

Pioneer[®]

A T H L E T I C S

**Pioneer Athletics
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Cleveland; Ohio 44135
Telephone : 800-877-1500**

Synthetic Turf Care Machine: Field Crewzer

242.000

From machine ID no. :

Version : January 2010

242 99 09

Introduction

READ THIS MANUAL carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage. This manual may also be available in other languages (your dealer can order it for you).

THIS MANUAL SHOULD BE CONSIDERED a permanent part of your machine and should remain with the machine when you sell it.

MEASUREMENTS in this manual are given in both metric and customary U.S. unit equivalents. Furthermore, the corresponding US dimensions are also stated in each case. Use only correct replacement parts and fasteners. Metric and inch fasteners may require a specific metric or inch wrench.

RIGHT HAND AND LEFT HAND sides refer to the direction of travel of the implement when going forward.

WRITE PRODUCT IDENTIFICATION NUMBERS (P.I.N.) in the Specification or Identification Numbers section. Accurately record all the numbers to help in tracing the machine, should it be stolen. Your dealer also needs these numbers when you order parts. File the identification numbers in a secure place away from the machine.

BEFORE OPERATING FOR THE FIRST TIME read and understand the following:

"The requirements for care of synthetic turf areas are different depending on the structure and the type of synthetic turf. Before operation of one of the turf care machines, we recommend consulting the person who installed the synthetic turf or the manufacturer of the synthetic turf to check the characteristics of the turf care machine."

BEFORE DELIVERING THIS MACHINE, your dealer performed a pre-delivery inspection to ensure best performance.

THIS SYNTHETIC TURF CARE MACHINE IS EXCLUSIVELY designed for standard use in synthetic turf care for cleaning and collecting surface waste such as leaves, broken fibers, paper, waste, and twigs on sand or granulate-based synthetic turf areas ("INTENDED USE").

Use in any other way is considered contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service, and repair as specified by the manufacturer also constitute essential elements for the intended use.

INTENTIONAL MISUSE AND ABUSE. Persons and objects must not be transported with the machine attached.

THIS MACHINE SHOULD BE OPERATED, serviced, and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety requirements (accident prevention). The accident prevention regulations, all other generally recognized regulations on occupational health and safety, and the road traffic regulations must be observed at all times. Any unauthorized modifications carried out on this machine will relieve the manufacturer of all liability for any resulting damage or injury.

NOTE THE INSTRUCTIONS for driving on public roads:

"This machine is not suitable for travel on Highways or public roads. It requires additional equipment for this (lighting kit, warning signs for slow vehicles/SMV sign, reflectors). Please contact us if you wish to purchase this optional equipment."

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1.0. Safety

Recognize safety information

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be aware of the potential for personal injury.

Follow recommended precautions and safe operating practices.



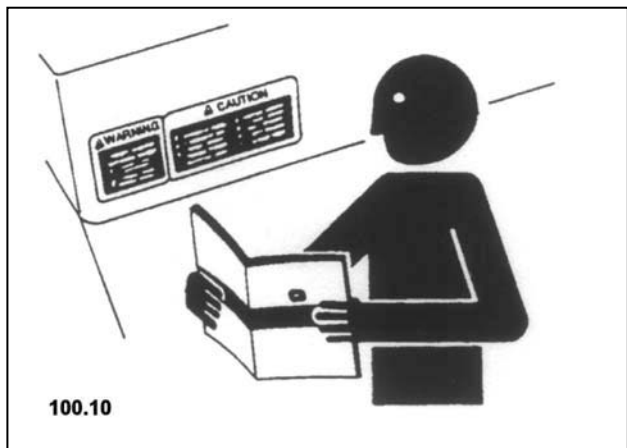
Follow safety instructions

Carefully read all safety messages in this manual and warning signs on your machine. Keep warning signs in good condition. Replace missing or damaged warning signs. Make sure that new equipment, components, and replacement parts include the current warning signs. Replacement warning signs are available from your dealer.

Learn how to operate the machine and use the controls properly. Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

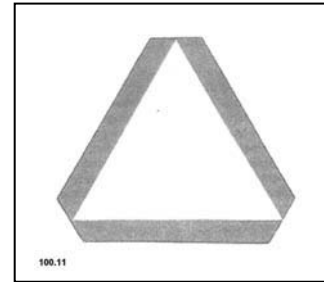
If you do not understand any part of this manual and need assistance, contact your dealer.



1.0. Safety

Observe road traffic regulations

Always observe local road traffic regulations when using public roads.



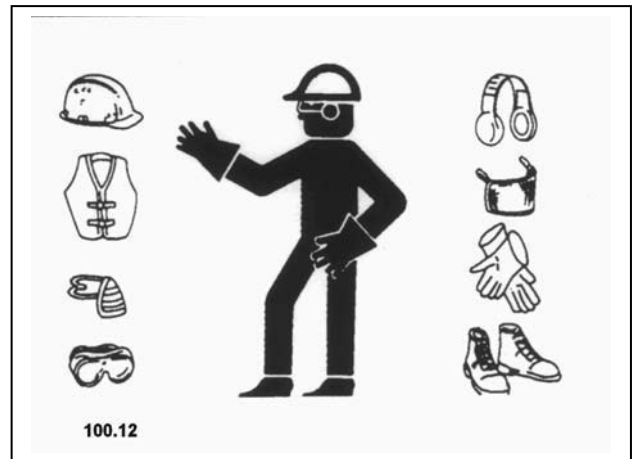
Wear protective clothing

Wear close fitting clothing and personal protective equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earplugs to protect against objectionable or uncomfortably loud noises.

Operating equipment safely requires the full attention of the operator.



Do not wear radio or music headphones while operating the machine.

Stay clear of rotating drive shafts

Entanglement in a rotating drive shaft may cause serious injury or death.

Keep all drive shaft guards in place at all times. Make sure rotating shields can turn freely. Wear close fitting clothing. Stop the engine and make sure PTO shaft is stopped before making adjustments, connections, or cleaning out PTO-driven equipment.



1.0. Safety

Guard and shields

Keep guards and shields in place at all times. Ensure that they are in good condition and installed correctly.

Always disengage the drive components, turn off engine, and remove key before removing any guards or shields.

Keep hands, feet, and clothing away from moving parts.

Avoid high-pressure fluids

Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Hydraulic oil escaping from a small leak is virtually invisible; therefore search for leaks with a piece of cardboard. Protect hands and body from high-pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.

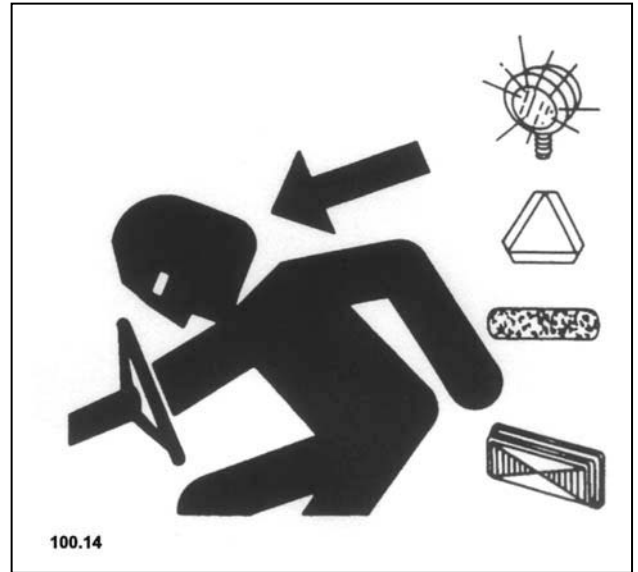
Doctors unfamiliar with this type of injury should check a reliable medical reference.



1.0. Safety

Use safety lights and devices

Avoid collisions with other road users. Slow moving tractors with attachments or towed equipment and self-propelled machines are a particular hazard on public roads. Frequently check for traffic from the rear, especially in turns. Use hand signals or turn signal lights for safe operation in traffic. Use headlights, flashing warning lights, and turn signals day and night. Follow local regulations for equipment lighting and marking. Keep lighting and marking visible and in good working order. Replace or repair lighting and marking that has been damaged or lost. An implement safety lighting kit is available from your dealer.



Avoid heating near pressurized fluid lines

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or use a welding torch near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut if heat goes beyond the immediate flame area.



1.0. Safety

Remove paint before welding or heating

Welding must be conducted only by persons with appropriate qualifications.

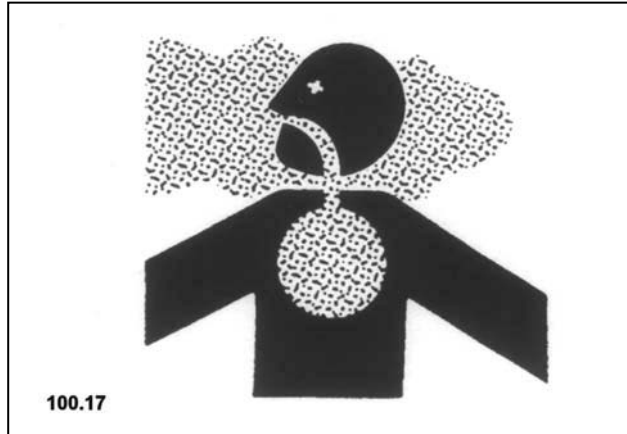
Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

Do all work outside or in a well-ventilated area. Dispose of paint and solvent properly.

