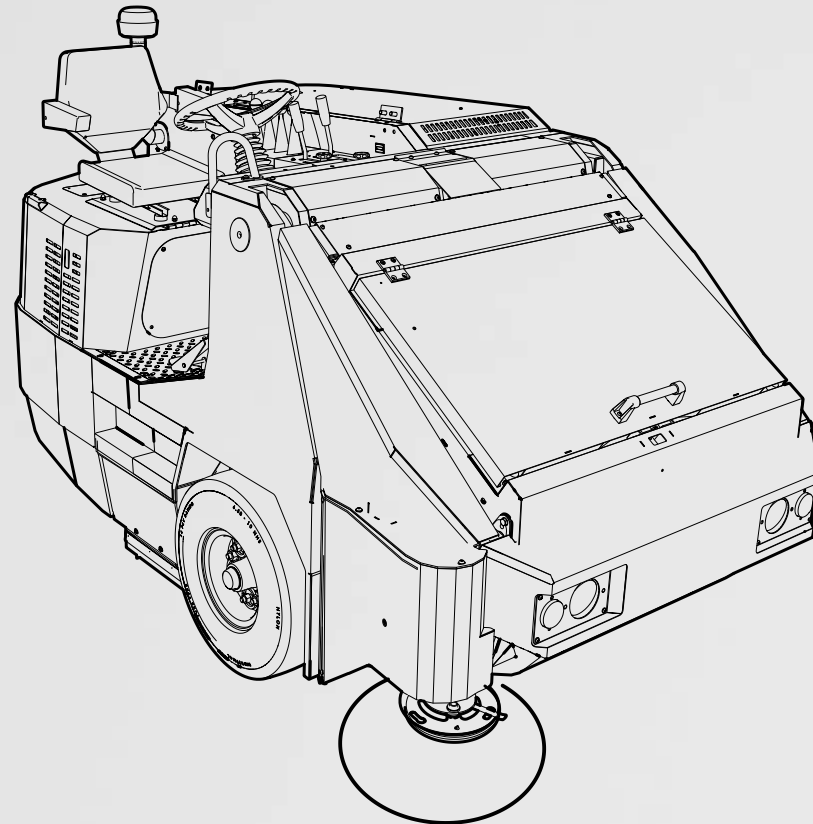


RHINO

POWER SWEEPER

Ride-On-Sweeper, Diesel

ROOTS



*Read this manual completely and understand
the instructions before operating the machine.*

"English Version"

"Original Instructions"

RD 160

**OWNER'S MANUAL &
ILLUSTRATED PARTS LIST**

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MACHINE DATA

Please fill at the time of commissioning for future reference:

Model No. - _____

Serial No. - _____

Engine Serial No. - _____

Accessories - _____

Sales Rep. - _____

Sales Rep. contact no. - _____

Installation Date - _____

Manufacturer's Address:

Roots Multiclean Ltd.

R.K.G. Industrial Estate, Ganapathy

Coimbatore - 641 006, Tamil Nadu, India.

[Email: rmclsales@rootsemail.com](mailto:rmclsales@rootsemail.com)

[Web: rootsmulticlean.in](http://rootsmulticlean.in)

INTRODUCTION

INTRODUCTION

PREFACE

Dear Customer,

We are pleased with your having chosen the **RHINO RD 160** machine for your cleaning requirements. Backed by our industry expertise that spans across two decades, we assure you that the machine comes with our ROOTS promise of quality, efficiency and performance.

We advise you to carefully read through the instructions prior to the operation of the machine. This manual contains detailed instructions for the proper operation of the machine, along with important information regarding its handling, care maintenance and service needs.

We are sure that you will find the machine and its performance to your utmost satisfaction. Once again, we thank you for choosing Roots Multiclean Ltd. (RMCL) as a trusted partner for your cleaning requirements and solutions.

Usage, Handling & Modification

Use of the product beyond the specified scope of functioning is deemed improper and the manufacturer cannot be held liable for any damages which may arise due to this.

This machine may be used only by persons who are trained or are familiar with the machine and are aware of the possible hazards involved. The appropriate Accident Prevention Regulations as well as applicable general regulations pertaining to Safety and Health at the work place must be adhered to by the user.

Modifications made to machine without the manufacturer's consent will relieve the manufacturer of responsibility and any possible liability for consequential damage.

Notes on Warranty

Refer the Warranty Document supplied along with the machine.

Acceptance of the Machine

On arrival of the machine at the shipping address, please check for any damage that may have occurred as a result of transit. In the event of any such damage, the purchaser is bound by responsibility to send a claim letter to the concerned authorized dealer with a copy of the invoice. The letter should be sent within 24 hours of receipt of the machine.

Dealer Stamp:

RMCL is not liable for any legal claims that may arise as a direct or indirect result of the contents of this manual.

SPECIAL NOTES:

ILLUSTRATIONS SHOWN IN THIS MANUAL ARE FOR REPRESENTATIVE PURPOSE ONLY. ACTUAL PRODUCT MAY VARY.

Roots reserves the right to change the product or contents of this manual without prior information.

For Engine, Battery, Motors or other OEM components, kindly refer to their manufacturers manual(s) supplied along with the machine for instructions regarding usage, maintenance and service.

INTRODUCTION



Prior to first operation, read the manual(s) carefully and strictly comply with the instructions contained.

The Owner's Manual is an integral part of the machine and must not be misplaced.

TECHNICAL SPECIFICATION

TECHNICAL SPECIFICATION

MACHINE DIMENSIONS & WEIGHTS

PARAMETER	UNIT	VALUE
LENGTH (Operation / Shipping)	mm	2686 / 2694
WIDTH (Operation / Shipping)	mm	1590 / 1905
HEIGHT (Top of air cleaner)	mm	1665
HEIGHT WITH OVERHEAD GUARD	mm	2320
HEIGHT (Shipping)	mm	1842
GVWR	kg	1800

MACHINE PERFORMANCE

NORMAL SWEEPING SPEED	km/hr	8 to 11
CLEARANCE CIRCLE RADIUS	mm	1735
MAXIMUM GRADABILITY	%	20
SWEEPING WIDTH WITHOUT ONE SIDE BROOM	mm	1220
SWEEPING WIDTH WITH ONE SIDE BROOM	mm	1650
SWEEPING AREA PERFORMANCE (THEORETICAL)	m ² /hr	17325 @ 10.5 km/hr

FILTER SYSTEM

FILTER TYPE	Polyster Non-woven Fabric	
NUMBER OF FILTERS	Nos	2
FILTER SURFACE AREA	m ²	12
VIBRATOR SYSTEM	ELECTRIC	

MAIN BROOM

MAIN BROOM DIAMETER	mm	360
MAIN BROOM LENGTH	mm	1220
MAIN BROOM BRISTLE TYPE	PROEX & WIRE	

SIDE BROOM

SIDE BROOM DIAMETER	mm	660
---------------------	----	-----

DEBRIS HOPPER

HOPPER VOLUME	Liters	640
MAXIMUM LIFT HEIGHT	mm	1400

ENGINE

MANUFACTURER	KUBOTA	
TYPE	V1505 - E3B - EU - Z1 - DIESEL	
COOLING TYPE	WATER COOLING	
CYLINDER CAPACITY	cm ³	1498
NUMBER OF CYLINDERS	Nos	4
MAXIMUM POWER	kW/HP	26.5 / 35.5

STEERING

TYPE	Hydraulic power steering
------	--------------------------

HYDRAULIC SYSTEM

HYDRAULIC RESERVOIR	Liters	40
---------------------	--------	----

BRAKING SYSTEM

SERVICE BRAKES	Hydraulic
PARKING BRAKE	Cable/Lever operated

TIRES

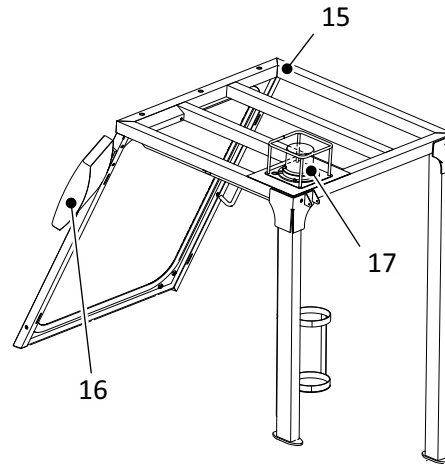
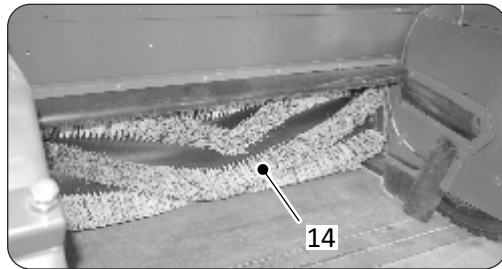
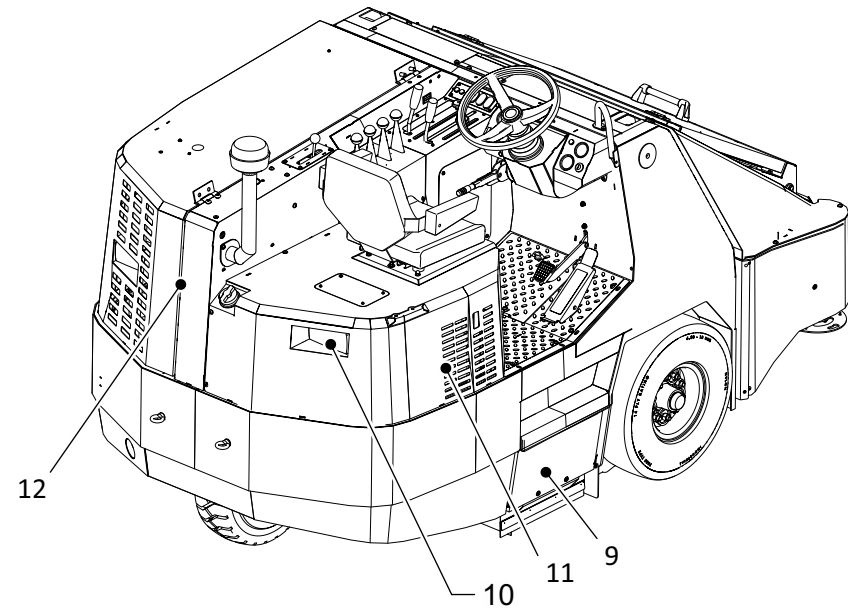
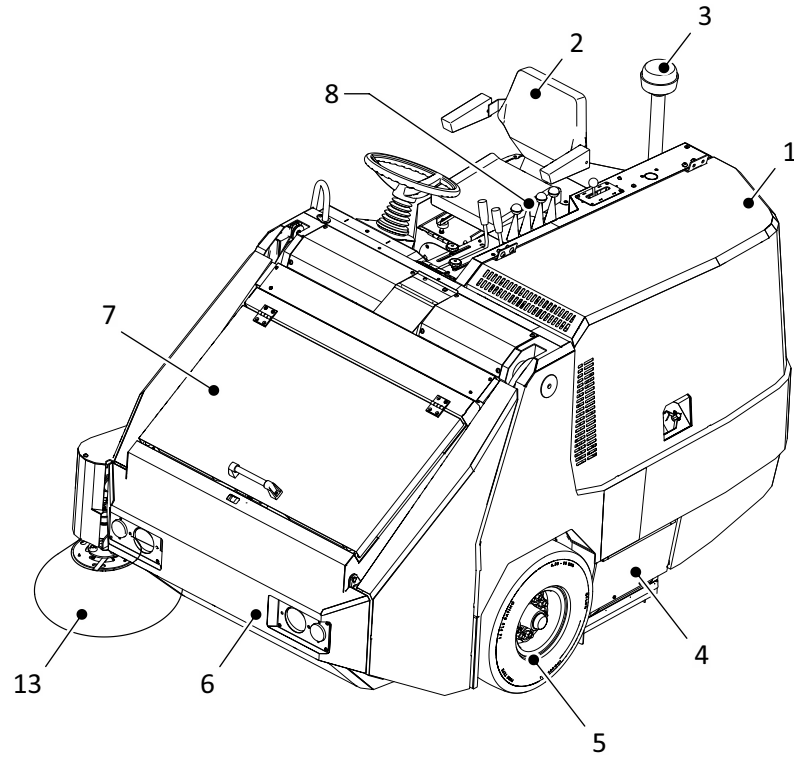
FRONT - SIZE	6.5 X 10 - 14PR
REAR - SIZE	6.0 X 9 - 12PR

ELECTRICAL SYSTEM

BATTERY	V/Ah	12/80
STARTER TYPE	ELECTRIC	

KNOW YOUR MACHINE

KNOW YOUR MACHINE



- | | |
|--|--------------------------------------|
| 1. Engine hood | 9. Right side main broom access door |
| 2. Operator seat | 10. Tail lamps |
| 3. Pre cleaner | 11. Fuel tank and hydraulic oil tank |
| 4. Left side main broom access door | 12. Electrical access panel |
| 5. Front wheel | 13. Side broom |
| 6. Bumper with headlamps | 14. Main broom |
| 7. Debris hopper with filters
and shaker assembly | 15. Overhead guard (if equipped) |
| 8. Machine controls | 16. Rear view mirror (if equipped) |
| | 17. Beacon lamp (if equipped) |

SAFETY INSTRUCTIONS

SAFETY INSTRUCTIONS

SAFETY AND WARNING SYMBOLS

All paragraphs in this manual referring to you personal safety, the safety of your machine and the environment protection are attributed one of the following warning symbols:

Safety Provisions (persons and goods)



Safety provisions in dangerous situation caused by misuse inaccurate adherence of instruction or prescribed work routine.

