Workshop Manual 01/2019 DE

AS-MOTOR Ride-On Flail Mower

AS 1040 YAK 4WD

Service Information

Adjustment, maintenance and repair instructions

Manual AS 1040 YAK 4WD

Index:

Tipp:  Über Mouse-Over-Click kann im Dokument navigiert werden - Click Seitenzahl und Click auf www.as-motor.de um ins Inhaltsverzeichnis zurück zu kommen.

Einleitung:

- Safety Instruction p. 3
- Online-Service-Portal „parts-and-more.org“ p. 4
- Maintenance work, Cleaning and Service p. 6

Technical Data:

- Technical Data p. 7
- Maintenance schedule p. 8

Generall:

- Tyre sizes p. 9
- Tightening Torque p. 11
- Faults p. 12

Engine:

- Individual components p. 13
- Adjustment, regulation p. 14

Drive line:

- Force progression p. 15
- Belt arrangement p. 16
- Belts tensioner p. 17
- Position arragement p. 18

Mower Deck:

- Belts changing p. 19
- Bearing mower deck changing p. 21
- Flail shaft remove p. 23
- Mower deck changing p. 25
- Innovations p. 28
- Flail shaft Force progression p. 39

Drive line Transmission:

- Belt Hydrostat changing p. 31

Hydrostat:

- Oil changing p. 33

Drive lever:

- Arrangement p. 35

Hydraulik:

- View from below p. 37
- Hydraulic shema p. 38
- Installation of the lines p. 39
- Axle drive p. 40

Steering:

- Position Steering p. 41
- Adjusting the differential p. 42
- Front Axle p. 43
- Adjusting the pedals p. 44

Saet:

- Adjustment screw p. 45

Belt tensioner:

- Structure p. 46

Elektric:

- Wire harness p. 47
- Electrical system p. 48
- Arrangement of the components p. 49

Personal notes p. 51

Safety instructions

Only authorised AS-MOTOR Workshops are allowed to execute the activities cited in this manual.

Comply with the following instructions and the warnings in the respective sections, otherwise accidents with severe injuries can occur and/or the device can be damaged.

Prior to starting work:

- Place the device on a level and non-slip substrate.
- Only use ramps and hoists that are suitable for the device.
- Safeguard the device against rolling off and falling over.
- Let the device cool for at least 20 minutes.
- Close the fuel tap and the tank ventilation.
- Never place the device with petrol in the tank, inside a building where petrol fumes can come into contact with open fire or sparks.
- Do not inhale fuel fumes, they are harmful.
- Use gloves, particularly for tasks on cutting tools.
- Avoid skin contact with fuel and operating fluids.
- Caution when handling batteries: Battery acid is corrosive. Protect your hands and eyes from escaping fluid.
- Disconnect the battery via the negative terminal.
- This ⚠ symbol signals a warning. Failure to comply with the warning can result in accidents, injuries and damage!

Important note:

ATTENTION ⚠ WELDING TASKS

Prior to performing welding tasks on the device unplug the plug connector from the control device (receiver). Always attach the welding device earth very close to the welding point. Otherwise there is danger of irreparably damaging the control device.

Original spare parts

Important note: ⚠

Only original AS-MOTOR spare parts ensure safety, keep the guarantee intact and protect against damage. Consequently only use original AS-MOTOR spare parts; do not use any imitation or counterfeit parts.

Installation of non-original parts invalidates the guarantee claim and the operating authorisation. Accidents with severe or fatal injuries can be the result.

All original wear parts, all original blades and many original spare parts bear the stamped AS-MOTOR logo, as well as the EXXXXX and/or G XXXXXXX part numbers.

Online service portal "parts-and-more.org" (PAM)

For all tasks shown in the Workshop Manual the online service portal "parts-and-more.org" is your most important companion. It offers you the following functions for every single AS-MOTOR device:

- Exploded drawings of each assembly
- Spare parts lists for each assembly
- Modification information for parts
- Current availability (online stock) of spare parts
- Spare part ordering function
- Management of current shopping carts and older orders
- FAQ and general technical information
- Guarantee claims

Access to the online portal "parts-and-more.org":

Every official AS-Motor dealer has access to the online service portal via his customer number.

Login access to the system occurs via the website:

www.parts-and-more.org

Access data is issued within one to two days after "Dealer first login" using the AS-Motor customer number.

After receipt of the access data (parts ID and password) you can log in via "Immediate login" and use all functions immediately.

For questions concerning "parts-and-more.org" please contact:

- info@as-motor.de or
- service@parts-and-more.info
- AS-Motor Germany +49 7973 9123-0

Introduction

Online service portal "parts-and-more.org" (PAM)

Parts search

Language selection

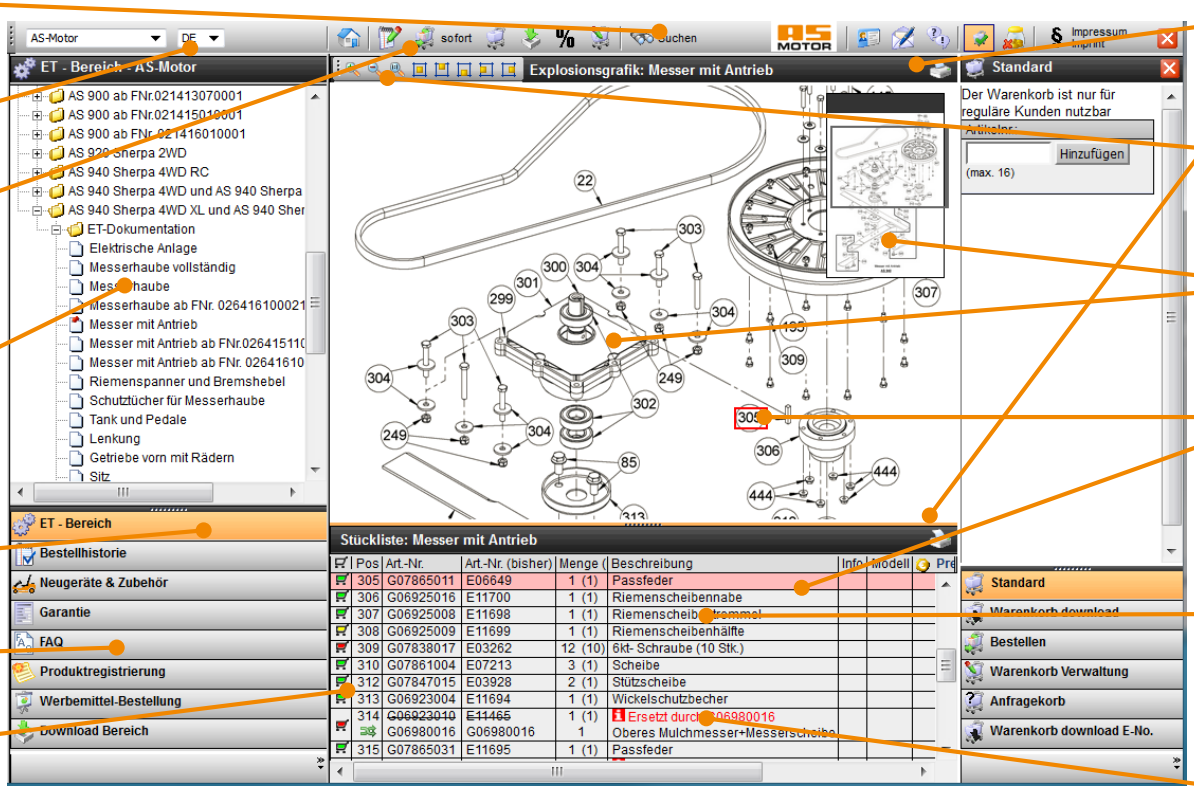
Shopping cart

Device and assembly selection

Spare part function

Information – FAQ

Availability



Print function

Magnifying glass function

Complete overview

Parts – direct selection highlighted red

Spare parts list

Parts information Change notifications

Maintenance and cleaning (general information)

To ensure the full functionality, the safety and a long service life of the machine, regular maintenance and cleaning of the machine are essential.

All necessary activities and their intervals are listed on the following pages.

Prior to maintenance

Danger! ⚠ Danger of injury if maintenance and cleaning tasks are performed when the engine is running. Only execute maintenance tasks when the engine is running if this is explicitly required.

Prior to all maintenance and cleaning tasks when the engine is at a standstill:

- Let the device cool for at least 20 minutes.
- Close the fuel tap and the tank ventilation.
- Disconnect the negative terminal of the battery.

Warning! ⚠ The device can tip or fall over and cause severe injuries.

The device can be lifted or tilted to execute maintenance, repair or cleaning tasks on the underside of the device.

- Only lift the device on a level substrate.
- Only use hoists and ramps that are suitable.
- Only attach hoists on the main frame, only the main frame can bear the weight.
- Safeguard the device against tipping over or falling.
- Stay out of the tipping area.

Clean the device:

- Thoroughly clean the device after each use. Particularly the underside and the blade enclosure.
- Clean the air grille, engine cooling unit and engine.
- Clean the transmission housing and transmission fan.
- Danger of fire! ⚠ Particularly ensure clean parts on the exhaust system.
- For cleaning use brooms, brushes, damp cloths and wood or plastic spatulas.
- Do not clean with a high-pressure cleaner!
- Do not use any aggressive cleaning agents.

Thorough visual inspection:

Check the following for safe operation of the machine:

- Nuts, bolts, screws, fuel lines, air filter for firm seat
- Ignition cable and ignition connector for damage
- Covers, protective cloths, muffler
- Tank, fuel tap, carburettor, engine, transmission, battery, hydraulic system for leaks

Technical data and maintenance schedule

Technical data

Technische Daten AS1040 YAK 4WD	
Einsatzbereich/ Application	0-30°C / 32-86°F
Motor/Engine	
Bauart/Design	2 Zylinder-4 Takt Motor
Hersteller/Manufactorer	Briggs&Stratton
Typ/Type	Vanguard, V-Twin; code: 386447 0414-G1
Hubraum/Displacement	627 cm³/627ccm
Leistung/ Power	15,5 kW /21,1 hp
max Drehzahl/max rpm	3000 /1min
Startvorrichtung /Starter	Elektr.
Batterie/Battery	12V 30Ah
Sicherungen/Fuses	Haupt/Main 25 A
Sicherungen/Fuses	rest 25A
Fahrantrieb/Driveline	Permanenter Allrad ,permanent FWD
Hinten/rear	Hinterachse m. Differentialsperre/ Rear Axle w diff loc.
Vorne/front	Pendelnd gelagerte Portalachse, 2 Hydromotoren und Königswelle/Pendulum-mounted gantry axis, 2 hydraulic motors and vertical shaft
Geschwindigkeit vorwärts/Speed foreward	0-6,8km/h / 0-4,22mph
Geschwindigkeit Rückwärts/Speed reverse	0-6,3km/h /0-3,91mph
Wendekreis/ Turning Circle	1,4m 55 inch
Schneidwerk/Cutting	Schlegel-Mähwerk ,56 Y-Schlegel/Flail mower w 56 Y-Flails
Schnittbreite/Cutting wide	100 cm /39,37 inch
Schnitthöhe/Cutting height	30-110 mm /1,18-4,33 inch
Transportstellung/Transport	120 mm 4,72 inch
Maße und Gewichte / Dimensions	
L/B/H	205/130/123 cm 80,71/51,18/48,43 inch
Gewicht/weight	337kg / 742,96 lb
Füllmengen/Capacities	
Kraftstofftank, Fuel	16 l /4,22 US Gal.
Motoröl/ Engine Oil	1,7l / 0,45 US Gal. 5W50 Öl/oil
Getriebeöl /Transmission	6,8 l / 1,8 US Gal. 5W50 Öl/oil
Geräuschpegel DIN EN 12733/ Noise level	
gemessener Schallleistungspegel /measured sound power level L/wa	102,6 dB
Schalldruck am Bedienplatz/Sound pressure at the operator station L/pa	92,7 dB
Vibrations -Emissionswert/Vibration emission value	
Hand-Arm Schwingungen/Hand-arm vibrations ah,w	1,1m/s² gemäß DIN EN 12733
Messunsicherheit/measurement uncertainty U	0,15 m/s²
Reifen	
Vorne/front	15x5.00-6 (inclued/enthält 0,5L Reifenpannenschutz/tyreprotect
Hinten/rear	18x9.50-8 (inclued/enthält 1,0l Reifenpannenschutz/Tyreprotect

Maintenance schedule

Maintenance schedule

Hydrostatic oil change, same maintenance interval as AS 940 Sherpa.

The implementation can be found on page 33.

Group	Action	Service A	Service B
Machine	Check for safe working condition (basic view)	▬	▲
	Cleaning	▬	
	Service		▲
Mower	Clean. See chapter Cleaning mower	▭	
Fuel Tank, Fuel pipe	Check fuel level	▬	
	Is the fuel cap closed	▬	
Fuel	Check leaks and good condition		
Grill	Cleaning	▬	▲
Cooling	Cleaning	▬	▲
Ignition	check/Replace		▲
air filter	Service	▬	▬ ▲
Blade	Check for wear and damage. See chapter Checking the knife and flute shaft	▬	▲
	change		▲
	Screw-on point Clean knife blade	▬	
Blade brake	The brake works safely and the knife stops in 7 seconds	▭	▲
Drive Lever	If the device is stationary when the lever is in neutral position when the footbrake is applied	▭	▲
	Devices with foot brake: Does the lever go to zero when the foot brake is applied?	▬	▲
Belt	Are the belts properly tensioned, with no cracks and in good condition?		▲
Cabels	Check function and ease of operation	▬	▲
accelerator	check function	▭	▲
Chassis und protection	Check for rust and cracks and check the welds	▬	▲
	Are all guards and covers in place, properly attached and functional	▬	▲
Decals	Decals readable	▬	▲
Engine	Binding information See operating instructions for engine manufacturers	▬	▲
	Check oil level (see operating instructions engine manufacturer)	▬	▲
	Oil Change		▲
	Oil filter change		▲
Parking brake	check/Adjusting/change	▬	▲
Brake	function of the brake	▬	▲
Flammable material	Material remove	▬	▲
Steering	check clearance	▬	▲
Tyre	check Tyre and Tyre pressure	▬	▲
Safty switch	seat, cutting height adjustment and travel drive		
Ignition lock	ceck function	▭	▲
Hydrostat Transmissi	Check oil level	▬	▲
	eliminate oil leaks		▲
	Oil change after 50h afterwards all 200h		▲
Battery	Check charge status		▲
A	Before and after each use		
B	Annually or every 50 h		
▬	By the end user with the engine stopped		
▭	By the end user while the engine is running		
▲	authorized workshop		

General information

Tyre sizes, wheel dimensions, tyre pressures 1/2

Tyre pressures

A uniform and correct tyre pressure is essential for the following characteristics:

- Traction uphill
- Braking force downhill
- Suspension comfort
- Safety ⚠ : The tyre does not come off of the rim!
- Uniform mowing pattern

Rules: ⚠

- Check the air pressure on a regular basis.
- Examine tyres and tyre flanks regularly for damage.
- Replace damaged tyres.
- Only use original AS-MOTOR tyres.
- Do not change tyre diameters or tyre sizes. This can damage the 4WD.

