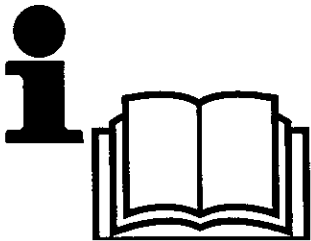
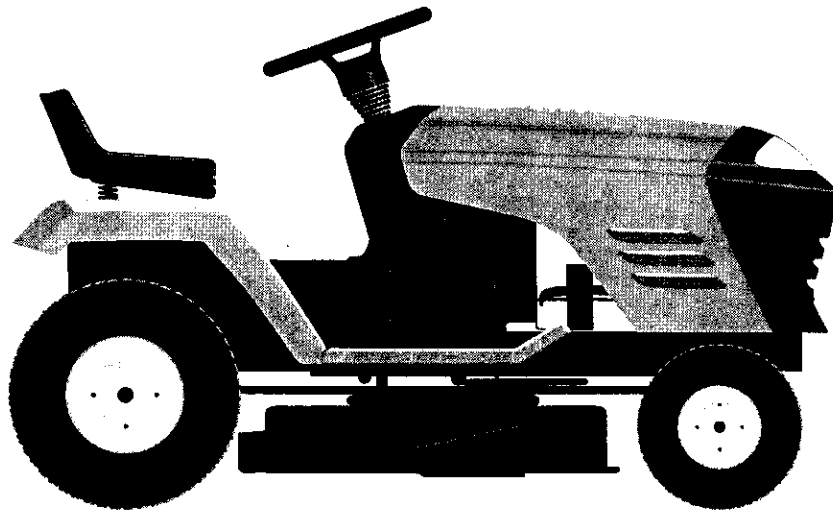


CRAFTSMAN®

25908



Instruction manual

Please read these instructions carefully and make sure you understand them before using this machine.

- 1** Safety specifications.
Sicherheitsbestimmungen.
Consignes de sécurité. _____
- 2** Assembly.
Zusammenbau.
Montage. _____
- 3** Functional description.
Funktionsbeschreibung.
Description du fonctionnement. _____
- 4** Procedure before start.
Maßnahmen vor dem Anlassen.
Avant de démarrer. _____
- 5** Driving.
Betrieb.
Conduite. _____
- 6** Maintenance, adjustment.
Instandhaltung, Einstellung.
Entretien, réglages. _____
- 7** Fault tracing.
Störungssuche.
Recherche des pannes. _____
- 8** Storage.
Aufbewahrung.
Rangement. _____

We reserve the right to changes without prior notice.
Änderungen ohne vorherige Mitteilung sind vorbehalten.
Nous nous réservons le droit d'apporter des modifications sans avis préalable.
Nos reservamos el derecho a introducir modificaciones sin previo aviso.
Ci riserviamo il diritto di modifiche o cambiamenti senza preavviso.
Wij houden ons het recht voor om veranderingen aan te brengen zonder voorafgaande mededeling.



1. Safety Rules



Safe Operation Practices for Ride-On Mowers

IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

(Eng) I. Training

- Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
- Never allow children or people unfamiliar with the instructions to use the lawnmower. Local regulations may restrict the age of the operator.
- Never mow while people, especially children, or pets are nearby.
- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people or their property.
- All drivers should seek and obtain professional and practical instruction. Such instruction should emphasize:
 - the need for care and concentration when working with ride-on machines;
 - control of a ride-on machine sliding on a slope will not be regained by the application of the brake.

The main reasons for loss of control are:

- a) insufficient wheel grip;
- b) being driven too fast;
- c) inadequate braking;
- d) the type of machine is unsuitable for its task;
- e) lack of awareness of the effect of ground conditions, especially slopes;
- f) incorrect hitching and load distribution.

II. Preparation

- While mowing, always wear substantial footwear and long trousers. Do not operate the equipment when barefoot or wearing open sandals.
- Thoroughly inspect the area where the equipment is to be used and remove all objects which may be thrown by the machine.
- **WARNING - Petrol is highly flammable.**
 - Store fuel in containers specifically designed for this purpose.
 - Refuel outdoors only and do not smoke while refueling.
 - Add fuel before starting the engine. Never remove the cap of the fuel tank or add petrol while the engine is running or when the engine is hot.
 - If petrol is spilled, do not attempt to start the engine but move the machine away from the area of spillage and avoid creating any source of ignition until petrol vapors have dissipated.
 - Replace all fuel tanks and container caps securely.
- Replace faulty silencers.
- Before using, always visually inspect to see that the blades, blade bolts and cutter assembly are not worn or damaged. Replace worn or damaged blades and bolts in sets to preserve balance.
- On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.

III. Operation

- Do not operate the engine in a confined space where dangerous carbon monoxide fumes can collect.
- Mow only in daylight or in good artificial light.
- Before attempting to start the engine, disengage all blade attachment clutches and shift into neutral.
- Do not use on slopes of more than 10°.
- Remember there is no such thing as a "safe" slope. Travel on grass slopes requires particular care. To guard against overturning;
 - do not stop or start suddenly when going up or downhill;
 - engage clutch slowly, always keep machine in gear, especially when traveling downhill;
 - machine speeds should be kept low on slopes and during tight turns;
 - stay alert for humps and hollows and other hidden hazards;
 - never mow across the face of the slope, unless the lawnmower is designed for this purpose.
- Use care when pulling loads or using heavy equipment.
 - Use only approved drawbar hitch points.
 - Limit loads to those you can safely control.
 - Do not turn sharply. Use care when reversing.
 - Use counterweight(s) or wheel weights when suggested in the instruction handbook.
- Watch out for traffic when crossing or near roadways.
- Stop the blades from rotating before crossing surfaces other than grass.
- When using any attachments, never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.
- Never operate the lawnmower with defective guards, shields or without safety protective devices in place.
- Do not change the engine governor settings or overspeed the engine. Operating the engine at excessive speed may increase the hazard of personal injury.
- Before leaving the operator's position:
 - disengage the power take-off and lower the attachments;
 - change into neutral and set the parking brake;
 - stop the engine and remove the key.
- Disengage drive to attachments, stop the engine, and disconnect the spark plug wire(s) or remove the ignition key
 - before cleaning blockages or unclogging chute;
 - before checking, cleaning or working on the lawnmower;
 - after striking a foreign object. Inspect the lawnmower for damage and make repairs before restarting and operating the equipment;
 - if the machine starts to vibrate abnormally (check immediately).
- Disengage drive to attachments when transporting or not in use.
- Stop the engine and disengage drive to attachment
 - before refueling;
 - before removing the grass catcher;
 - before making height adjustment unless adjustment can be made from the operator's position.

- Reduce the throttle setting during engine run-out and, if the engine is provided with a shut-off valve, turn the fuel off at the conclusion of mowing.

IV. Maintenance and Storage

- Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- Never store the equipment with petrol in the tank inside a building where fumes may reach an open flame or spark.
- Allow the engine to cool before storing in any enclosure.
- To reduce the fire hazard, keep the engine, silencer, battery compartment and petrol storage area free of grass, leaves, or excessive grease.
- Check the grass catcher frequently for wear or deterioration.
- Replace worn or damaged parts for safety.
- If the fuel tank has to be drained, this should be done outdoors.
- On multi-bladed machines, take care as rotating one blade can cause other blades to rotate.
- When machine is to be parked, stored or left unattended, lower the cutting means unless a positive mechanical lock is used.



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

Eng These symbols may appear on your machine or in the literature supplied with the product. Learn and understand their meaning.

R

REVERSE
RÜCKWÄRTSGANG
MARGE ARRIÈRE
ACHTERUIT
REVÉS
RETROMARCIA

N

NEUTRAL
LEERLAUF
POINT MORT
VRIJLOOP
NEUTRO
FOLLE

H

HIGH
HOCH
HAUT
HOOG
ALTO
AUMENTARE

L

LOW
NIEDRIG
BAS
LAAG
BAJO
DIMINUIRE



FAST
SCHNELL
RAPIDE
SNEL
RÁPIDO
VELOCE



SLOW
LANGSAM
LENTE
LANGZAAM
LENTO



LIGHTS ON
LICHT AN
PHARES ALLUMÉS
LICHTEN AAN
LUCES ENCENDIDAS
LUCI ACCESE



LIGHTS OFF
LICHT AUS
PHARES ÉTEINTS
LICHTEN UIT
LUCES APAGADAS
LUCI SPENTE



ENGINE ON
MOTOR LÄUFT
MOTEUR EN MARGE
MOTOR AAN
MOTOR ENCENDIDO
MOTORE ACCESO



ENGINE OFF
MOTOR AUS
MOTEUR ARRÊTÉ
MOTOR UIT
MOTOR APAGADO
MOTORE SPENTO



PARKING BRAKE LOCKED
FESTSTELLBREMSE VERRIEGELT
FREIN DE PARKING VERROUILLÉ
PARKEERREM GEBLOKKEERD
FRENO DE ESTACIONAMIENTO
CERRADO
FRENO DI PARCHEGGIO INNESTATO