Caution (the machine)



Important information on handling the machine in order to maintain operability.

Ecological Hazard (the environment)



Due to use of substances representing an inherent danger to health of environment.

Read Manual



Prior to first operation, read the manual carefully and strictly comply with the instructions contained.

SAFETY INSTRUCTIONS

Application

- The machine with working equipment must be checked to ensure that it is in proper working order and is operating safely prior to use. Otherwise, the machine must not be used.
- The machine is not suitable for sweeping dust which endangers health, unless expressly specified otherwise. Please follow the safety instructions in the operating manual.
- Never sweep explosive liquids, combustible gases, explosive dusts as well as undiluted acids and solvents! This includes petrol, paint thinner or heating oil which can generate explosive fumes or mixtures upon contact with the suction air. Acetone, undiluted acids and solvents must also be avoided as they can harm the materials on the machine.
- Do not sweep any burning or glowing objects.
- The machine should not be used in sub-zero temperatures.
- If the machine is used in hazardous areas (e.g. filling stations) the corresponding safety provisions must be observed.
- The machine may only be operated on the surfaces approved by the company or its authorised representatives.
- Protect the machine from frost.

SAFETY INSTRUCTIONS

Operation

- This machine is not intended for use by persons (including children) with limited physical, sensoric or mental capacities or lack of experience and/or skills, unless such persons are accompanied and supervised by a person in charge of their safety or if they received precise instructions on the use of this machine.
- Children should be supervised to prevent them from playing with the machine.
- The operator must use the machine properly. The person must consider the local conditions and must pay attention to third parties, in particular children, when working with the machine.
- Never leave the machine unattended so long as the engine is running. The operator may leave the machine only when the engine has come to a standstill, the machine has been protected against accidental movement, and the parking brake has been applied.
- For devices fitted with ignition key, remove the ignition key to prevent accidental or unauthorized use.
- Prior to starting work, the operator must ensure that all protective devices are properly installed and function correctly.
- The operator of the machine is liable for accidents with other individuals or their property.
- Ensure that the operator wears tight-fitting clothes. Wear sturdy shoes and avoid wearing loose-fitting clothes.
- Check the immediate vicinity prior to starting (e.g. children). Ensure sufficient visibility!
- The machine may only be used by persons who have been instructed in handling the machine or have proven qualification and expertise in operating the machine or have been explicitly assigned the task of handling the machine.
- Do not open the hood when the engine is running.
- On sloped surfaces, the sloping angle and the driving direction should not exceed the values given in the Operating Instructions.

Transport

- The engine is to be brought to a standstill and the machine is to be fastened properly during transportation.

Maintenance

- Maintenance work may only be carried out by approved customer service outlets or experts in this field who are familiar with the respective safety regulations.
- Please observe the local safety regulations regarding portable commercially used machines.
- Always use appropriate gloves while working on the device.
- First switch off the machine and remove the ignition key before performing any cleaning or maintenance tasks on the machine, replacing parts or switching over to another function.
- Always disconnect the battery when working on the electrics.
- Do not clean the machines with a high-pressure water jet (danger of short circuits or other damage).

Spare Parts & Accessories

- To avoid risks, all repairs and replacement of spare parts may only be carried out by the authorised customer service personnel.
- Only use accessories and spare parts which have been approved by the manufacturer. The exclusive use of original accessories and original spare parts ensures that the machines can be operated safely and trouble free.

SAFETY INSTRUCTIONS

Machines With Diesel Engine

Read the operating instructions of the engine manufacturer before start-up and follow the safety instructions carefully.

Risk of explosion!

- Only fill up fuel while the engine is turned off.
- Only use the fuel specified in the Operations Manual.
- Do not refuel the machine in enclosed spaces.
- Smoking and open flames are strictly prohibited.
- Ensure that no fuel reaches the hot open surfaces.

Risk of injury!

- Do not close the exhaust.
- Do not bend over the exhaust or touch it (risk of burns).
- Allow the machine sufficient time to cool down before carrying out any maintenance and repair work.
- Ensure that there is adequate ventilation or provision for diverting the exhaust gas while operating the machine in closed rooms (risk of poisoning).
- Exhaust gases are poisonous and hazardous to health, do not inhale them.

Pneumatic Tires Equipped Machines

- In machines with screwed wheel rims: Please check and confirm that all the screws of the rim are tightened before correcting the tyre filling pressure.
- Check the pressure reducer on the compressor for the correct setting before correcting the tyre pressure.
- Do not exceed maximum tyre pressure.



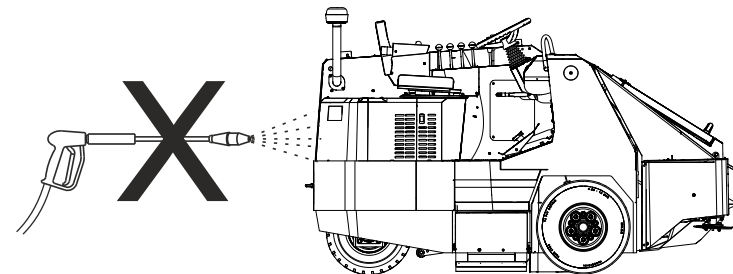
DO NOT SWEEP OR VACUUM CORROSIVE/BATTERY FLUIDS/EXPLOSIVE/FLAMMABLE/MAGNETIC/RADIOACTIVE/BIOHAZARD MATERIALS.



Wear Safety Gear as necessary.



Cleaning Instructions:



WARNING: DO NOT CLEAN THE MACHINE WITH A HIGH PRESSURE CLEANER. RISK OF DAMAGING THE ELECTRICAL PARTS OR RISK OF SHORT CIRCUIT!

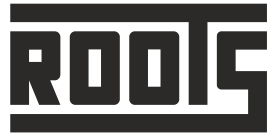
STICKERS ON THE MACHINE

STICKERS ON THE MACHINE

Branding Labels



(1)



(2)

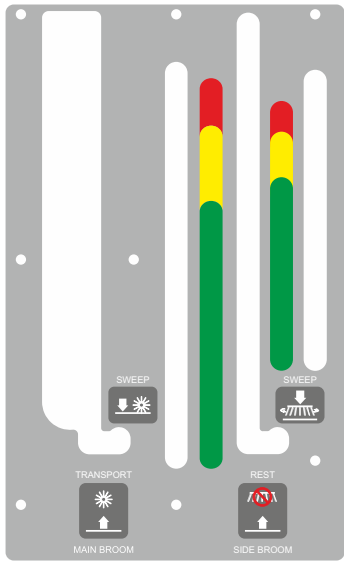
RD 160

(3)

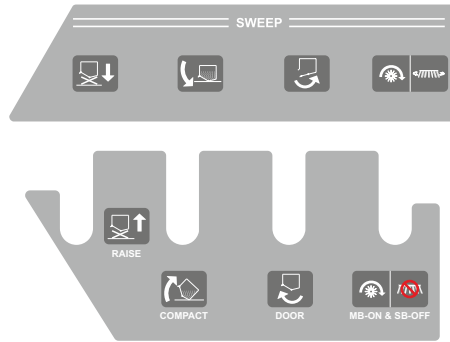
1. Product category sticker
2. Manufacturer's logo sticker
3. Product name sticker

STICKERS ON THE MACHINE

Operational Labels



(1)



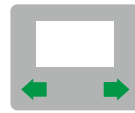
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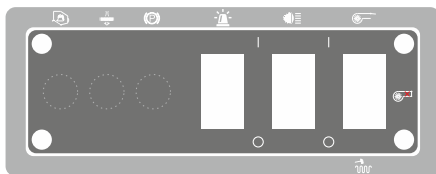
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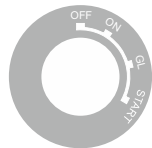
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(5)



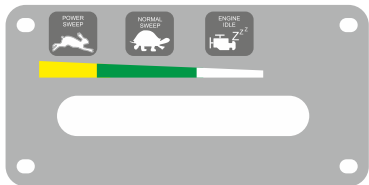
(6)



(7)



(8)



(9)

1. Main/Side broom indicator sticker
2. Hopper control sticker
3. Ignition coil/Hydraulic oil filter clog indicator
4. Battery charging sticker
5. Turn signal indicator sticker
6. Switch panel sticker
7. Ignition key sticker
8. Horn sticker
9. Throttle lever sticker

STICKERS ON THE MACHINE

Safety Labels



(1)



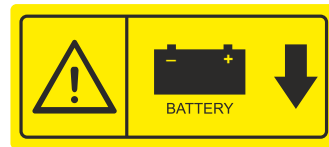
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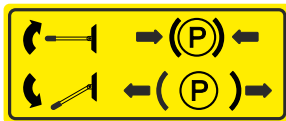
(4)



(5)



(6)



(7)

- Hopper lift arm safety warning sticker
- Rotating fan keep away safety sticker
- Rotating belt keep away safety sticker
- Diesel fuel safety sticker
- Battery location warning sticker
- Machine safety sticker
- Parking brake safety sticker

STICKERS ON THE MACHINE

Safety Labels

MAINTENANCE SCHEDULE

TO CHECK DAILY

MAINTENANCE AREA	THINGS TO CHECK
Main & Side Broom	Inspect brooms for wear and damage, remove strings and debris from bristles and drive assembly if found.
Air Intake system	Empty & clean dust cup of pre-cleaner, Check the air filter clog indicator.
Coolant system	Check coolant level and top up as needed.
Engine	Check engine oil level, Check water separator visually.
Brake	Check brake oil level and top up as needed.
Hopper	Inspect the hopper aprons for wear or damage and replace as needed. Shake and clean hopper dust filters, replace as needed.
Hydraulic system	Check hydraulic oil level and top up as needed.
Wheels and tires	Visually inspect for deflation, wear and damage. Repair or replace as needed.
Miscellaneous	Check belts for wear, Check the hydraulic hoses visually for any leaks or damage.

TO CHECK EVERY 200 HOURS

MAINTENANCE AREA	THINGS TO CHECK
Engine	Refer Kubota engine owner's manual.
Air Intake system	Clean air filter. NOTE: Clean more often in dusty conditions. Replace air filter.
Battery	Check water level, clean and tighten battery cable connection.
Lubrication points	Steering Cylinder (2 fittings) Lubrication type - grease Door Cylinder (2 fittings) Lubrication type - grease Hood Latches & Hinges - Lubrication type - oil
Miscellaneous	Check anti-static drag chain on main broom counter weight for damage or excessive wear. Make sure the chain is touching the ground at all times.

TO CHECK EVERY 400 HOURS

MAINTENANCE AREA	THINGS TO CHECK
Engine	Refer Kubota engine owner's manual.
Brake cylinder	Check brake oil line, oil level and top up if needed.

TO CHECK EVERY 500 HOURS

MAINTENANCE AREA	THINGS TO CHECK
Coolant system	Drain and flush the coolant system and top up as needed.
Side broom	Check side broom lift cable, replace if needed.