Remove paint before welding or heating:

- If you sand paint, avoid breathing the dust. Wear an approved respirator.
- If you use solvent or paint stripper, clean with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



1.0. Safety

1.1. Safety Decals

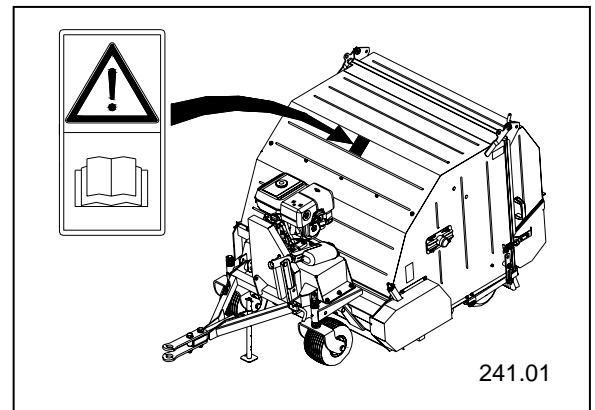
Pictorial warning signs

Warning signs are attached to several important places on this machine to indicate potential danger. The hazard is identified by an exclamation point in a warning triangle. An adjacent symbol shows information on how to avoid personal injury. These safety signs, their placement on the machine, and a brief explanatory text are shown below.



Operator's manual

This operator's manual contains all-important information necessary for safe machine operation. Carefully observe all safety rules to avoid accidents.

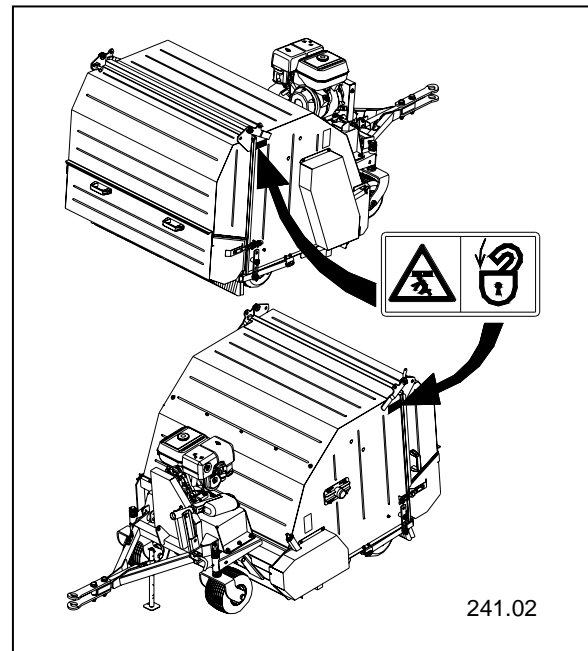


1.0. Safety

1.1. Safety Decals

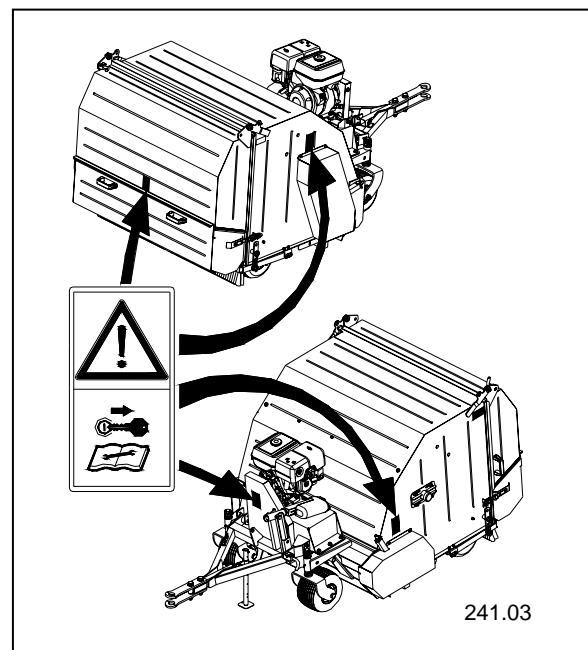
Working in open container

Set the safety lock before working in the vicinity of the open hopper.



Service

Before performing maintenance or repair work, shut off engine and remove key.



1.0. Safety

1.2. Safety Equipment

GENERAL WARNING SIGN REQUIREMENTS

A warning sign with the following safety practices or similar set of messages must be attached to the machine. The label should be visible from the operator's position, if possible.

- a) Read the operator's manual.
- b) Do not operate the machine without guards, shield, and safety devices in place and working.
- c) Do not operate the machine when children and others are around.
- d) Do not allow operation of the machine by untrained personnel.

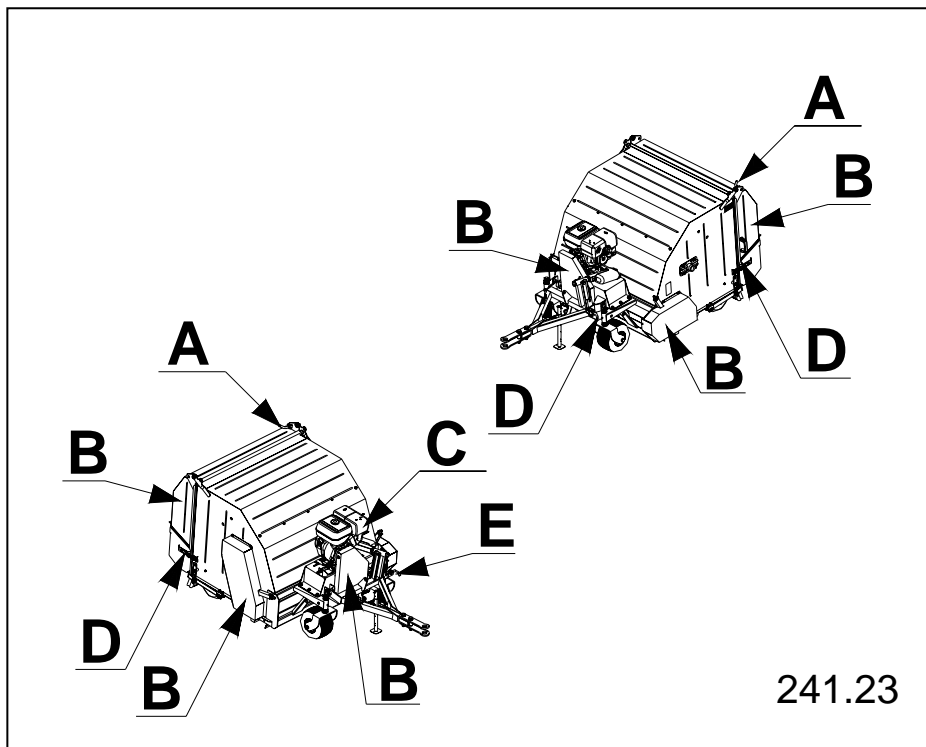


ATTENTION - DANGER !

Never use Field Crewzer without safety equipment. Otherwise, you expose yourself and others to extreme danger.

⇒ Moving parts may cause serious injuries.

Where to Find Safety Equipment on your Machine



A = locking pin for working with the hopper open

B = safety covers, can only be removed with tools.

C = safety shield over muffler

D = safety lock for securing dirt baskets

E = locking pin for drawbar for locking it for transport

1.0. Safety

1.3. Safety instructions



- Besides the information in these operating instructions, please also observe all generally applicable safety and accident prevention standards!
- Familiarize yourself with all equipment and operating elements and their functions before starting work. Ensure that all protective equipment has been properly installed - it is too late to do this when you have started work!
- During work operation, the user is responsible for the safety of third parties!
- Before moving off, ensure that the immediate area of the machine is clear, e.g. no children nearby. Ensure that your visibility is not impaired!
- Keep clear of the danger zone of the machine!
- Switch off the machine engine and the tractor engine when performing any maintenance work.
- Special care should be taken when working and turning on a slope.
- RISK OF TIPPING OVER!
- **ATTENTION !**
The equipment version with drawbar is **NOT** approved for operation on public roads.

2.0. Assembly

2.1. General

For this work, please use your personal protective equipment (PSA) such as: gloves, goggles, ear protectors.

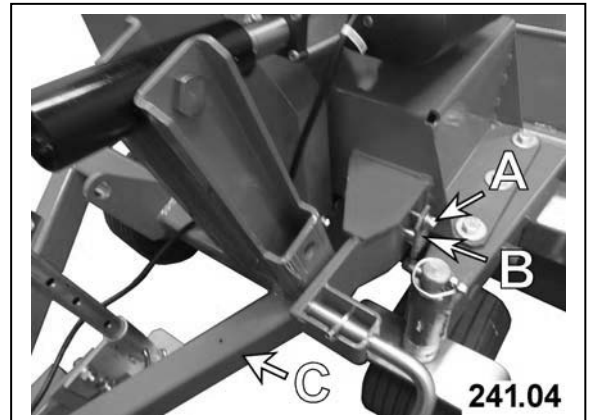
2.2. Attaching drawbar

Unscrew bolt (A).

Remove pin (B)

Attach drawbar (C) to frame with the pin (B).

Tighten bolt (A) to prevent the pin (B) from rotating.