UNLOCKED
ENTRIEGELT
DEVERROUILLÉ
GEDEBLOKKEERD
ABIERTO
DISINNESTATO



PARKING BRAKE
FESTSTELLBREMSE
FREIN DE PARKING
FRENO DE ESTACIONAMIENTO
FRENO DI PARCHEGGIO



BATTERY
BATTERIE
BATTERIE
ACCU
BATERIA
BATERIA



CLUTCH
KUPPLUNG
EMBRAYAGE
KOPPELING
EMBRAGUE
FRIZIONE



CHOKE
STARTKLAPPE
STARTER
CHOKE
ESTRANGULACIÓN
STARTER



FUEL
KRAFTSTOFF
CARBURANT
BRANDSTOF
COMBUSTIBLE
CARBURANTE



OIL PRESSURE
ÖLDRUCK
PRESSION D'HUILE
OLIEDRUK
PRESIÓN DEL ACEITE
PRESSIONE DELL'OLIO



DIFFERENTIAL LOCK
DIFFERENTIALSPERRE
BLOCAGE DE DIFFERENTIEL
DIFFERENTIEELBLOKKERING
CERRADURA DEL DIFERENCIAL
BLOCCAGGIO DIFFERENZIALE



REVERSE
RÜCKWÄRTSGANG
MARGE ARRIÈRE
ACHTERUIT
MARCHA AL REVÉS
RETROMARCIA



FORWARD
VORWÄRTSGANG
MARGE AVANT
VOORUIT
MARCHA HACIA
DELANTE
MARCIA



IGNITION
ZÜNDUNG
ALLUMAGE
ONTSTEKING
IGNICIÓN
AVVIAMENTO



ATTACHMENT
CLUTCH ENGAGED
ANBAUGERÄTE-KUPPLUNG
EINGEKUPPELT
LAMES EMBRAYÉES
KOPPELING HULPSTUK
INGESCHAKELD
EMBRAGUE DEL ACCESORIO
ENGANCHADO
FRIZIONE ACCESSORIE
INNESTATO



ATTACHMENT
CLUTCH DISENGAGED
ANBAUGERÄTE-KUPPLUNG
AUSGEKUPPELT
LAMES DÉBRAYÉES
KOPPELING HULPSTUK
UITGESCHAKELD
EMBRAGUE DEL ACCESORIO
DESENGANCHDO
FRIZIONE ACCESSORI
DISINNESTATO



CAUTION
VORSICHT
DANGER
OPGELET
PRECAUCIÓN
ATTENZIONE



MOWER HEIGHT
MÄHWERKHÖHE
HAUTEUR DE COUPE
MAAIHOOGTE
ALTURA DE LA SEGADORA
ALTEZZA APPARATO
FALCIANTE

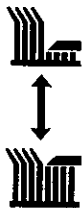


BEWARE OF
THROWN OBJECTS
VORSICHT, HOCHGESCHLEUDERT
GEGENSTÄNDE
ATTENTION AUX PROJECTILES
LET OP WEGGESLINGERDE
VOORWERPEN
CUIDADO CON
OBJETOS LANZADOS
ATTENZIONE AGLI OGGETTI
SCAGLIATI

Eng These symbols may appear on your machine or in the literature supplied with the product. Learn and understand their meaning.



**NO OPERATION
ON SLOPES MORE THAN 10°
NICHT AUF ABHÄNGEN MIT
MEHR ALS 10° STEIGUNG BETREIBEN
NE PAS UTILISER SUR DES
PENTES DE PLUS DE 10°
NIET OP HELLINGEN VAN MEER DAN
10° GEBRUIKEN
NO OPERE SOBRE PENDIENTES
DE MÁS DE 10°
NON USARE SU PENDII CON
UN'INCLINAZIONE DI OLTRE 10°**



**MOWER LIFT
MÄHWERKHUB
RELEVAGE DE L'UNITÉ DE COUPE
MAAIHOOGTEREGELING
LEVANTAMIENTO DE LA SEGADORA
SOLLEVAMENTO APPARATO FALCIANTE**



**KEEP BYSTANDERS AWAY
ZUSCHAUER FERNHALTEN
TENIR LES PASSANTS À DISTANCE
OMSTANDERS UIT DE
BUURT HOUDEN
GUÁRDESE LEJOS DE GENTE
TENERE LONTANI I PASSANTI**



**READ OWNERS MANUAL
BETRIEBSANLEITUNG LESEN
LIRE LE MANUEL
D'INSTRUCTIONS
GEBRUIKERSHANDLEIDING
LEZEN
LEA EL MANUAL DE
INSTRUCCIONES
LEGGERE IL MANUALE
DELL'OPERATORE**



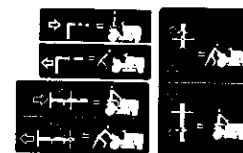
**EUROPEAN MACHINERY
DIRECTIVE FOR SAFETY
EUROPÄISCHE VERORDNUNG
FÜR MASCHINEN-SICHERHEIT
CONFORME AUX NORMES DE
SÉCURITÉ EUROPÉENNES
VEILIGHEIDSRICHTLIJN VOOR
EUROPESE MACHINES
DIRECTIVO DE MAQUINARIA
EUROPEO PARA LA SEGURIDAD
NORMATIVE ANTINFORTUNISTICHE
EUROPEE PER MACCHINARI**



**WARNING
WARNUNG
DANGER
WAARSCHUWING
ATENCIÓN
AVVERTENZA**



**DANGER, KEEP HANDS AND FEET AWAY
GEFAHR, HÄNDE UND FÜSSE FERNHALTEN
DANGER, GARDEZ LES MAINS ET LES PIEDS AU LOIN
GEVAAR, HANDEN EN VOETEN UIT DE BUURT HOUDEN
PELIGRO, MANTENGA LAS MANOS Y LOS PIES LEJOS
PERICOLO. TENERE LONTANI MANI PIEDI**



**FREE WHEEL
FREILAUF
ROUE LIBRE
FREEWHEEL
RUEDA LIBRE
COMANDO DISINNESTO**



**DO NOT OPERATE WITHOUT BAGGER OR DEFLECTOR
NICHT IN BETRIEB NEHMEN OHNE GRASFANGBOX ODER DEFLEKTOR
NE JAMAIS UTILISER SANS BAC OU DÉFLECTEUR.
NONAZIONARE LA MACCHINA SENZA IL CESTO O SENZO IL DEFLETTORE DI SCARICO
NO PONGA EN MARCHA SIN RECOGEDOR O DEFLECTOR
ZONDER STORTGOOT OF AFWIJKENDE SPATDOEK NIET OPEREREN**

⚠ DANGER/POISON

3-3908



SHIELD EYES.

EXPLOSIVE GASES
CAN CAUSE BLINDNESS
OR INJURY.

PROTÉGER LES YEUX.
GAZ EXPLOSIFS, PEUVENT
RENDRE AVEUGLE OU
PROVOQUER DES LÉSIONS.



NO

- SPARKS
- FLAMES
- SMOKING

ÉLOIGNER
ÉTINCELLES
•FLAMMES
•CIGARETTES



SULFURIC ACID

CAN CAUSE
BLINDNESS OR
SEVERE BURNS.

ACIDE SULFURIQUE
PEUT RENDRE AVEUGLE
OU PROVOQUER DES
BRÛLURES GRAVES.

FLUSH EYES
IMMEDIATELY WITH
WATER. GET MEDICAL
HELP FAST.

RINCER
IMMÉDIATEMENT
LES YEUX À GRANDE EAU.
CONTACTER RAPIDEMENT
UN MEMBRE DE LA
PROFESSION MÉDICALE.



RECYCLE

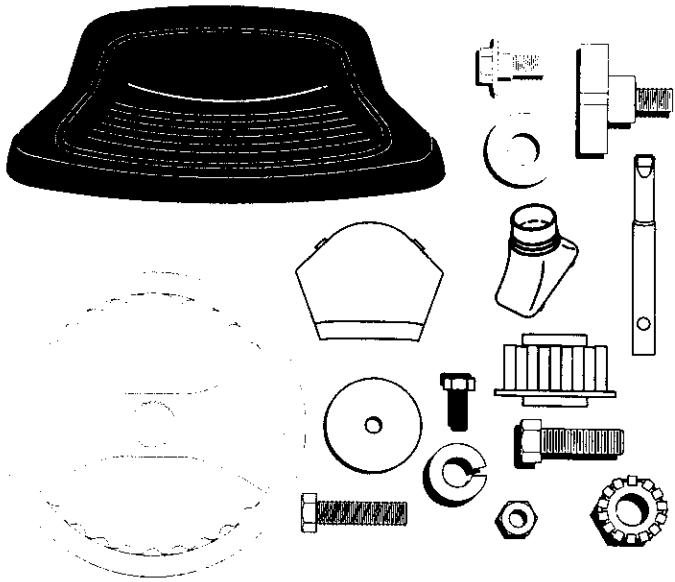
Mfg. by/Fabriqué par:
EPM Products
Baltimore, MD 21226

MADE IN U.S.A.
FABRIQUÉ AUX É.-U.