Tips / notes: 👍

- Inflate the tyres with our recommended tyre pressures. In our opinion, these pressures offer an optimum of suspension comfort and traction.
- High tyre pressures have a negative influence on suspension comfort and traction.
- Do not underrange the recommended tyre pressures. Tyres can come off of the rims. ⚠
- Do not exceed the maximum tyre pressures.
- AS-Motor mowers come from the factory with a tyre pressure that is higher than the recommended pressure.
- Tyre sealant can prevent flat tyres. Particularly in tubeless tyres.
- Anti-puncture insert strips can prevent flat tyres.
- Pay attention to the running direction of the tyres, left / right for optimal traction.
- Slow pressure loss of a tyre indicates that there is a thorn in the tyre.
- Tubed tyres cannot be easily used without a tube.
- Next page: Overview TABLE "Wheels"

General information

Tyre sizes, wheel dimensions, tyre pressures 2/2

Model:	Front wheel (FW) / rear wheel (RW):	Tyre size:	Recommended air pressure:	Maximum air pressure:	Tread:	Tubed Tyres (TT) / Tubeless (TL):	Standard equipment / optional:
AS 1040 4WD	FW: RW:	15x5.00-6 18x9.50-8	**17 psi / 1.20 bar** **15 psi / 1.00 bar**	18 psi / 1.24 bar 24 psi / 1.65 bar	AS AS	TL TL	Series Series

Tightening torque for wheel bolts / wheel screws:

- Rear wheels: M12 100 Nm (73.75 lb-ft)
- Front wheels: M8 40 Nm (29.50 lb-ft)

Tightening torques

Correct tightening torques are important to ensure a solid connection of components and to avoid damage

Correct tightening torques are safety-relevant on rotating parts, in particular, like flails, belt pulleys and wheels.

The following tightening torques always apply for hexagon bolts, socket head screws with hexagon socket and standard thread in 8.8 quality:

		Bolts with standard thread DIN quality 8.8	**Bolts or nuts with under-head serrations**
Thread:	Width across flats:	Torque in Nm: (lb-ft)	Torque in Nm: (lb-ft)
M5	8	6 Nm (4.5)	8 Nm (5.9)
M6	10	12 Nm (8.6)	15 Nm (11.1)
M8	13	25 Nm (18.5)	35 Nm (25.9)
M10	17	55 Nm (40.6)	70 Nm (51.7)
M12	19	90 Nm (66.4)	120 Nm (88.6)

Special tightening torques

In the tables on the following pages the individual torques are presented for essential, special and safety-relevant parts.

Tip / note:

You will find the listed bolts / threaded fittings based on the position number (#XXX) in the exploded drawings of the respective assembly at parts-and-more.org (PAM). The position numbers are the numbers in circles on each part in the exploded drawing. In the parts list below the drawing the position number (Pos.) is also shown and cited by name.

Fault	Possible fault	Remedy
	Poor engine performance	Air filter, clean or replace petrol filter
	Poor drive performance	V-belts of the angular gear unit is loose (attention there are 2 different ones)

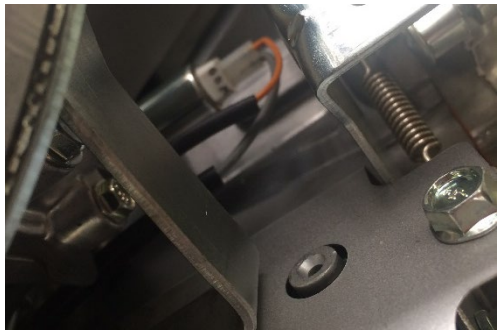
Engine

Individual components

Oil drain plug

Oil filter

Engine earth



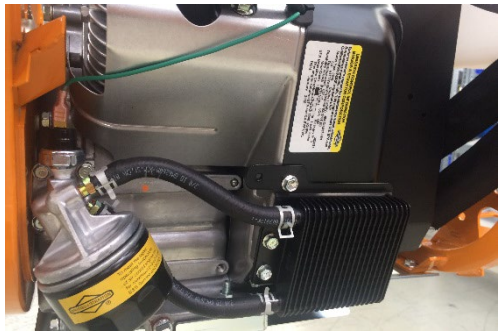
Shut-off valve – carburettor

rpm adjustment – accelerator cable

From above

Fuel pump

Oil filler neck

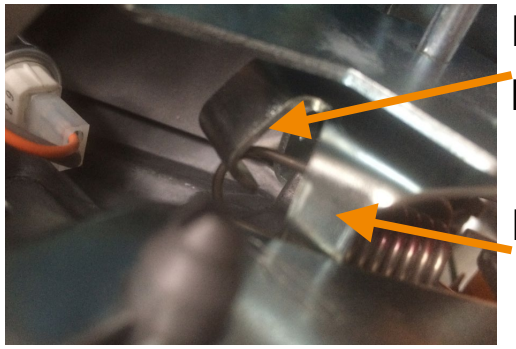


Oil cooler

Oil pressure switch (green cable)

Engine

Adjustment, regulation

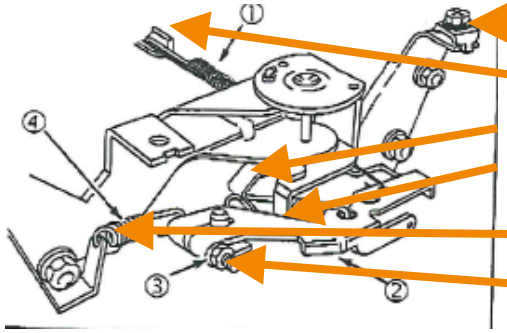


Final rpm adjustment
by bending the lug

Idle by bending the stop

Final rpm 3600 rpm

Idle rpm
1600 +/- 100 rpm

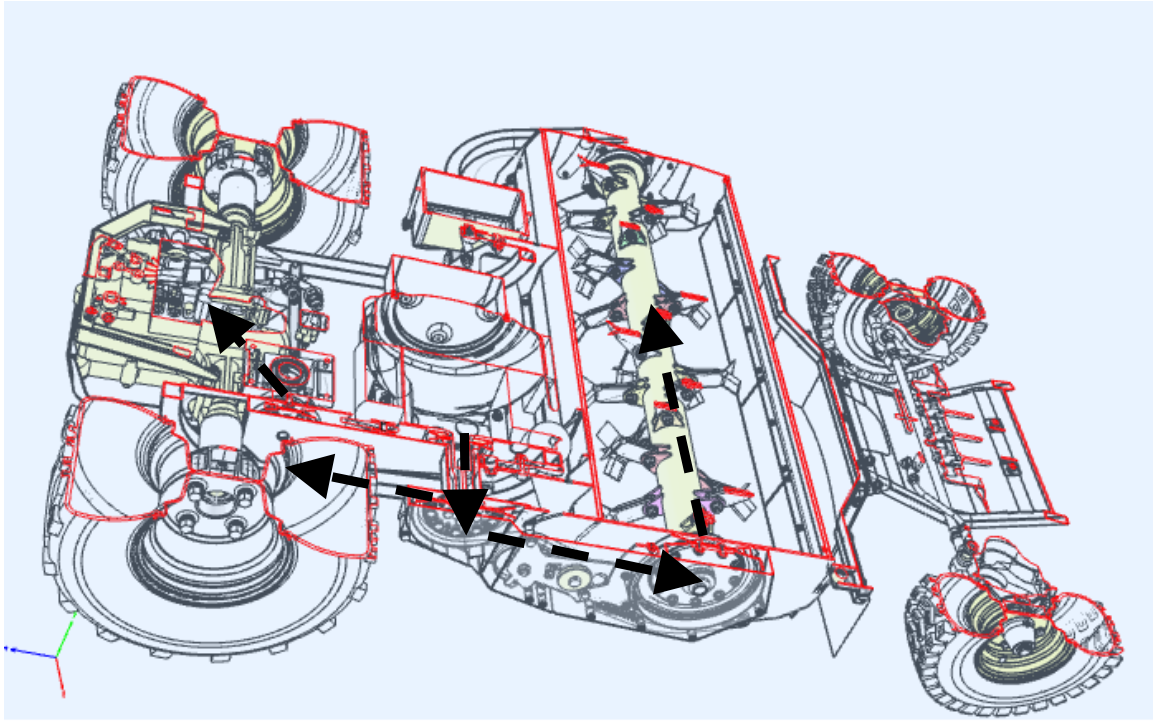


Cable holder
Idle screw
Full-load adjustment
Idle stop
Regulator spring
Centrifugal force regulator (always regulates in the off direction)