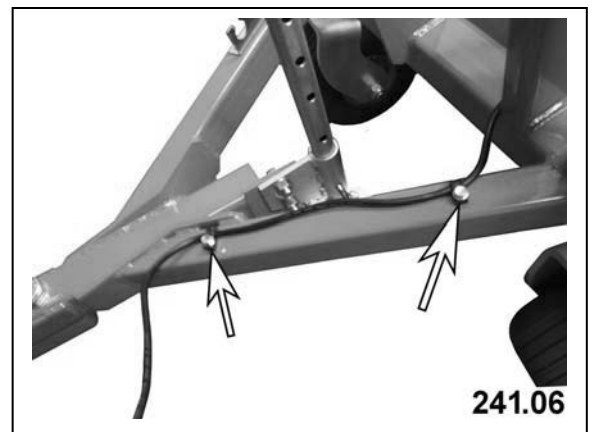
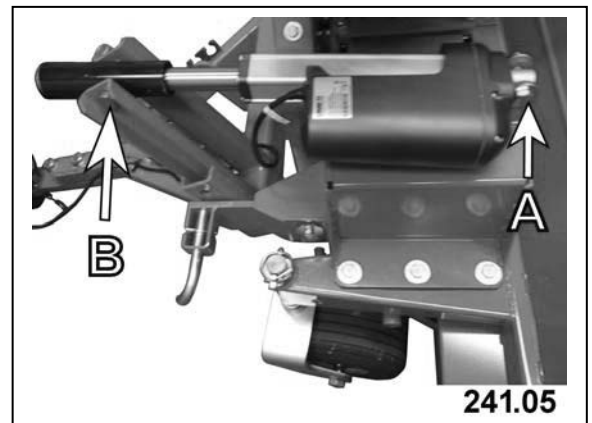
2.3. Installing electric actuator

Fasten electric actuator to the clips (A) with the bolt as shown in Figure 241.05.

Attach it to the drawbar with pin (B) and lock with nut.

The cable from the spindle to the switchbox must be positioned to protect it from friction and crushing.

Attach cable to the drawbar with the included clips



3.0. Transport

3.1. General



ATTENTION DANGER:

- Field Crewzer is delivered fastened to a pallet.
- Use only forklift trucks, cranes, or lifting equipment with a sufficient load-bearing capacity.
- Keep well clear of hoisted loads. If the load falls it may cause fatal injuries.

Improper transport and mounting of Field Crewzer may cause:

- Injury to persons
- Damage to property.

Pay special attention to the driving direction when lifting the Field Crewzer with the shipment frame.

We will not accept any liability for damage resulting from improper handling.



ATTENTION DANGER:

Be careful when cutting through the tension straps. There is a risk of being injured when the straps are cut.

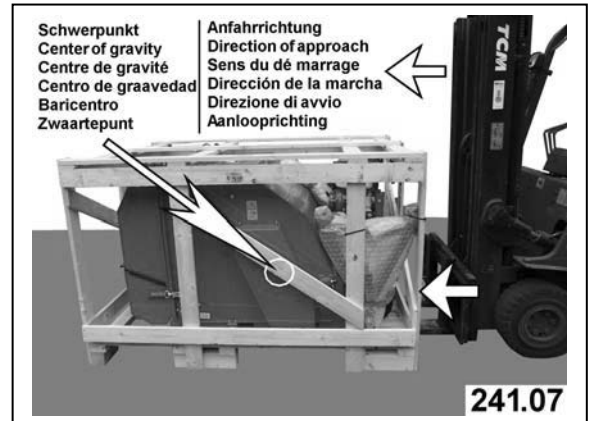
3.0. Transport

3.2. Transporting the Field Crewzer

3.2.1. Transport Using a Forklift

If the Field Crewzer is still fastened to the pallet:

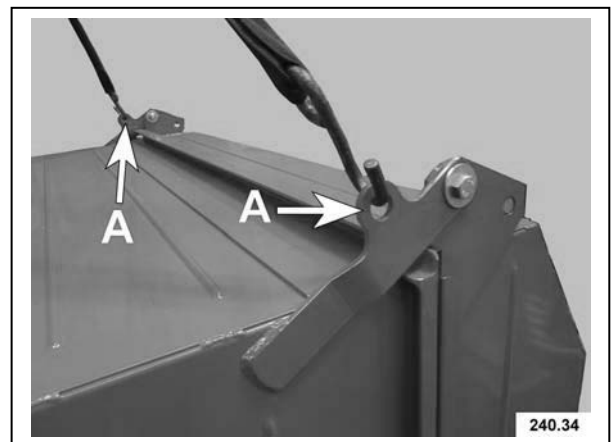
- Move the forks into the shipping frame, (note direction of approach)
- Carefully raise the shipping frame,
- Unload the Field Crewzer from the carrier vehicle when balanced,
- Remove the upper and side parts of the shipping frame,
- Cut through the tension straps,
- Lift the Field Crewzer from the shipping frame.



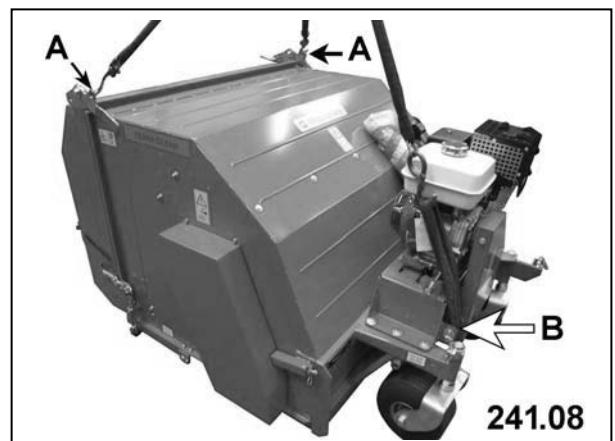
3.2.2. Transport Using a Crane

Use the following three attachment points on the machine to lift it with a crane.

Point A: 2 attachment points on the container straps



Point B: Part B: 1 part right on the bearing pins of the drawbar



2.0. Transport

3.2. Transporting the Field Crewzer

3.2.3. Hitching point for transport on a trailer



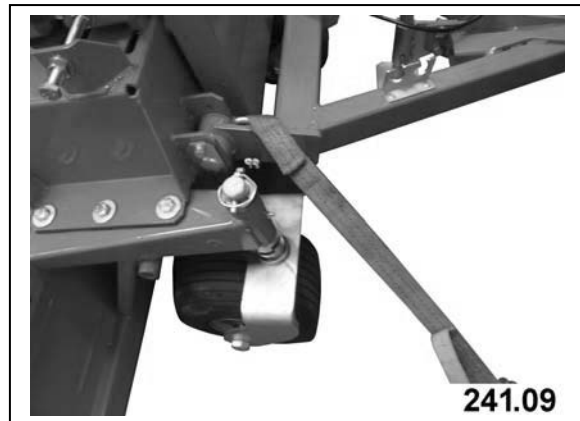
ATTENTION DANGER:

Note the description of removal in Section 5.2.

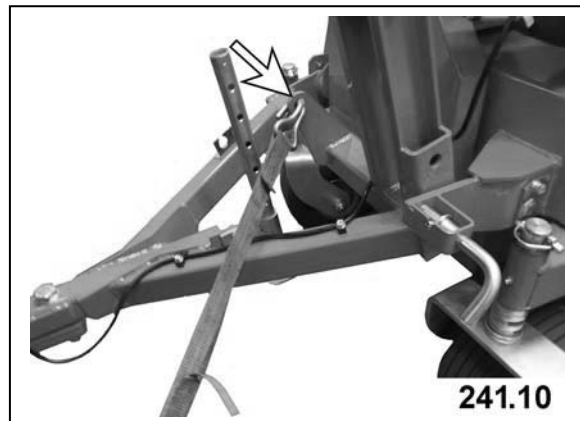
- RISK OF TIPPING OVER!

Tighten the belts evenly at diagonally opposite points.

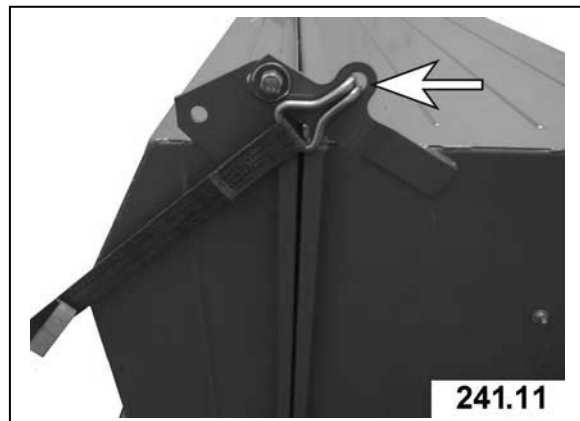
- Attachment points for belts on the right and



left front



Attachment points for belts on the back



4.0. Connecting to the tractor/utility vehicle

4.1. General

The requirement for attachment is:

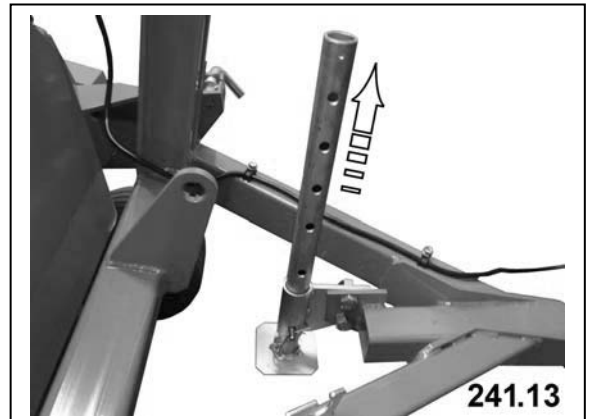
- A drawbar or a yoke coupling.
- Electrical connection in the area of the driver's seat of the tractor/vehicle.

If your tractor is not fitted with an electrical connection, alligator clips can be easily adapted.