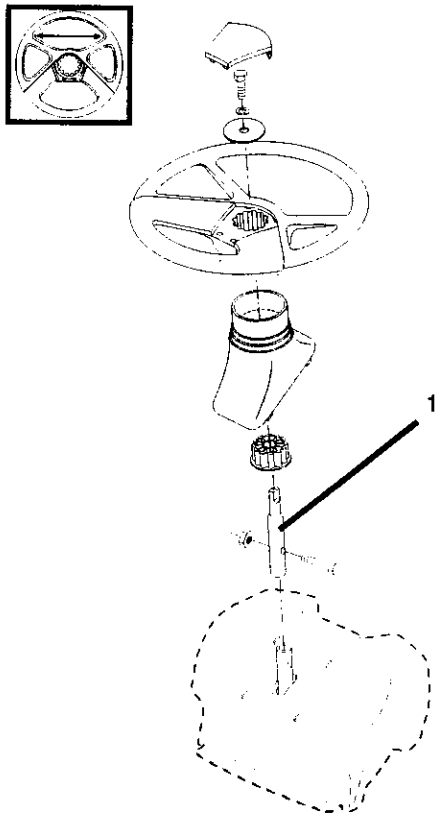
KEEP OUT OF THE REACH OF CHILDREN.
DO NOT TIP. DO NOT OPEN BATTERY!

MAINTENIR HORS DE LA PORTÉE D'ENFANTS.
NE RENVERSEZ PAS. N'OUVREZ PAS LA BATTERIE!

2. Assembly.



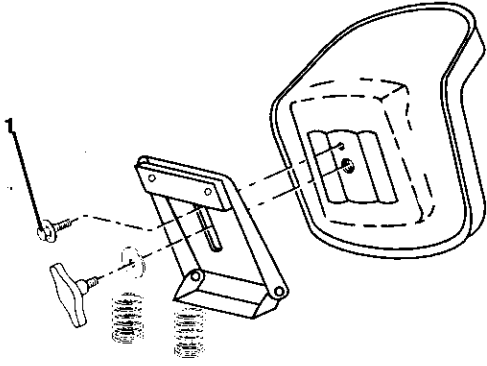
Eng Before the tractor can be used certain parts must be assembled, which for transportation reasons are enclosed in the packing. The picture shows which parts must be assembled.



Eng STEERING WHEEL

- Mount extension shaft (1). Tighten securely.
- Mount the main shaft cover. Make sure that the guide tabs in the cover fit the cover in respective holes.
- Remove steering wheel adapter from steering wheel and slide adapter onto steering shaft . Check that the front wheels are aligned forward and place the wheel on the hub.
- Assemble large flat washers, lockwasher and 3/8 hex bolt. Tighten securely.
- Snap insert into center of steering wheel.

1. EXTENSION SHAFT

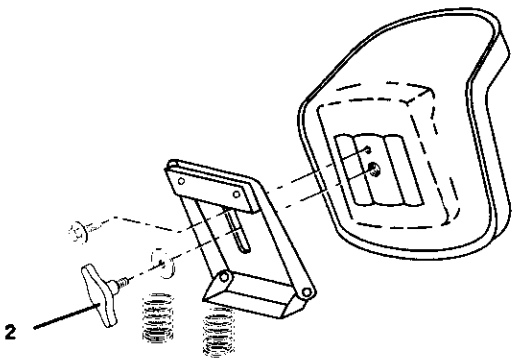


Eng **Seat**

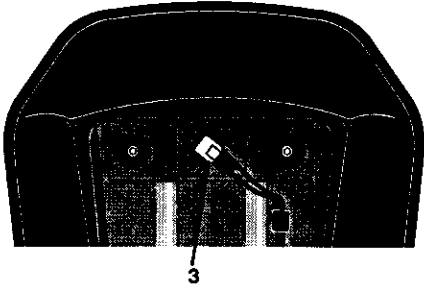
Remove the hardware securing seat to the cardboard packing and set the hardware aside for assembly of seat to tractor.

Pivot seat upward and remove from cardboard packing. Remove the cardboard packing and discard.

The seat is adjustable for individual setting in relation to the clutch and brake pedal. Fold up the holder for the seat and fit the barrel screw (1).



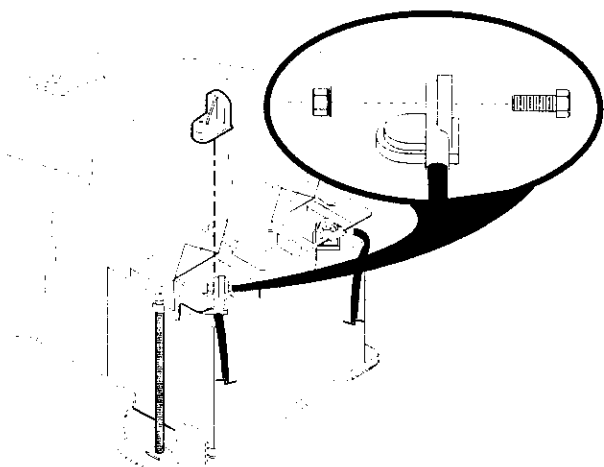
Eng Set the seat to the correct position by moving it forwards or backwards. Tighten the adjustment bolt securely (2).



Eng

NOTE!

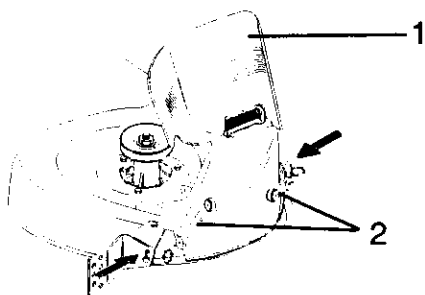
Check that the flex is correctly connected to the safety switch (3) on the seat holder.



Eng **NOTE:** If battery is put into service after month and year indicated on label, charge battery for minimum of one hour at 6-10 amps.

WARNING: Before installing battery remove metal bracelets, wrist watch bands, rings, etc. from your person. Touching these items to battery could result in burns.

Open doors over battery poles, remove terminal protective caps and discard. Connect the red cable to (+) and then the black earth cable to (-). Screw tight the cables. Grease the battery poles with vaseline to prevent corrosion.



Eng **Install Mulcher Plate**

- Raise deflector shield (1) and place mulcher plate over opening.
- Hook front and rear latches into mower deck (2).

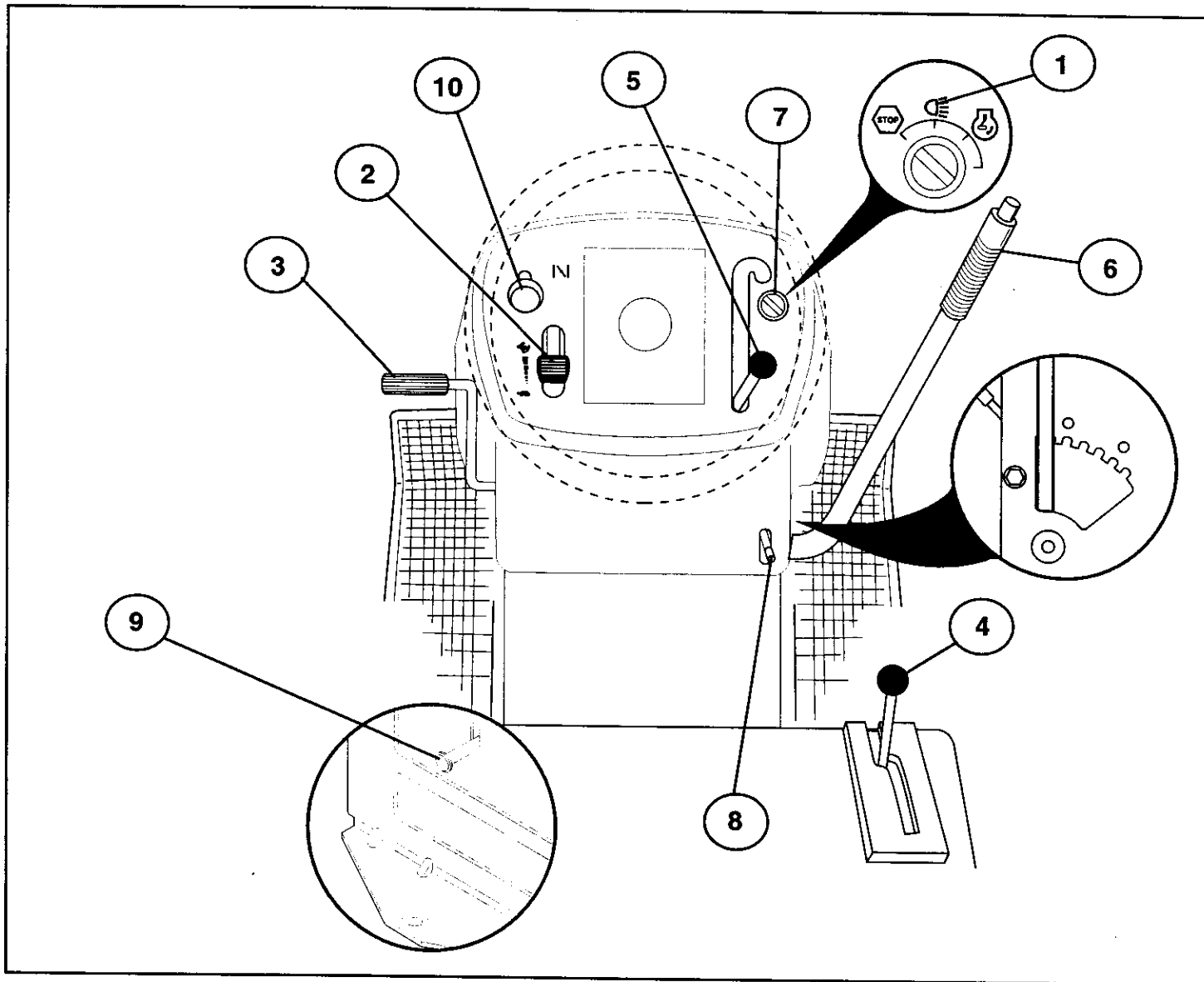
Caution: Do not remove deflector shield from mower. Allow deflector shield to rest on mulcher plate while in use.

