Multi-Trac

CASE CS78, CS78a, CS86a, CS94a

Sva 6-22381

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SAFETY

Read and observe the operating instructions and safety notes and before starting.

You should be aware that your own safety and the safety of others depends on how the machine is serviced and operated. You must become acquainted with the arrangement and function of all control elements before attempting to work with the machine. ALL CONTROL ELEMENTS MUST BE TESTED IN A SAFE AREA BEFORE STARTING WORK.

READ THE MANUAL THOROUGHLY and ensure that you understand the purpose and function of the control elements. Each device has certain function related restrictions. Before work is begun, ensure that the speed, braking effect, manoeuvrability, stability and load ratio of this machine has been correctly estimated.

Safety regulations, insurance requirements and national, regional and local law is not replaced by the safety notes in this manual. Ensure that the machine is properly equipped according to the respective laws and guidelines.

It is allowed to modify the vehicle within the framework of technical values under compliance with possible modification guidelines in force, type relevant modifications must be made known to the authorities concerned.

CASE-STEYR strives towards improvements in safety: This occurs through the production of tractors with better and better safety facilities and through notes on the rules for their safe operation.

THIS SAFETY WARNING SYMBOL INDICATES IMPORTANT SAFETY NOTES IN THIS MANUAL. WHEN THIS SYMBOL APPEARS, THE SUBSEQUENT NOTES MUST BE READ THOROUGHLY AND YOU SHOULD BE AWARE OF POSSIBLE DANGER OF INJURY AND POSSIBLY DEATH. M171B

CORRECT USAGE

This tractor is built exclusively for use in agricultural, communal or forestry work (correct usage). The tractor's function is mainly in its pulling power and to pull, push, carry or operated particular implements, machines or trailers.

Usage above and beyond this is considered as incorrect. The manufacturer will not accept responsibility for any resulting damages. The risk is carried solely by the user.

Strict adherence to the operating, service and maintenance requirements stipulated by the manufacturer also fall under correct usage.

This Case-Steyr tractor may only be used, serviced and maintained by capable persons who are familiar with the particular properties of the machine and who

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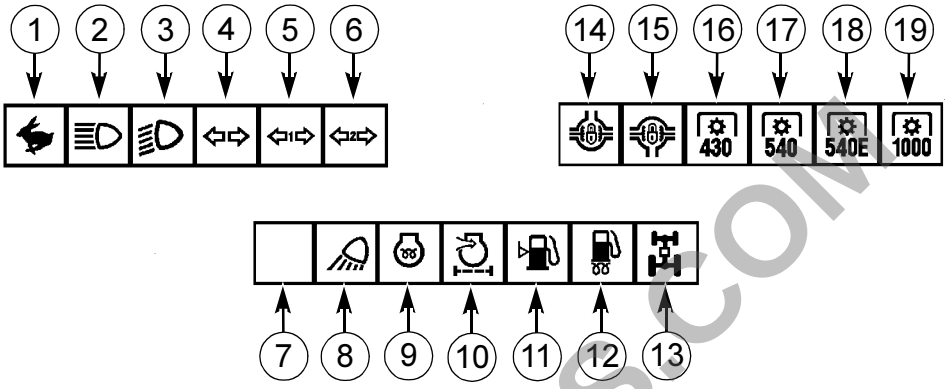
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Indicator lamps



SS97H482

1. POWER SHIFT GROUP INDICATOR LIGHT (if fitted) – This indicator lamp (green) lights up when the power shift group is shifted to the fast position.

2. HEADLIGHT HIGH BEAM INDICATOR LAMP (blue) – When the vehicle headlights are switched ON, this indicator lamp lights up if the steering column-combined switch is selected to the high beam position and the ignition switch is selected to position 1 or the headlight flasher is operated.

3. DIPPED HEADLIGHTS INDICATOR LAMP (green) – When vehicle headlights are switched ON, this indicator lamp lights up if the steering column-combined switch is selected to the dipped beam position and the ignition switch is selected to position 1.

4. INDICATOR CONTROL LAMP (green) – This control lamp blinks when the traffic indicators are used or if the hazard warning lights are switched ON.

5. INDICATOR CONTROL LAMP FOR FIRST TRAILER (green) – This control lamp blinks when the traffic indicators are used and a trailer is hitched-up and electrically connected or if the hazard warning lights are switched ON.