TO CHECK EVERY 800 HOURS

MAINTENANCE AREA	THINGS TO CHECK
Hydraulic system	Clean hydraulic oil strainer and breather cap. Replace hydraulic oil and filter.
Wheels and tires	Check & tighten front and rear wheel nuts, (Torque to 200 Nm) Check & tighten wheel motor nuts, (Torque to 640 Nm)

TO CHECK EVERY 50 HOURS


MAINTENANCE AREA	THINGS TO CHECK
Main Broom	Rotate end-to-end. Inspect broom chamber seals and aprons for wear and damage, adjust or replace as needed. Perform main broom adjustment test and adjust as needed.
Hydraulic system	Check functioning of directional control pedal and adjust as needed. Blow out hydraulic oil cooler fins with compressed air. (If so equipped)
Wheels and tires	Check and tighten front & rear wheel nuts to 200 Nm torque. (For the first time only).

TO CHECK EVERY 100 HOURS

MAINTENANCE AREA	THINGS TO CHECK
Engine	Clean the engine bay. Check and adjust belt tension. (Fan belt & impeller belt)
Coolant system	Inspect radiator fins and clean as needed.
Hydraulic system	Check functioning of directional control pedal and adjust if needed. Check oil level and top up as needed. Blow out hydraulic oil cooler fins with compressed air. (If so equipped)
Hopper	Inspect hopper side structure and door seals for wear or damage. Adjust or replace as needed. Inspect filter frame seals for damages. Adjust or replace as needed.

(8)

NOTICE

 USE DESIGNATED FUSES ONLY

F1 10 A	F2 10 A	F3 10 A	F4 20 A	F5 25 A	F6 10 A	(OPS) 30A (NC)	FLASHER
F7 40 A	F8 20 A	F9	F10	F11	F12		
		(GP) 30A (NO)		(EOS) 30A (NC)			
		(VM) 30A (NO)		(SU.B) 30A (NC)			
		(L) 30A (NO)		(HR) 30A (NC)			
		(H) 30A (NO)		(AUX) 30A (NO)		DPDT RELAY	

(9)

8. Maintenance schedule sticker
9. Electrical fuses/relay location sticker

STICKERS ON THE MACHINE

Safety Labels



(10)



(11)



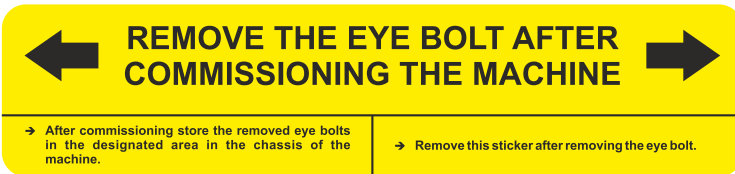
(12)



(13)



(14)



(15)

- 10. Yellow/Black stripe safety sticker
- 11. Yellow/Black stripe safety sticker
- 12. Yellow/Black stripe safety sticker
- 13. Grease point sticker
- 14. Safety stopper sticker
- 15. Commissioning instruction sticker

MACHINE OPERATION

MACHINE OPERATION

OPERATOR RESPONSIBILITY

The operator's responsibility is to take care of the machine's daily maintenance and routine checkups to keep the machine in good working condition.

The operator must also inform the supervisor when scheduled maintenance of the machine is to be carried out.

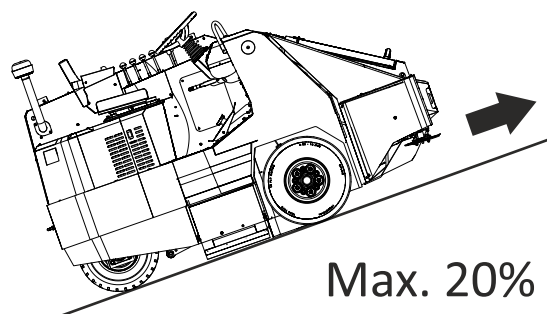
CAUTION



Read this manual completely and understand before operating this machine. Also ensure that the persons who are going to operate this machine have also read and understood the contents of this manual.

*Do not use this machine to collect any hazardous debris.
Do not use this machine as a transport equipment.*

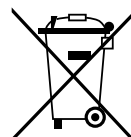
WARNING: *Do not use this machine on surfaces exceeding a maximum of the given value for the gradient or slope.*



ENVIRONMENTAL RESPONSIBILITY



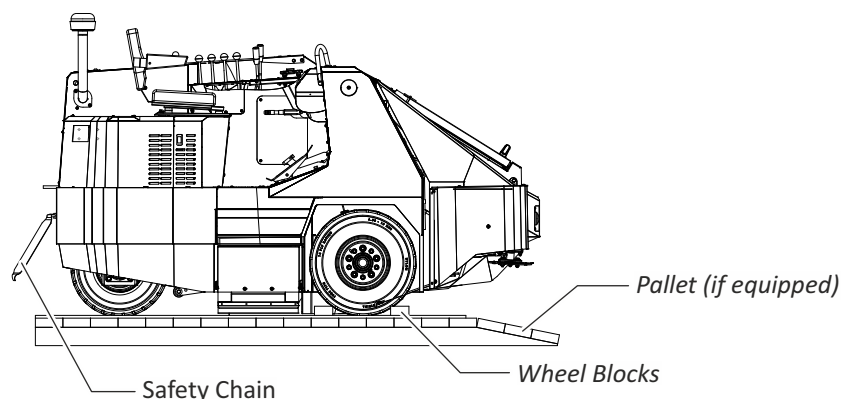
The packaging material can be recycled. Please do not place the packaging into the ordinary refuse for disposal, but arrange for the proper recycling.



Old machines contain materials that can be recycled. Please arrange for the proper recycling of old machines. Batteries and actuators contain substances that must not enter the environment. Please dispose of your old machines, batteries and actuators using appropriate collection systems.


MACHINE OPERATION

UNLOADING



To unload the machine follow the procedure as follows:

- Position the transport truck near a ramp.
- Remove the protective cover.
- Remove the strap belts and chains that secure the machine.
- Remove the wheel blocks.
- Drive to unload the machine from the pallet (if equipped).

 **CAUTION: Owner's personnel are not allowed to unpack the machine.**

 **WARNING: The ramp's minimum load bearing capacity should be three tonnes. Risk of damage, Risk of injury.**

- Do not use a forklift.
- Observe carefully when loading in a ramp: Ground clearance should be 70 mm.
- Risk/Danger of tipping over if gradient is too high.
- Do not unload the machine on an inclined ramp or platform.
- Do not unload the machine on wet areas.
- Use appropriate tools and safety devices.



Upon Unloading

- Check the machine for any transit damage such as dents, paint damage, scratches, leaks, etc.
- Check coolant level in the radiator.
- Check the engine oil level.
- Check the hydraulic oil level.
- Check the Main and Side Broom for damage.
- Connect the battery leads.
- Remove the eye bolts and store them in the machine for future use, also remove the eye bolt sticker and dispose it off after commissioning the machine.

If the coolant, oil, fuel levels are low top them up with the recommended grades.



WARNING:

- Do not smoke while refueling or topping up fluids.
- Do not refuel or top up near open flames/fire.
- Do not refuel or top up near a hot surface.



WARNING:

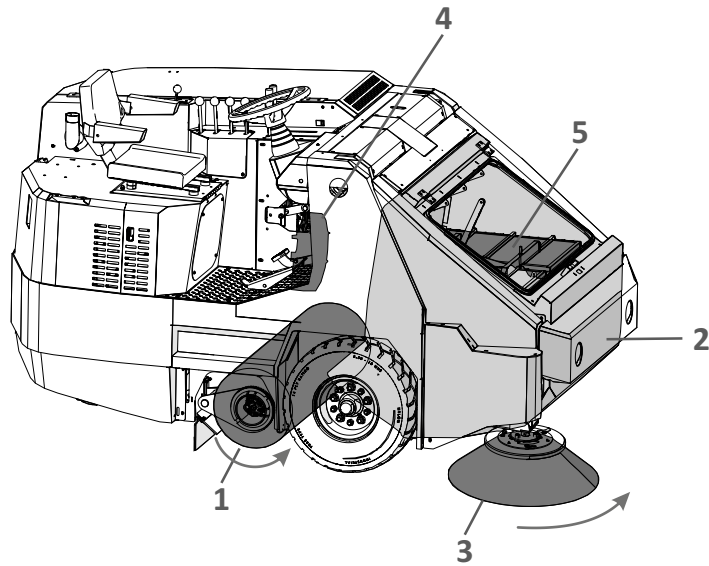
- Do not let fuel or oil to leak into the environment.

 **USE ONLY DIESEL FUEL.
DO NOT ADD ANY ADDITIVES.**

- Check the machine's invoice against the machine for the required accessories and serial number.

MACHINE OPERATION

WORKING PRINCIPLE



Working principle:

- The rotating main broom (1) throws the debris directly into the hopper (2).
- The side broom (3) sweeps the edges and corners and moves the debris to the path of the main broom.
- The fine dust from the swept debris is sucked by a centrifugal fan (4) through a filter (5).

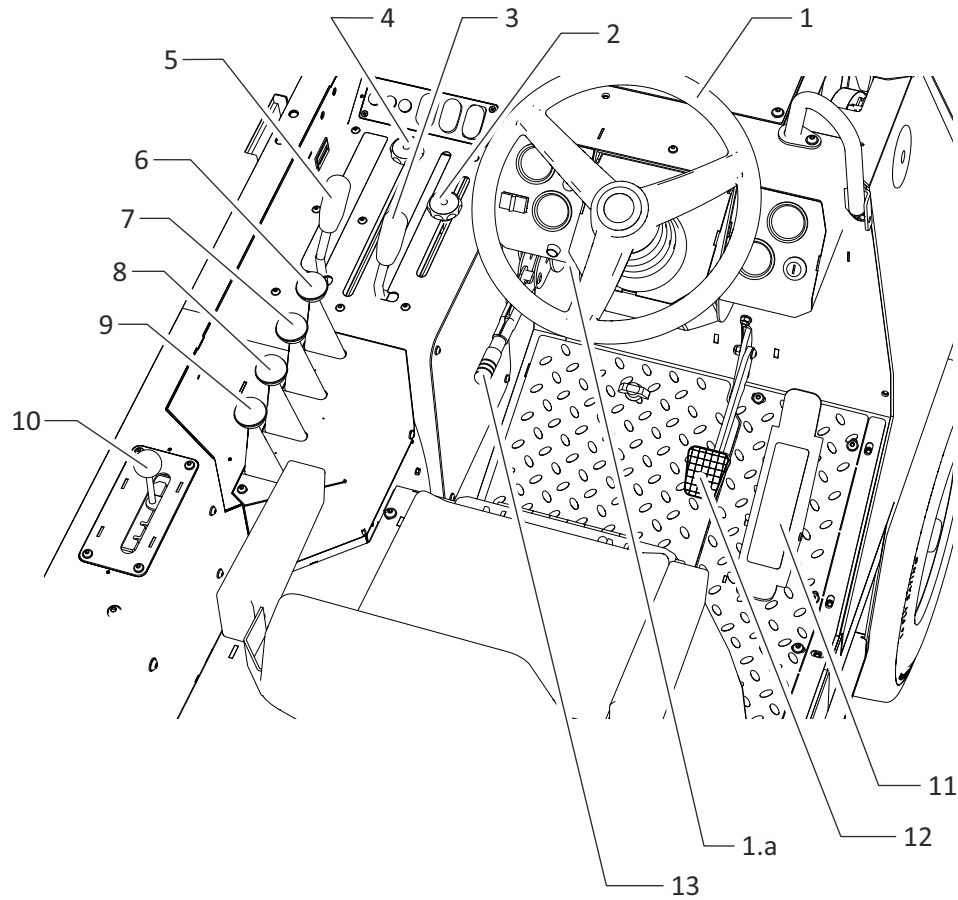
USEFUL TIPS:

- ✓ Never sweep long packing straps, ropes, threads, twines or wires as it could get entangled with the main and side broom and damage its mechanism.
- ✓ Make sure the area to be swept is dry.
- ✓ Position the machine in the direction that the wind blows the dust away from the machine.
- ✓ For optimum cleaning results, match the driving speed with the area to be swept.
- ✓ Switch off suction fan if sweeping in a damp area as it may damage the filter.
- ✓ Clean the dust filter at regular intervals depending the intensity of the dust.
- ✓ When sweeping on a bad road make sure that the main broom is in float mode.
- ✓ Plan to sweep in long runs with minimal stopping or starting.
- ✓ Allow atleast 5 inches of broom path overlap to ensure complete coverage of the area that is being swept.
- ✓ Avoid making sharp turns, bumping into posts or scraping the sides of the machine.

