLAZADA POR HITACHI KOKI U.S.A., LTD.

RESPONSABILIDADES DE LA GARANTIA DEL PROPIETARIO:

COMO PROPIETARIO DEL MOTOR DE MANO PEQUEÑO PARA EXTERIORES, USTED ES RESPONSABLE POR EL MANTENIMIENTO REQUERIDO QUE SE MENCIONA EN SU MANUAL DEL PROPIETARIO. HITACHI KOKI U.S.A., LTD. RECOMIENDA QUE CONSERVE TODOS LOS RECIBOS RELACIONADOS CON EL MANTENIMIENTO DE SU MOTOR, PERO HITACHI KOKI U.S.A., LTD. NO PUEDE NEGAR LA GARANTIA EXCLUSIVAMENTE POR LA FALTA DE LOS RECIBOS O SI USTED NO PUEDE REALIZAR TODOS LOS MANTENIMIENTOS PROGRAMADOS.

COMO PROPIETARIO DEL MOTOR DE MANO PEQUEÑO PARA EXTERIORES, USTED DEBE, SIN EMBARGO, ESTAR CONSCIENTE DE QUE HITACHI KOKI U.S.A., LTD. PUEDE NEGAR LA COBERTURA DE GARANTIA SI SU MOTOR O ALGUNA PIEZA HA DEJADO DE FUNCIONAR DEBIDO AL ABUSO, NEGLIGENCIA, MANTENIMIENTO INADECUADO O MODIFICACIONES NO APROBADAS.

USTED ES RESPONSABLE DE LLEVAR EL MOTOR DE SU EQUIPO PARA JARDIN Y CESPED A UN CENTRO DE SERVICIO AUTORIZADO POR HITACHI KOKI U.S.A., LTD. EN CASO DE SURTIR UN PROBLEMA. LAS REPARACIONES DE GARANTIA SE DEBEN HACER EN UN PERIODO RAZONABLE QUE NO EXCEDA LOS 30 DIAS.

1. TIENE PREGUNTAS SOBRE LOS DERECHOS Y RESPONSABILIDADES DE SU GARANTIA, USTED DEBE COMUNICARSE CON UN REPRESENTANTE DE SERVICIO AL CLIENTE DE HITACHI KOKI U.S.A., LTD. LLAMANDO AL (888) 482-6252.

REQUISITOS DE LA GARANTIA CONTRA DEFECTOS:

(a) EL PERIODO DE GARANTIA COMIENZA EN LA FECHA DE ENTREGA DEL MOTOR O EQUIPO AL COMPRADOR FINAL.

(b) COBERTURA GENERAL DE LA GARANTIA CONTRA EMISIONES. HITACHI KOKI U.S.A., LTD. LE GARANTIZA AL COMPRADOR FINAL Y A CADA PROPIETARIO SUBSIGUIENTE QUE EL MOTOR O EQUIPO ESTA:

1. DISEÑADO, FABRICADO Y EQUIPADO PARA CUMPLIR CON TODAS LAS REGULACIONES APPLICABLES ADOPTADAS POR LA JUNTA DE RECURSOS DEL AIRE, Y
2. LIBRE DE DEFECTOS DE FABRICACION Y MATERIALES QUE OCASIONAN EL FALLO DE PIEZAS GARANTIZADAS POR UN PERIODO DE DOS AÑOS.

(c) LA GARANTIA PARA PIEZAS RELACIONADAS CON LA EMISION SERA INTERPRETADA DE LA SIGUIENTE MANERA:

1. CUALQUIER PIEZA GARANTIZADA QUE ESTE PROGRAMADA PARA SER REEMPLAZADA COMO MANTENIMIENTO REQUERIDO EN LAS INSTRUCCIONES ESCRITAS SEGUN LA SUBSECCION (d) SERA GARANTIZADA POR EL PERIODO DE GARANTIA REFERIDO EN LA SUBSECCION (b)(2). SI ALGUNAS DE ESTAS PIEZAS FALLARA DURANTE EL PERIODO DE GARANTIA, DEBE SER REPARADA O REEMPLAZADA POR EL FABRICANTE DE ACUERDO CON LA SUBSECCION (d) MAS ABAJO. CUALQUIER PIEZA REPARADA O REEMPLAZADA BAJO ESTA GARANTIA CONTINUARA GARANTIZADA POR EL RESTO DEL PERIODO DE GARANTIA.
2. CUALQUIER PIEZA GARANTIZADA QUE ESTE PROGRAMADA PARA INSPECCION REGULAR EN LAS INSTRUCCIONES ESCRITAS SEGUN LA SUBSECCION (d) DEBE SER REPARADA O REEMPLAZADA POR EL PERIODO DE GARANTIA DEFINIDO EN LA SUBSECCION (b)(2). EL PLANTAMIENTO EN DICHAS INSTRUCCIONES ESCRITAS SOBRE "LA REPARACION O EL REEMPLAZO SEGUN SEA NECESARIO" NO REDUCE EL PERIODO DE COBERTURA DE LA GARANTIA. CUALQUIER PIEZA REPARADA O REEMPLAZADA BAJO ESTA GARANTIA CONTINUARA GARANTIZADA POR EL RESTO DEL PERIODO DE GARANTIA.
3. CUALQUIER PIEZA GARANTIZADA QUE ESTE PROGRAMADA PARA SER REEMPLAZADA COMO MANTENIMIENTO REQUERIDO EN LAS INSTRUCCIONES ESCRITAS SEGUN LA SUBSECCION (d) SERA GARANTIZADA POR EL PERIODO ANTERIOR AL PRIMER REEMPLAZO PROGRAMADO PARA DICHA PIEZA. SI LA PIEZA FALLARA ANTES DEL PRIMER REEMPLAZO PROGRAMADO, SERA REPARADA O REEMPLAZADA POR EL FABRICANTE DEL MOTOR SEGUN LA SUBSECCION (d) DESCRITA MAS ABAJO. CUALQUIER PIEZA REPARADA O REEMPLAZADA BAJO ESTA GARANTIA CONTINUARA GARANTIZADA POR EL RESTO DEL PERIODO ANTERIOR AL PRIMER REEMPLAZO PROGRAMADO PARA DICHA PIEZA.
4. LA REPARACION O EL REEMPLAZO DE CUALQUIER PIEZA GARANTIZADA POR ESTA GARANTIA SEÑAL REALIZADOS SIN COSTO ALGUNO PARA EL PROPIETARIO EN UNA ESTACION DE GARANTIA.
5. INDEPENDIENTEMENTE DE LO ESTIPULADO EN LA SUBSECCION (d) ANTERIOR, LOS SERVICIOS O REPARACIONES DE GARANTIA SE OFRECERAN EN TODOS LOS CENTROS DE DISTRIBUCION DEL FABRICANTE QUE SEAN FRANQUICIADOS PARA EL SERVICIO DE LOS MOTORES ESPECIFICOS.
6. NO SE LE COBRARA AL PROPIETARIO POR LA MANO DE OBRA DE DIAGNOSTICO QUE CONDUCE A DETERMINAR SI UNA PIEZA GARANTIZADA ESTA EN REALIDAD DEFECTUOSA. SIEMPRE Y CUANDO DICHO DIAGNOSTICO SEA REALIZADO EN UNA ESTACION DE GARANTIA.
7. BAJO ESTA GARANTIA, EL FABRICANTE SE RESPONSABILIZA POR LOS DAÑOS A OTROS COMPONENTES DEL MOTOR QUE PUEDA HABER OCASIONADO EL FALLO DE CUALQUIER PIEZA GARANTIZADA.
8. DURANTE EL PERIODO DE GARANTIA CONTRA EMISIONES DEFINIDO EN LA SUBSECCION (b)(2), EL FABRICANTE DEBERA MANTENER UN SUMINISTRO DE PIEZAS GARANTIZADAS SUFFICIENTE PARA SATISFACER LA DEMANDA ESPERADA DE DICHAS PIEZAS.
9. SE PUEDEN USAR CUALQUIER PIEZA DE REEMPLAZO PARA CUALQUIER TAREA DE MANTENIMIENTO O REPARACIONES DE GARANTIA Y ESTA SE LE SUMINISTRARA AL PROPIETARIO SIN COSTO ALGUNO. DICHO USO DISMINUYE LAS OBLIGACIONES DE LA GARANTIA DEL FABRICANTE.
10. NO SE PUEDEN EMPLEAR PIEZAS AGREGADAS O MODIFICADAS QUE NO ESTEN EXENTAS POR PARTE DE LA JUNTA DE RECURSOS DE AIRE. EL USO DE CUALQUIER PIEZA AGREGADA O MODIFICADA CONSTITUIRA UN MOTIVO PARA INVALIDAR UNA RECLAMACION DE GARANTIA. EL FABRICANTE NO SE HACE RESPONSABLE DE GARANTIZAR FALLOS DE PIEZAS GARANTIZADAS OCASIONADOS POR EL USO DE OTRAS PIEZAS AGREGADAS O MODIFICADAS.
11. EL FABRICANTE QUE EMITE LA GARANTIA DEBERA PROVEER CUALQUIER DOCUMENTACION QUE DESCRIBA LOS PROCEDIMIENTOS Y LAS POLITICAS DE LA GARANTIA DE ESE FABRICANTE DENTRO DE LOS PRIMEROS CINCO DIAS LABORALES TRAS LA SOLICITUD DE LA JUNTA DE RECURSOS DEL AIRE.