6. INDICATOR CONTROL LAMP FOR SECOND TRAILER (green) – This control lamp blinks when the traffic indicators are used and two trailers are hitched-up and electrically connected or if the hazard warning lights are switched ON.

7. EMPTY

8. SEARCHLIGHT INDICATOR LAMP (orange) – This control lamp lights up when the searchlights are switched ON.

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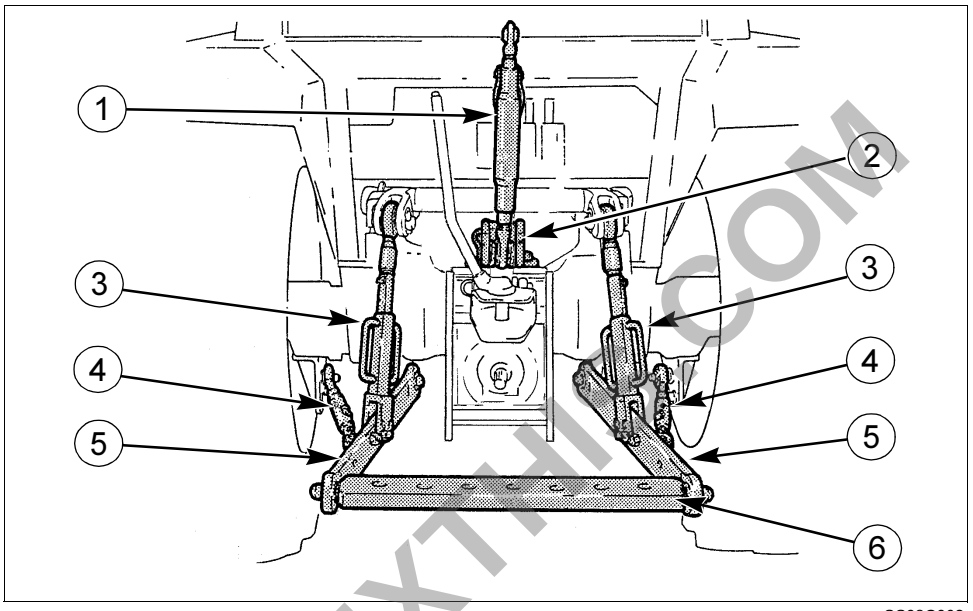
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Power Lift Linkage



SS98C062

1. ADJUSTABLE UPPER LINKAGE
2. COUPLING
3. LIFTING RODS WITH BOTTLE-SCREW ADJUSTER
4. ADJUSTABLE SIDE SUPPORT STRUTS
5. LOWER LINKAGE
6. DRAWBAR

Adjusting the lower linkages

The lower linkages must be adjusted so that the equipment works at the correct depth and the lower linkages can follow the contour of the ground.

NOTE: *Before adjustments are made to the hydraulics, ensure that the tyre pressure, wheel fittings and ballasting are correct. Refer also to tyre pressures and carrying capacities on page 161 and under TRACTOR BALLASTING on page 177 of this manual.*

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STANDARD STARTING PROCEDURE

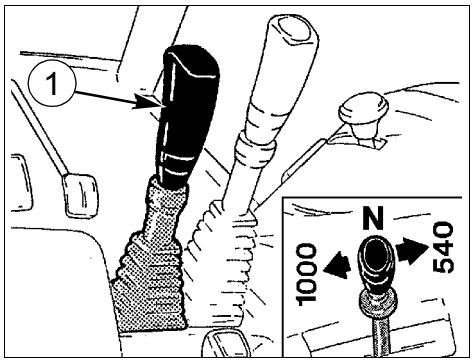
WARNING: *Operate the controls from the driver's seat only.*

IMPORTANT: *Let the engine idle for a few minutes to make sure that enough oil can get to the turbo charger bearings and other engine parts before operating the engine at nominal speed.*

STEP 1

Switch the battery master switch ON (if fitted).