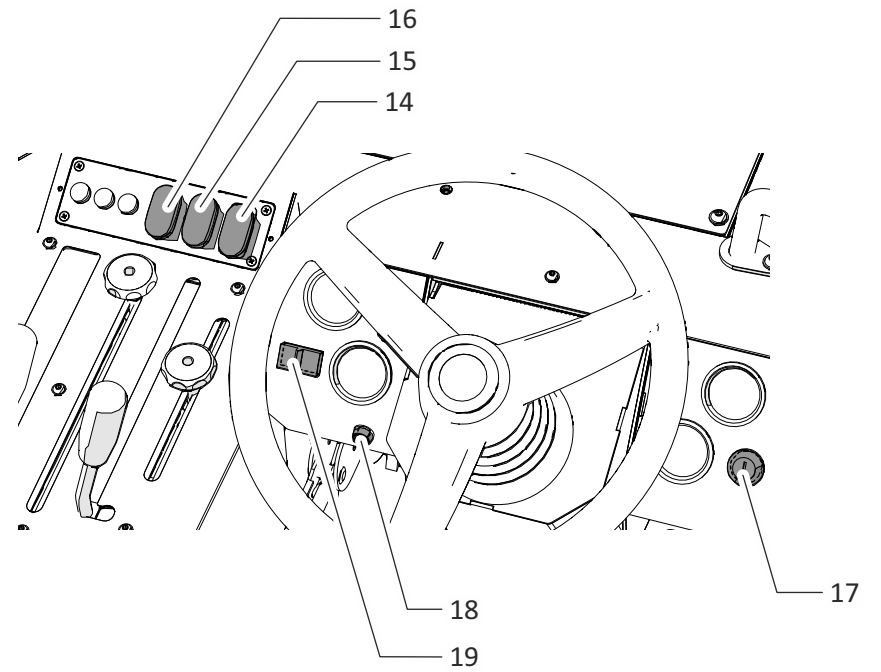
MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

Control Elements



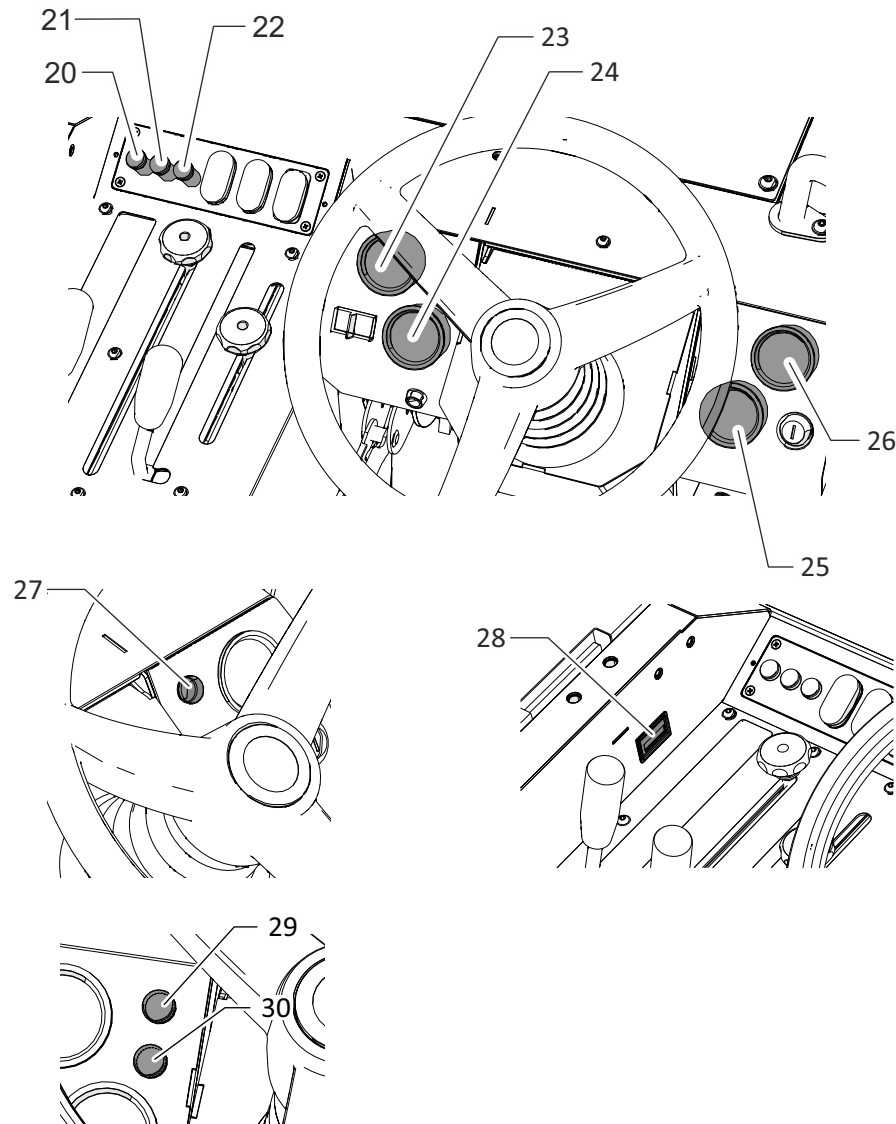
Switches



MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

Indicating Gauges and Lamps

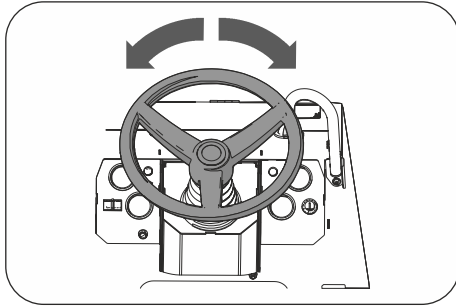


1. Steering wheel
- 1.a. Steering tilt adjustment lever
2. Side broom adjustment knob
3. Side broom raise/lower lever
4. Main broom adjustment knob
5. Main broom raise/lower lever
6. Main & Side broom on/off lever
7. Hopper door open/close lever
8. Debris Compact System (DCS) activate lever
9. Hopper raise/lower lever
10. Throttle adjustment lever
11. Direction control pedal
12. Brake pedal
13. Parking brake lever
14. Vacuum By-Pass/Filter vibrator on/off switch
15. Headlamp switch
16. Warning beacon lamp on/off switch (if equipped)
17. Ignition key switch for engine
18. Horn switch
19. Turn signal indicator switch
20. Fire in hopper indicating lamp (if equipped)
21. Filter clog indicating lamp (if equipped)
22. Parking brake engaged indicating lamp (if equipped)
23. Coolant temperature indicating gauge
24. Engine oil pressure indicating gauge
25. Fuel level indicating gauge
26. Battery charge indicating gauge
27. Battery charge indicating lamp
28. Hourmeter
29. Glow plug indicating lamp
30. Hydraulic oil filter clog indicating lamp

MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

1. Steering Wheel:

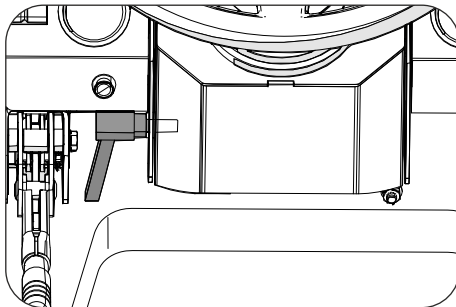


The steering wheel controls the machine's direction. The machine is very responsive to the steering wheel movements. The *ROOTS* logo on the steering wheel indicates whether the rear steerable wheel is straight or not.

LEFT - Turn the steering wheel to the left.

RIGHT - Turn the steering wheel to the right.

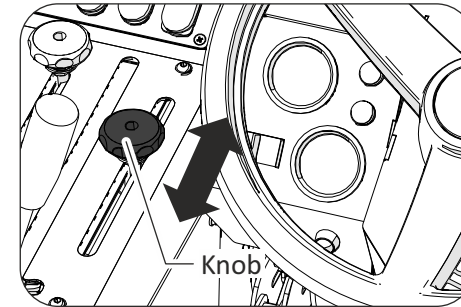
1.a. Steering Wheel Adjustment Lever:



The steering wheel tilt lever controls the angle of the steering wheel.

To adjust: Rotate the lever towards the operator, adjust the angle and push the lever back to secure.

2. Side Broom Adjustment Knob:



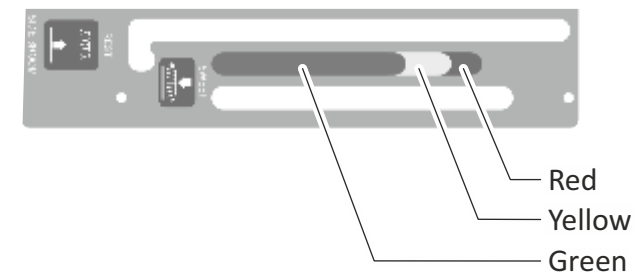
Rotate the knob counter-clockwise to release the mechanism, move the knob to the desired position, rotate clockwise to secure the position.

The purpose of this knob is to adjust the brush pressure to achieve the required cleaning intensity and also to compensate for the brush wear.

GREEN - Optimum broom available

YELLOW - Broom nearing end of its life cycle

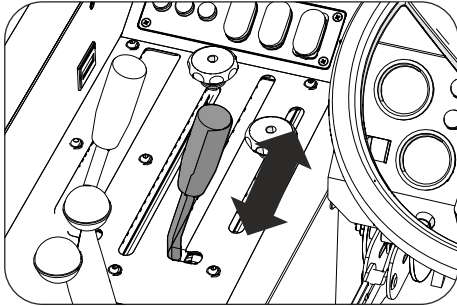
RED - Broom completely worn out - replace with new recommended spare broom.



MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

3. Side Broom Raise/Lower Lever:



The side broom can be stowed and deployed via a lever on the operator's console.

Lever position forward - To deploy (lower) the side broom, used during sweeping on curbs or edges.

SWEEP

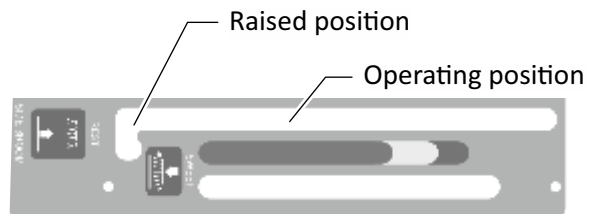


Lever position backward - To store (raise) the side broom when not in use.

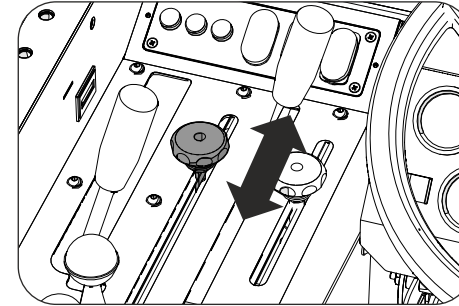
REST



SIDE BROOM



4. Main Broom Adjustment Knob:



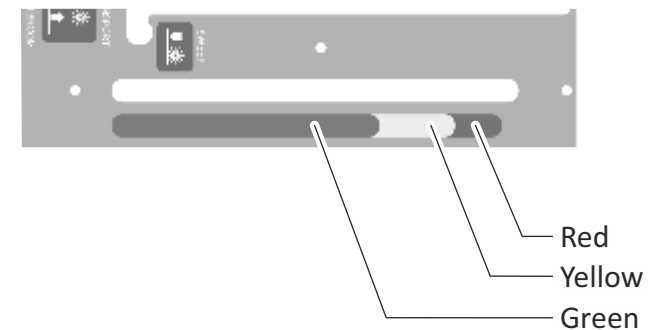
Rotate the knob counter-clockwise to release the mechanism, move the knob to the desired position, rotate clockwise to secure the position.

The purpose of this knob is to adjust the brush pressure to achieve the required cleaning intensity and also to compensate for the brush wear.