Convert to bagging or discharging

Remove mulcher plate and store in a safe place. Mower is now ready for discharging or installation of optional grass catcher.

Note: It is not necessary to change blades. The mulcher blades are designed for discharging and bagging also.

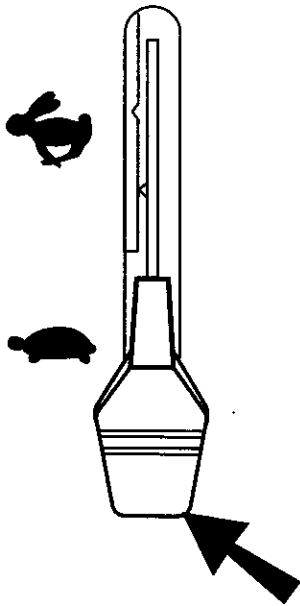
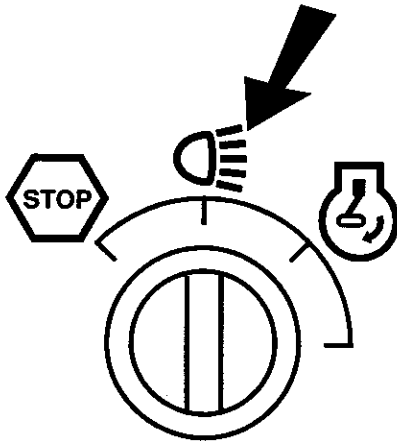
3. Functional description.



Eng Positioning of controls



1. Light switch.
2. Throttle control.
3. Brake and clutch pedal.
4. Motion control lever.
5. Connection/Disconnection of the cutting unit.
6. Quick lifting/lowering of the cutting unit.
7. Ignition lock.
8. Parking Brake.
9. Free-wheel control lever.
10. Choke Control.

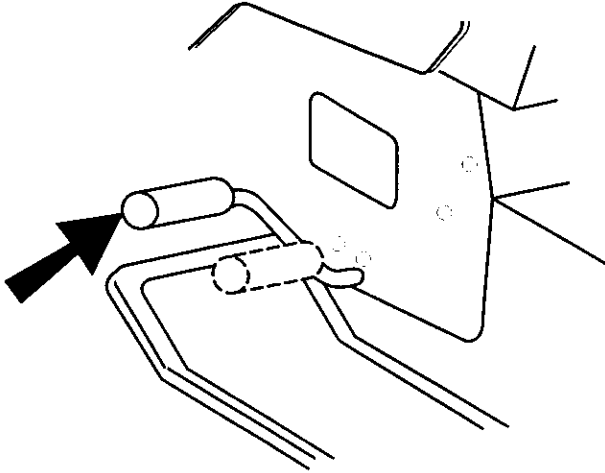
(Eng) 1. Light switch



(Eng) 2. Throttle control

The throttle control regulates the engine revs and thus the rotation speed of the blades.

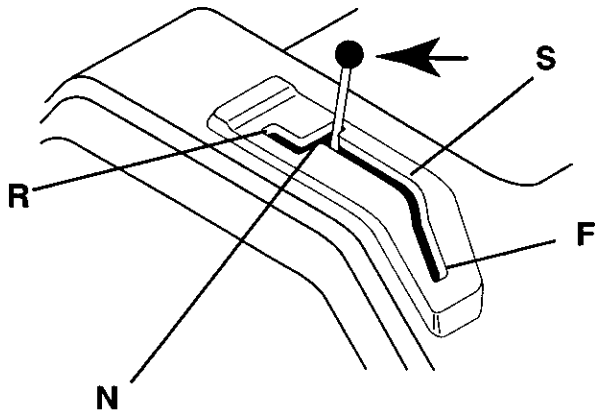
-  = Full speed
-  = Idling speed



Eng

3. Brake and clutch pedal

When the pedal is pushed down the brake is applied and the motor is disengaged.



(Eng) 4. Motion control lever

There are four different positions for this lever:

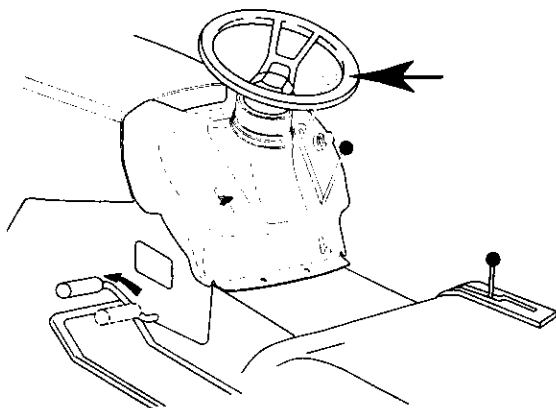
N = Neutral (no drive)

S = Slow

F = Fast

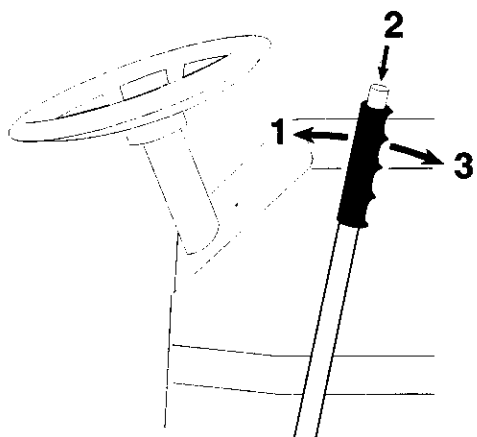
R = Reverse

The lever can be moved steplessly between S and F to ensure the required speed.



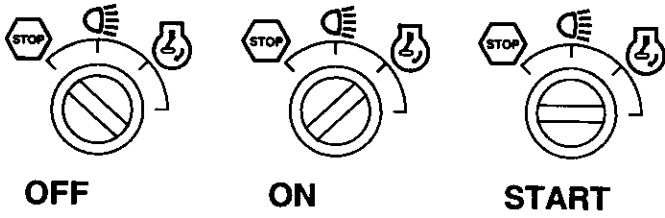
Eng **5. Connection/disconnection of the cutting unit**

Move the lever forwards to connect the drive to the cutting unit, whereby the drive belt is tensioned and the blades begin to rotate. If the lever is moved backwards the drive will be disconnected and the rotation of the blades slowed down by the action of the brake shoes on the pulley.



Eng **6. Quick lifting/lowering of the cutting unit**

Pull the lever backwards to quickly lift the cutting unit when passing over irregularities in the lawn, etc. During transportation the cutting unit shall be in the highest position. Pull the lever back until it locks. To lower the unit: Pull the lever backwards (1). Push in the button (2) and then move the lever forwards (3).