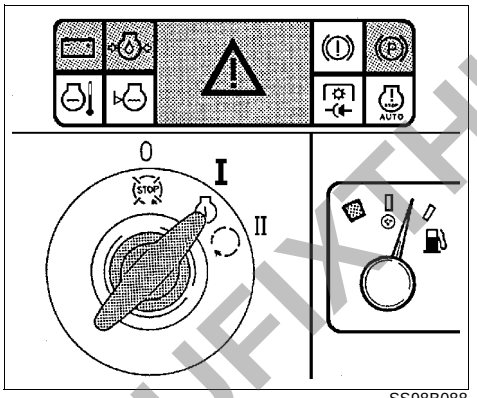
STEP 2



SS98B087

Shift the gear lever (1) to the neutral position or disengage the PTO shafts.

STEP 3



SS98B088

Turn the ignition switch to position I . Charging, oil pressure indicators and the parking brake applied indicator lamp light up and the centralised warning system WARNING symbol flashes simultaneously. Fuel reserve can be seen on the combination instrument.

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ENGINE HOOD

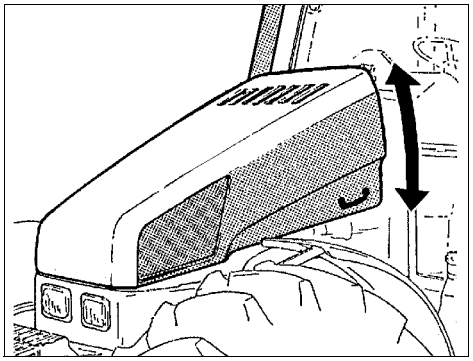
The engine hood must be tilted up in order to perform maintenance work on the cooling and fuel systems.

Opening the bonnet

STEP 1

Put the tractor on solid, level ground and apply the parking brake.

STEP 2



SS98M034

Unlock the bonnet, raise it up and tilt it forward.

A gas-pressure spring holds the engine hood open and closed. No locks!

IMPORTANT: *Do not carry out maintenance work with the engine running!*

WARNING: *The exhaust pipe may be hot.*

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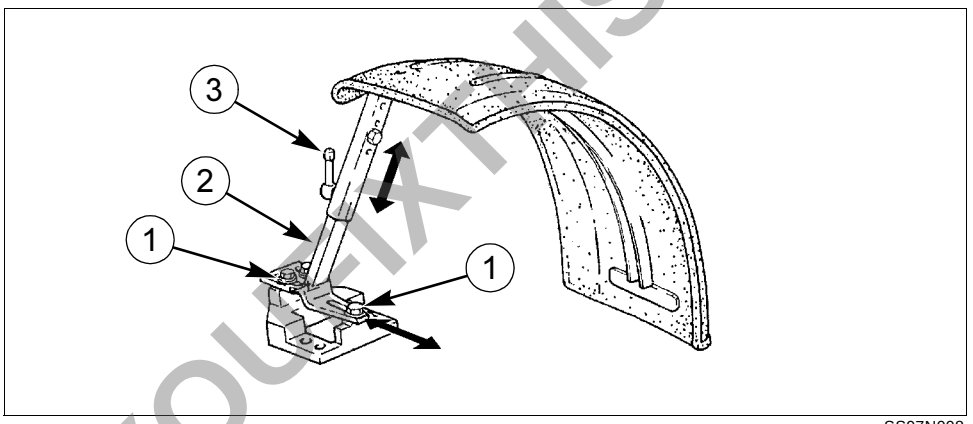
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FRONT WHEEL MUDGUARD – 4-WHEEL DRIVE TRACTOR (if fitted)

Front wheel mudguards are obtainable for 4-wheel drive tractors.

The mudguards are mounted on the axle stub housings. In order to maintain the necessary space between the mudguards and other tractor parts, the mudguards must be placed in the required position for the track setting and tyre size respectively. Adjustment is continuous.

When the mudguards are fitted, the steering limits must be adjusted accordingly (see page 163).



SS97N008

STEP 1

Loosen the hex-screws (1) in order to adjust the front mudguard to a new track width.

Push the mud guard bracket (2) into the new position and re-tighten the screws.

STEP 2

To adjust the front mudguards to a new tyre diameter, loosen the fixing lever (3) push the mudguards into the new position and re-tighten the screws.

IMPORTANT: *After adjusting the front wheel track, the front wheel mudguards and the steering limits must be checked.*
Jack up the front of the tractor, turn the steering in both directions until it hits the limits to make sure that the tyres do not come into contact with tractor parts or fittings in the entire range of movement.