GREEN - Optimum broom available

YELLOW - Broom nearing end of its life cycle

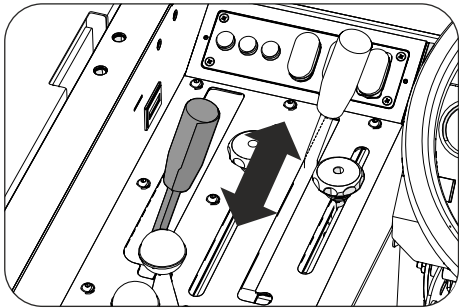
RED - Broom completely worn out - replace with new recommended spare broom.



MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

5. Main Broom Raise/Lower Lever:



The main broom can be stowed and deployed via a lever on the operator's console.

Lever position forward - To deploy (lower) the main broom push the lever.

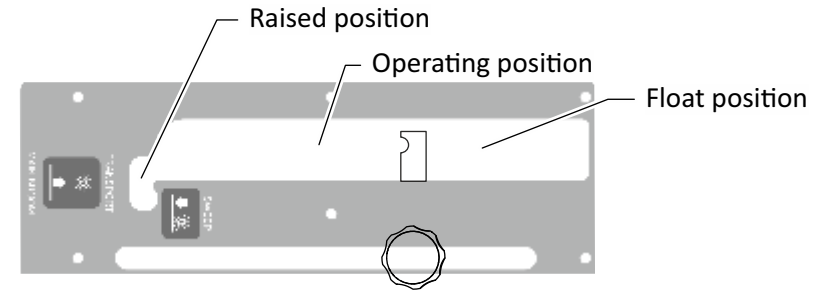


Lever position backward - To store (raise) the main broom pull the lever.

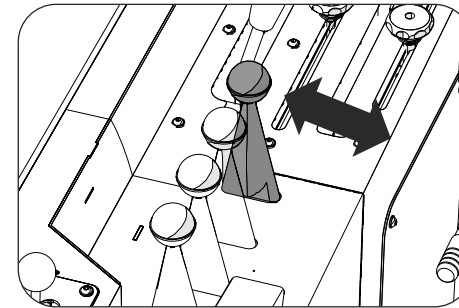


Float position - In this position the main broom floats above the sweeping surface to sweep over the uneven surfaces.

Note: Do not use this mode for a longer period of time as the brush wears out in a faster rate.



6. Main Broom & Side Broom On/Off Lever:



The main broom and side broom On/Off are controlled via a lever on the operator console.

Lever position leftward - Both main and side brooms will rotate.



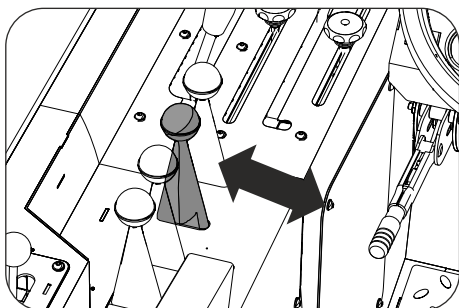
Lever position rightward - Only main broom will rotate. Side broom will be deactivated.



MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

7. Hopper Door Open/Close Lever:



The hopper door open/close are controlled via a lever on the operator console.

Lever position leftward - Hopper door open.



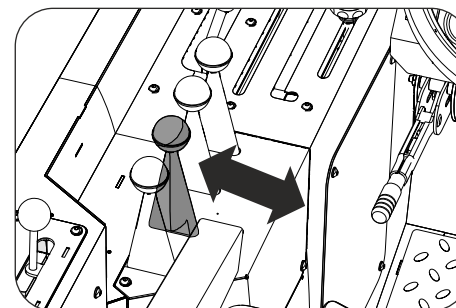
Lever position rightward - Hopper door closed.



DOOR

Note: Hopper door automatically opens during sweeping operation. Activating main broom opens the door and switching it off closes the door automatically.

8. Debris Compact System (DCS) Lever:



The debris compact system functions are controlled via a lever on the operator console. This DCS move the debris lying near the entrance of the door to the inner end of the hopper.

Lever position leftward - DCS compact mode.



Lever position rightward - DCS Off (Return to sweep mode).

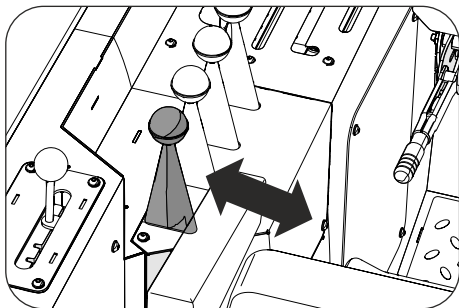


COMPACT

MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

9. Hopper Raise/Lower Lever:



The hopper raising and lowering are controlled via a lever on the operator console.

Lever position leftward - Hopper lowers.

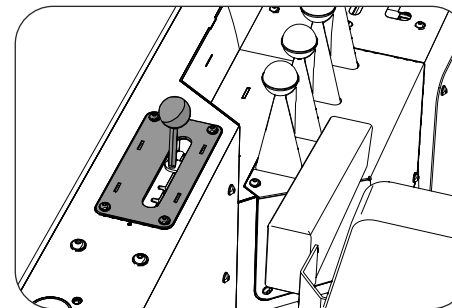


Lever position rightward - Hopper raises.



RAISE

10. Throttle Lever:



The engine speed can be controlled via a throttle lever assembly located in the operator's console. The lever is notched to set the required engine speed during the machine's operation.

The lever positions are as follows:



Used for engine/machine idle condition.



Used for normal driving and sweeping requirements.

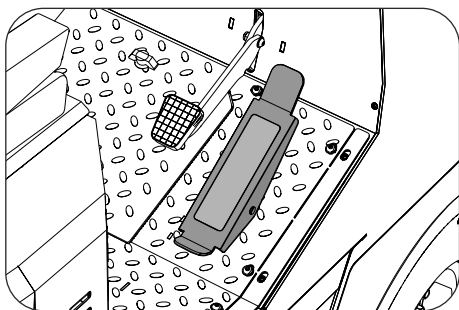


Used for driving on gradients or to sweep at a faster rate.

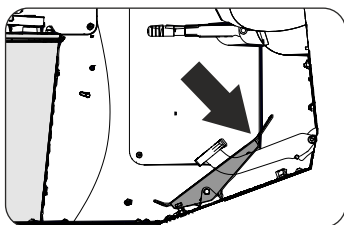
MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

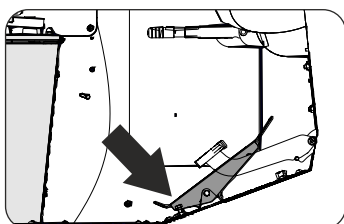
11. Direction Control Pedal:



The directional pedal controls direction of travel and the propelling speed of the machine. You change the speed of the machine with the pressure of your foot; the harder you press the faster the machine travels.

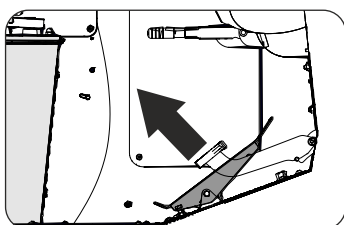


Forward: Gently press the top of the directional pedal with the toe of your foot.



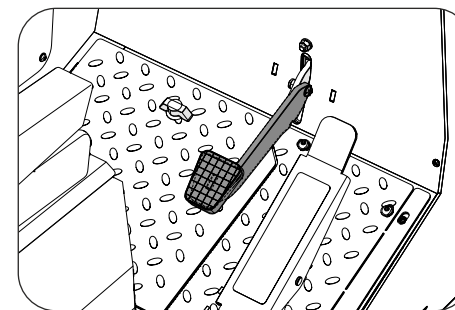
Reverse: Press the bottom of the directional pedal with the heel of your foot.

Note: It is normal by design to see the machine achieve lower speed during reversing than forward.

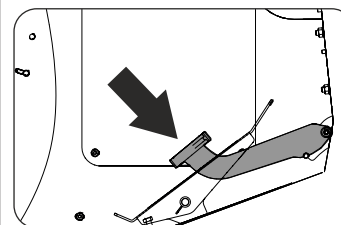


Neutral: Take your foot off the directional pedal and it will return to the neutral position.

12. Brake Pedal:



The brake pedal is used to slow or stop the machine. The brakes are located at the front wheels of the machine.



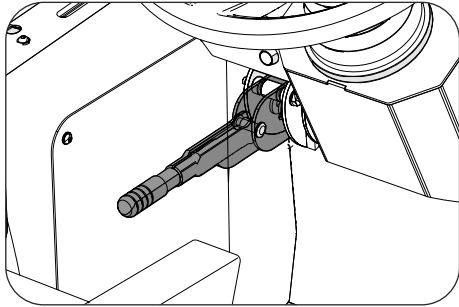
To Stop: Take your foot off the directional control pedal and let it return to the neutral position. Step on the brake pedal.

Note: For normal slowing down of the machine or coming to a stop gently, there is no need to use the brake pedal. Only in case of emergency or during climbing up or down a gradient (ramps, etc.) pressing the brake pedal may be required.

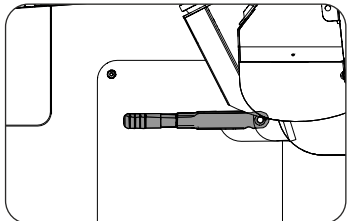
MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

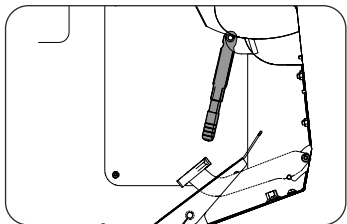
13. Parking Brake Lever:



The parking brake is used to hold the vehicle stationary when being parked after use. The parking brake lever is located below the steering column towards the left hand side.



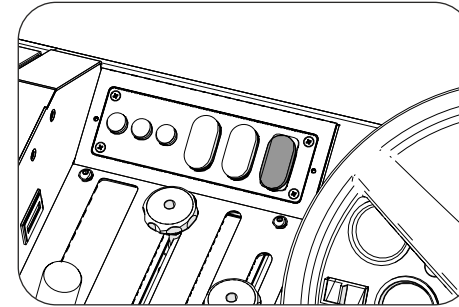
To Set: Pull the parking brake lever up.



To Release: Push the parking brake lever down.

Note: Parking brake is intended for use only after the machine has come to a complete stop. Do not use it on a moving machine unless it is an emergency.

14. Vacuum By-Pass/Filter Vibrator Switch:



The vacuum by-pass switch is used to activate the by-pass feature of the sweep mechanism to prevent any fluids entering the filters, which may cause damage.

The filter shaker switch is used to activate the vibrator motors to shake off fine dust which are held within the filter, this feature improves the filtration capacity of the filters. Shutting the vacuum by-pass during shaking improves the cleaning effectiveness.

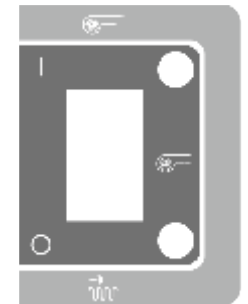
Switch position up: Vacuum by-pass On



Switch position neutral: Vacuum by-pass Off



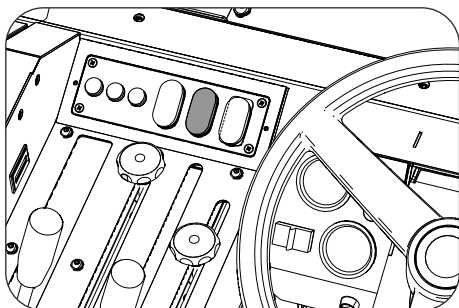
Switch position down: Filter shaker On



MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

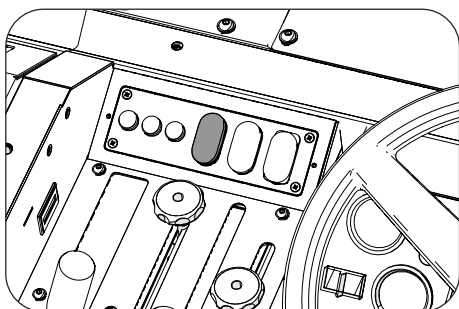
15. Headlamp Switch:



The headlamp switch is used to activate the headlamps and the taillamps of the machine.