Engine code

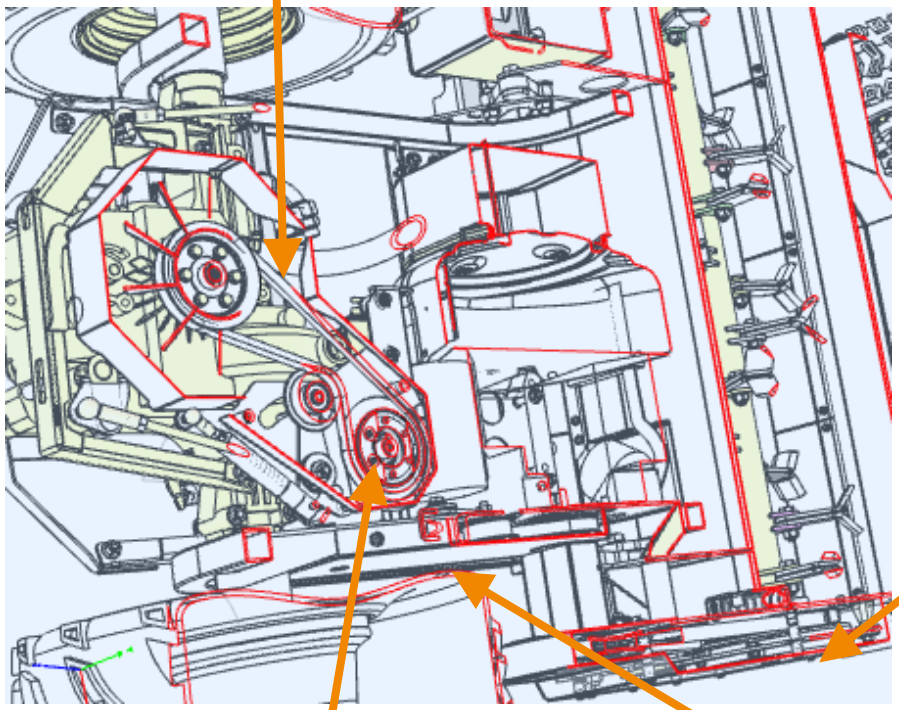
Drive

Force progression



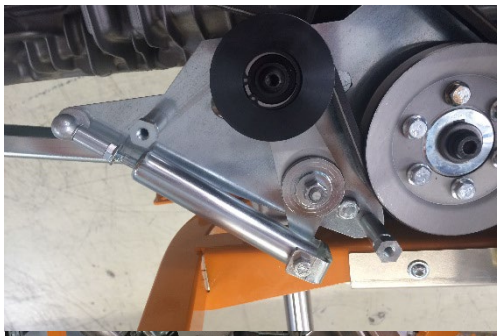
Force progression

Belt arrangement



Force progression

Belt tensioner

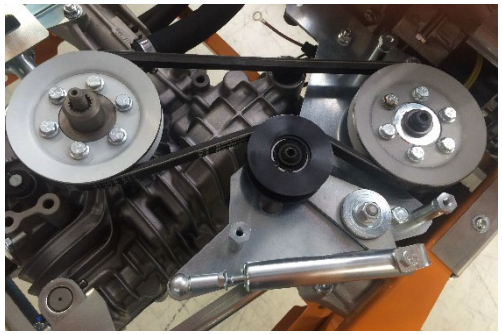


Belt tensioner for transmission

Belt tensioner for reduction gearing

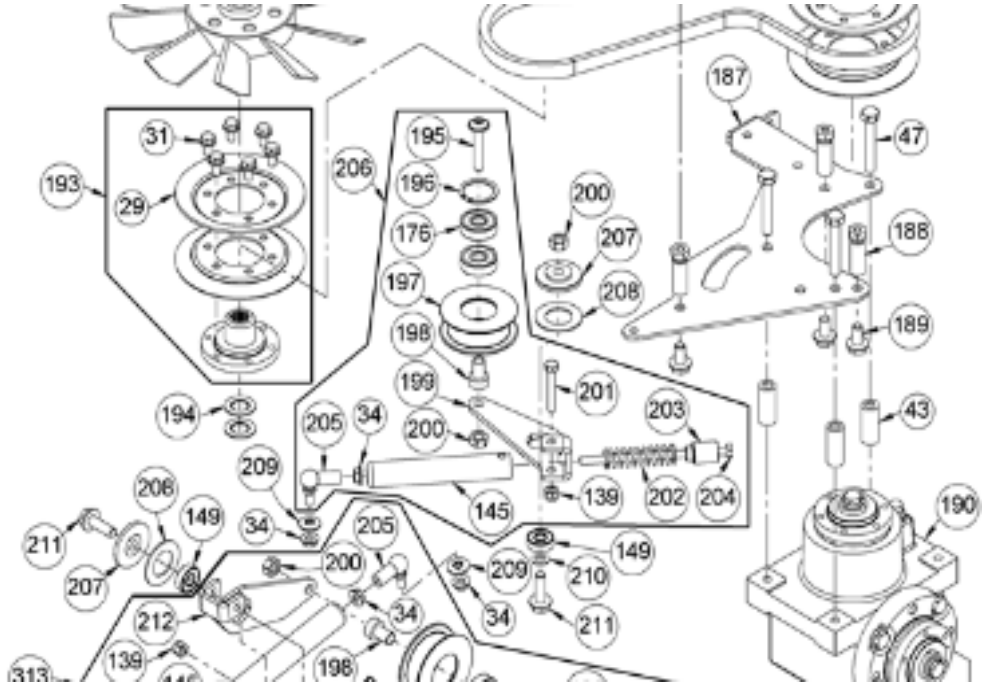
View from the outside

Belt tensioner for reduction gearing – view into the frame



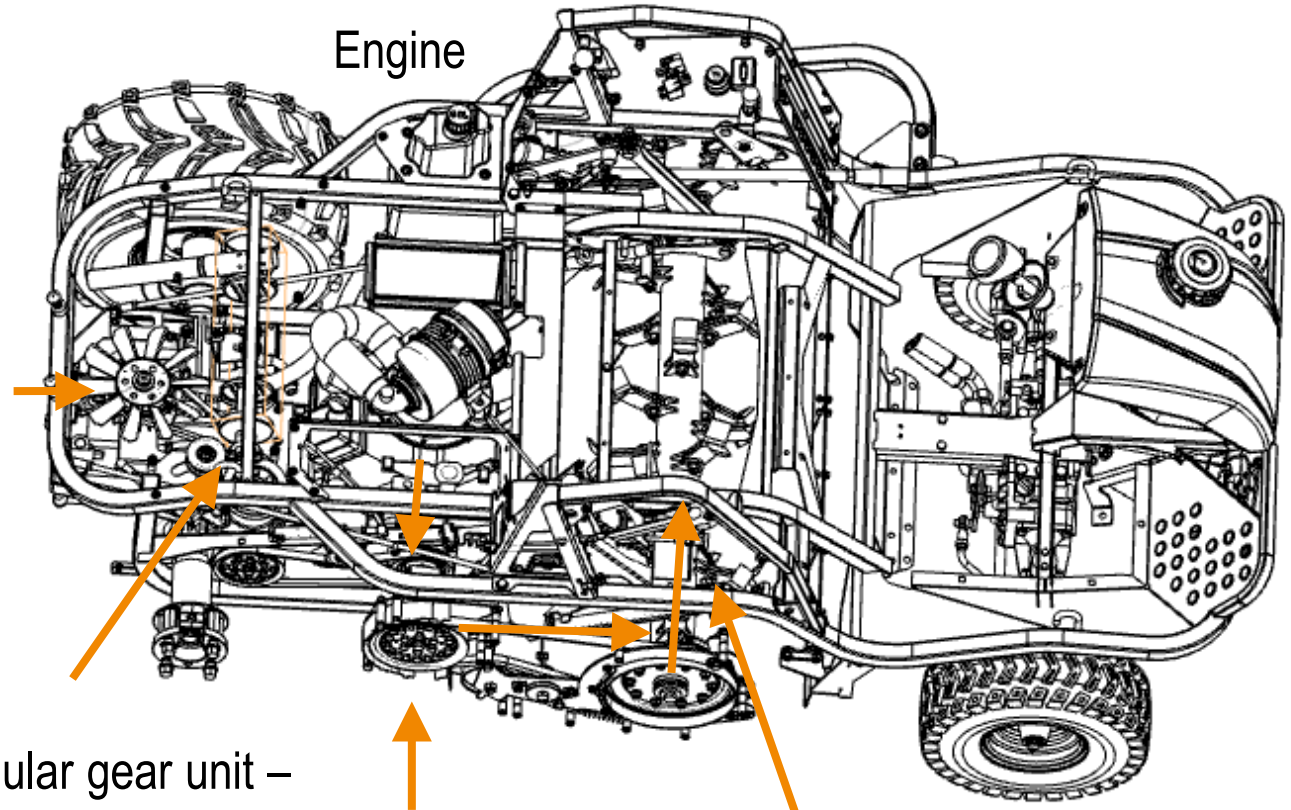
Belt for the transmission

From above



Force progression

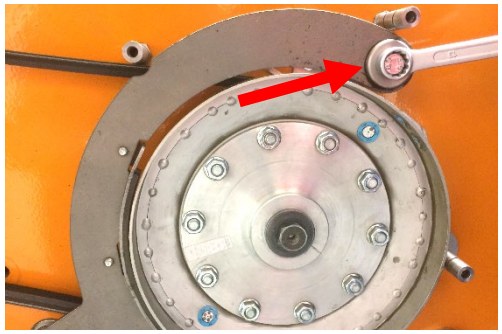
Position arrangement



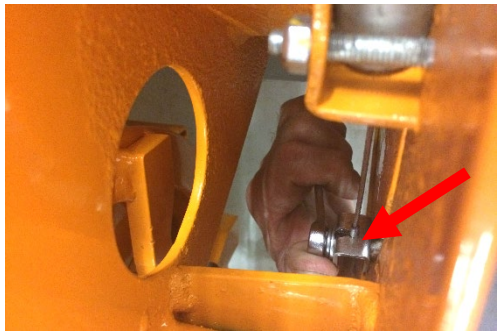
Belt drive

Replacing the mower unit V-belts (1/2)

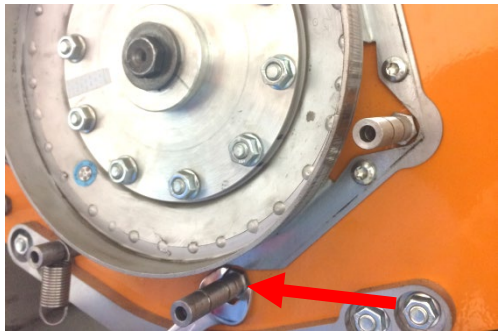
Take off the cover to the right in the direction of travel → pay attention to the spacer sleeves



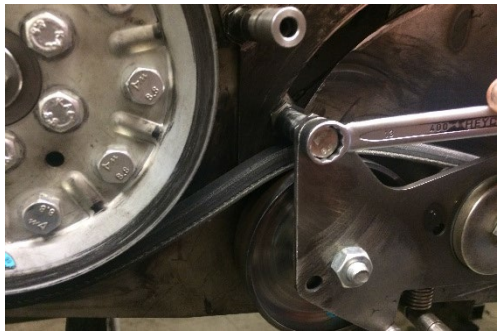
Remove the lever of the blade brake → unhook spring



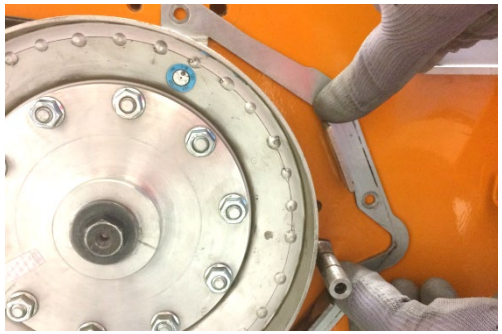
Unhook Bowden cable of the mower unit coupling



Unscrew bolt and detach belt guide



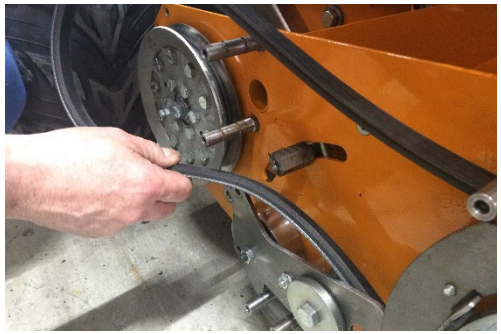
Unscrew screw→ slide bolt upward



Remove belt guide from the front

Flail mower unit

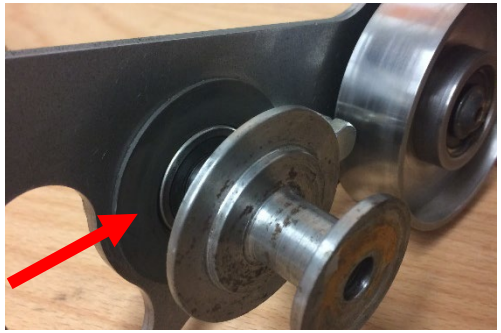
Replacing the mower unit V-belts (2/2)



Take off belt

Z ➡ A

Installation in the reverse sequence

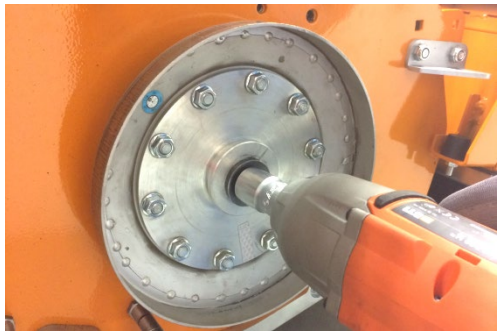


When installing the (if required) belt tension lever, ensure that the sliding discs are correctly seated → sliding disc must rest on the bearing

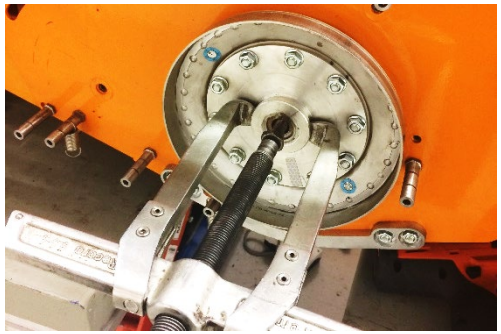
Flail mower unit

Replacing the bearing of the flail shaft (1/2)

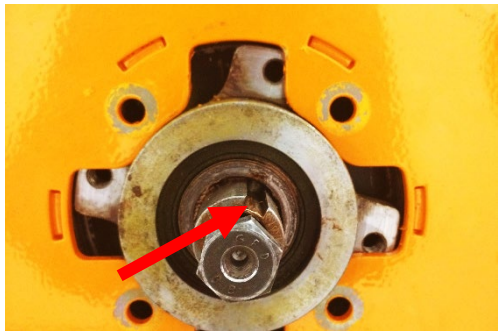
Preliminary tasks, see "Replacing the mower unit V-belts"



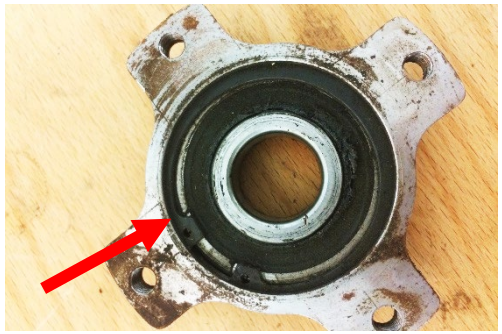
Detach belt pulley



Detach belt pulley from the shaft with a puller → pay attention to the feather key



Loosen the bearing block, twist and remove with a puller



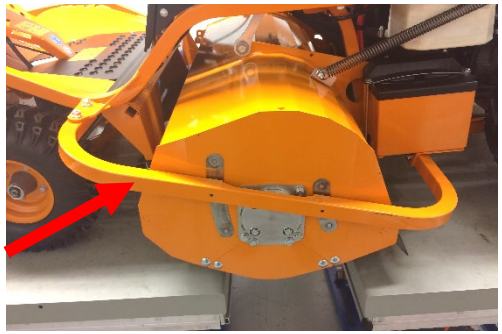
Remove circlip and knock out the bearing

Z ➡ A

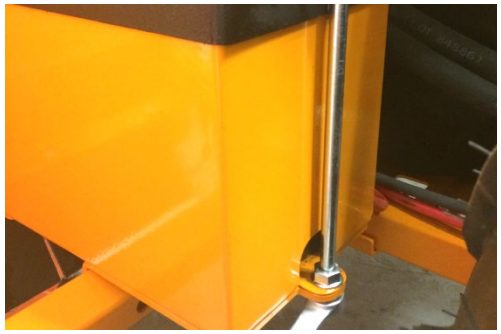
Installation in the reverse sequence

Flail mower unit

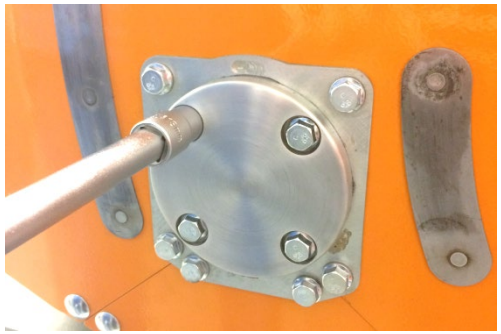
Replacing the bearing of the flail shaft (2/2)



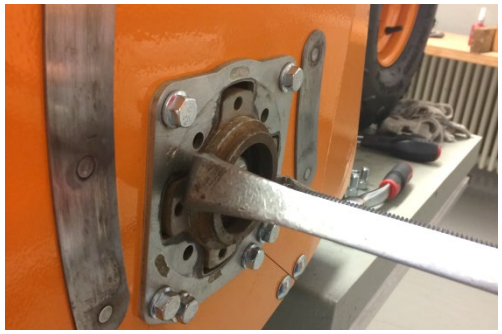
Detach safety bracket



Remove battery → first disconnect the negative terminal



Detach cover



Twist and pull off bearing block → knock-out bearing

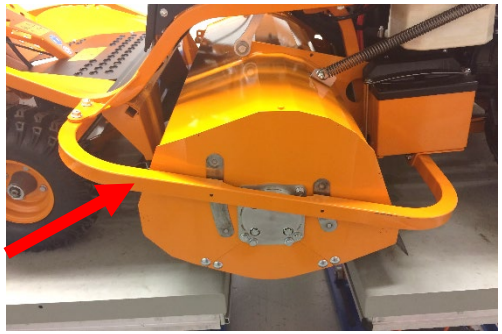
Installation in the reverse sequence

Z ➡ A

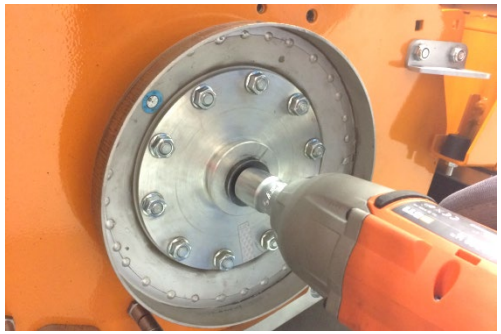
Flail mower unit

Remove flail shaft (1/2)

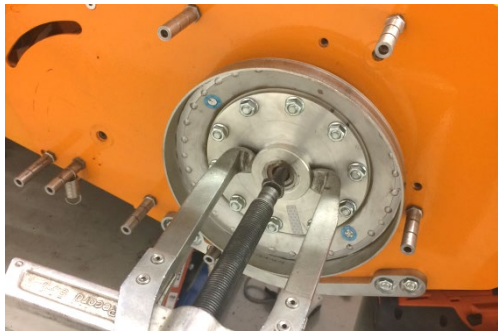
Preliminary tasks, see "Replacing the flail mower unit V-belts"