4.2. Attachment to tractors with swinging drawbar

The two hitch plates are installed on delivery for attachment to the swinging drawbar.

1. Attach and lock machine to drawbar.
2. Position switchbox with cable in the area of the driver's seat and attach to a clean surface with the suction cup.
3. The electrical cable is connected to the vehicle's electrical connection.
4. When traveling to or from the work site, lift the sweeping head (see Section 4.5.) sufficiently to allow the transport safety lock to lock.
5. Park and lock support in the top position.

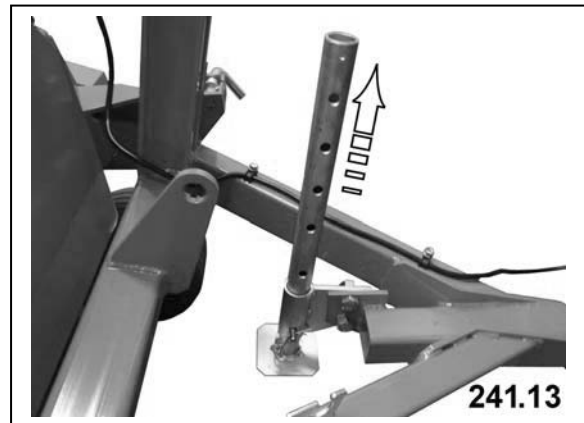
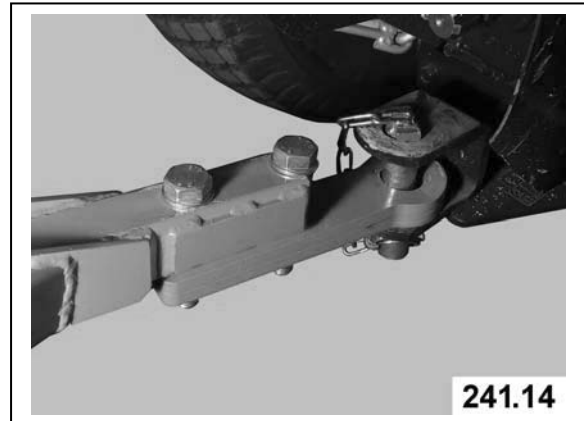


4.0. Connecting to the tractor/utility vehicle

4.3. Attachment to vehicles/tractors with hitch

For attachment to the hitch, the two hitch plates must be attached to the square tube on the drawbar

1. Attach and lock machine to the hitch.
2. Position switchbox with cable in the area of the driver's seat and attach to a clean surface with the suction cup.
3. The electrical cable is connected to the vehicle's electrical connection.
4. When traveling to or from the work site, lift the sweeping head (see Section 4.5.) sufficiently to allow the transport safety lock to lock.
5. Park and lock support in the top position.

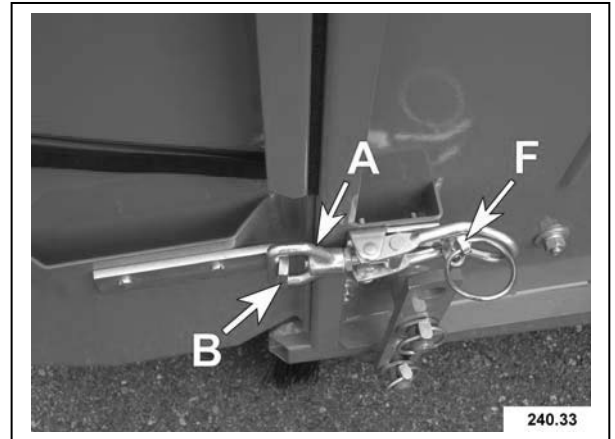


4.0. Connecting to the tractor/utility vehicle

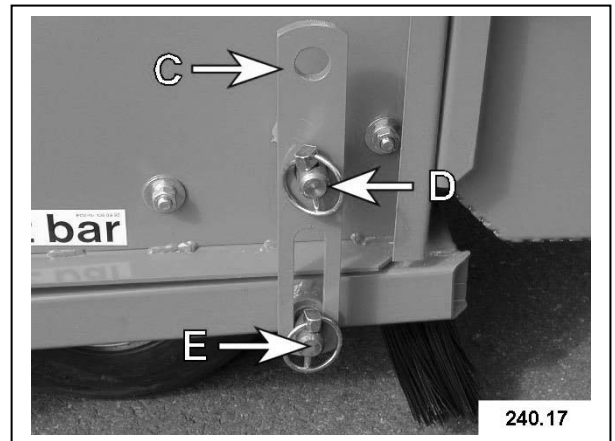
4.4. Transport with the Field Crewzer

Note the following before transport:

1. Turn off drive motor of the Field Crewzer!
2. The latch **(A)** must be attached to the hook **(B)** on the hopper!



3. Store trailing brush for transport as follows:
 - a) remove lynch pin and U-disks.
 - b) Store strap **(C)** with the center hole on the pin **(D)** and with the slot on the pin **(E)**.
 - c) lock strap **(C)** with U-disk and lynch pin.

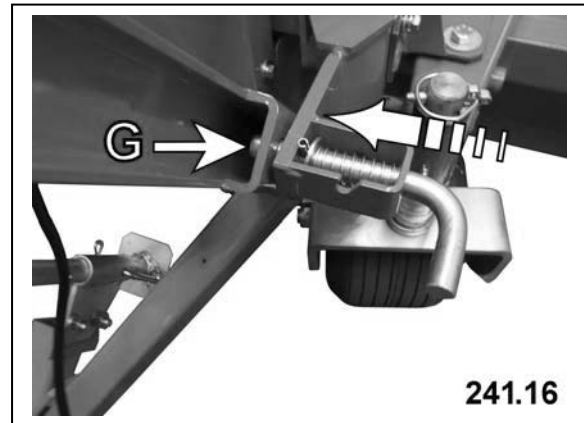


4. Lift the synthetic turf care machine at the front with the electric actuator just enough so the strip brush will not contact the ground during transport.

4.0. Connecting to the tractor

4.4. Transport with the Field Crewzer

When traveling to or from work site, lift the brush head until the transport safety equipment (G) can lock.



Avoid obstacles or drive slowly and cautiously when crossing them.

5.0. Disconnecting from the Tractor/Utility Vehicle

5.1. General

Always place the machine on a firm and smooth surface to disconnect it.

Switch off the machine engine and the vehicle engine when performing any maintenance work.

Disconnect the machine from the vehicle only when it is unloaded.

Secure the Field Crewzer to prevent it from rolling away.

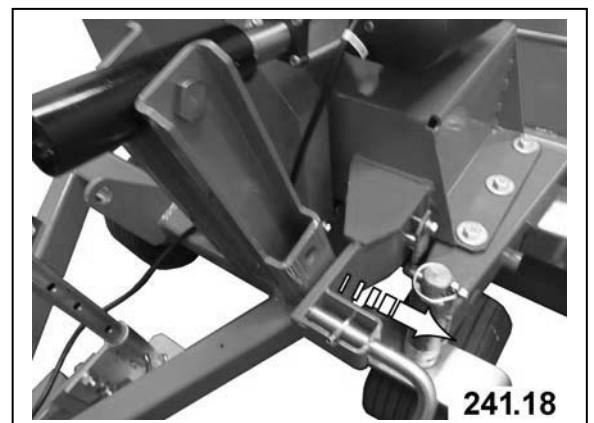
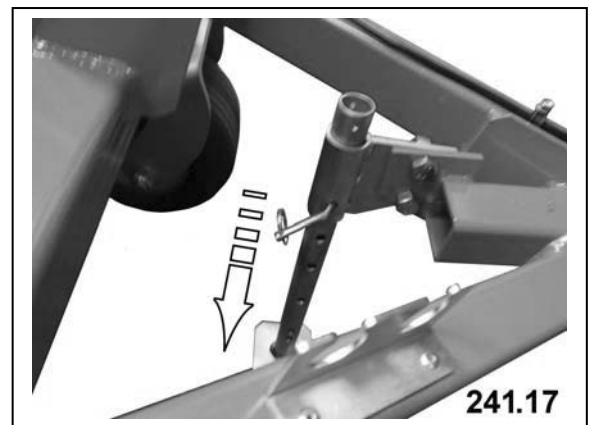
Brushes should not be in contact with the ground when the machine is not attached.

Store machine in a dry place only.

5.2. Disconnecting synthetic turf care machine from the tractor/utility vehicle

Proceed as follows to disconnect the machine:

1. Lower jack stand to the required position and lock
2. Release transport safety equipment.
3. Lower machine onto jack stand.
4. Disconnect electrical connection from vehicle.
5. Place switchbox with cable securely on the machine.
6. Disconnect vehicle coupling pin and drive vehicle forward away from the machine.
7. Place coupling pin on vehicle and lock.



6.0. Before Using

6.1. General



ATTENTION :

Switch off the machine engine and the vehicle engine when performing any maintenance work.

Use the Field Crewzer machine if it has been approved by the owner or the synthetic turf manufacturer.