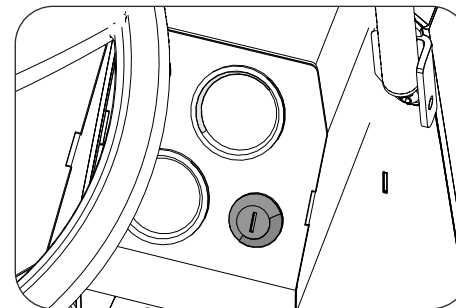
16. Warning Beacon Lamp Switch (if equipped):



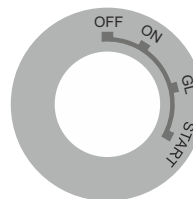
The warning beacon lamp switch is used to activate the warning beacon lamps (if equipped) which are used to warn others that the machine is in operation.



17. Ignition Key Switch for Engine Start/Stop:



The ignition key switch starts and stops the machine's engine. It is located at the right hand side of the steering wheel in the operator's console.



OFF - Engine & Electrical's are in Off condition.

ON - Electrical systems are powered up.

PRE-HEAT (GL) - Engine pre-heating begins.

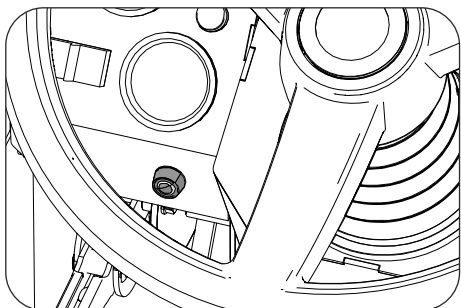
START - Engine starts. Release the key as soon as the engine starts.

Preheat (GL): Turn the key clockwise. The glow plug light will come on. Hold the key in this position for 15 to 30 seconds (till the light goes off), depending on weather conditions. Colder weather requires longer time.

MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

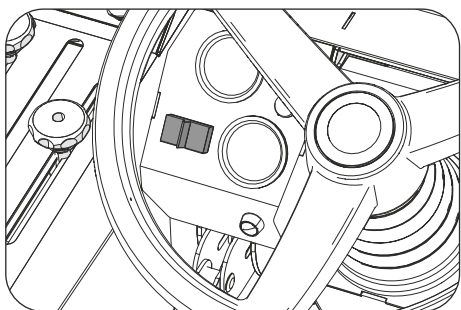
18. Horn Switch:



The horn switch is used to activate the horn. Push the switch to honk once.



19. Turn Signal Indicator Switch (if equipped):



The turn signal indicator switch is used to activate the indicator lamps located at the front and rear of the machine while turning to left or right. The blinking is indicated in the switch itself.

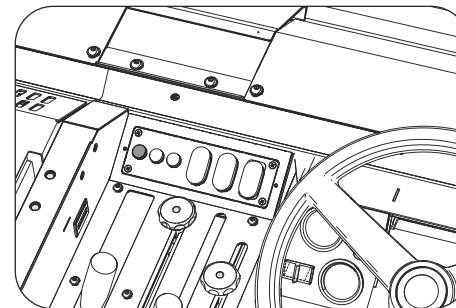


Left: Slide the switch to the left.

Right: Slide the switch to the right.

Note: There is no self cancellation feature and the operator has to switch off the indicator manually.

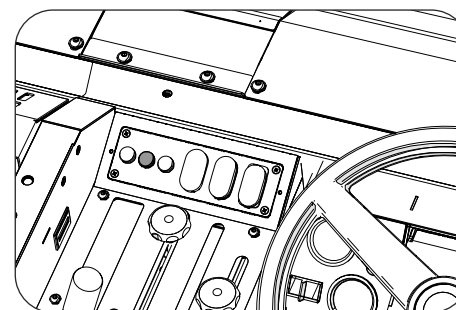
20. Fire In Hopper Indicator Lamp (if equipped):



The fire in hopper lamp glows when a fire is present inside the hopper.

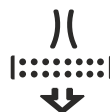


21. Filter Clog Indicator Lamp (if equipped):



The filter clog lamp glows when the filters are clogged with dust.

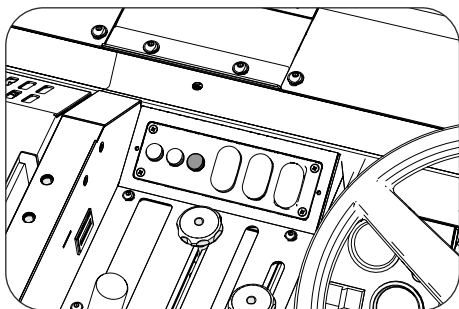
Note: Activate the filter vibrator to clear off the dust.



MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

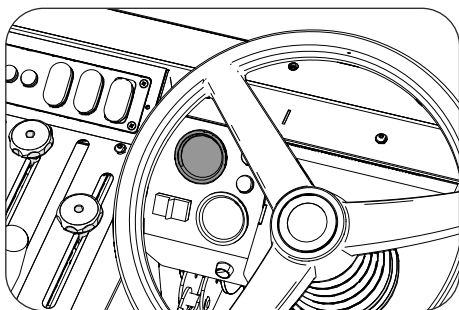
22. Parking Brake Indicator Lamp (if equipped):



The parking brake lamp glows when the parking brake is engaged to park the machine.



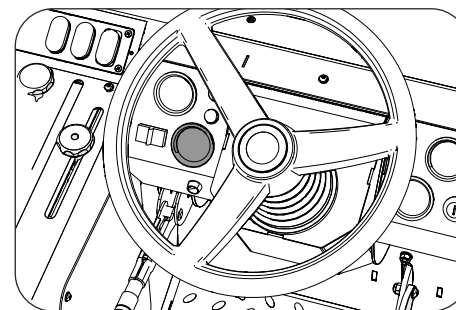
23. Engine Coolant Temperature Gauge:



The gauge shows the temperature value of the coolant. The engine will automatically shut down if the coolant temperature is more than the permitted value. Check the problem and have it corrected immediately.



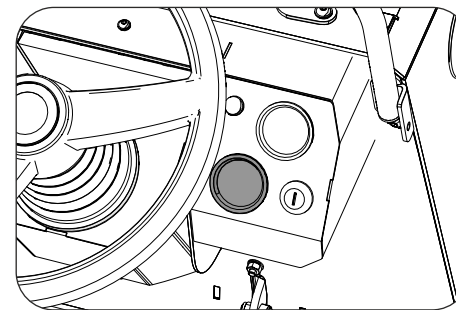
24. Engine Oil Pressure Gauge:



The engine oil pressure gauge is used to inform the operator that the engine oil pressure is higher/lower than the required operating parameter. The engine will automatically shut down if the oil pressure is lower than the permitted value. Check for the cause and correct it.



25. Fuel Gauge:



The fuel level gauge indicates how much fuel is in the tank. As the fuel tank empties, the needle moves towards the red zone of the gauge. The fuel tank is empty when the needle points at the RED marker.



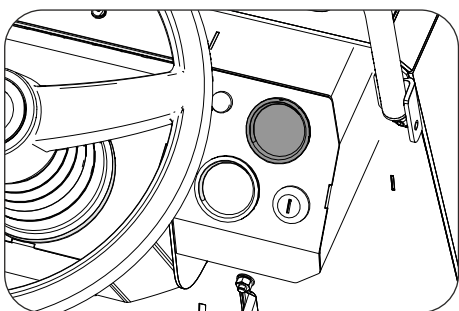
MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

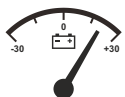


WARNING: Do not let the fuel tank empty completely. Air can enter the fuel system. The fuel system will need bleeding before the next engine start.

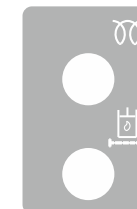
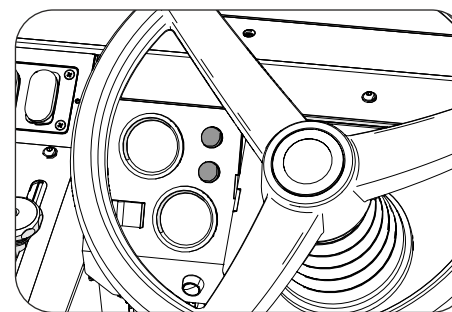
26. Battery Charging Gauge:



The ampere gauge shows the performance of the alternator. The needle will indicate -30 if the alternator is not generating enough power and the needle will indicate +30 if any of the on-board electrical equipment is drawing power.

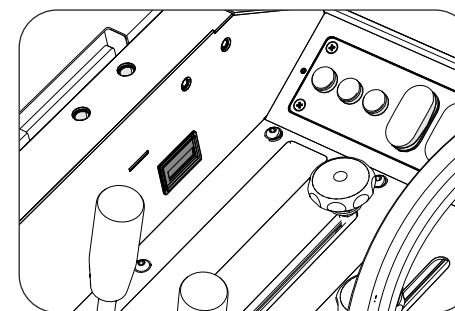


27. Glow Plug & Filter Clog Indicator Lamp:



The engine pre-heating lamp is located on the dashboard, it glows green when the engine is pre-heating. Also a filter clog indicator lamp is located in the same console to tell the operator that the hydraulic oil return line filter is clogged.

28. Hourmeter:



The hourmeter records the number of hours the machine has been operated. Use this information to determine machine maintenance intervals.

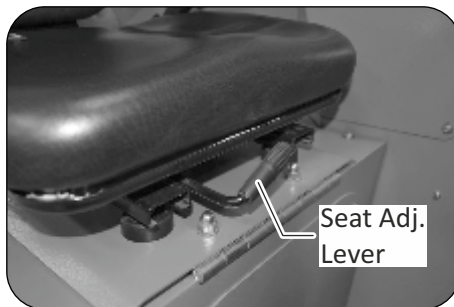
MACHINE OPERATION

CONTROLLING AND INDICATING ELEMENTS

Operator Seat:



The operator seat can be adjusted forward or backward to suite the user's height. It has two foldable armrests and a seat belt (if equipped).



Pull the lever to slide the seat in forward or backward direction.



WARNING: Do not adjust the seat while the machine is in motion.



WARNING: Do not wear or remove the seat belt while the machine is in motion.

MACHINE OPERATION

INITIAL STARTUP

Pre-Operative Checklist

- Check the engine oil level.
- Check the engine coolant level.
- Check the radiator and oil cooler fins for debris.
- Check the hydraulic oil level.
- Check the air filter indicator.
- Check the seals and skirts for wear and damage.
- Check the condition of the main/side brooms. Remove any straps, bands, ropes or other debris wrapped around them.
- Check the sweeping pattern.
- Check the hopper dust filter for blocks or damage.
- Check the hopper seals and gaskets for wear and damage.
- Check the brakes and steering for proper operation.
- Check the fuel level.
- Check if the debris hopper is empty.
- Check the air pressure if equipped with pneumatic tires.
- Check for proper function of all electrical systems.

STARTING THE MACHINE

Before starting the machine:



If applicable use the above safety devices:

1. Earmuff
2. Safety Shoes
3. Safety Gloves
4. Safety Eyewear



WARNING:

- Do not smoke while refueling or topping up fluids.
- Do not refuel or top up near open flames/fire.
- Do not refuel or top up near a hot surface.



WARNING:

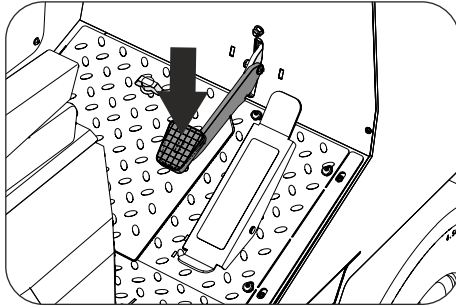
- Do not let fuel or oil to leak into the environment. Risk of contamination!

MACHINE OPERATION

DRIVING THE MACHINE

Starting:

1. Sit in operator seat, adjust seat position (if required) ensure parking brake is applied, check if the direction control pedal is in neutral position.

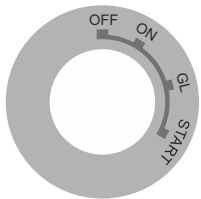


2. Throttle should be in *idle* position.



Idle engine speed

3. Turn the ignition key to GL position to initiate engine pre-heating, wait till the glow plug lamp goes off, then continue starting the engine.