Remove safety bracket and battery

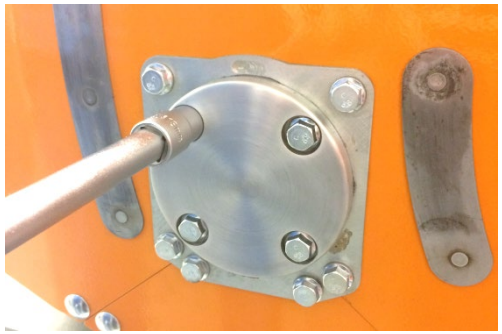


Detach belt pulley



Pull off the belt pulley

Detach bearing block

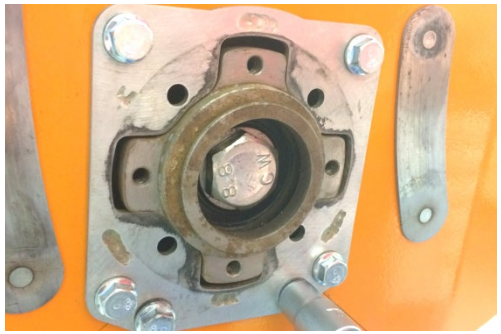


Detach cover on the left side

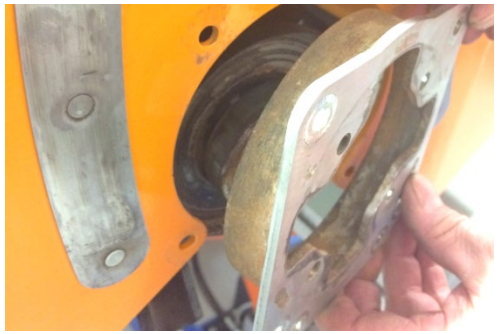
Flail mower unit

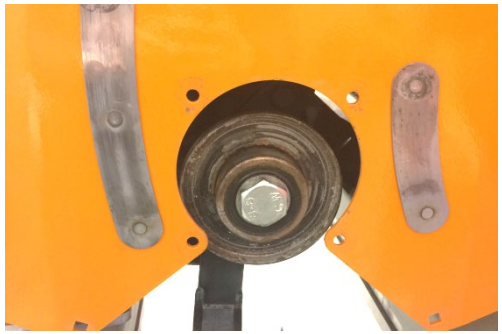
Removing the flail shaft (2/2)

Twist bearing block and pull it off



Detach bearing guide and skid





Remove flail shaft by moving it downward and to the left

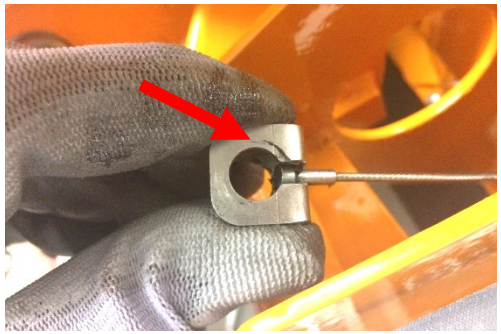
Z ➡ A

Installation in the reverse sequence → pay attention to the install position of the bearing guide

Flail mower unit

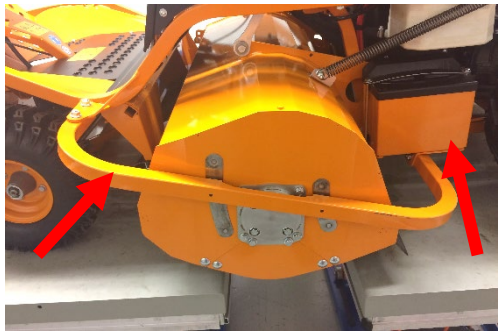
Removing the flail mower unit (1/3)

Detach belt cover → pay attention to the spacer sleeves

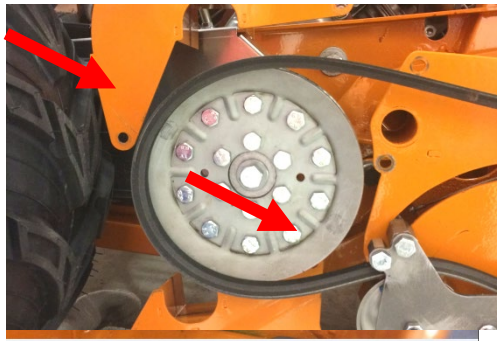


Detach Bowden cable and remove eye

Pull Bowden cable through the spring package



Remove safety bracket and battery → first disconnect the negative terminal



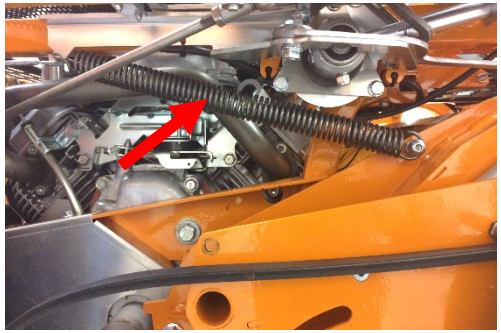
Unscrew bolts and remove the cover of the drive shaft

Take-off V-belts

Flail mower unit

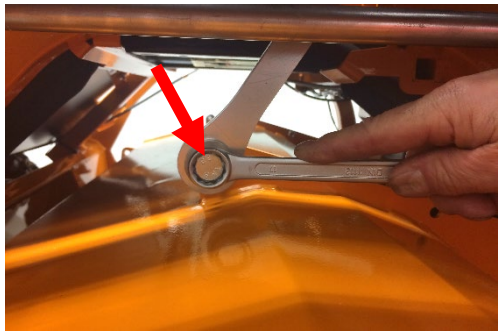
Removing the flail mower unit (2/3)

Detach belt pulley → inner screws



Bring the flail mower unit into transport position and unhook the springs on both sides

Offload flail mower unit → prop it up



Unscrew the screw of the height adjustment element

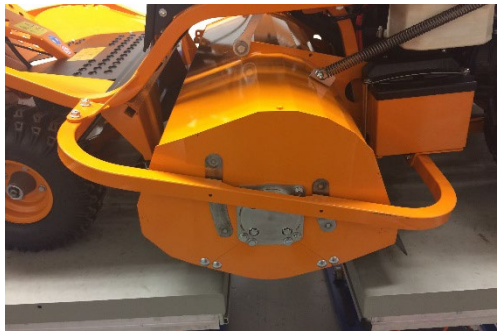
Unscrew the screw of the mower unit holder → counter with AF 27

Unscrew the screw of the mower unit holder → counter with AF 27

Flail mower unit

Removing the flail mower unit (3/3)

Lift the machine with a crane



Pull the flail mower unit to the side

Installation in the reverse sequence

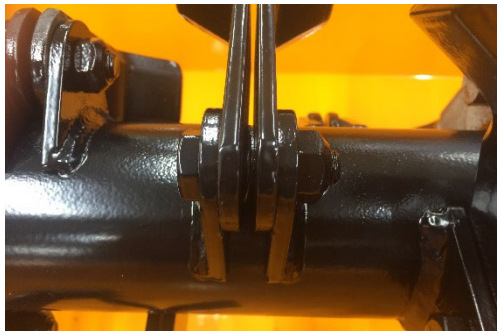
Z ➡ A

Flail mower unit

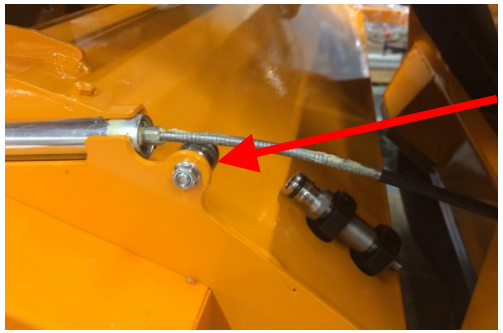
Innovations

Cleaning nozzle connection

Flail shaft installed



Screw must completely fill out the nut

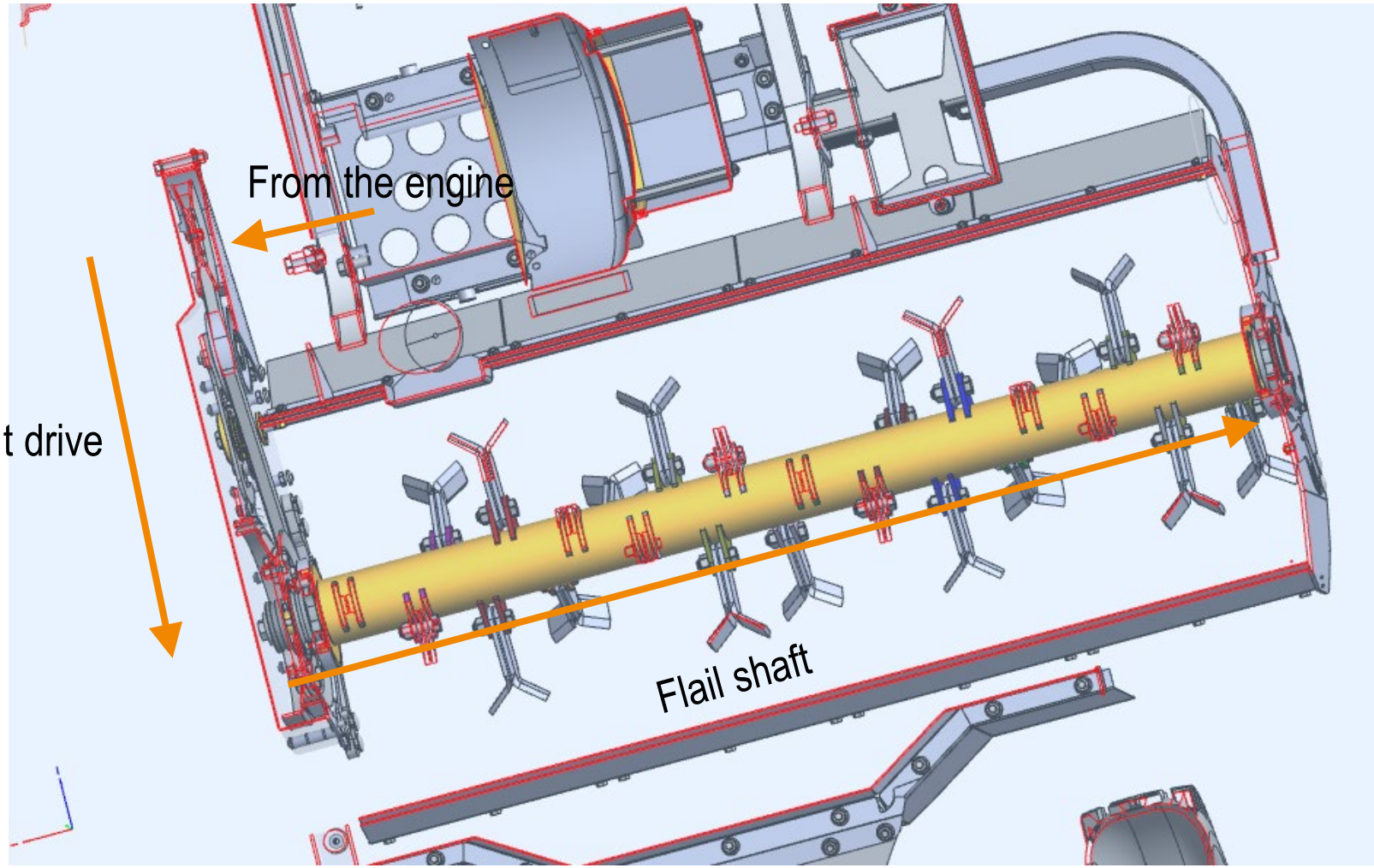


From S/N 033118060032

New bearing installed

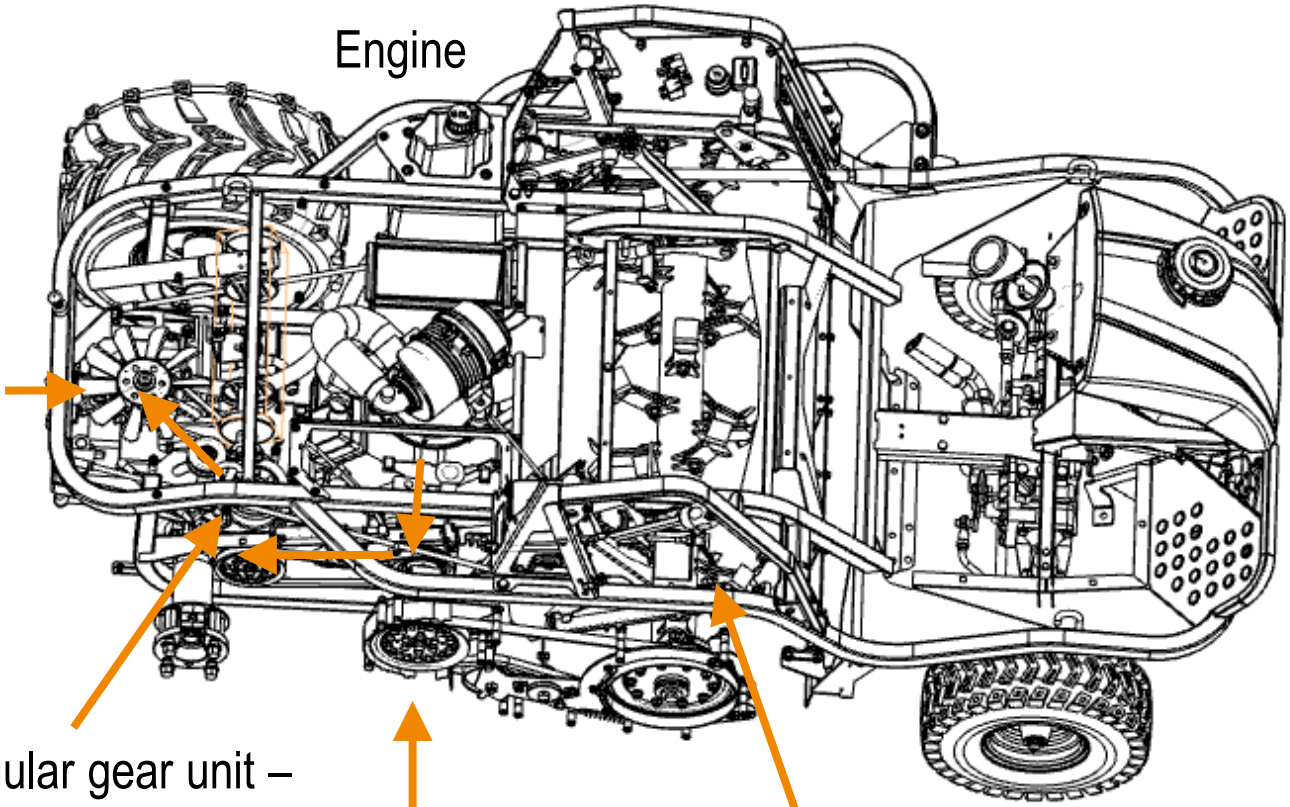
Flail mower unit

Force progression



Force progression

Position arrangement

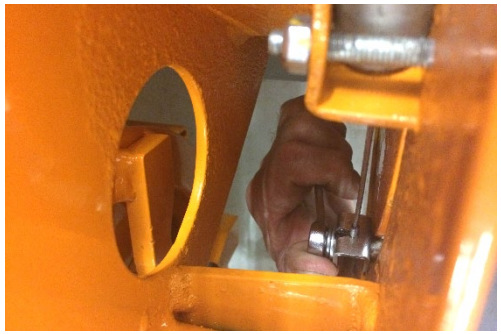


Belt drive hydrostatic transmission

Replacing the belt drive of the reduction gearing and hydrostatic transmission (1/2)