(d) LISTA DE PIEZAS DE LA GARANTIA DE EMISION

1. SISTEMA DE MEDICION DE COMBUSTIBLE
1. CARBURADOR Y PIEZAS INTERNAS (Y/O REGULADOR DE PRESION O SISTEMA DE INYECCION DE COMBUSTIBLE).
2. SISTEMA DE CONTROL Y RETROALIMENTACION DE AIRE/COMBUSTIBLE.
2. SISTEMA DE ENRIQUECIMIENTO DEL ENCENDIDO EN FRIO.
4. TANQUE DE COMBUSTIBLE.
2. SISTEMA DE INYECCION DE AIRE
1. SISTEMA DE ENTRADA CONTROLADA DE AIRE CALIENTE.
3. FILTRO DE AIRE.
3. SISTEMA DE ENCENDIDO.
1. BUJIAS.
2. SISTEMA DE ENCENDIDO ELECTRONICO O POR MAGNETO
3. SISTEMA DE AVANCE/RETARDO DE CHISPA.
4. SISTEMA DE RECIRCULACION DEL GAS DE ESCAPE (EGR).
1. ESTRUCTURA DE LA VALVULA DEL EGR Y ESPACIADOR DEL CARBURADOR SI CORRESPONDE.
2. SISTEMA DE CONTROL Y RETROALIMENTACION DEL INDICE DE EGR.
5. SISTEMA DE INYECCION DE AIRE
1. BOMBA DE AIRE O VALVULA DE PULSO.
2. VALVULAS QUE AFECTAN LA DISTRIBUCION DEL FLUJO.
3. MULTIPLE DE DISTRIBUCION.
6. SISTEMA DE REACTOR TERMICO O CATALIZADOR
1. CONVERTIDOR CATALITICO.
2. REACTOR TERMICO.
3. MULTIPLE DE ESCAPE.
7. CONTROLES DE PARTICULAS
1. TRAMPAS, FILTROS, PRECIPITADORES Y OTROS DISPOSITIVOS USADOS PARA CAPTAR EMISIONES DE PARTICULAS.
8. ARTICULOS DIVERSOS USADOS EN LOS SISTEMAS ANTERIORES
1. CONTROLES ELECTRONICOS.
2. INTERRUPTORES Y VALVULAS DE VACIO, TEMPERATURA Y TIEMPO.
3. MANGUERAS, CORREAS, CONECTORES Y CONJUNTOS.

HITACHI KOKI U.S.A., LTD. ENTREGARA CON CADA NUEVO MOTOR LAS INSTRUCCIONES ESCRITAS PARA EL MANTENIMIENTO Y EL USO DEL MOTOR PARA EL NUEVO PROPIETARIO.