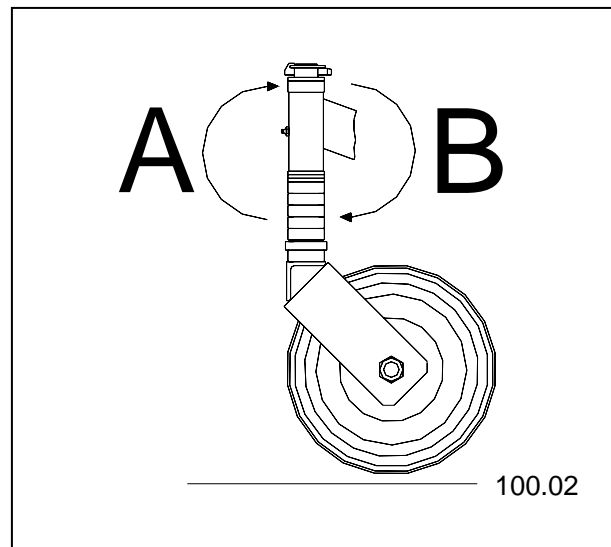
6.2. Setting the working depth

The working depth is set by raising or lowering the support wheels on a flat surface. Select the desired amount of spacer rings on top and under the wheel bracket to achieve the desired depth. Then secure with a foldable cotter pin.

Adjustment in direction:

A = lower

B = higher

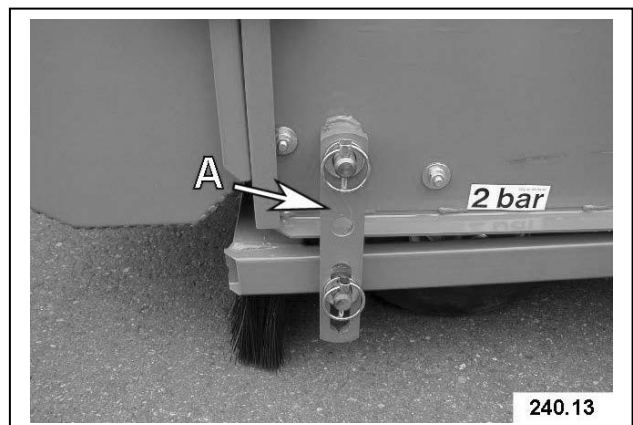


6.3. Setting the drag brush

The drag brush is designed to distribute the dispensed granulate evenly.

To ensure that it functions correctly the strap (A) shown in Figure 240.13 must be placed on both sides and locked with U-plate and lynch pin.

NOTE: only lower the drag brush when working on the synthetic turf.



6.0. Before Using

6.4. Adjusting deflector shield in container

The deflector shield (**A**) must be adjusted for the available space. The deflector shield (**A**) can be fixed in three positions to influence the material flow and thus separation of dirt.

Position 1:

Standard position for regularly cleaned areas.

Position 2:

Larger gap between deflector shield and vibratory screen.

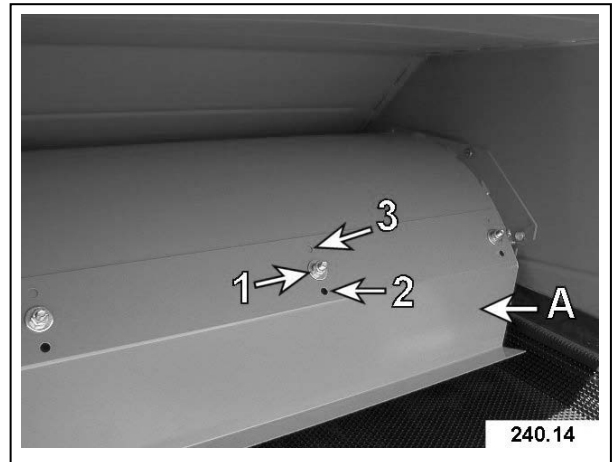
For area with a large amount of leaves or a large volume of waste.

A higher proportion of loose fibers can be expected from newly installed areas.

Position 3:

Small gap between deflector shield and vibratory screen.

For areas with a high proportion of debris.



6.5. Check that the brush head (depth) is correctly adjusted

Drive onto the synthetic turf with the tractor and machine.

Lower the Field Crewzer with the electric actuator, and place attachment in working position.

Only the tip of the brushes on the sweeping head should touch the synthetic turf.

Check the adjustment again after a few yards.

6.0. Before Using

6.6. Engine on Field Crewzer

See the manufacturer's manual for all information required for handling, operating, or adjusting Honda engine.

The following Honda documentation is included:

1. Operator`s manual
DEUTSCH - ITALIANO - NEDERLANDS
2. Operator`s manual
ENGLISH - FRANÇAIS - ESPAÑOL
3. Warranty information
4. Manufacturer's declaration
5. Confirmation of emission values for the USA

7.0. Operation

7.1. General

The synthetic turf care machine should not be used on moist infill, because wet fibers will block the holes in the vibratory screen.

The infill should fall to the ground through the screen.

If the holes in the screen are blocked, the infill will be transported into the collection hopper.

7.2. Driving properties



ATTENTION:

The driving and operational characteristics of the vehicle may be influenced by the attachment of the machine.

- Adjust the ground speed for the actual ground conditions.
- If the manufacturer or installer of the synthetic turf does not indicate the speed, the working speed should not exceed **3 miles/hour**.
- With greater quantities of infill, the operating speed must be reduced to **2.5 miles/hour**.
- Switch off the Field Crewzer engine when traveling to and from work site.

7.0. Operation

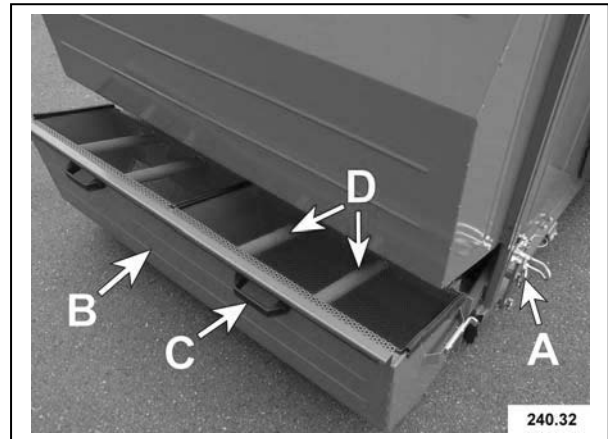
7.3. Emptying waste container



ATTENTION :

Switch off the machine engine and the tractor engine when performing any maintenance work.

1. Lower the Field Crewzer with the electric actuator,
2. Release clamp latch **(A)** on both sides.
3. Pull the basket **(B)** back by the handles **(C)** and lower to the ground.
4. Use the reinforcing rods **(D)** to lift out and carry the two baskets.
5. Place the empty baskets in the hopper.
6. Push hopper evenly forward.
7. Attach clamp latch **(A)** on both side and lock.



7.0. Operation

7.4. Faults and remedies

Description	Cause	Remedy
Machine vibrates in the area of the baffle plate	Many broken fibers	Open baffle plate fully and reduce ground speed
	Many leaves	Increase cleaning intervals
	Bulky garbage (bottles, etc.)	Reduce speed
	Synthetic turf surface too wet	Allow area to dry
Accumulation of infill in collection hopper	Insufficient dirt and the baffle plate is adjusted too high	Adjust baffle plate to the lowest position
	Synthetic turf surface too wet	Allow area to dry
	Ground speed too high	Reduce the driving speed
	Pickup brush set too low	Reduce the working depth.
Unsatisfactory pickup quality	Check engine speed	Set engine to rated speed of 2500 rpm
	Rotary brush set too high	Set to recommended working depth of 0.2 - 0.3 in. depending on the hardness of the area
	Area very dirty	Clean area twice
		Adjust cleaning intervals to the quantity of dirt
	Gap between guide plate and brushes too high	Adjust brush, replace rotary brushes if necessary
Machine is noisy with excessive vibration	Bearing of vibratory sieve worn	Excessive play > 0.1 in. replace bushings
	Bearing damage on brush pickup or vibrator	Check bearings, if necessary replace deep groove ball bearings
	Play between bearing and rotary brush too great	Check play, if necessary replace rotary brush

8.0. Service

8.1. General



ATTENTION DANGER:

All work for maintenance, repair and disassembly must be done by qualified technicians only.

Carry out maintenance work only with the machine attached. Switch off the vehicle and ensure that it cannot be accidentally switched on.

Switch on the engine for all work on the Field Crewzer.

For this work, please use your personal protective equipment (PSA) such as: gloves, goggles, ear protectors.

Use **original parts only**; parts from other manufacturers are often not of the required quality and therefore constitute safety hazards. Furthermore, the warranty only retains its validity, and legitimate warranty claims can only be recognized, if **original parts from the manufacturer** have been used exclusively.

We would like to draw your attention, in particular, to the fact that original parts which are not supplied by the manufacturer have neither been tested nor approved by the manufacturer. The installation and/or employment of such products can, in some circumstances, have negative structural effects on your vehicle and negatively affect active and/or passive safety.

The manufacturer is in no way liable for damage resulting from the use of parts from other manufacturers.

After completion of the maintenance work, remove everything that does not belong to the Field Crewzer. Reinstall all paneling.

See the manufacturer's manual (included) for all required information on servicing the Honda engine.

8.0. Service

8.2. Maintenance and inspection list

Working hours	Check	Procedure
20	V-belt tension	Initial inspection in accordance with Section 8.6. Tighten if necessary
40	Lubrication points	Lubricate as shown in Section 8.9.
75	V-belt tension	Check in accordance with Section 8.6. Tighten if necessary
	Bearing play of vibratory sieve	Excessive play > 0.1 in. replace bushings
150	Bearing play of vibratory sieve	Replace bushings
	HONDA engine	See the manufacturer's manual (included) for all required information on servicing the Honda engine.