Eng

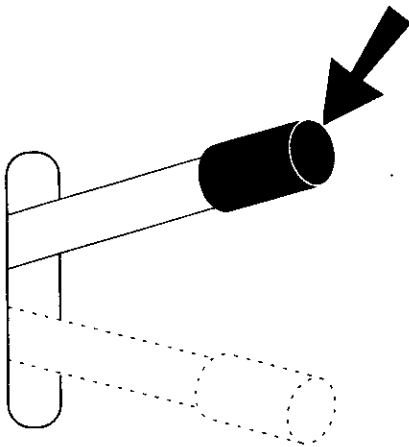
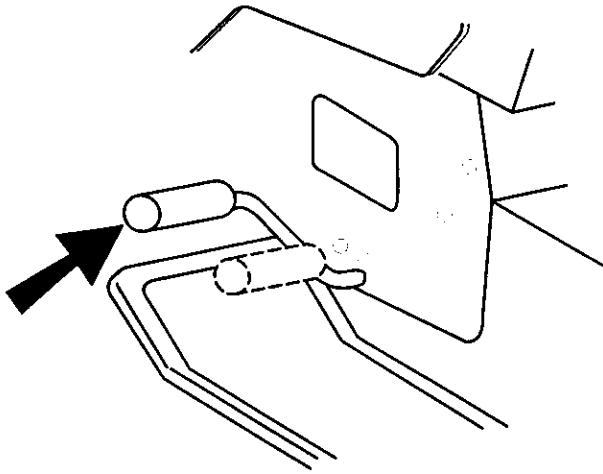
7. Ignition Lock

There are three different positions for the ignition key:

- OFF ALL ELECTRIC CURRENT BROKEN.
- ON ELECTRIC CURRENT CONNECTED.
- START START MOTOR CONNECTED.

WARNING!

Never leave the key in the ignition lock when leaving the machine on its own.



8. Parking brake

Connect the parking brake in the following way:

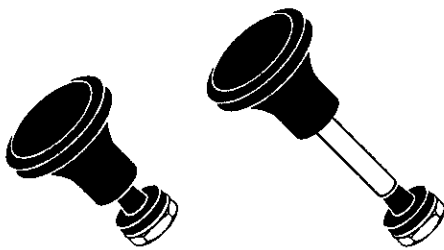
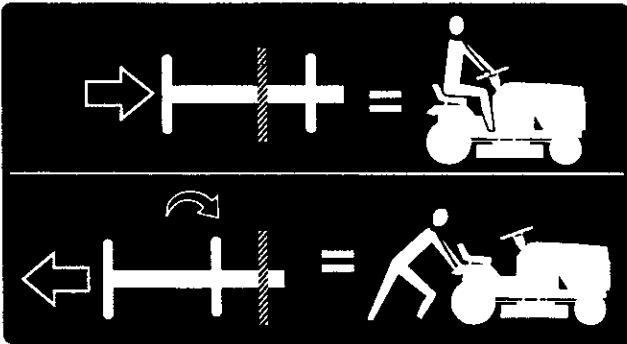
1. Press down the brake pedal to bottom position.
2. Move the parking brake lever upwards and hold in this position.
3. Release the brake pedal.

To release the parking brake all that is necessary is to push down the brake pedal.



9. Free-wheel Control Lever

To tow or move the tractor without the aid of the engine, the free-wheel control knob must be pulled out and locked in position.



10. Choke control

When the engine is cold the choke should be pulled out before starting. When the engine has started and is running smoothly push the choke in.

4. Before starting.

Filling up

The engine should be run of pure (not oil mixed) unleaded petrol. Do not fill beyond the lower edge of the filling hole. Do not fill over max level.

WARNING!

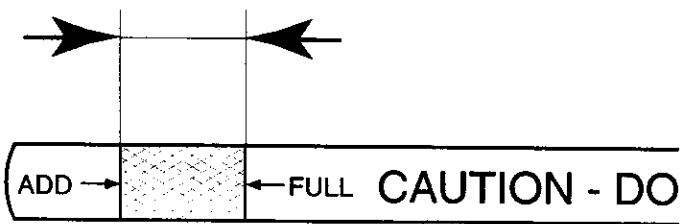
Petrol is highly inflammable. Proceed with care and fill up with petrol outdoors. Do not smoke when filling with petrol or fill up when the engine is warm. Do not overfill the tank since the petrol can expand and overflow. Make sure that the petrol cap is securely tightened after filling. Store petrol in a cool place in an appropriate container for engine fuel. Check the petrol tank and pipes.

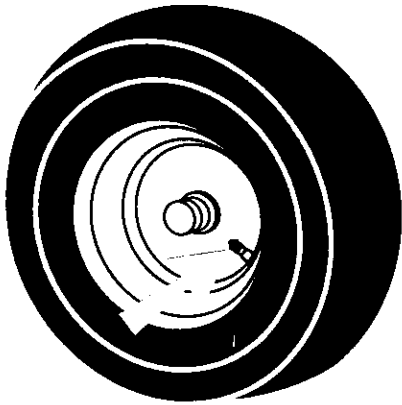
4

Eng Oil level

The combined oil refilling cap and the oil stick is accessible when the bonnet is lifted forwards. The oil level in the engine should be checked before each run. Make sure that the tractor is horizontal. Unscrew the oil stick and wipe clean. Replace the oil stick and screw tight. Remove again and check the level.

Eng The oil level should lie between the two markings on the oil stick. If more oil is needed add SAE 30 oil to the "FULL" marking. SAE 5W-30 oil should be used during the winter (below freezing point).

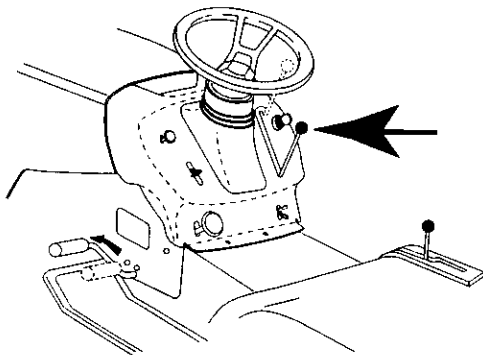




Eng **Tire air pressure**

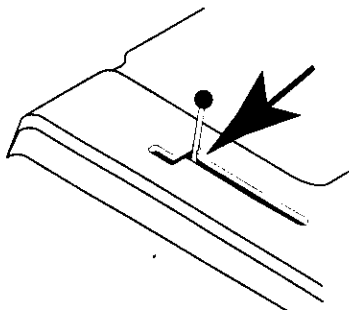
Check the tyre pressure regularly. The pressure in the front tyres should be 1 bar (14 PSI) and 0.8 bar (12 PSI) in the back tyres.

5. Driving.




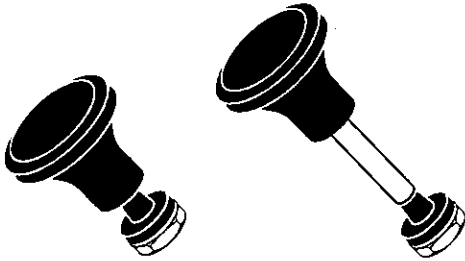
(Eng) Starting of motor



Make sure that the cutting unit is in the transport position (top position) and that the lever for connection/disconnection of the cutting unit is in the disconnection position.

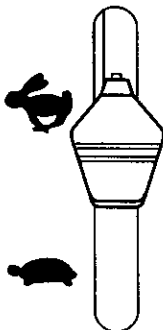


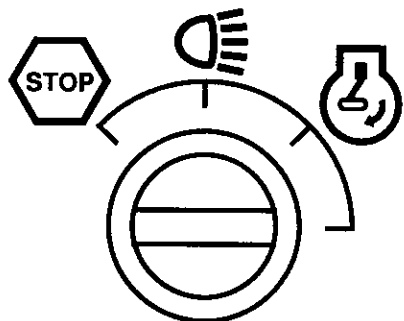
(Eng) Press down the clutch/brake pedal completely and hold down. Make sure that the motion control lever is in neutral "N".

 Pull out the choke control (if engine is cold).



 Warm motor: Push the gas control half-way to full gass position .

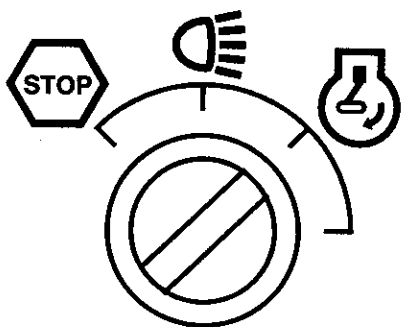




Ⓔ Turn the ignition key to "START position".

NOTE!

Do not run the start motor more than 5 seconds at once. If the engine will not start, wait about 10 seconds before the next try.



Ⓔ Let the ignition key return to the "ON" position when the engine has started and push in the choke control as soon as the engine is running smoothly. Push the gas control to the required speed. For cutting: full gas.

Eng **IMPORTANT! COLD STARTING FOR HYDRO**
IMPORTANT: COLD STARTING FOR HYDRO (BELOW
 40°F{4°C}) - AFTER STARTING ENGINE AND BEFORE
 DRIVING, LET TRANSMISSION WARM UP FOR ONE (1)
 MINUTE BY PLACING MOTION CONTROL LEVER IN NEU-
 TRAL (N) POSITION AND RELEASING CLUTCH/BRAKE
 PEDAL.

- Move motion control lever to full forward position and hold for five (5) seconds. Move lever to full reverse position and hold for five (5) seconds. Repeat this procedure three (3) times.
- Move motion control lever to neutral (N) position.
- Stop tractor by turning ignition key to "OFF" position.
- Engage transmission by placing freewheel control in driving position.
- Start engine and move throttle control to slow position.
- Drive tractor forward for approximately five feet then backwards for five feet. Repeat this driving procedure three times.
- Your tractor is now ready for normal operation.