PROGRAMMES DE LUTTE CONTRE LES ÉMISSIONS DE L'EPA ET DE LA CALIFORNIE

GARANTIE

L'EPA (ENVIRONMENT PROTECTION AGENCY) DES ÉTATS-UNIS, L'AIR RESOURCES BOARD DE CALIFORNIE ET HITACHI KOKI U.S.A., LTD. PRÉSENTENT LA GARANTIE DU SYSTÈME ANTIPOLLUTION DE VOTRE PETIT MOTEUR MANUEL HORS-ROUTE 2007 OU ULTÉRIEUR. LES APPAREILS NEUFS DOTÉS D'UN PETIT MOTEUR HORS-ROUTE DOIVENT ÊTRE CONÇUS, CONSTRUITS ET ÉQUIPÉS DE FAÇON À ATTEINDRE LES NORMES ANTISMOG APPLICABLES AUX ÉTATS-UNIS. HITACHI KOKI U.S.A., LTD. GARANTIT LE SYSTÈME ANTIPOLLUTION DE VOTRE PETIT MOTEUR MANUEL HORS-ROUTE PENDANT LA PÉRIODE INDIQUÉE CI-DESSOUS, SOUS RÉSERVE QUE LE MOTEUR N'AIT PAS FAIT L'OBJET D'ABUS, DE NÉGLIGENCE OU D'ENTRETIEN INADÉQUAT.

VOTRE SYSTÈME ANTIPOLLUTION PEUT INCLURE LES PIÈCES SUIVANTES : CARBURATEUR OU SYSTÈME D'INJECTION, SYSTÈME D'ALLUMAGE, CONVERTISSEUR CATALYTIC, RÉSERVOIR DE CARBURANT, CARBURANT, FILTRES, BOIES DE FILTRES, CONNECTEURS ET AUTRES PIÈCES ASSOCIÉES. IL PEUT AUSSI COMPRENDRE DES CONDUITES, DES COURROIES, DES CONNECTEURS, DES CAPTEURS ET D'AUTRES DISPOSITIFS ANTIPOLLUTION.

SI VOTRE PETIT MOTEUR MANUEL HORS-ROUTE A UN PROBLÈME QUI EST COUVERT PAR LA GARANTIE, HITACHI KOKI U.S.A., LTD. LE RÉPARERA GRATUITEMENT. CETTE OFFRE COMPREND LE DIAGNOSTIC, LES PIÈCES ET LA MAIN D'ŒUVRE.

GARANTIE DU FABRICANT:

LE SYSTÈME ANTIPOLLUTION EST GARANTI PENDANT DEUX ANS. SI UNE PIÈCE DU MOTEUR LIÉE AU SYSTÈME ANTIPOLLUTION EST DÉFECTUEUSE, HITACHI KOKI U.S.A., LTD. RÉPARERA OU REMPLACERA CELLE-CI.

RESPONSABILITÉS DU PROPRIÉTAIRE EN VERTU DE LA GARANTIE:

LE PROPRIÉTAIRE DU PETIT MOTEUR MANUEL HORS-ROUTE A LA RESPONSABILITÉ DE FAIRE EFFECTUER LES MESURES D'ENTRETIEN INDIQUÉES DANS LE MANUEL DU PROPRIÉTAIRE. HITACHI KOKI U.S.A., LTD. RECOMMANDE DE CONSERVER TOUTS LES RECUS D'ENTRETIEN DU PETIT MOTEUR MANUEL HORS-ROUTE, MAIS HITACHI KOKI U.S.A., LTD. NE PEUT REJETER UNE DEMANDE AU TITRE DE LA GARANTIE SIMPLEMENT À CAUSE DE L'ABSENCE DE RECUS OU DU NON-RESPECT INTÉGRAL DU CALENDRIER D'ENTRETIEN.