8.0 Service

8.3. Safety lock with open safety catch

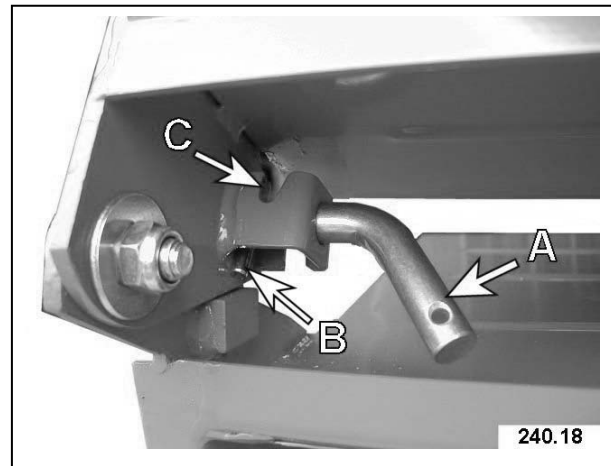


ATTENTION :

The safety lock must be engaged before all work near the open hopper door to prevent the hopper door from lowering accidentally.

- RISK OF INJURY!

- Open hopper door to the stop.
- Rotate handle (A) clockwise to unlock.
- To lock the hopper door the handle (A) must click into the hole.
- Pull the handle back to unlock the hopper door.
- Turn handle until the clamping sleeve (B) locks in the cutout (C).



8.0 Service

8.4. Setting and adjusting the rotary brush



ATTENTION :

Switch off the machine engine and the vehicle engine when performing any maintenance work.

Remove left and right drive guard.

Loosen V-belt on both sides.

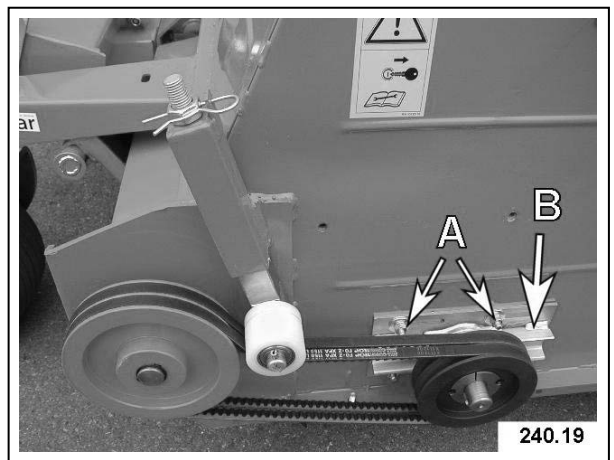
Loosen locking nuts **(A)** on both side bearings **(B)**.

Slide the two side bearings **(B)** evenly forward until the brush bar is about **0.4 in.** from the front panel of the container.

Tighten all locking nuts **(A)** on both side bearings **(B)**.

Tension the V-belts on each side (see Section 8.7)

Replace left and right drive guard.



8.0. Service

8.5. Rotating and replacing the brush bars



ATTENTION :

The machine must be attached to the towing vehicle for all maintenance work.

- RISK OF TIPPING OVER!

Switch off the machine engine and the vehicle engine when performing any maintenance work.

Remove left and right drive guard.

Rotate the tension roller up or down to loosen the V-belts.

Remove all V-belts.

Loosen locking nuts (A) on both bottom side bearings (B).

Pull both side bearings (B) outward to allow the brush roller to drop to the ground.

Lift the front of the machine with the electric actuator.

Pull out the sweeping roller.

If the sweeping bars are slightly bent, the sweeping roller can be rotated 180° and reinstalled.

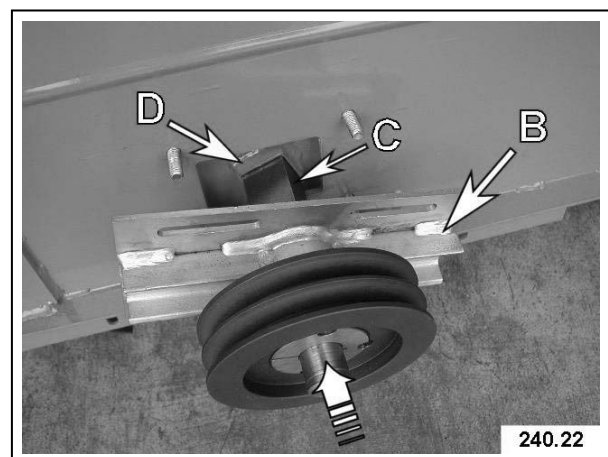
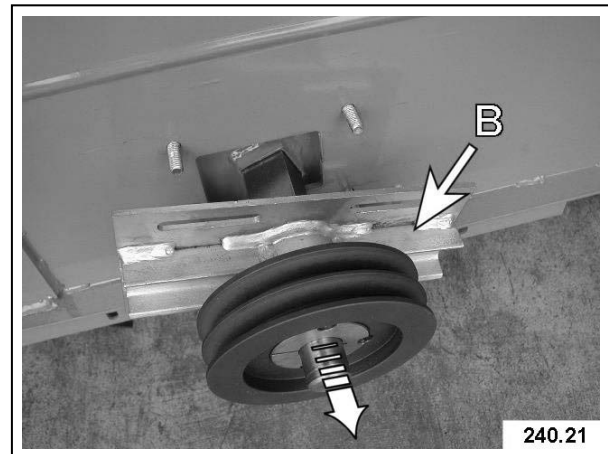
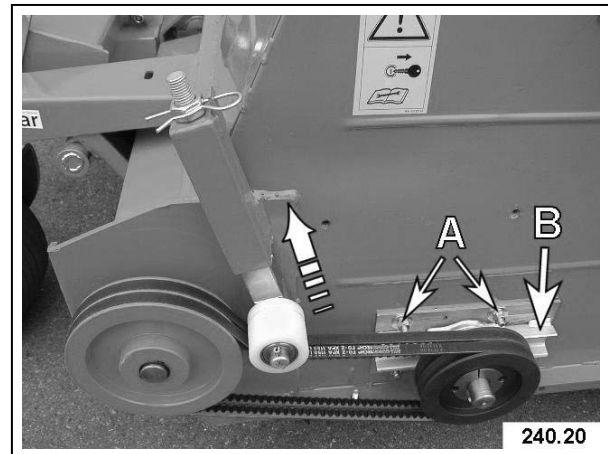
If the bars are seriously bent, they must all be replaced.

Place roller under the machine.

Lower machine onto the support wheels.

Lift sweeping roller and slide the square section (C) of the side bearing (B) into the brush pipe (D).

All other steps are described in Section 8.4.



8.0. Service

8.6. Checking V-belt tension



ATTENTION :

The machine must be attached to the towing vehicle for all maintenance work.

- RISK OF TIPPING OVER!

Switch off the machine engine and the vehicle engine when performing any maintenance work.

Check V-belt tension regularly.

Remove the drive guard.

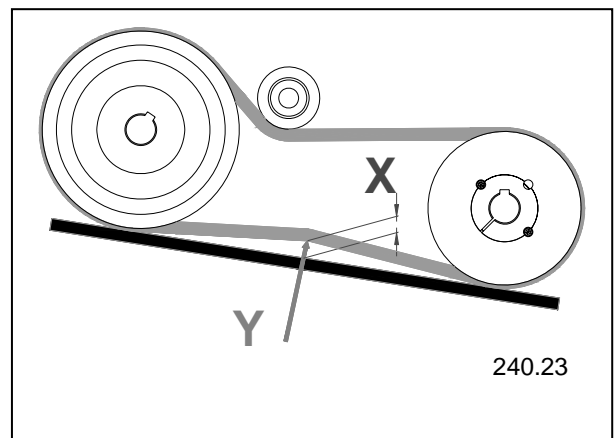
Check V-belt tension.

It must be possible to press the V-belt down between the pulleys for

distance "X" = about 0.6 in.

at a pressure of "Y" = 37 ft lbs.

On completion of work the drive guard must be replaced.



8.0. Service

8.7. Tightening V-belts



ATTENTION :

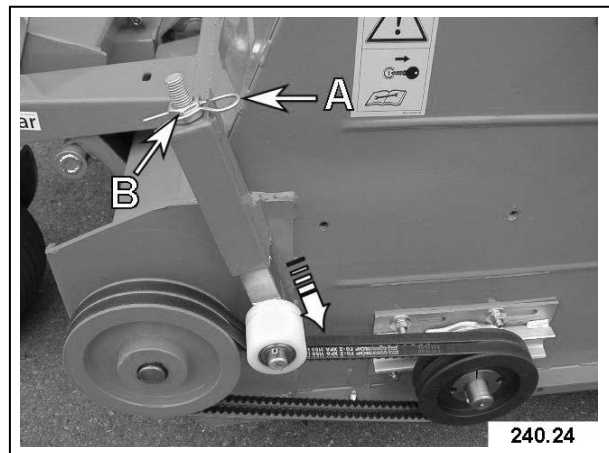
The machine must be attached to the towing vehicle for all maintenance work.

- RISK OF TIPPING OVER!

Switch off the machine engine and the vehicle engine when performing any maintenance work.

Proceed as follows to tighten the V-belts:

1. Remove the drive guard.
2. Remove cotter pin **(A)**.
3. Rotate nut **(B)** counterclockwise until the values for the correct V-belt tension have been reached, see Section 8.6.
4. Replace cotter pin **(B)** to lock the setting.
5. After the adjustment replace the drive guard.



8.0. Service

8.7. Tightening V-belts



ATTENTION :

Switch off the engine before performing any maintenance work.