Detach cover → pay attention to the spacer sleeves

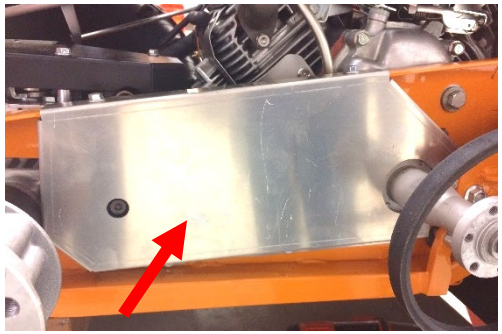
Detach belt pulley → inner screws



Detach the blade clutch cable

Prop up vehicle right rear and take off rear wheel

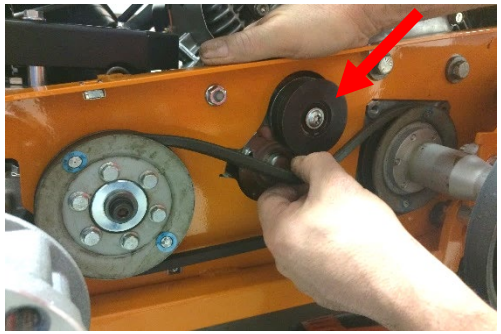
Take off V-belt of the mower unit drive



Detach belt cover

Belt drive hydrostatic transmission

Replacing the V-belt of the reduction gearing (2/2)

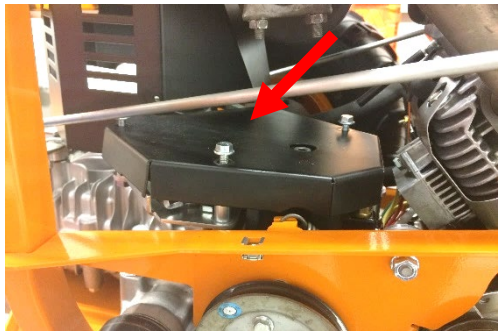


De-tension the belt tensioner by hand and take off the belt

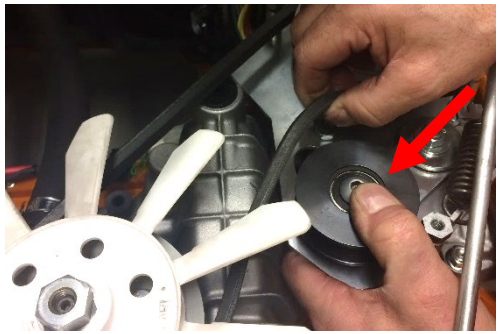
Z ➡ A

Installation in the reverse sequence

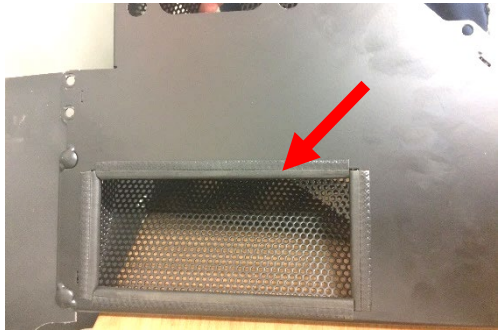
Take off the fan grille



Detach belt cover



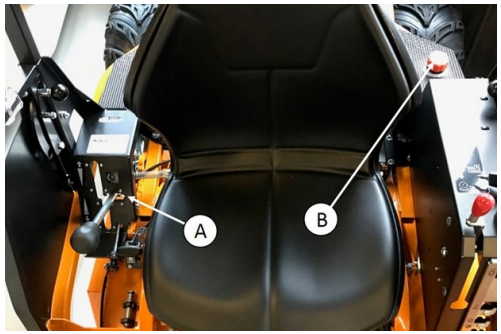
De-tension the belt tensioner by hand and take off the belt



Installation in the reverse sequence → when installing the fan grille pay attention to the sealing lip on the air duct

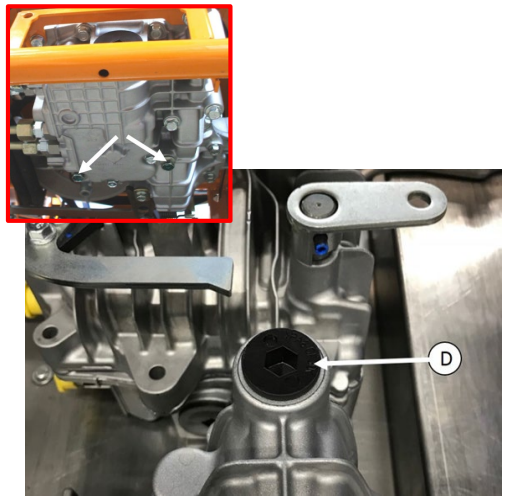
Hydrostatic oil change

AS 1040 YAK 4WD



•Drive lever in Neutral Position stellen (A).

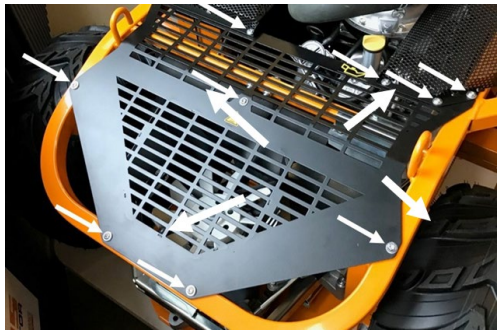
• remove cap oil expansion tank (B).



-Release oil vent screw (D)

-Unscrew both oil drain plugs (SW 14)

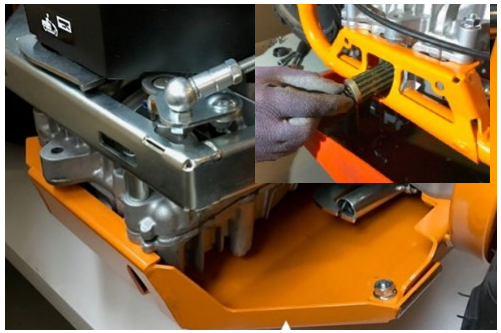
and oil into the Run catch basin. (about 4.5 liters)



Remove cooling protektion and the belt cover

When venting the front axle, the rear of the machine must be increased by 450 mm

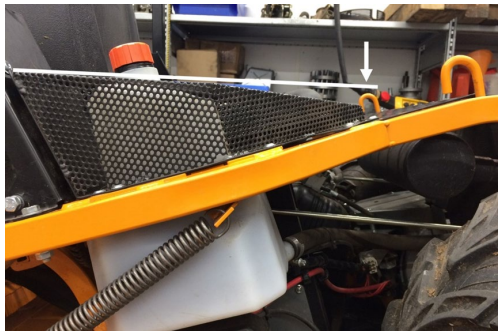
(17,717 inch)



-Put the oil pan under the rear axle (about 4.5 liters)

-Remove underrun protection

-Unscrew cover (3/8 inch) Remove oil filter



Necessary filling edge on the container only when filling and bleeding the front axle.

Hydrostatic oil change

AS 1040 YAK 4WD

Remove dirt on the plug of the front axle Unscrew the sealing plug of the front axle

The following work must be performed on the right and left stub axles:

Place oil drain pan under the steering knuckle.

Remove dirt on the bleeding screw (") SW 10 and unscrew it.

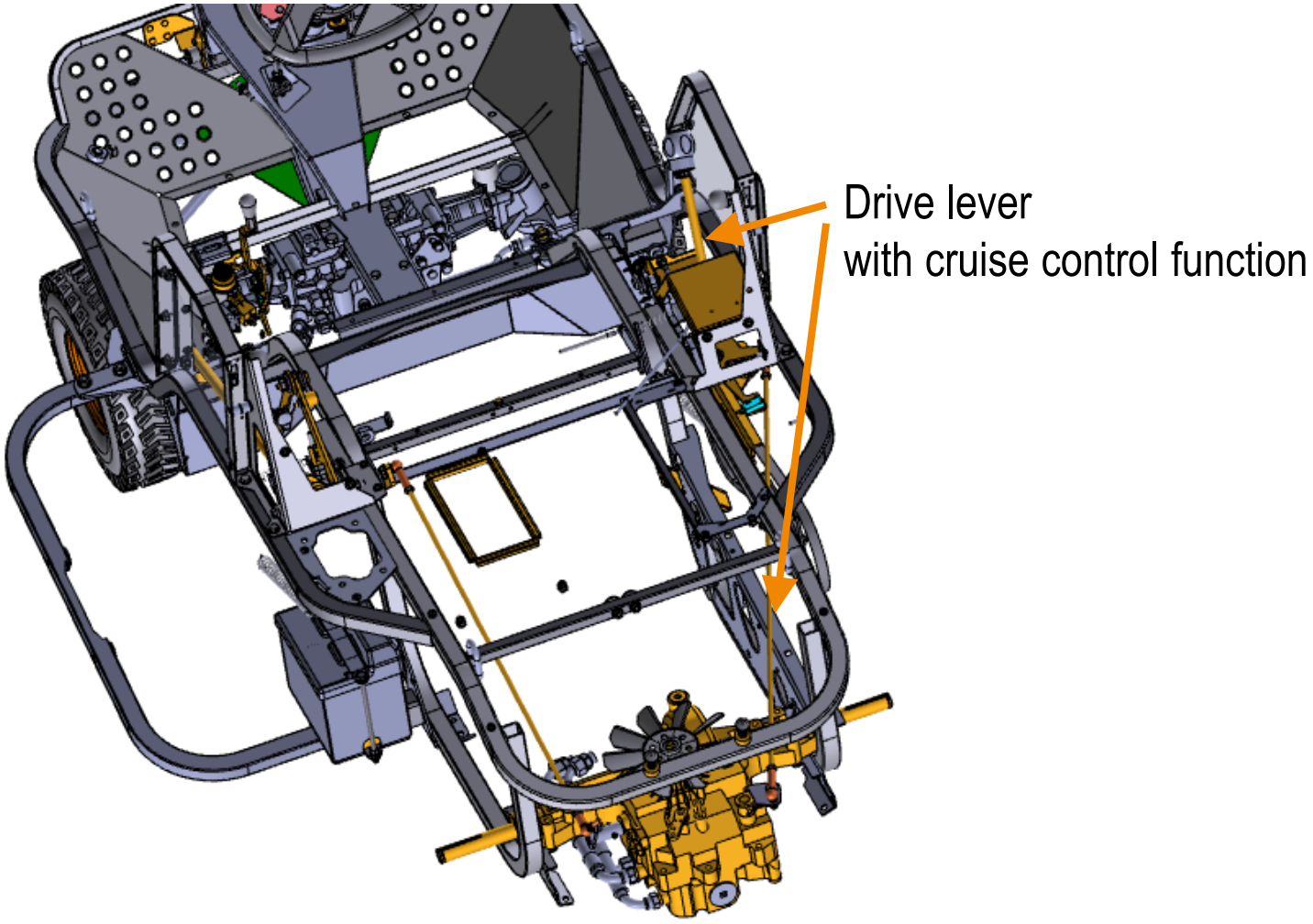
Unscrew oil drain plug (1) SW 12 (approx. 1.2 liters per side)

Important NOTE:

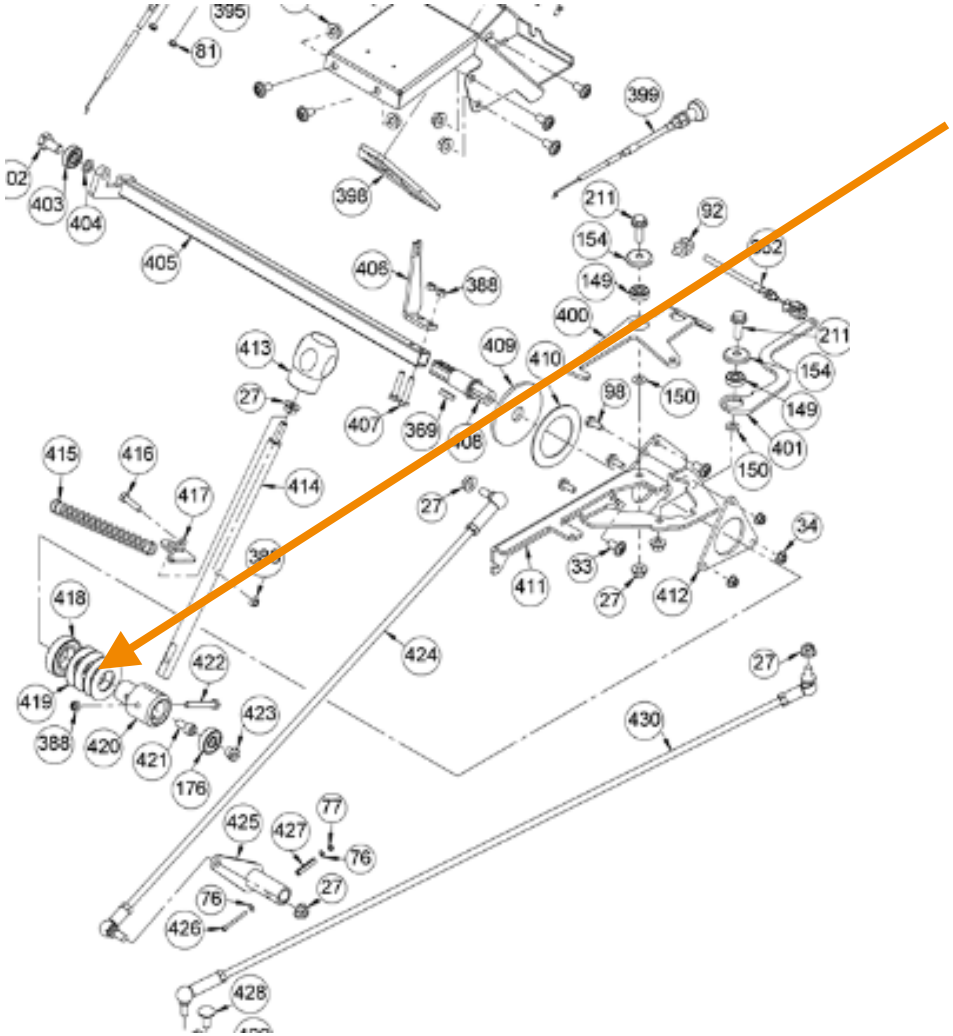
Heat the fresh fully synthetic oil 5W 50 to 25 ° C. This significantly reduces the filling and venting time and reduces the risk of air in the hydrostatic drive. The device may only be started with a fully vented hydrostatic drive. If the hydrostatic drive is not fully vented, it will be damaged.