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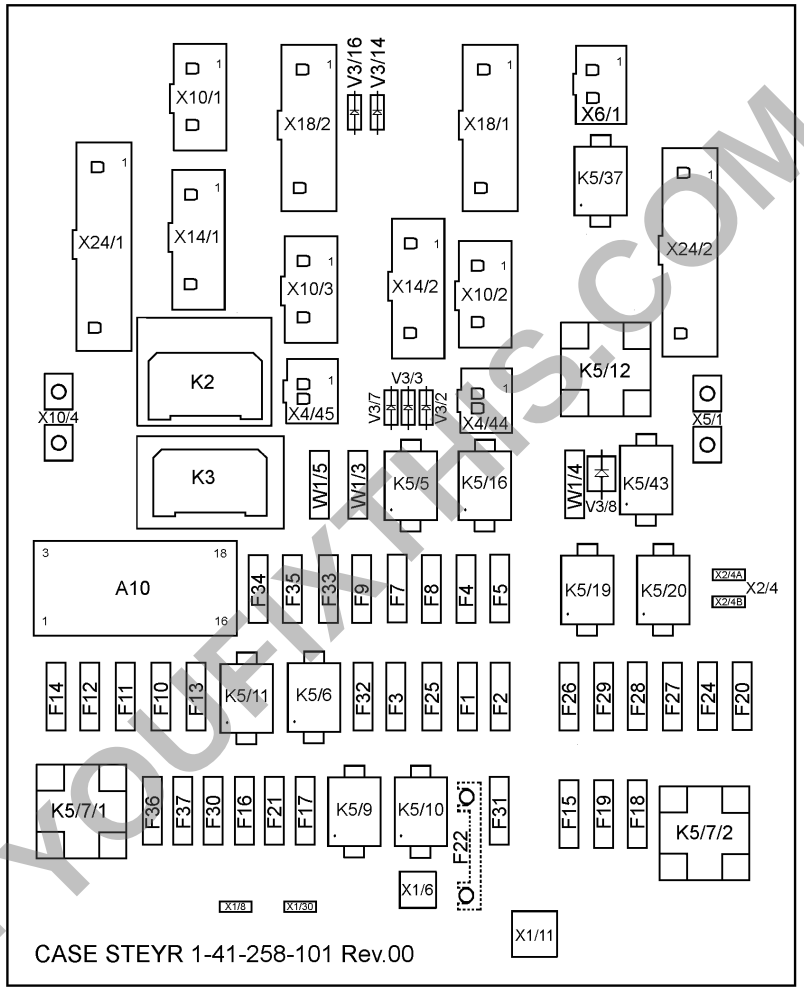
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Fuses/relays – central electrics print



SS98M055

Fuses

F1 58 L Parking lamp, left ..... 7.5 Amps
F2 58 R Parking lamp, right ..... 7.5 Amps
F3 Searchlight mudguard ..... 10 Amps
F4 Dipped beam left roof spare head lamp ..... 7.5 Amps
F5 Dipped beam right roof spare head lamp ..... 7.5 Amps
F7 Dipped beam right head lamp ..... 7.5 Amps
F8 Dipped beam left head lamp ..... 7.5 Amps
F9 Main beam ..... 15 Amps

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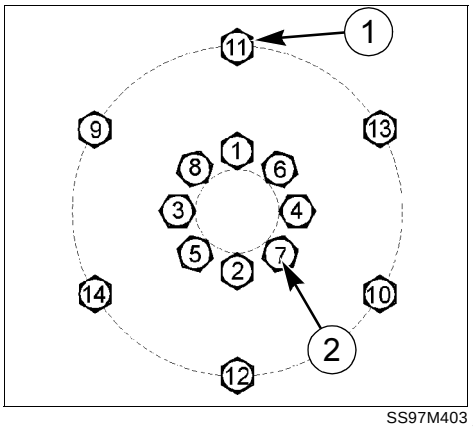
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Tightening torques for front wheel securing bolts and nuts