Unhitch Field Crewzer from the vehicle (see Section 5.2.), and lower onto front support wheels.

Remove the drive guard.

Loosen the four fastening bolts of the adjustment plate slightly.

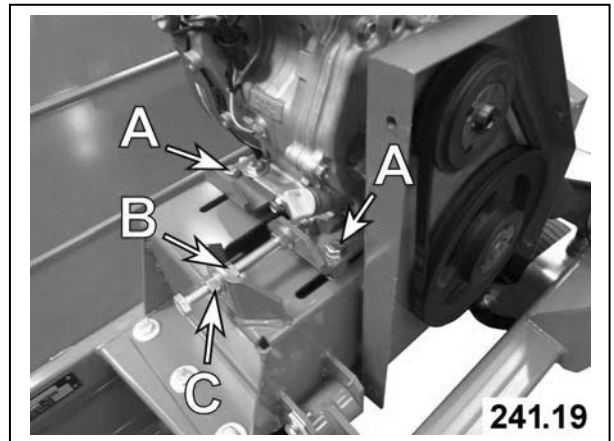
Release lock nut **(A)**.

Tighten nut **(B)** until the values specified in Section 6.6. have been reached.

Tighten lock nut **(C)** to lock the setting.

Tighten the four fastening bolts on the adjustment plate.

Re-install drive guard.



8.0. Service

8.8. Cleaning the synthetic turf care machine



ATTENTION :

Always clean the machine with a cloth or water - never with your bare hands.
- RISK OF INJURY!

Clean the machine daily after completion of work to ensure that the machine is in perfect working order the next time you use it.

The main points of attention are:

- all sweeping brushes
- vibratory screen in container
- perforated screen in collection hopper
- after use on wet areas we recommend checking the intake duct and cleaning it if necessary.

8.9.1. Lubrication – general instructions

- Switch off the machine engine and the tractor engine when performing any maintenance work.
- Lubricate frequently as required. (Until all lubrication points are sufficiently lubricated).
- Keep all exposed machine parts, threaded spindles, and guides slightly lubricated.
- Clean lubrication nipple before lubrication.
- Clean up leaking grease.
- Before starting the machine after a longer standstill, lubricate and maintain the entire machine.

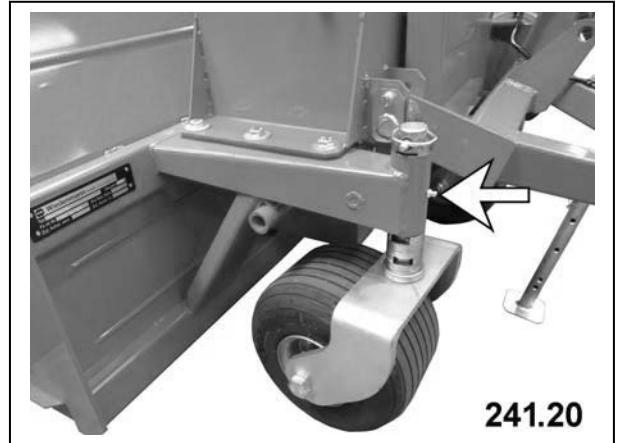
8.0. Service

8.9.2. Lubrication (weekly)

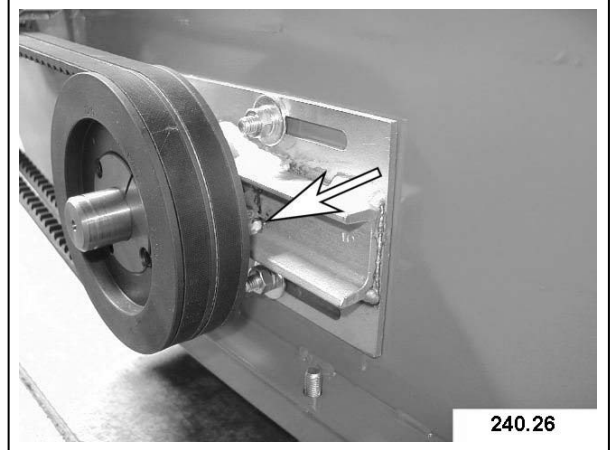
Lubricate the points indicated on the diagram by arrows once a week.

The pictures only show one of several similar subassemblies with lubrication points.

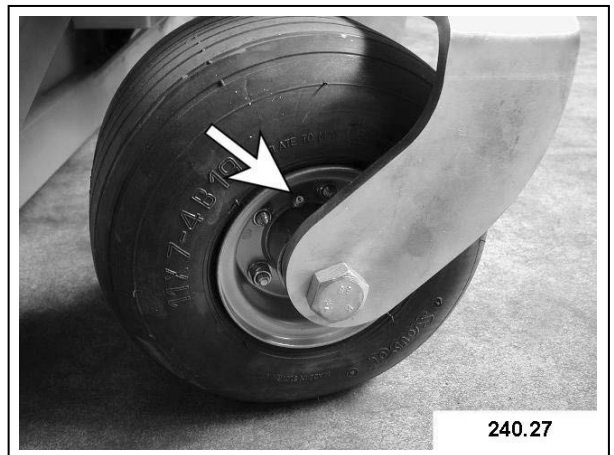
Support wheel bearings



Side bearings



Wheels



8.0. Service

8.10. HONDA engine oil change

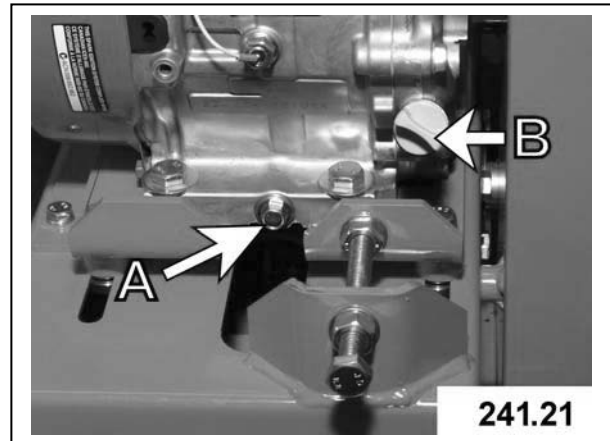
Place collection pan on the ground under the engine.

Unscrew oil drain plug **(A)**.

Remove cap **(B)** on oil filler neck.

Screw in the oil drain plug before filling.

For the required oil type and quantity see the manufacturer's manual.



IMPORTANT:

Strictly observe the regulations and laws concerning the disposal of environmentally hazardous substances.

Familiarize yourself completely with the procedure for disposal.

8.0. Service

8.11. Wheels and tires

Check the tire pressure regularly: **29 psi**



ATTENTION :

If the tires burst and parts of the wheel rims fly off, they may cause serious or fatal injury.

Install tires only if you have the necessary experience and equipment.

Always maintain the specified tire pressure. Never inflate tires above the recommended pressure. Do not heat wheels or tires or carry out welding work on them. Heating tires may cause them to burst because heating greatly increases the pressure in the tire. Welding may deform or damage a wheel.

When inflating a tire, select a filler connection with a safety strap and an extension hose with sufficient length to allow the operator to stand clear of the tire during inflation. Never stand in front of or on the tire. Use a safety cage if available.

Check wheels and tires daily for low pressure, cuts, bulges, damaged rims, missing wheel studs, or nuts.

8.0. Service

8.12. Disassembly / Disposal



ATTENTION :

Proceed cautiously when dismantling the machine. Read the chapter "Safety and Precautions" and observe local safety regulations.

Danger points are:

- Hot surfaces on engine,
- Heavy parts that may fall after removal,
- Sharp edges
- Crushing injuries caused by tipping parts.

Disassembly for disposal

1. Drain fuel from tank.
2. Blow out engine oil.
3. Place machine on a firm surface.
4. Disassemble machine from the top downwards.

IMPORTANT:

Strictly observe the regulations and laws concerning the disposal of environmentally hazardous substances. Familiarize yourself completely with the procedure for disposal.

8.13 Unauthorized modification and spare part manufacturing

Conversion or modifications of the machine are only authorized with the permission of the manufacturer!

Original spare parts and accessories authorized by the manufacturer guarantee your safety. The use of other parts might change the characteristics of the machine. In this case, the manufacturer is exonerated from liability in the event of damage.

9.0. Equipment

9.1. Equipment supplied

- Field Crewzer with 5.3 kW (7.2 HP) engine.
- Attachment parts drawbar
- Electric actuator for lifting the sweeping head
- Collection hopper 26 US.gal.
- Manual, transfer declaration with warranty card.

10.0. Specifications

10.1. Technical details

A Machine length with drawbar	102 in.
B Machine width	58 in.
C Machine height	47 in.
D Working width	47 in.
E Max. height of lower switch plate	13 in.

Engine	Honda GX 240
Engine power	5.3 KW / 7.2 HP
Capacity of fuel tank for unleaded gasoline	1.4 gal.
Engine oil - capacity	0.3 gal.
Rated speed of engine	2500 1/min

For all other information regarding the engine see the manufacturer's manual.