Drive lever

Arrangement



Drive lever

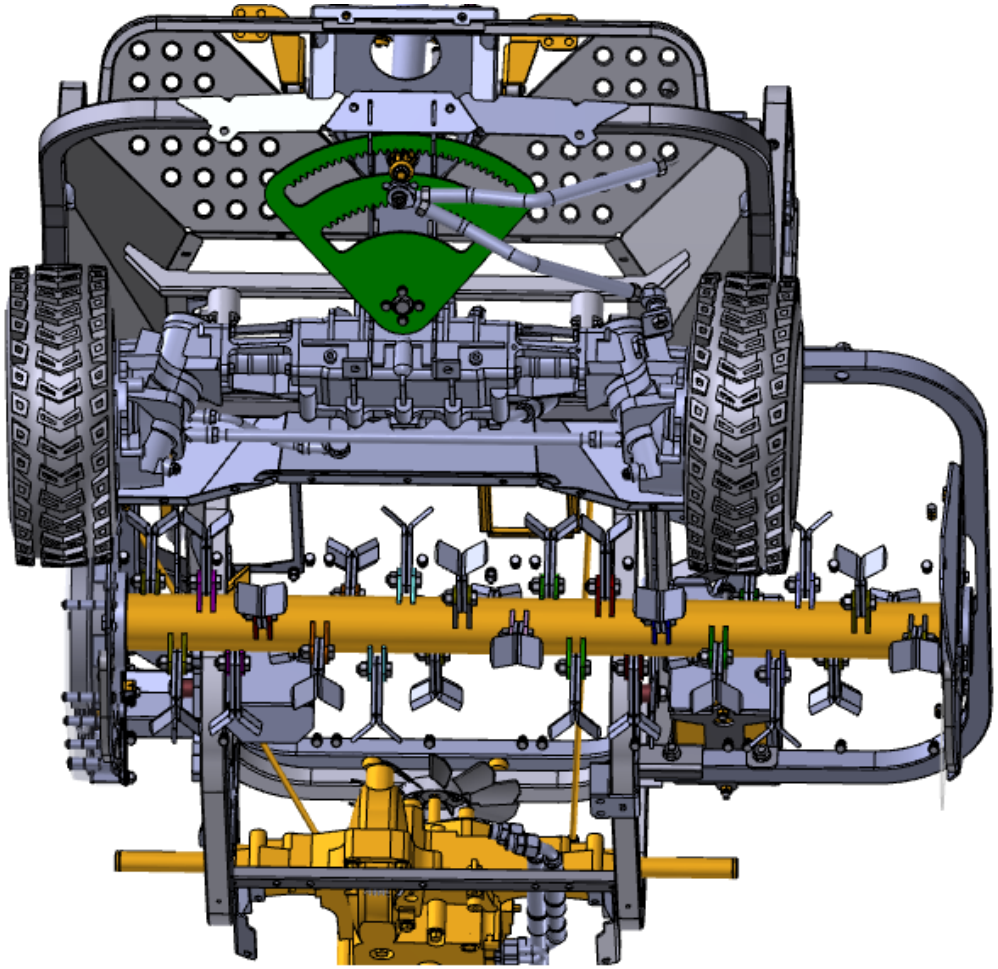


4 friction discs (419) hold the drive lever in position (cruise control function)

Brake must be adjusted in such a manner that at activation of the pedal, the lever always goes automatically into the middle position.

Hydraulic system

View from below

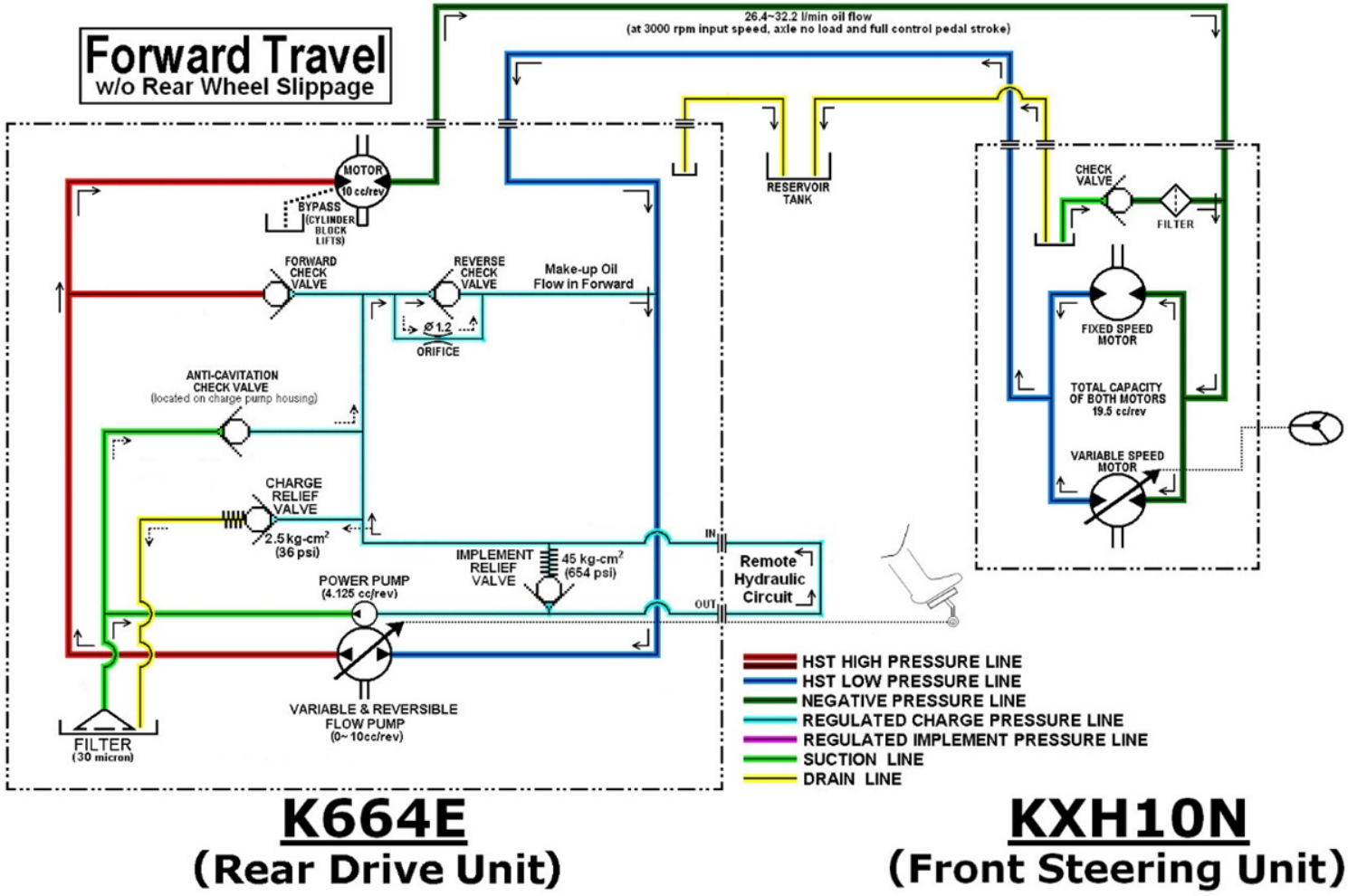


Hydraulic system

Hydraulic system diagram AS 1040 YAK 4WD

Rear axle

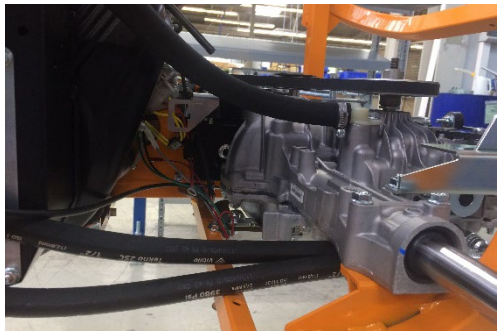
6.8 l fully-synthetic engine oil 5W-50



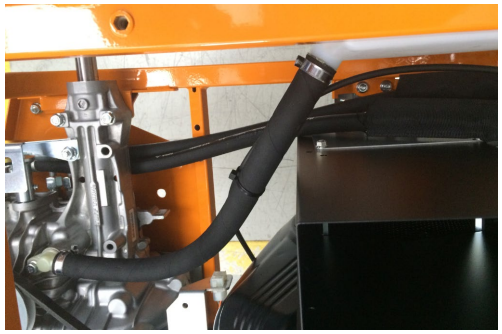
Front axle

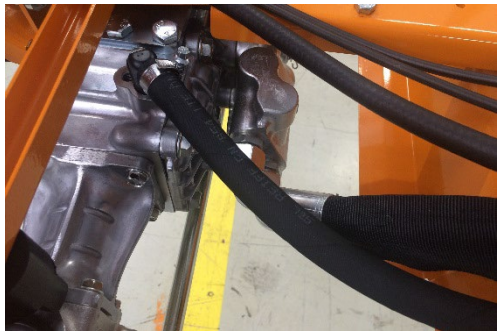
Hydraulic system

Installation of the lines



Transmission rear axle





Front axle

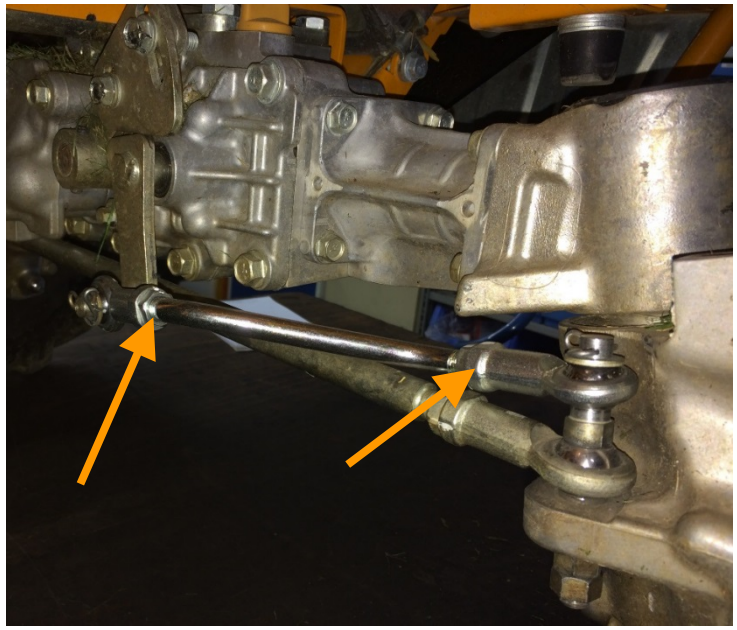
Oil change same as for AS 940

Hydraulic system

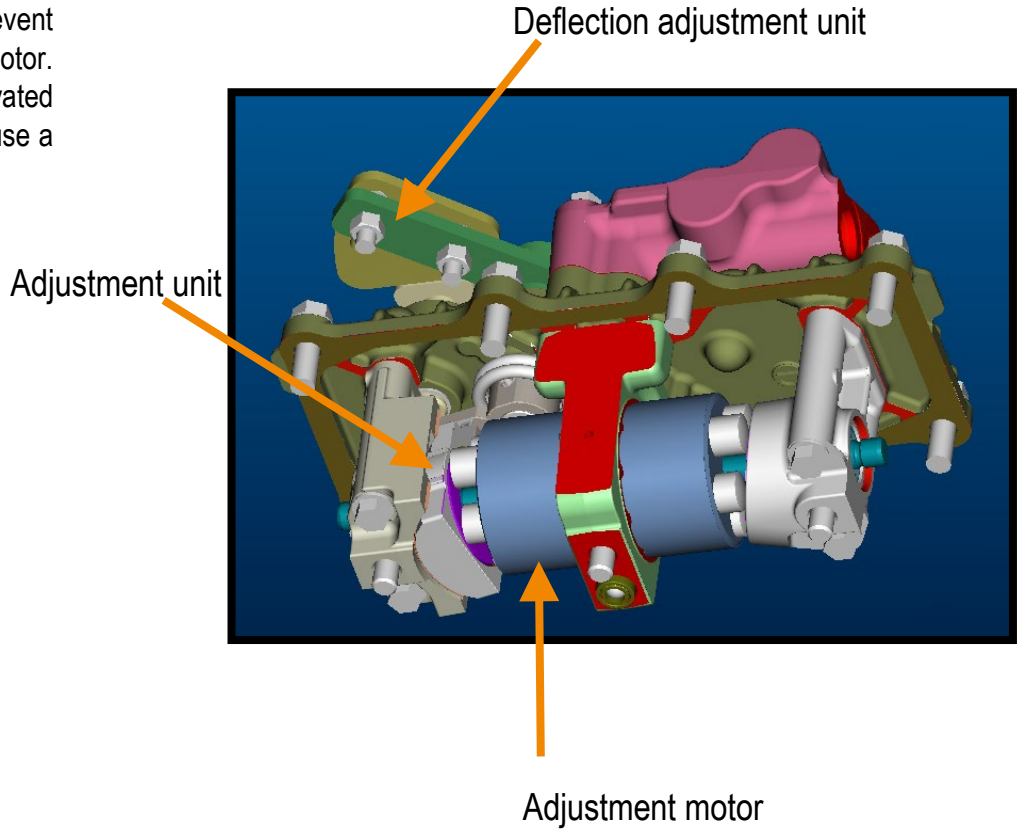
Axle drive

The axle drive is powered with the return oil of the rear axle. This means that in normal operation a variable all-wheel drive is present. As soon as one wheel of the rear axle spins, the front axle gets pressure from the rear axle and thus absolute all-wheel drive.

In addition, the front axle has a compensation for cornering, to prevent deformation of the front axle. The right front wheel is driven by a servomotor. When cornering this motor runs faster or slower. The servomotor is activated via a linkage. It must be ensured that the linkage is not bent. This can cause a blocking of the front angle.