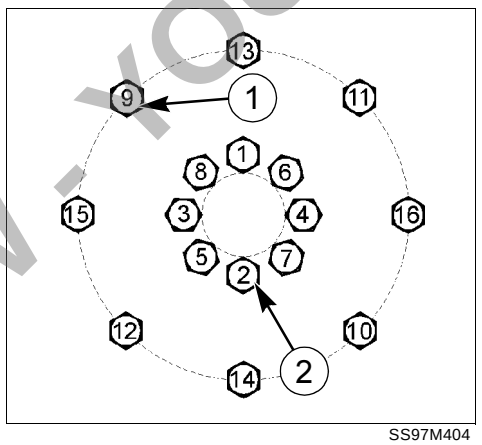
SS97M403

TIGHTENING SEQUENCE

1. Tighten the SECURING NUTS (1) for joining the WHEEL/RIM to 280 (+ or – 30) Nm in the given, numbered sequence. The wheel must lay evenly on the rim pads when assembling.

2. Tighten the SECURING NUTS (2) for joining the WHEEL/HUB to 380 Nm in the given, numbered sequence.

Tightening torques for securing bolts and nuts on the rear wheels



SS97M404

TIGHTENING SEQUENCE

1. Tighten the SECURING NUTS (1) after assembly to 280 to 310 Nm according to the above mounting sequence given for combining the WHEEL/RIM.

2. Fit the wheel to the axle and tighten the SECURING NUTS (2) for combining the WHEEL/AXLE FLANGE to 480 Nm in the sequence given above.

DO NOT OIL THE THREADS ON THE AXLE BOLTS.

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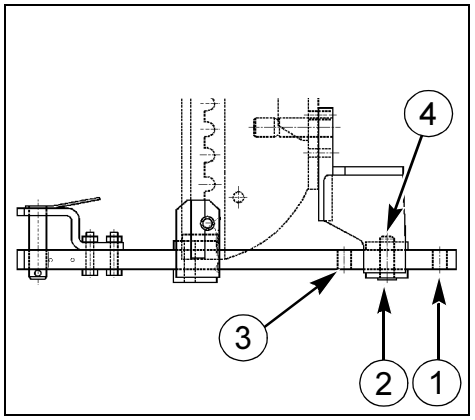
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To adjust the fore and aft position of the towbar, pull out the rear securing pin and the front towbar swivel pin.



SS97M099

Adjust the towbar to the desired position or the position stipulated by the equipment's operating manual.

Fit the adjustable towbar swivel pin (4) through the FIRST hole (1) in the towbar. By doing this you have an exact distance of **500 mm** between the end of the PTO shaft stub and the middle of the hole for the trailer towing pins in the towbar.

If the swivel pins are fitted in the SECOND hole (2) in the towbar the distance will be **400 mm** to the end of the PTO shaft stub.

If the bearing pins are fitted to the THIRD hole (3) in the towbar, the distance will be **350 mm**.

When adjusting the towbar to the correct position the swivel pin must be fitted and secured with the spring-loaded safety pin.

When using the adjustable towbar, the three point linkage must be driven to its upper limit. In this position the three point linkage cannot make contact with the towbar when it moves from side to side.

When using the lifting gear, the adjustable towbar can remain in the foremost position.

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TOWING AWAY

WARNING: *Make sure that the weight of the towed vehicle, if not equipped with its own brake system, NEVER EXCEEDS the weight of the pulling tractor or local weight restrictions. Increased speed increases the braking distance, which increases the effect of the weight of the load being pulled. This is especially true for hilly and sloping terrain.*

The tractor must be towed as follows:

STEP 1

Make sure that all control elements are in the NEUTRAL position and the parking brake is released.

STEP 2

Tow the tractor using a rigid towbar and a safety chain connected to the front towing facility.

IMPORTANT: *Because of pressure lubrication there are special rules for running or not running the engine. Depending on the case in hand, take the following action.*

A. Engine running

- Do not tow the tractor faster than 30 km/h.
- Switch OFF the 4-wheel drive system (if fitted).
- Switch the differential lock OFF.
- Shift the Field/Road range to the NEUTRAL position.
- Max. towing time 2 hours.
- Min. engine speed 1000 rpm.

B. Engine not running

- Shift the Field/Road range to the NEUTRAL position.
- Do not tow the tractor faster than 10 km/h.
- Max. towing time 1 hour.

IMPORTANT: *If the engine is not running there is no power steering available. Drive especially carefully when towing a tractor whose engine is not running.*

IMPORTANT: *To avoid damaging the tractor by towing, the above instructions must be followed precisely.*

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