Working speed of brush roller	çá. 690 1/min.
Operating speed	3.1 miles/hour
Working depth of brush roller	0.2 – 0.3 in.
Min. power required for tractor	9 KW / 12 HP

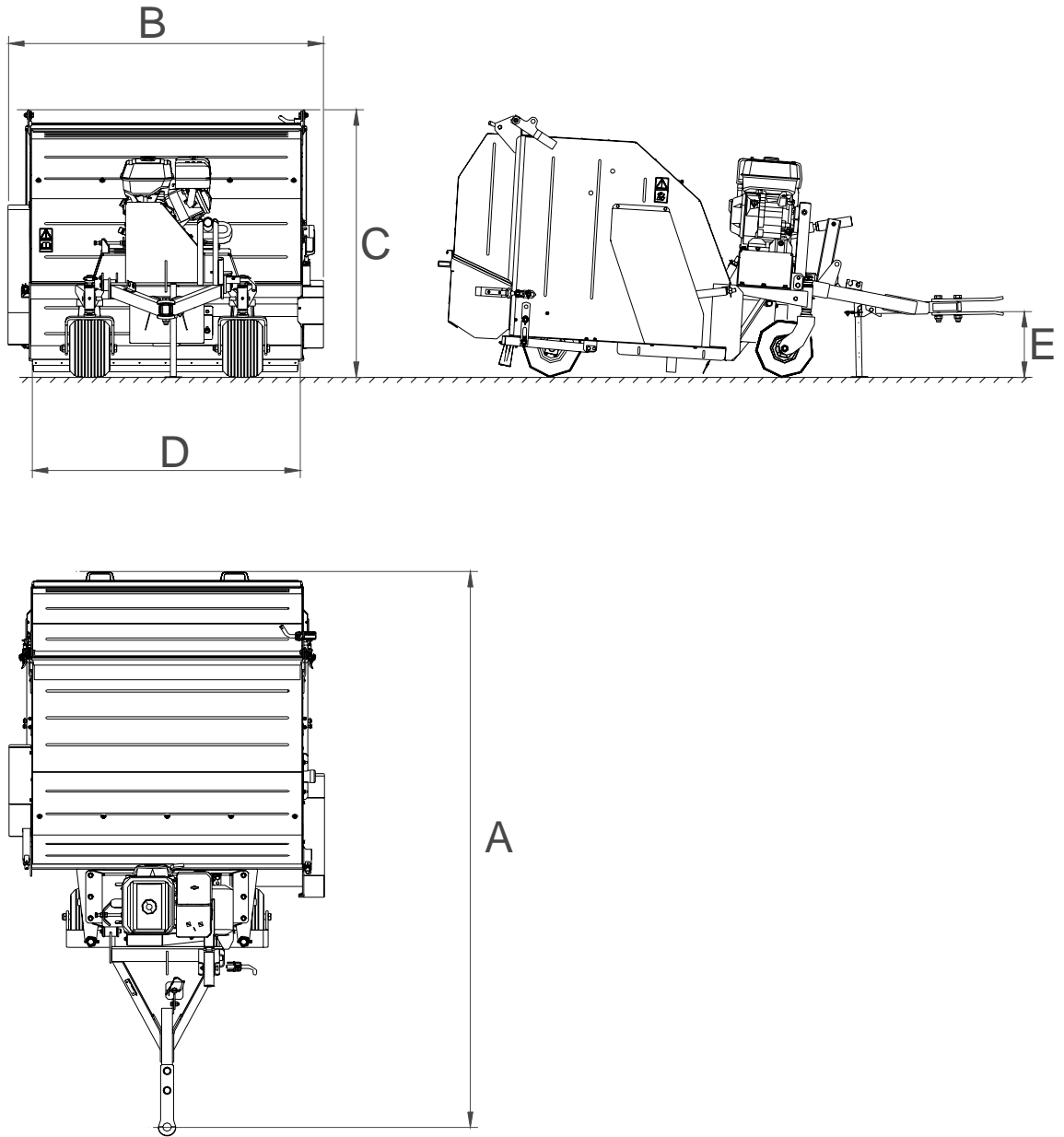
Front and rear tires	11x7-4AM / 4PR
Diameter of tires	10 in.
Tire pressure	29 psi
Volume of collection hopper	26 gal.

Weights:

Model with drawbar and engine	970 lb.
Sound level LWA measured without towing vehicle	98 dB(A)
Sound pressure level LPA measured without towing vehicle	83 dB(A)
Sound power level LWA measured with a John Deere 4400 tractor	104 dB(A)
Sound pressure level LPA measured with a John Deere 4400 tractor	88 dB(A)

10.0. Specifications

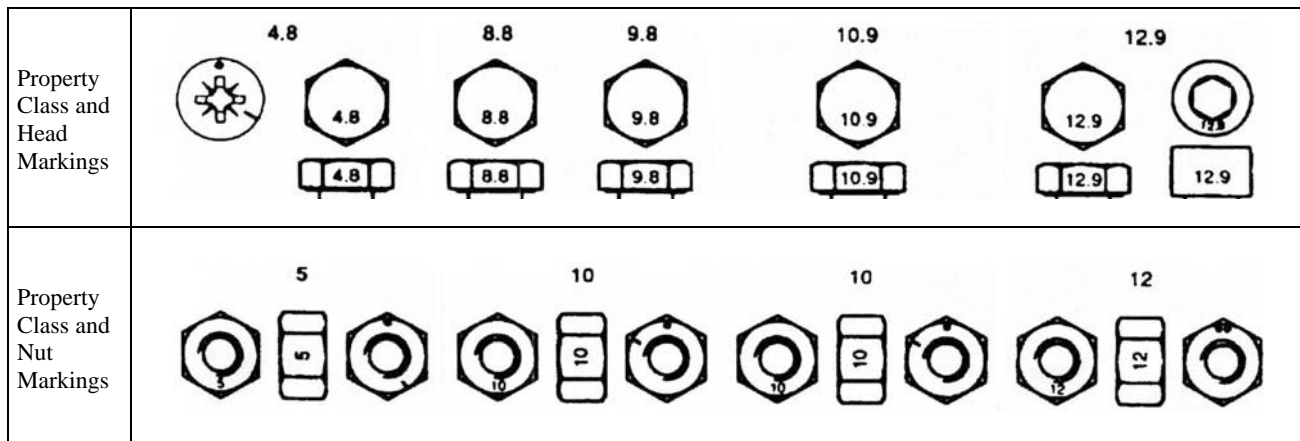
10.1



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10.0. Specifications

10.2. Metric bolt and cap screw torque values



Size	class 4.8				class 8.8 or 9.8				class 10.9				class 12.9			
	Dry **		Lubricated *		Dry **		Lubricated *		Dry **		Lubricated *		Dry **		Lubricated *	
	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft	N-m	lb-ft
M6	4.8	3.5	6	4.5	9	6.5	11	8.5	13	9.5	17	12	15	11.5	19	14.5
M8	12	8.5	15	11	22	16	28	20	32	24	40	30	37	28	47	35
M10	23	17	29	21	43	32	55	40	63	47	80	60	75	55	95	70
M12	40	29	50	37	75	55	95	70	110	80	140	105	130	95	165	120
M14	63	47	80	60	120	88	150	110	175	130	225	165	205	150	260	190
M16	100	73	125	92	190	140	240	175	275	200	350	255	320	240	400	300
M18	135	100	175	125	260	195	330	250	375	275	475	350	440	325	560	410
M20	190	140	240	180	375	275	475	350	530	400	675	500	625	460	800	580
M22	260	190	330	250	510	375	650	475	725	540	925	675	850	625	1075	800
M24	330	250	425	310	650	475	825	600	925	675	1150	850	1075	800	1350	1000
M27	490	360	625	450	950	700	1200	875	1350	1000	1700	1250	1600	1150	2000	1500
M30	675	490	850	625	1300	950	1650	1200	1850	1350	2300	1700	2150	1600	2700	2000
M33	900	675	1150	850	1750	1300	2200	1650	2500	1850	3150	2350	2900	2150	3700	2750
M36	1150	850	1450	1075	2250	1650	2850	2100	3200	2350	4050	3000	3750	2750	4750	3500

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

Shear bolts are designed to fail under predetermined loads. Always replace shear bolt with identical property class.

Fasteners should be replaced with the same or higher property class. If higher property class fasteners are used, these should only be tightened to the strength of the original.

** "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings.

Make sure fasteners threads are clean and that you properly start thread engagement. This will prevent them from failing when tightening.

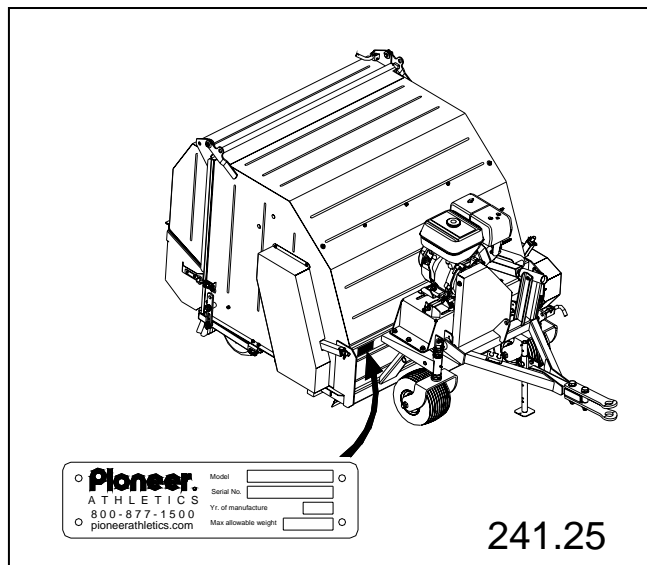
Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

** "Dry" means plain or zinc plated without any lubrication.

10.0. Specifications

10.3. Serial Number

Record product identification No. (serial no.) in the space provided below. Always quote this number when ordering spare parts or in case of warranty claims.



Vehicle ID no.....