Eng PURGE TRANSMISSION

To ensure proper operation and performance, it is recommended that the transmission be purged before operating tractor for the first time. This procedure will remove any trapped air inside the transmission which may have developed during shipping of your tractor.

IMPORTANT: SHOULD YOUR TRANSMISSION REQUIRE REMOVAL FOR SERVICE OR REPLACEMENT, IT SHOULD BE PURGED AFTER REINSTALLATION BEFORE OPERATING THE TRACTOR.

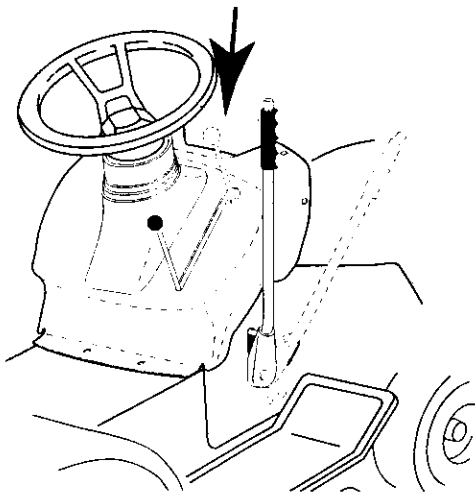
- Park tractor on level surface so it will not roll in any direction. Parking brake must be disengaged for the following procedure.
- Disengage transmission by placing freewheel control in freewheeling position.
- Start engine and move throttle control to slow position. Be sure parking brake is not engaged.

Eng NOTE!

The machine is equipped with a safety switch which immediately breaks the current to the engine if the driver leaves the seat with engine running and with the connection/disconnection lever in position "connection".

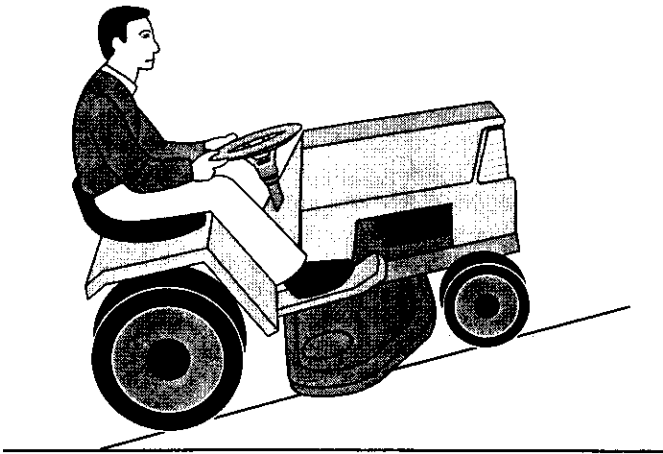
**Eng Driving**

Lower the cutting unit by moving the lever forwards. Release the brake/clutch pedal slowly. Connect the cutting unit and move the motion control lever to the required position. Choose a driving speed which suits the terrain and required cutting results.



Eng Cutting tips

- Clear the lawn from stones and other objects which can be thrown away by the blades.
- Localize and mark stones and other fixed objects to avoid collision.
- Begin with a high cutting height and reduce until the required cutting result is obtained.
- The cutting result is best with high engine speed (blades rotate quickly) and low gear (machine goes slowly). If the grass is too long and thick the drive speed can be increased by selecting a higher gear or reducing the motor speed, without affecting the cutting result.
- The best lawn is achieved if the grass is cut often. Cutting becomes more even and the cut grass is more evenly distributed over the surface. Total time taken is not greater, since higher drive speed can be selected without affecting the cutting results.
- Avoid cutting wet grass. The cutting results will be worse since the wheels will sink into the soft lawn.
- Spray the cutting unit with water underneath after use.

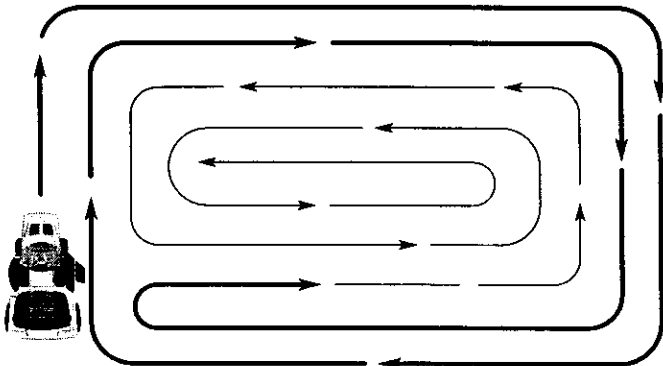


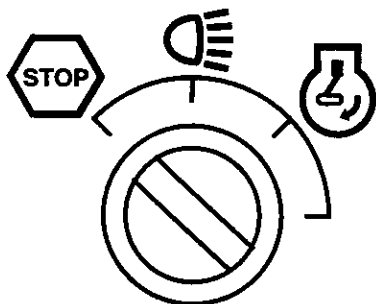
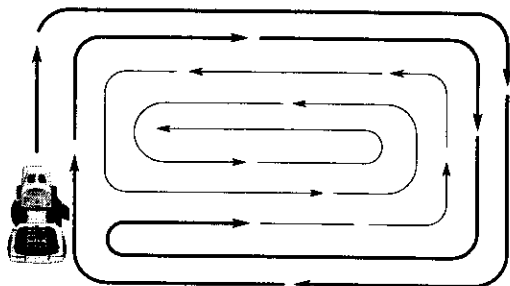
Eng **WARNING!**

- Do not drive in terrain at an angle of more than max. 10°. The risk for spark-over backwards is large.
- In steep terrain the risk for tipping is considerable.
- Avoid stopping and starting in sloping terrain.
- Only change gear when the machine is standing still to avoid damaging the gear box.

Eng

Drive in right turns so that the cut grass is thrown away from flower beds and paths, etc. For larger lawns the drive direction should be changed after 2-3 turns so that the cut grass is thrown towards the area that has already been cut as shown in the illustration.





(Eng) Switching off the engine

Move the gas control to "OFF". Disconnect the cutting unit by moving the connect/disconnect lever downwards. Lift up the cutting unit and turn the ignition key to "OFF" position. Allow the engine to idle for 1-2 minutes to cool down before switching off after a hard work.

(Eng) WARNING!

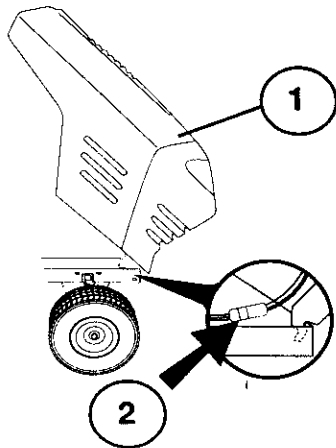
Do not leave the ignition key in the machine when not in use to prevent children and other unauthorized persons starting the engine.

6. Maintenance, adjustment.

Eng **WARNING!**

Before servicing the engine or cutting unit the following shall be carried out:

- Press down the clutch/brake pedal and engage the parking brake lever.
- Put gear lever in neutral.
- Move connection/disconnection lever to disengaged position.
- Switch off engine.
- Remove the ignition cable from the plug.




- Eng**
- (1) Hood
 - (2) Headlight wire connector

Eng **Engine hood**

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt forward and lift off of tractor.
- To reinstall, slide hood pivot brackets into slots in frame.
- Reconnect headlight wire connector and close hood.

 **Maintenance**

NOTE: Periodic maintenance should be performed on a regular basis in order to keep your tractor in good running condition.

 **WARNING:** Disconnect spark plug wire to prevent accidental starting before attempting any repair, inspection, or maintenance.

Before each use:

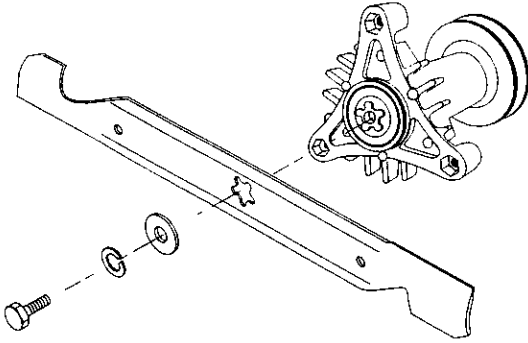
- Check oil, lubricate pivot points as necessary.
- Check to see all bolts, nuts, and cotter pins are in place and secure.
- Check the battery, terminals and vents.
- Recharge slowly at 6 amperes if needed.
- Clean air screen.
- Keep tractor free of dirt and chaff to prevent engine damage or overheating.
- Check brake operation.