LE PROPRIÉTAIRE DU PETIT MOTEUR MANUEL HORS-ROUTE DOIT TOUJOURS SAVOIR QUE HITACHI KOKI U.S.A., LTD. PEUT REJETER UNE DEMANDE AU TITRE DE LA GARANTIE SI LE DÉFAUT DU MOTEUR OU DE UNE DE SES PIÈCES EST ATTRIBUABLE À UN USAGE ABUSIF, UNE NÉGLIGENCE, UN ENTRETIEN INADÉQUAT OU UNE MODIFICATION NON APPROUVÉE.

LE PROPRIÉTAIRE EST TENU DE PRÉSENTER SON MOTEUR D'APPAREIL DE JARDIN ET PELOUSE À UN CENTRE DE SERVICE HITACHI KOKI U.S.A., LTD. DÈS L'APPARITION D'UN PROBLÈME. LES RÉPARATIONS AU TITRE DE LA GARANTIE SERONT EFFECTUÉES À L'INTÉRIEUR D'UN DÉLAI RAISONNABLE QUI NE DÉPASSERA PAS 30 JOURS.

SI VOUS AVEZ DES QUESTIONS SUR VOS DROITS ET DEVOIRS AU TITRE DE LA GARANTIE, CONTACTEZ UN REPRÉSENTANT DU CENTRE DE SERVICE À LA CLIENTÈLE HITACHI KOKI U.S.A., LTD. AU (888) 482-6252.

CONDITIONS DE LA GARANTIE SUR LES DÉFECTUOSITÉS:

(a) LA PÉRIODE DE GARANTIE DÉBUTE À LA DATE DE LIVRAISON DU MOTEUR OU DE L'APPAREIL À L'ACHETEUR FINAL.

(b) GARANTIE GÉNÉRALE SUR LES ÉMISSIONS. HITACHI KOKI U.S.A., LTD. GARANTIT À L'ACHETEUR FINAL ET À CHAQUE PROPRIÉTAIRE SUBSÉQUENT QUE LE MOTEUR OU L'APPAREIL EST:

1. CONÇU, CONSTRUIT ET ÉQUIPÉ EN CONFORMITÉ AVEC TOUTS LES RÈGLEMENTS APPLICABLES DE L'AIR RESOURCES BOARD DE LA CALIFORNIE.
2. EXEMPTÉ DE DÉFAUTS DE MATÉRIAUX OU DE MAIN-D'ŒUVRE QUI CAUSERA LA DÉFAILLANCE D'UNE PIÈCE SOUS GARANTIE PENDANT UNE PÉRIODE DE DEUX ANS.

(c) LA GARANTIE SUR LES PIÈCES LIÉES AU SYSTÈME ANTIPOLLUTION SERA INTERPRÉTÉE DE LA FAÇON SUIVANTE:

1. TOUTE PIÈCE GARANTIE DONT LE REMPLACEMENT N'EST PAS PRÉVU À TITRE D'ENTRETIEN NÉCESSAIRE DANS LES INSTRUCTIONS ÉCRITES PRÉSCRITES À LA SOUS-SECTION (d) DOIT ÊTRE GARANTIE PENDANT LA DURÉE DE LA PÉRIODE DE GARANTIE DÉFINIE DANS LA SOUS-SECTION (b)(2). SI LA PIÈCE FAIT DÉFAUT PENDANT LA PÉRIODE DE GARANTIE, LE FABRICANT LA RÉPARERA OU LA REMPLACERA CONFORMÈMENT À LA SOUS-SECTION (d) CI-DESSOUS. TOUTE PIÈCE AINSI RÉPARÉE OU REMPLACÉE AU TITRE DE LA GARANTIE SERA À NOUVEAU PRÉVUE À TITRE D'ENTRETIEN NÉCESSAIRE À LA PÉRIODE DE GARANTIE.
2. TOUTE PIÈCE GARANTIE DONT L'INSPECTION RÉGULIÈRE EST PRÉVUE DANS LES INSTRUCTIONS ÉCRITES PRÉSCRITES À LA SOUS-SECTION (d) DOIT ÊTRE GARANTIE PENDANT LA DURÉE DE LA PÉRIODE DE GARANTIE DÉFINIE DANS LA SOUS-SECTION (b)(2). TOUTE DÉCLARATION DANS LES INSTRUCTIONS À L'EFFET QU'UNE PIÈCE A ÉTÉ RÉPARÉE OU REMPLACÉE AU BESOIN N'AURA PAS POUR EFFET DE RÉDUIRE LA PÉRIODE DE GARANTIE. TOUTE PIÈCE RÉPARÉE OU REMPLACÉE AU TITRE DE LA GARANTIE SERA À NOUVEAU PRÉVUE À TITRE D'ENTRETIEN NÉCESSAIRE À LA PÉRIODE DE GARANTIE.
3. TOUTE PIÈCE GARANTIE DONT LE REMPLACEMENT EST PRÉVU À TITRE D'ENTRETIEN NÉCESSAIRE DANS LES INSTRUCTIONS ÉCRITES PRÉSCRITES À LA SOUS-SECTION (d) DOIT ÊTRE GARANTIE PENDANT LA PÉRIODE QUI PRÉCÈDE LE PREMIER MOMENT DE REMPLACEMENT PRÉVU DE LA PIÈCE. SI LA PIÈCE FAIT DÉFAUT AVANT LA DATE DU PREMIER REMPLACEMENT PRÉVU, LE FABRICANT DU MOTEUR LA RÉPARERA OU LA REMPLACERA CONFORMÈMENT À LA SOUS-SECTION (d) CI-DESSOUS. TOUTE PIÈCE AINSI RÉPARÉE OU REMPLACÉE AU TITRE DE LA GARANTIE DOIT ÊTRE GARANTIE PENDANT LE RESTE DE LA PÉRIODE PRÉCÉDANT LE PREMIER REMPLACEMENT PRÉVU DE LA PIÈCE.
4. LA RÉPARATION OU LE REMPLACEMENT D'UNE PIÈCE GARANTIE DOIT ÊTRE EFFECTUÉ GRATUITEMENT À UN CENTRE DE SERVICE DE GARANTIE.
5. NONOBTANT LA SOUS-SECTION (4) QUI PRÉCÈDE, LES SERVICES ET RÉPARATIONS AU TITRE DE LA GARANTIE DOIVENT ÊTRE OFFERTS À TOUTS LES CENTRES DE DISTRIBUTION DU FABRICANT QUI SONT FRANCHISÉS POUR L'ENTRETIEN ET LA RÉPARATION DES MOTEURS.
6. LE PROPRIÉTAIRE NE DOIT PAS ÊTRE CHARGÉ DU DIAGNOSTIC QUI CONDUIT À DÉTERMINER SI UNE PIÈCE SOUS GARANTIE EST EFFECTIVEMENT DÉFECTUEUSE. SI CES TRAVAUX DE DIAGNOSTIC SONT EFFECTUÉS À UN POSTE DE SERVICE DE GARANTIE.
7. LE FABRICANT EST RESPONSABLE DES DOMMAGES CAUSÉS À D'AUTRES COMPOSANTS DU MOTEUR PAR UNE PIÈCE SOUS GARANTIE.
8. PENDANT LA PÉRIODE DE GARANTIE INDIQUÉE À LA SOUS-SECTION (b)(2), LE FABRICANT GARANTIRA UNE PROVISION DE PIÈCES SOUS GARANTIE SUFFISANTE POUR RÉPONDRE À LA DEMANDE PRÉVUE POUR CES PIÈCES.
9. TOUTE PIÈCE DE RÉCHANGE PEUT ÊTRE UTILISÉE POUR L'EXÉCUTION DES TRAVAUX D'ENTRETIEN ET DE RÉPARATION AU TITRE DE LA GARANTIE ET DOIT ÊTRE FOURNIE GRATUITEMENT AU PROPRIÉTAIRE, UNE TELLE UTILISATION NE RÉDUIRA PAS LES OBLIGATIONS DU FABRICANT EN VERTU DE LA GARANTIE.
10. LES PIÈCES AJOUTÉES OU MODIFIÉES QUI NE SONT PAS EXEMPTÉES PAR L'AIR RESOURCES BOARD NE PEUVENT ÊTRE UTILISÉES. L'UTILISATION D'UNE PIÈCE AJOUTÉE OU MODIFIÉE PEUT INVALIDER LA GARANTIE. LE FABRICANT NE S'ENGAGE À RÉPARER UNE DEMANDE AU TITRE DE LA GARANTIE. LE FABRICANT NE SERA PAS RESPONSABLE DES DÉFAILLANCES DE PIÈCES SOUS GARANTIE CAUSÉES PAR L'UTILISATION DE PIÈCES AJOUTÉES OU MODIFIÉES NON EXEMPTÉES.
11. LE FABRICANT QUI ÉMET LA GARANTIE FOURNIRA TOUTS LES DOCUMENTS QUI DÉCRIVENT LES POLITIQUES ET PROCÉDURES DE GARANTIE DANS LES CINQ JOURS OUVRABLES QUI SUIVENT UNE DEMANDE EN CE SENS FORMULÉE PAR L'AIR RESOURCES BOARD DE CALIFORNIE.