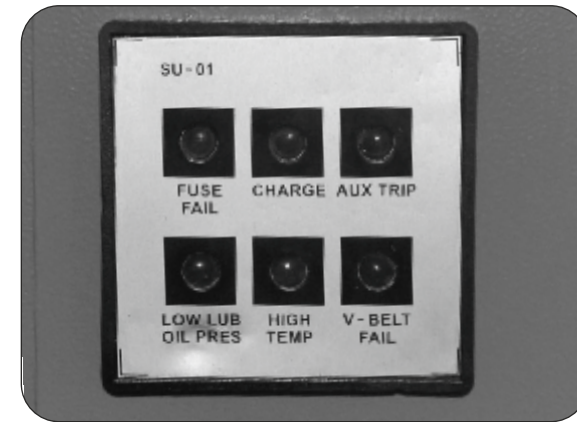


NOTE: If the engine does not start after 10 seconds, release key, wait for 1 minute and repeat the procedure again.



WARNING: This machine emits toxic gases. Severe respiratory damage can be caused. Provide sufficient ventilation.

ECU Panel



NOTE: If engine does not start in the first crank, do not continue cranking, open hood and check for any indication on the ECU panel. Switch off key and try again. If the problem persists contact an authorized service center.

4. Throttle should be in *normal sweep* position.



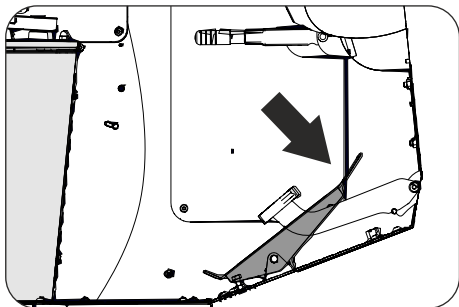
Medium engine speed

MACHINE OPERATION

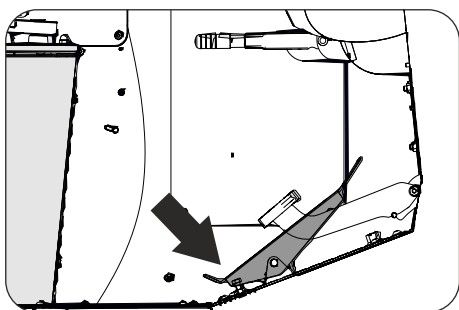
DRIVING THE MACHINE

Driving:

5. Press the directional control pedal forward to propel the machine in the forward direction.



6. Press the directional control pedal backward to propel the machine in the reverse direction.

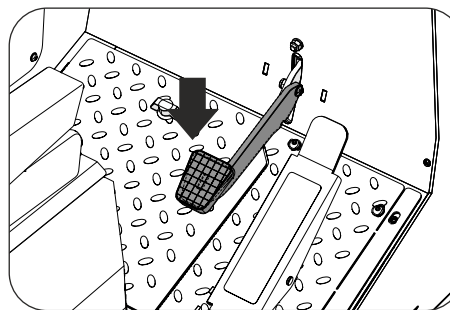


7. The speed of the machine varies with the pressure in which the directional control pedal is pressed.

Slowing & Stopping:

8. When the foot is taken off the pedal the machine will slow down and will coast to a stop.

To stop or slow the machine quickly press the brake pedal downwards and release when stopped.



WARNING: Do not press the brake pedal simultaneously while the directional control pedal is operated. It will cause damage to the hydrostatic drive system.

Driving On Inclined Surfaces:

- ☞ Drive slowly on downhill/uphill, on turns, wet grounds, ramps.
- ☞ Do not make sharp turns: machine might tip over.
- ☞ Do not adjust the driver seat while driving the machine.
- ☞ Do not drive with the hopper in raised position.
- ☞ Do not park the machine in slopes.
- ☞ Do not jack the machine in slopes.
- ☞ Do not go on a steep downhill with a filled hopper.

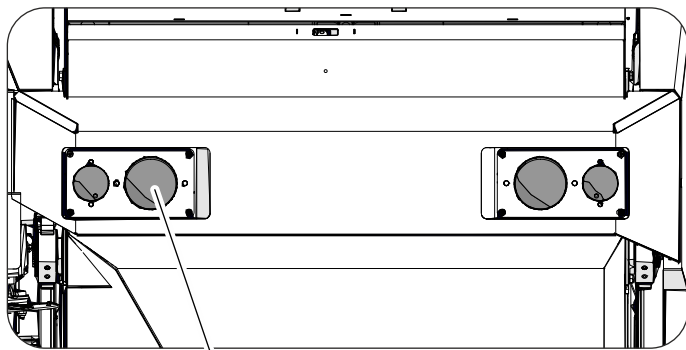
CAUTION: Exercise caution for oncoming vehicles and other equipments and stationary objects, people or animals.

MACHINE OPERATION

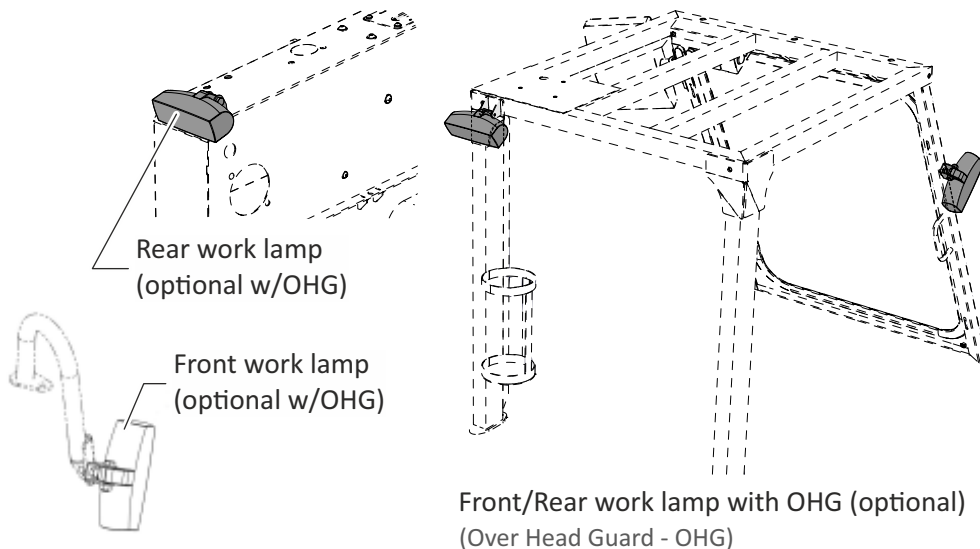
DRIVING THE MACHINE

Driving With Headlamps & Optional Work Lamps:

- Use the headlamps to provide illumination in dark or low lit areas. Use the directional indicators while turning the machine in transport mode.
 - Optional work lamps provide extra illumination on the corners/rear of the machine, they work in conjunction with the headlamps.



Headlamps



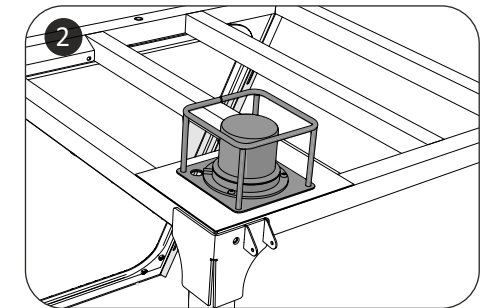
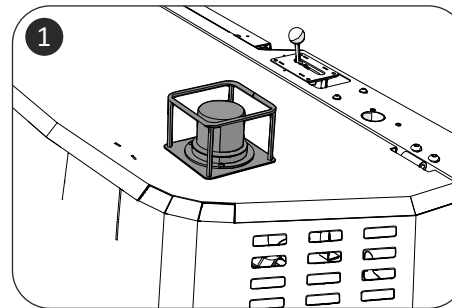
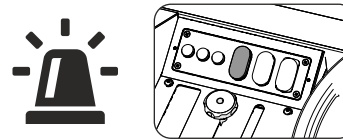
Rear work lamp
(optional w/OHG)

Front work lamp
(optional w/OHG)

Front/Rear work lamp with OHG (optional)
(Over Head Guard - OHG)

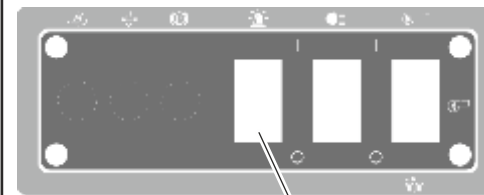
NOTE: Switch Off the headlamps and work lamps when not in use. Risk of battery drain.

- Always use the rotating warning beacon lamps (if equipped) when driving/operating the machine to warn others in the vicinity of the machine.



1. Beacon lamp placement without OHG.

2. Beacon lamp placement with OHG.



Beacon lamp switch

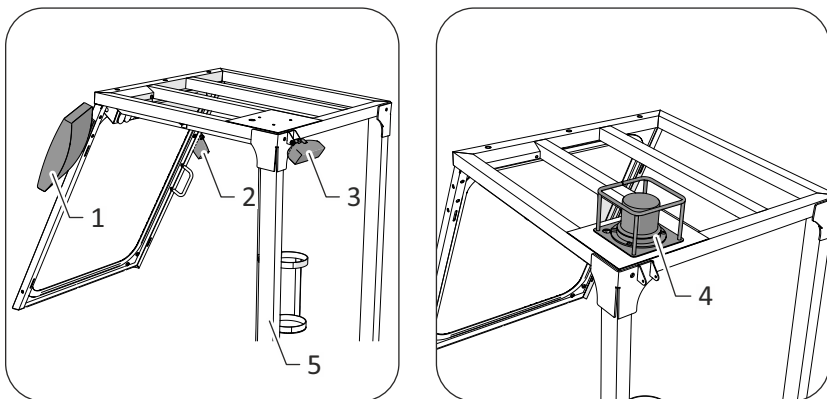
Push the switch downwards to switch on the beacon lamp.

MACHINE OPERATION

DRIVING THE MACHINE

11. The machine can be equipped with an optional **Over Head Guard (OHG)** to protect the operator from overhead falling of any debris.

The OHG can also be equipped with a Rear view mirror, Warning beacon lamp & Auxiliary LED work lamps.



1. Rear view mirror
2. Front optional work lamp
3. Rear optional work lamp
4. Warning beacon lamp
5. Over head guard (OHG)

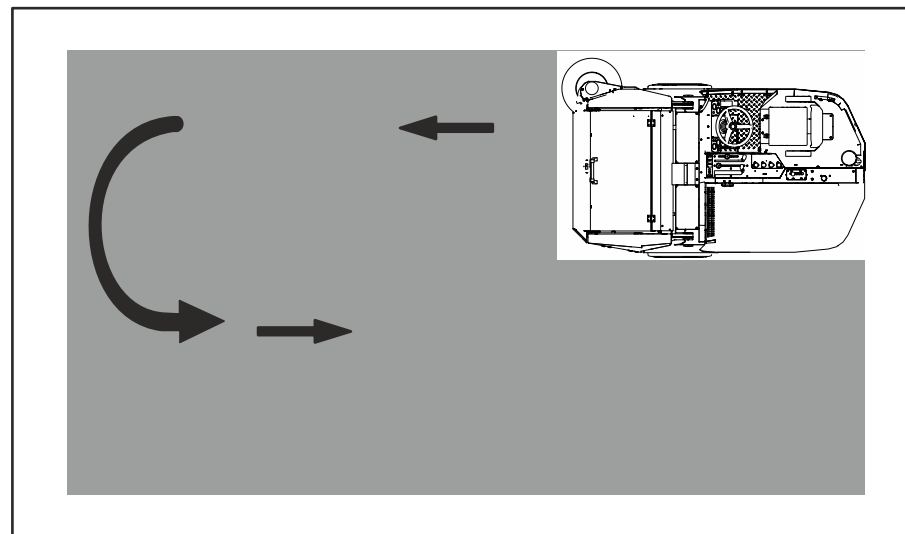
SWEEPING

Pick up oversized debris before sweeping. Flatten or remove bulky cartons from aisles before sweeping. Pick up pieces of wire, ropes, string, etc., which could become entangled in brooms.

Plan the sweeping in advance. Try to work in long runs with minimum stopping and starting. Sweep debris from very narrow aisles into main aisles ahead of time. Do an entire floor or section at one time. Sweep in a straight path as possible.

Avoid bumping into power and lamp posts or scraping the sides of the sweeper.

Avoid turning the steering wheel too sharply when the machine is in motion. The machine is very responsive to the movement of the steering wheel. Avoid sudden turns, except in emergencies.