Eng

SERVICE RECORD

FILL IN DATES AS YOU COMPLETE REGULAR SERVICE

	As Needed	Every 8 hours	Every 25 hours	Every 50 hours	Every 100 hours	Every 200 hours
Change engine oil			•			
Lubricate pivot points			•			
Check brake operation	•					
Clean air screen		•				
Clean air filter and pre-cleaner		•				
Replace air cleaner paper cartridge					•	
Clean engine cooling fins				•		
Replace spark plug					•	
Check tire pressure	•					
Replace fuel filter						•
Clean battery and terminals			•			
Check muffler				•		
Lubricate ball joints					•	
Toe-in adjustment	•					
Carburetor adjustment	•					



Eng Blades

For best results mower blades must be kept sharp. Replace bent or damaged blades. Sharpening can be carried out with a file or grinding disc.

NOTE! It is very important that both blades are sharpened equally to avoid imbalance.

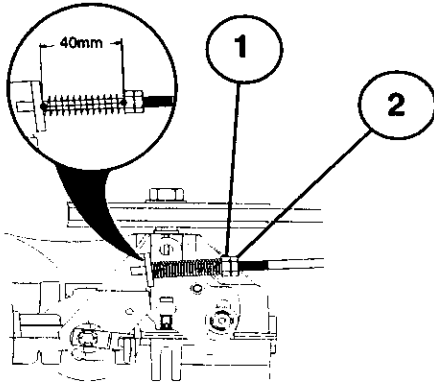
BLADE REMOVAL:

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.

IMPORTANT:: To ensure proper assembly, center hole in blade must align with star on mandrel assembly.

- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (27-35 Ft. Lbs. torque).

IMPORTANT: Blade bolt is grade 8 heat treated



Eng Brakes

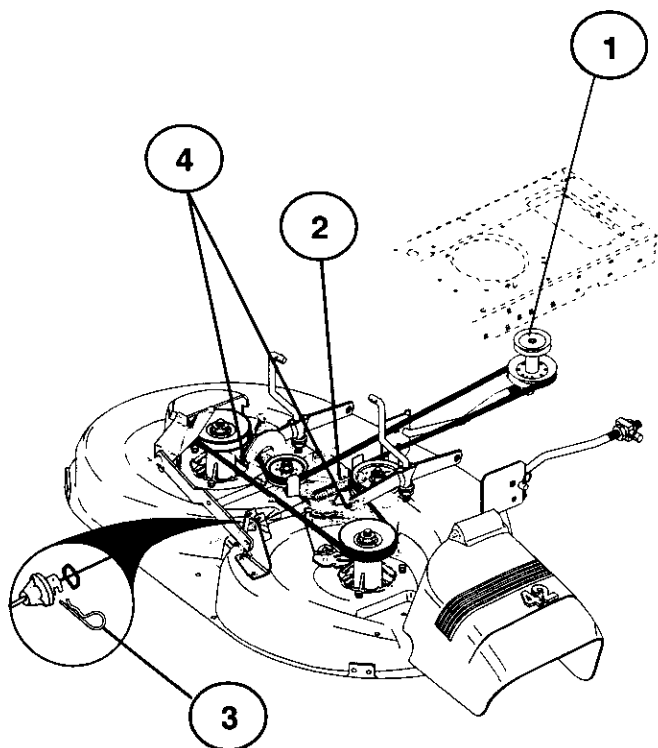
The brakes are located inside the right rear wheel. The wheel should be dismantled for best access.

- Press down the clutch/brake pedal and engage the parking brake.

- Eng**
1. Measure the distance between the brake lever and the adjuster nut.
 2. The distance should be 40 mm (1.56").
 3. Adjust the distance if necessary by first loosening the lock nut (2) and then adjusting with the nut (1).

Eng WARNING!

Do not forget to tighten the lock nut after completing adjustment.

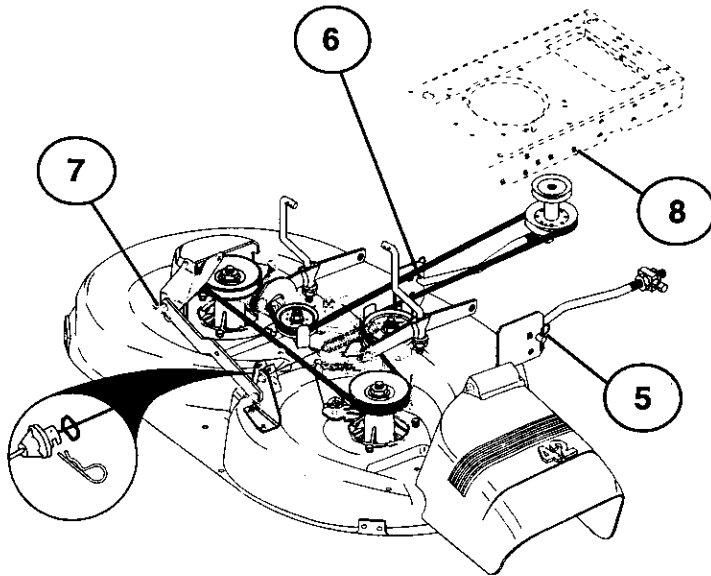


Eng **Dismantling of the cutting unit**

Work from the right side of the machine.

1. Take off the belt from the engine pulley (1).
2. Remove the small retainer spring (2) and lift clutch spring off the pulley bolt.
3. Remove the large retainer spring (3), slide collar off and push housing guide out of the bracket.
4. Remove the two rear retainer springs (4) and knock off the axle taps with a hammer.

6

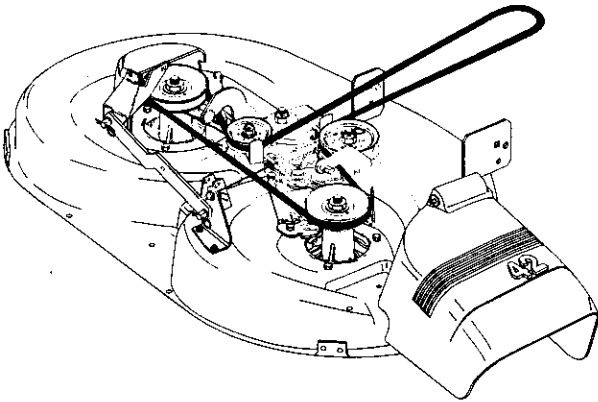


- Eng 5. Remove the retainer springs (5), (6), (7) and axles.
6. Pull the lever for lifting/lowering the cutting unit backwards.
7. Pull out the cutting unit from the machine.

IMPORTANT: If an attachment other than the mower deck is to be mounted on the tractor, remove the front links and hook the clutch spring into square hole in frame (8).

Eng Assembly of the cutting unit

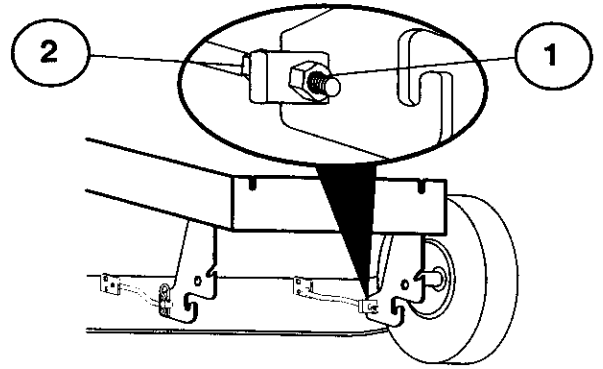
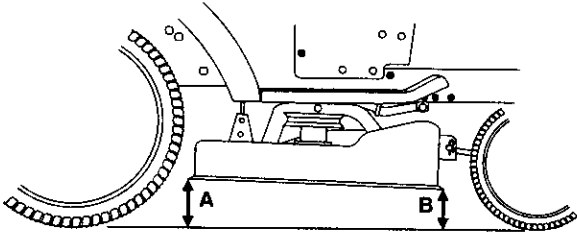
- Push in the cutting unit under the machine. The ejector opening should be to the right.
- Assemble in the reverse order to dismantling.



Eng **Replacement of drive belt for cutting unit**

1. Dismantle the cutting unit as described previously.
2. Work off the belt from the unit's left pulley and then from the other wheels.
3. Pull the belt away from the cutting unit.
4. The new belt is mounted in the reverse order. Check that the belt lies inside all the belt guides.

6



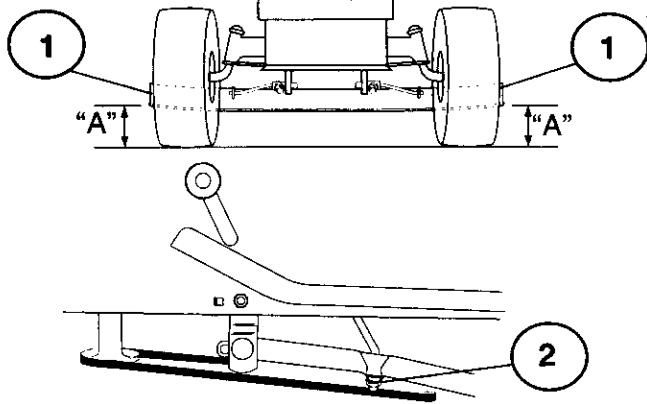
Eng Adjustment of the cutting unit

A. In the direction of travel

1. Check that the air pressure is correct in all four tyres.
2. Make sure that the machine is on a horizontal surface.
3. Lift up the cutting unit to its highest position.
4. Measure the distances A and B.