(d) LISTE DES PIÈCES DE LA GARANTIE SUR LES ÉMISSIONS

1. SYSTÈME DE DOSAGE DU CARBURANT
1. CARBURATEUR ET PIÈCES INTERNES (ET/OU RÉGULATEUR DE PRESSION OU SYSTÈME D'INJECTION)
2. SYSTÈME DE RÉGULATION ET DE VÉRIFICATION DU RAPPORT AIR/CARBURANT
3. SYSTÈME D'ENRIQUECIMENT POUR DÉMARRAGE À FROID
4. RÉSERVOIR DE CARBURANT
2. SYSTÈME D'ADMISSION D'AIR
1. SYSTÈME DE RÉGULATION DE L'ENTRÉE D'AIR CHAUD
2. COLLECTEUR D'ADMISSION
3. FILTRE À AIR
3. SYSTÈME D'ALLUMAGE
1. BOUGIES
2. MAGNÉTO OU SYSTÈME D'ALLUMAGE ÉLECTRONIQUE
4. SYSTÈME D'AVANCE/RETARDEMENT DE CHISPA
4. SYSTÈME DE RECIRCULATION DES GAZ D'ÉCHAPPEMENT
1. CORPS DE LA SOUPAPE DE RECIRCULATION DES GAZ D'ÉCHAPPEMENT ET ENTRETOISE DU CARBURATEUR LE CAS ÉCHÉANT
2. SYSTÈME DE RÉGULATION ET DE VÉRIFICATION DE LA RECIRCULATION DES GAZ D'ÉCHAPPEMENT
5. SYSTÈME D'INJECTION D'AIR
1. POMPE À AIR OU SOUPAPE DE PULSATION
2. SOUPAPES DU CIRCUIT DE DISTRIBUTION DU DÉBIT
3. COLLECTEUR DE DISTRIBUTION
6. CATALYSEUR OU SYSTÈME DE RÉACTION THERMIQUE
1. P.T. CATALYTIQUE
2. RÉACTEUR THERMIQUE
3. TUBULURE D'ÉCHAPPEMENT
7. COMMANDES PARTICULIÈRES
1. COLLECTEURS, FILTRES, PRÉCIPITATEURS ET TOUT AUTRE DISPOSITIF PERMETTANT DE CAPTER LES PARTICULES
8. ARTICLES DIVERS FAISANT PARTIE DES SYSTÈMES CI-DESSUS
1. COMMANDES ÉLECTRONIQUES
2. SOUPAPES ET CONTACTEURS ACTIONNÉS PAR LA DÉPRESSION, LA TEMPÉRATURE OU LE TEMPS
3. CONDUITES, COURROIES, CONECTEURS ET PIÈCES CONNEXES

HITACHI KOKI U.S.A., LTD. REMETTRA AU PROPRIÉTAIRE DE CHAQUE MOTEUR DES INSTRUCTIONS ÉCRITES SUR L'ENTRETIEN ET L'UTILISATION DU MOTEUR.

HITACHI

English

Errata

SPECIFICATIONS

	Incorrect	Correct
Sound pressure level LpA (dB(A)) (ISO 10517)	84	97

 **Hitachi Koki Co., Ltd.**