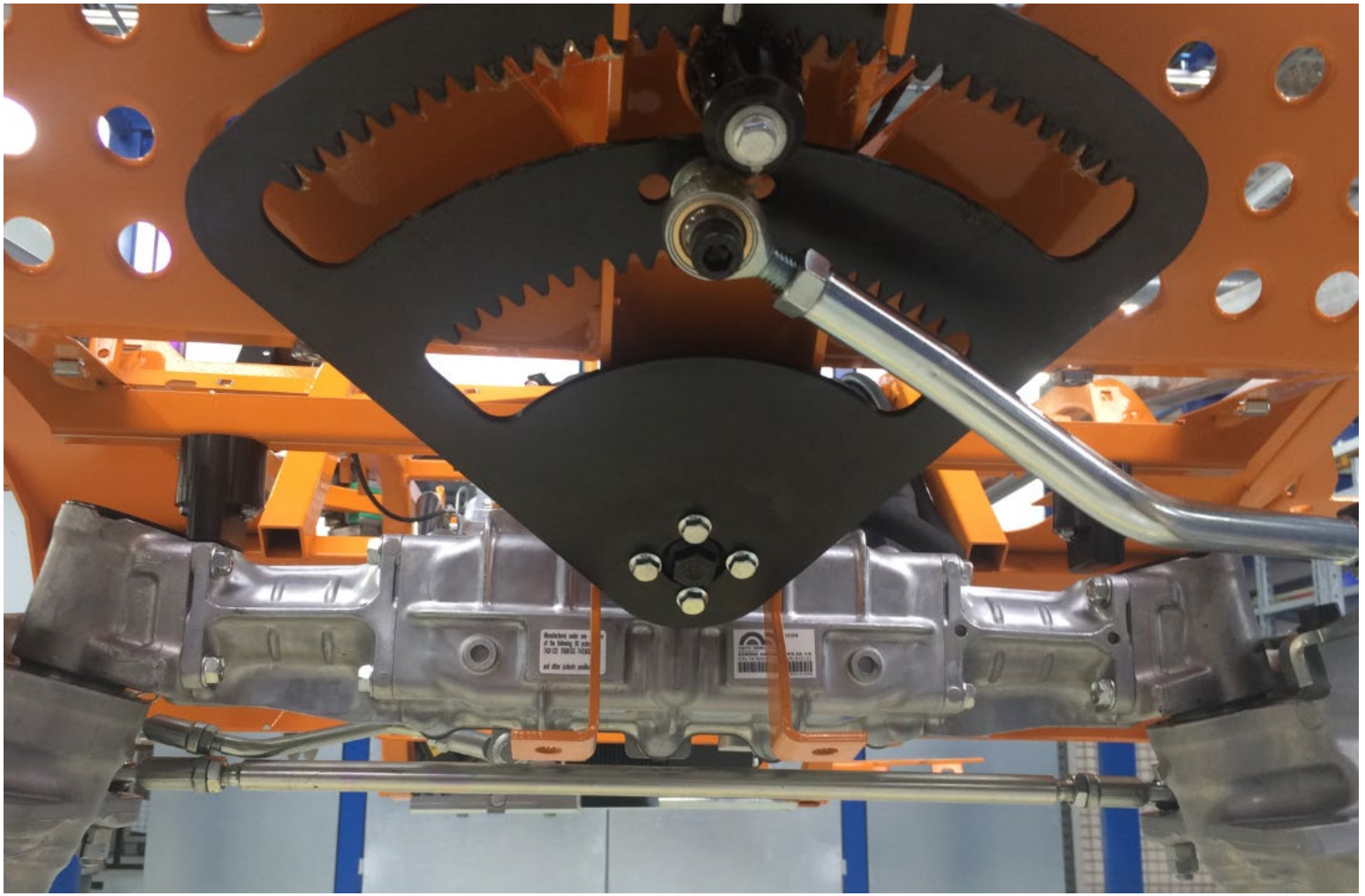


Double – engine unit of the front axle



Steering

Position of the steering column lever in the toothed segment

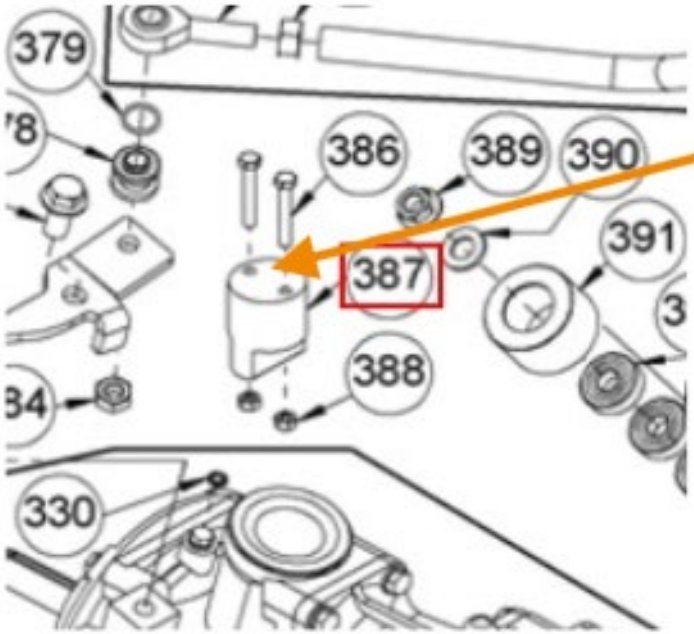


Adjusting the differential

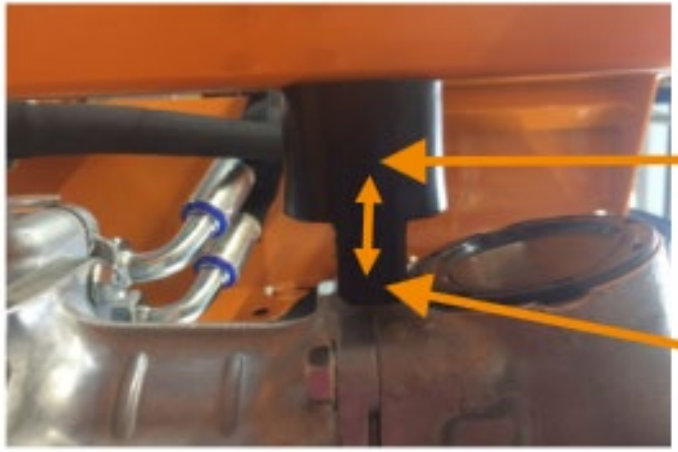
Adjust lever vertically to the axle

Front axle

Function Damper



The pendulum path is visually limited by the damper G90430005 on both sides with each 1 cm. The damper consists of a PE plastic, as in the automotive sector as a stop vapors is used. At the stop of the axle on the damper, this cause a braking and damping of the pendulum path. This keeps the machine stable on uneven terrain.



Differential / brake lever

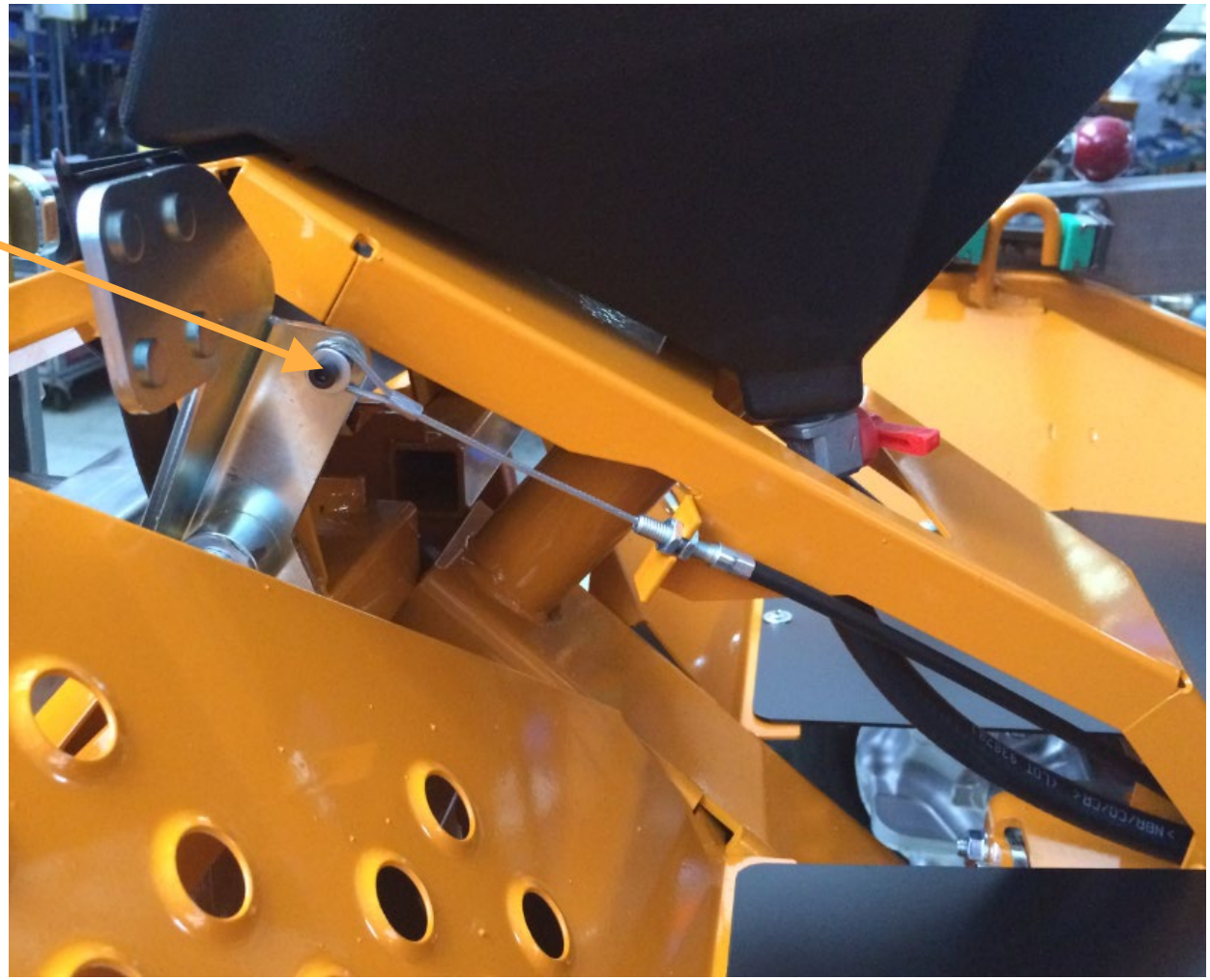
Adjusting the pedals

Differential

Adjust in such a manner that the cable has no play, and so that the wheels block the approximately 1 cm in front of the end stop. This ensures that the tappets completely engage in the transmission

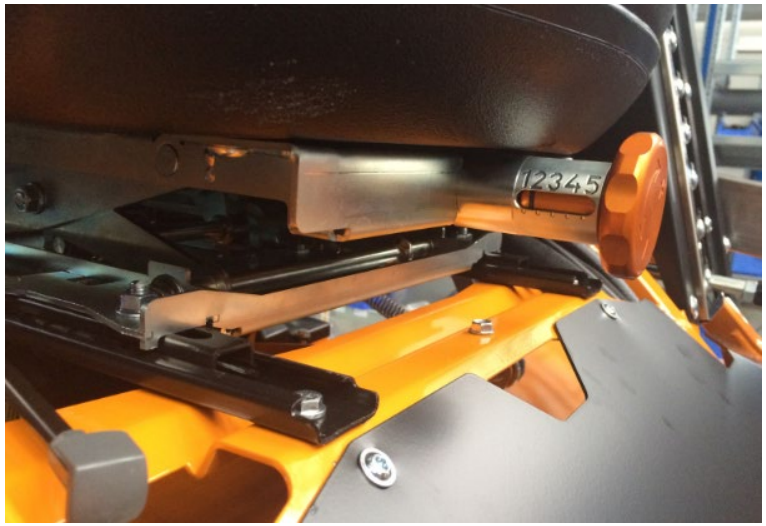
Brake lever

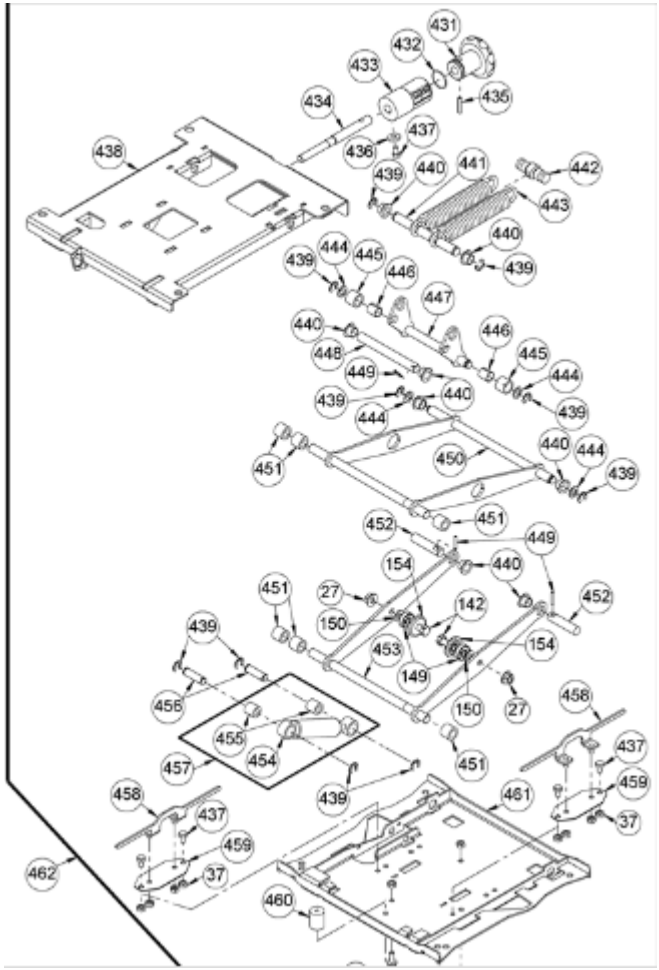
Play on the cable approx. 6-8 mm – cable should be adjusted in such a manner that at ½ distance the drive lever goes automatically into the brake position (middle)