Eng To achieve best cutting results the cutting unit's front edge (B) should be about 10 mm (0.375") lower than the back edge (A). Adjust in the following way to raise the back edge:

1. Loosen the nut (1) on both the left and right levers.
2. Screw the nut (2) the same number of turns on both levers.
3. When the correct distance (A) is obtained this setting is locked with the nut (1).



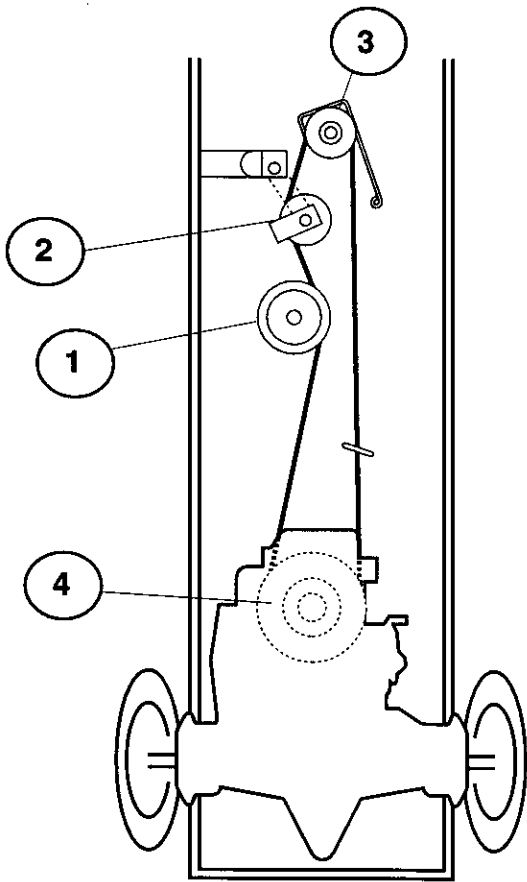
- Eng** (1) Bottom edge of mower
(2) Lift link adjustment nut
- D** (1) Unterkante des Mähwerks
(2) Hubstangen-Stellmutter
- F** (1) Fond du bord de la tondeuse
(2) Écrou de réglage du raccord de levage
- Esp** (1) Parte inferior de la esquina de la segadora
(2) Tuerca de ajuste del varillaje de levantamiento
- I** (1) Bordo inferiore del tagliaerba
(2) Dado di regolazione dell'articolazione di sollevamento
- NL** (1) Onderkant van de maaimachine
(2) Bijstelmoer

Eng **SIDE-TO-SIDE ADJUSTMENT**

- Raise mower to highest position.
- At the midpoint of both sides of mower, measure height from bottom edge of mower to ground. Distance "A" should be the same or within 6mm (1/4") of each other.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

NOTE: Three full turns of adjustment nut will change mower height about 1/8".

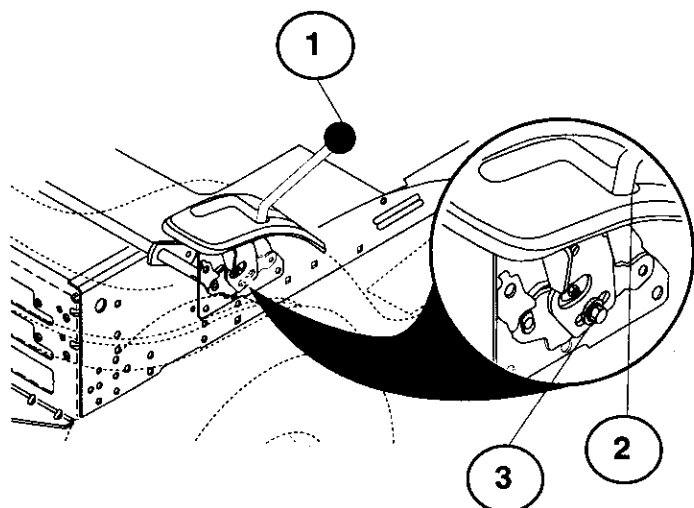
- Recheck measurements after adjusting.



Replacement of drive belt

Dismantle the cutting unit as described previously

Engage the parking brake and work off the belt upwards from the pulley (1), the clutch pulley (2) and the engine's drive wheel (3). Push the belt up between two fan blades and rotate the fan clockwise until the belt comes loose (4).



- (Eng) 1. Motion Control Lever
2. Neutral Lock Gate
3. Adjustment Bolt
- (D) 1. Steuerknüppel
2. Verschlussperre in Leerlaufstellung
3. Einstellbolzen
- (F) 1. Levier De Controle Du Mouvement
2. Point Mort Vanne De Fermeture
3. Boulon De Reglage

(Eng) **TRANSAXLE MOTION CONTROL LEVER
ADJUSTMENT**

The motion control lever has been preset at the factory and adjustment should not be necessary.

- Loosen adjustment bolt in front of the right rear wheel, and lightly tighten.
- Start engine and move motion control lever until tractor does not move forward or backward.
- Hold motion control lever in that position and turn engine off.
- While holding motion control lever in place, loosen the adjustment bolt.
- Move motion control lever to the neutral (N) (lock gate) position.
- Tighten adjustment bolt securely.

NOTE: If additional clearance is needed to get to adjustment bolt, move mower deck height to the lowest position.

After above adjustment is made, if the tractor still creeps forward or backward while motion control lever is in neutral position, follow these steps:

- Loosen the adjustment bolt.
- Move the motion control lever 1/4 to 1/2 inch in the direction it is trying to creep.
- Tighten adjustment bolt securely.
- Start engine and test.
- If tractor still creeps, repeat above steps until satisfied.

**TRANSAXLE COOLING**

The fan and cooling fins of transmission should be kept clean to assure proper cooling.

Do not attempt to clean fan or transmission while engine is running or while the transmission is hot.

- Inspect cooling fan to be sure fan blades are intact and clean.
- Inspect cooling fins for dirt, grass clippings and other materials.

TRANSAXLE PUMP FLUID

The transaxle was sealed at the factory and fluid maintenance is not required. Should the transaxle ever leak or require servicing, contact your nearest authorized service center/department.

7. Fault Tracing.

Eng

Engine will not start

1. No fuel in fuel tank.
2. Plug defective.
3. Plug connection defective.
4. Dirt in carburettor or fuel pipe.

Start motor will not turn engine

1. Battery flat.
2. Poor contact between cable and battery pole.
3. Connection/disconnection level in wrong position.
4. Main fuse defective.
5. Ignition lock defective.
6. Safety contact for clutch/brake pedal defective.
7. Clutch/brake pedal not pushed down.

Engine runs unevenly

1. Gear too high.
2. Plug defective.
3. Carburettor incorrectly set.
4. Air filter blocked.
5. Fuel tank ventilation blocked.
6. Ignition setting defective.
7. Dirt in fuel pipe.

Engine feels weak

1. Air filter blocked.
2. Plug defective.
3. Dirt in carburettor or fuel pipe.
4. Carburettor incorrectly set.

Engine overheats

1. Engine overloaded.
2. Air inlet or cooling fins blocked.
3. Fan damaged.
4. Too little or no oil in engine.
5. Ignition setting defective.
6. Plug defective.

Battery does not charge

1. Fuse defective.
2. One or several cells defective.
3. Poor contact between battery poles and cables.

Lighting does not function

1. Bulbs defective.
2. Switch defective.
3. Short-circuit in cable.

The machine vibrates

1. Blades loose.
2. Engine loose.
3. Unbalance in one or both blades resulting from damage or poor balancing after sharpening.

Uneven cutting results

1. Blades blunt.
2. Cutting unit skew.
3. Long or wet grass.
4. Grass stuck under cover.
5. Different air pressures in tyres on left and right side.
6. Gear too high.
7. Drive belt slipping.

8. Storage.

Eng The following steps should be taken when mowing season is over:

- Clean the entire machine, especially underneath the cutting unit cover.
- Touch up all chipped paint surfaces in order to avoid corrosion.
- Change engine oil.
- Drain the fuel tank. Start the engine and allow it to run until it is out of fuel.
- Remove the spark plug and pour one table spoon of engine oil into the cylinder. Pull the engine over in order to distribute the oil. Return the spark plug.
- Remove the battery. Recharge and store it in a cool, dry place. Protect the battery from low temperatures.
- The machine should be stored indoors in a dry, dust-free place.

WARNING!

Never use gasoline when cleaning. Use degreasing detergent and warm water instead.

Service

When ordering, we need the following information:

Date of purchase, model, type and serial number of the mower.

Always use original spare parts.

Contact your local dealer of distributor for warranty service and repairs.