Seat springs

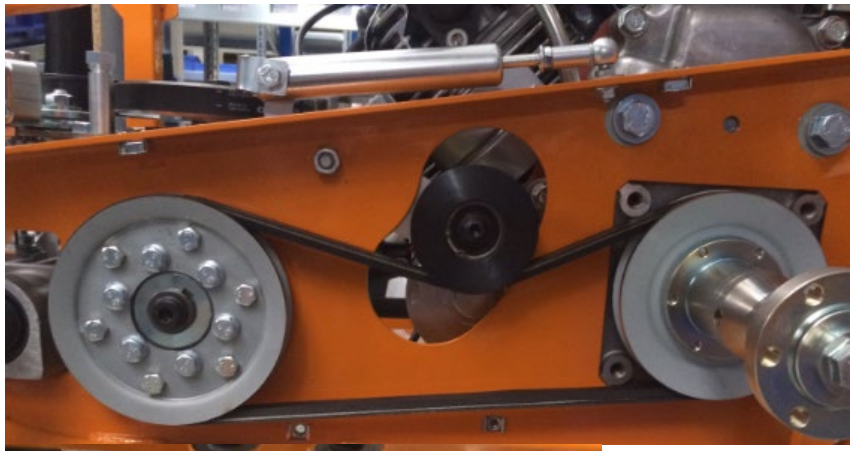
Adjustment screw





Belt tensioner

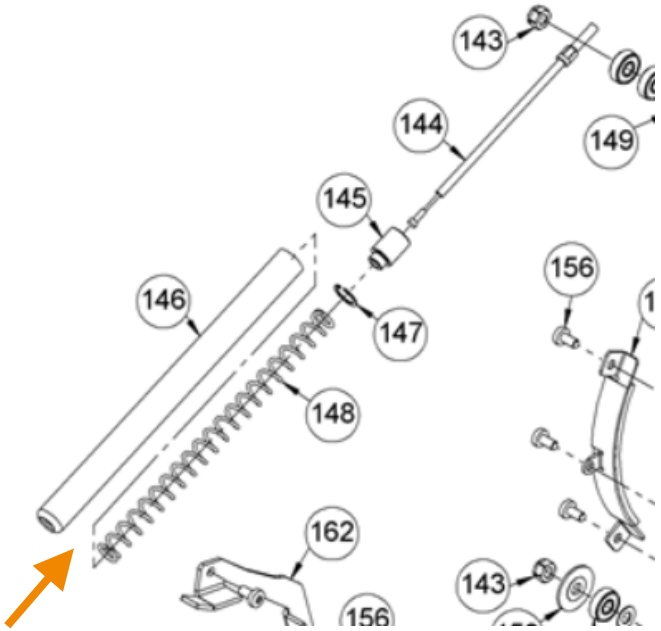
Structure

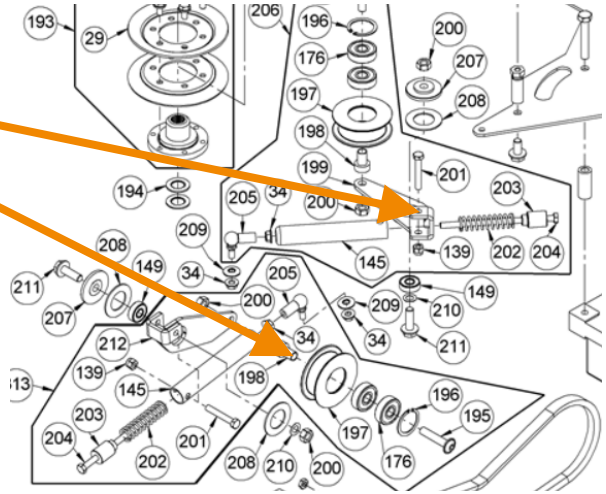


All belts – drive, transmission / flail shaft – are automatically brought to the correct tension via an automatic belt tensioner

Structure: sleeve (146), spring (148), linkage (144), piston (145)

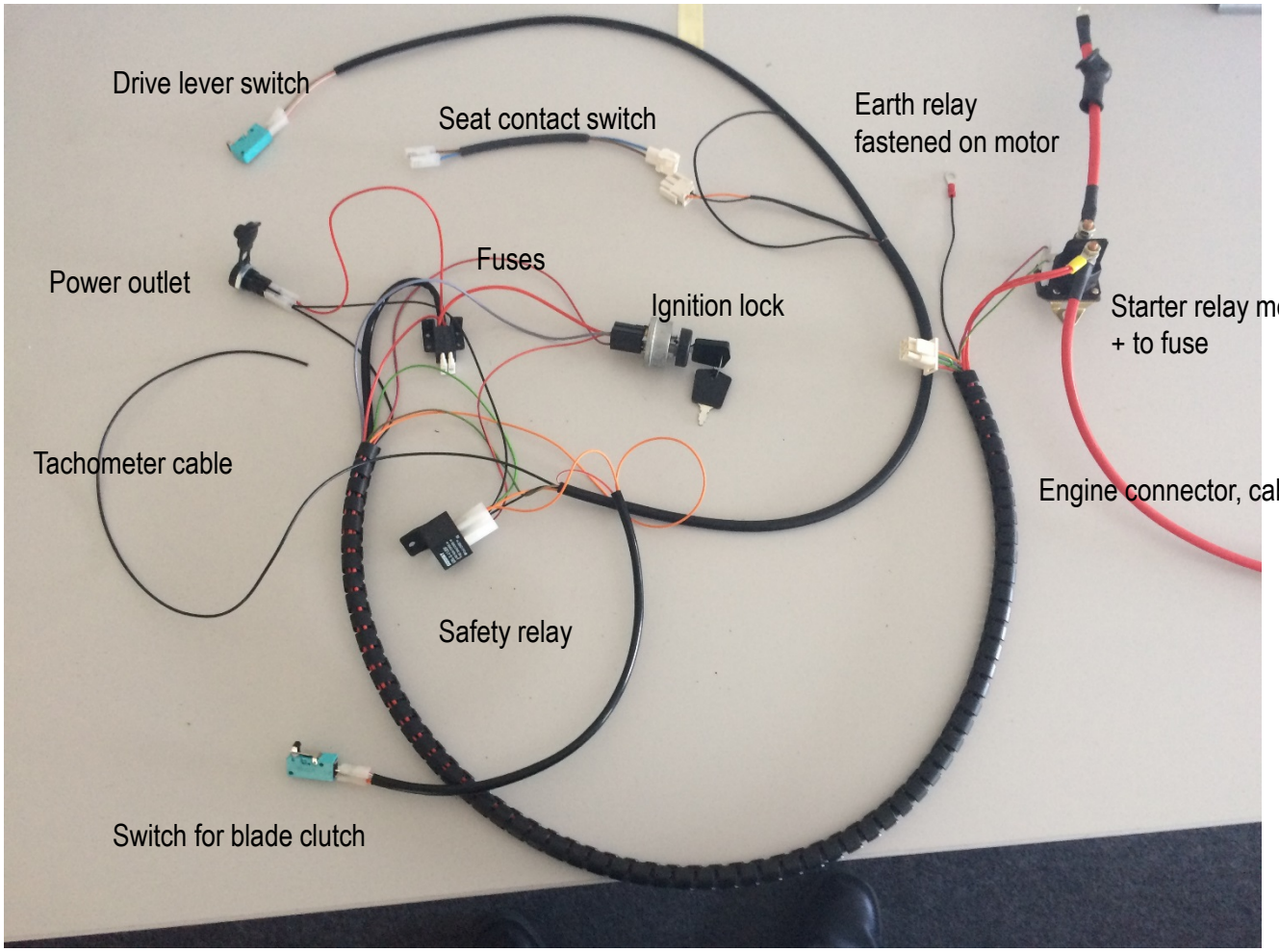
For repair ensure that all moving parts can move freely 1 cm between sleeve and joint head





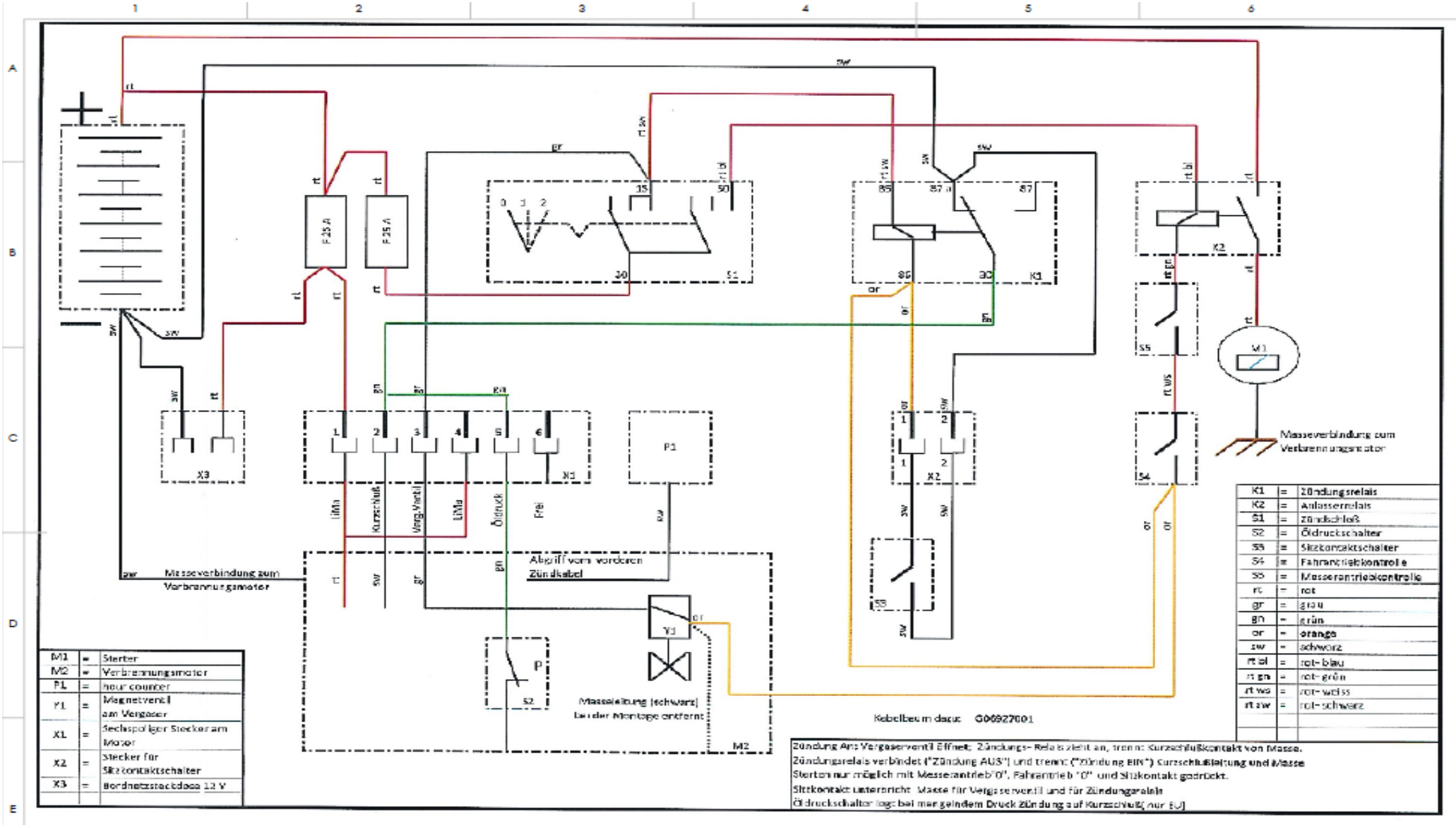
Electrical system

Wiring harness



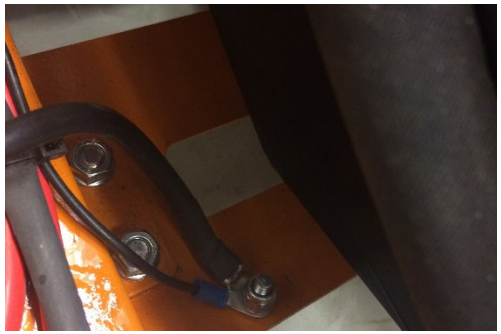
Electrical system

Electrical circuit diagram – AS 1040 YAK 4WD



Electrical system

Arrangement of the components

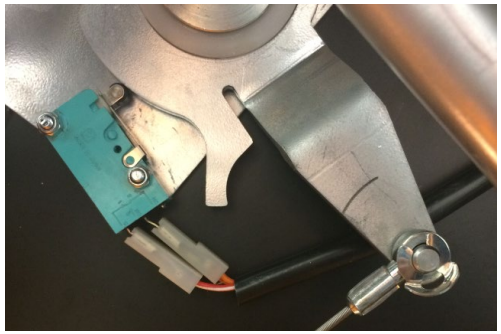


Central earth point

Frame next to the battery

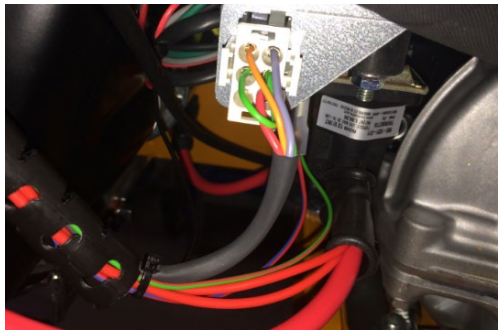
Micro switch

Drive lever



Micro switch

Blade clutch



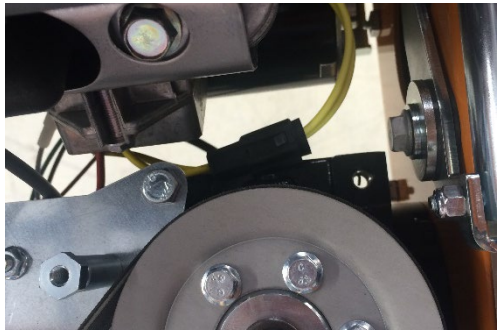
Orange shut-off valve carburettor

Green oil pressure switch

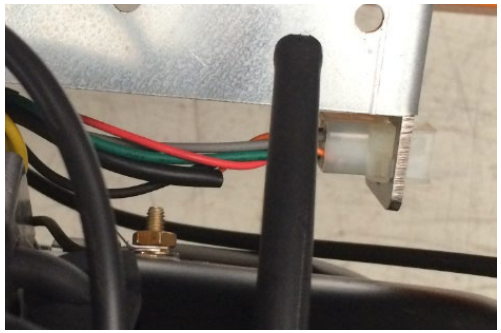
Red power supply

Fuses

Ignition lock



Generator regulator 12 V



Central connector – engine

Starter relay at the bottom on the engine on a rubber bearing

If the rubber of the bearing is damaged, replace the bearing

Personal notes

AS-MOTOR Germany GmbH & CO.KG

Ellwanger Strasse 15

74424 Bühlertann, Germany

www.as-motor.de

info@as-motor.de

www.parts-and-more.org