MACHINE OPERATION

SWEEPING

Start Of Sweeping:

1. Set throttle positions as required.

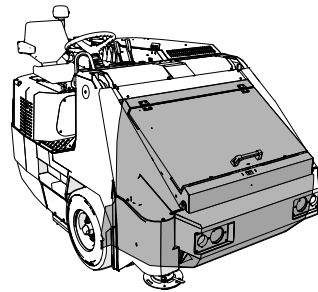
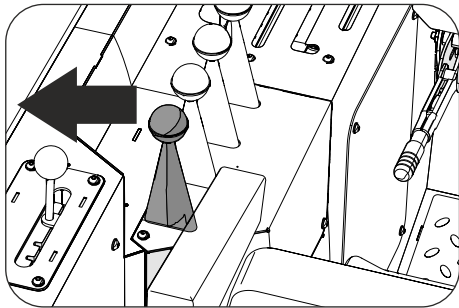


Medium engine speed - For normal flat surfaces.



Higher engine speed - For sweeping on inclined surfaces.

2. Hopper should be completely lowered.

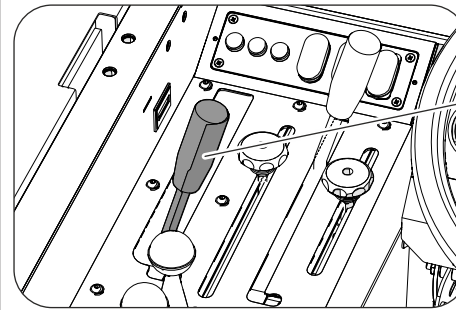


Lever position leftward - Hopper lowers.



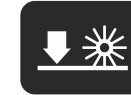
Ensure that the panel filters are clean and dry and are locked securely in their position to prevent any leakage of dust during sweeping.

3. Lower the main broom and side broom.

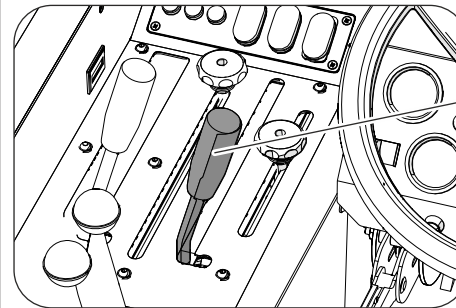


Main broom lever

SWEEP



Release the lever from the notch and push it forward to lower the main broom.



Side broom lever

SWEEP



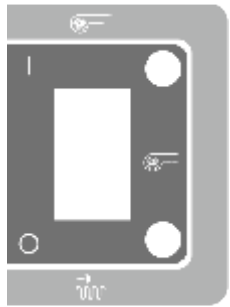
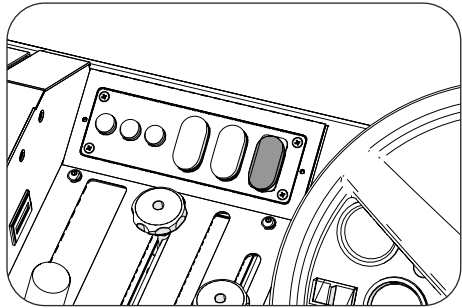
Release the lever from the notch and push it forward to lower the side broom if edge cleaning is required.

Note: In highly dusty areas, it is advisable not to use the side broom to avoid dust flying which will hamper visibility to the operator.

MACHINE OPERATION

SWEEPING

4. Ensure vacuum suction is switched On.



Push the switch upwards to activate the vacuum suction.
The vacuum suction is used to suppress the dust cloud during sweeping.
Switch off the vacuum suction when sweeping a wet surface is being swept.

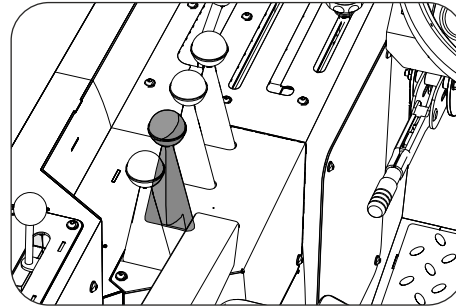
5. Sweep as needed.

Do not sweep or vacuum:

**Corrosive/Battery Fluids/Explosive/Flammable
Magnetic/Radioactive/Biohazard materials.**

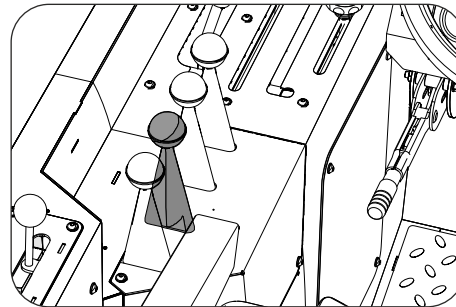


6. Activate the *Debris Compact System (DCS)* lever to move the debris from the rear entrance towards the deep inside of the hopper (compact mode).



COMPACT

7. Return the hopper to its normal position to continue sweeping (return to sweep mode).



**NORMAL
POSITION**

MACHINE OPERATION

SWEEPING

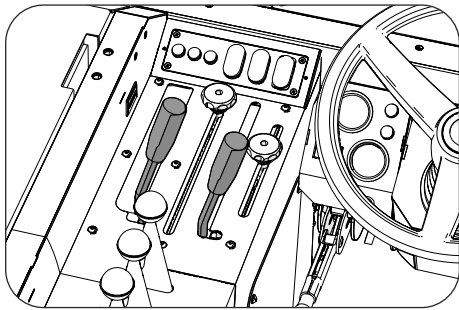
End Of Sweeping:

1. Switch Off main broom and side broom.



MB-ON & SB-OFF

2. Raise the main broom and side broom.



TRANSPORT



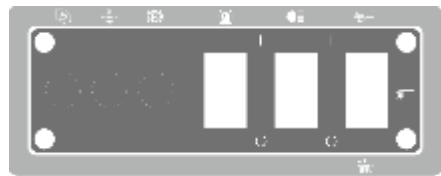
MAIN BROOM

REST



SIDE BROOM

3. Activate the filter shaker to shake off remaining debris and dust from the panel filter.

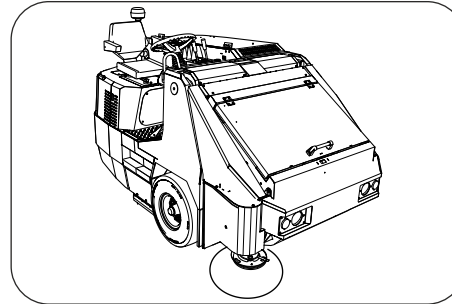


NOTE: The filter shaker switch is of a momentary type: hold down till required, release to switch off.

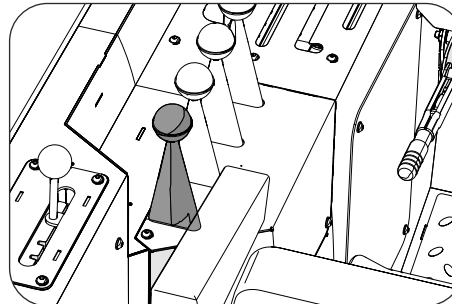
NOTE: If a timer kit is installed in the machine the filter shaker will operate for 10 seconds and shut itself off automatically, upon the switch being pressed once.

Emptying The Debris Hopper:

1. Drive the machine at a slow speed to the desired dumping area.



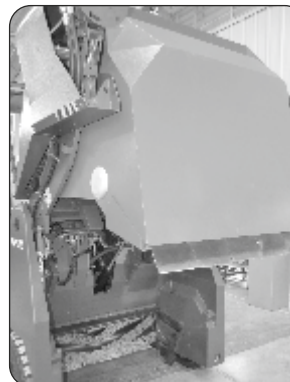
2. Raise the hopper to its dumping position.



RAISE



WARNING: Do not stand under a raised hopper.



MACHINE OPERATION

SWEEPING

3. Ensure that the hopper is in normal sweep position.



4. Open the hopper door to commence dumping of debris.



5. Close the door and lower the hopper completely.

6. Reduce throttle position to idle.



7. Switch off engine and remove key.

8. Engage parking brake.

Engaging The Hopper Safety Stopper



The safety stopper is a device used to prevent the hopper from falling down while cleaning or during maintenance works.

1. Engage parking brake.
2. Start the engine.
3. Lift hopper up completely.
4. Release the safety stopper from its retaining position.
5. Place the safety stopper in the slot provided in the chassis.
6. Lower the hopper till its locks in position.
7. Switch off the engine and remove key.



WARNING: DO NOT STAND UNDER A RAISED HOPPER WITHOUT THE SAFETY STOPPER DEPLOYED.



Safety stopper engaged

MACHINE OPERATION

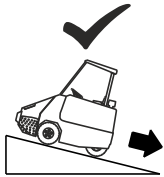
SWEEPING

Disengaging The Hopper Safety Stopper

1. Engage parking brake.
2. Start the engine.
3. Raise hopper up completely.
4. Release the safety stopper from the locked position.
5. Place the safety stopper back in its storage position.
6. Lower the hopper.
7. Switch off the engine and remove key.

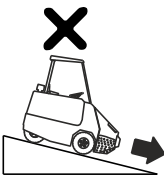
IMPORTANT SAFETY INFORMATION

ALWAYS

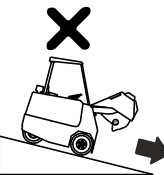


While sweeping or passing a ramp, always drive the machine with its front side facing uphill.

NEVER



Never drive the machine downhill with a full hopper, there is a chance of losing traction and stability leading to risk of accidents.



Driving downhill with a raised hopper is very dangerous and may cause the machine to tip over leading to loss of life or damage to the machine/environment.

MACHINE OPERATION

CLEANING THE DUST FILTERS

The machine is equipped with two dust filters to filter out fine dust during the sweeping operation. The dust filters have to be cleaned periodically to maintain its optimum cleaning performance.

⚠ WARNING: ENSURE THAT THE ENGINE IS SHUT DOWN BEFORE CLEANING THE DUST FILTERS

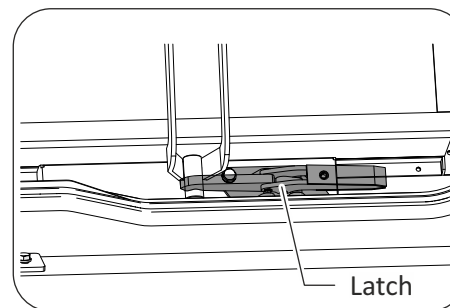
1. Open the filter hopper door: Use the lever to open the hopper filter chamber door.



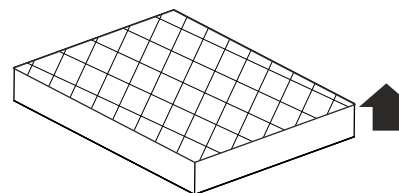
The filter vibrator assembly is attached to the door which in turn lifts upwards when the door is opened revealing the filter panels below.

⚠ CAUTION: Filter chamber door, care should be taken while opening or closing. Pinch hazard.

2. Use the latches to remove the filter holders and then to remove the filters.



3. Clean the filters using compressed air.



When placing the filter back ensure that the filter pocket face upwards.

⚠ Do not use more than 6 psi of pressure.

🌳 Do not contaminate the environment, use an appropriate cleaning chamber to dispose the dust.

⚠ *IF THE FILTERS HAVE BEEN WASHED WITH CLEAN WATER, ENSURE THAT THEY ARE COMPLETELY DRY BEFORE USING IT AGAIN.*

Always wear eye and nose protection when doing so.

👤 **👁** **🚫** **🚫** **👉** Do not smoke.

MAINTENANCE

MAINTENANCE

PREVENTIVE MAINTENANCE

Preventive Maintenance Instructions

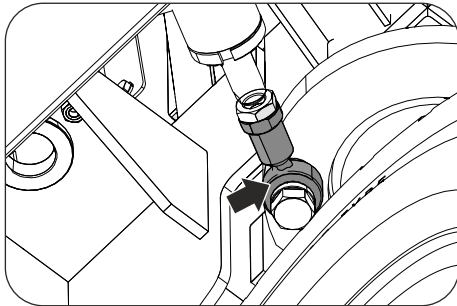
LUBRICATION

Engine:

Kindly refer the *Kubota Diesel Engine Operator's Manual* supplied along with this machine for service and maintenance of the engine.

Rear Wheel Actuator

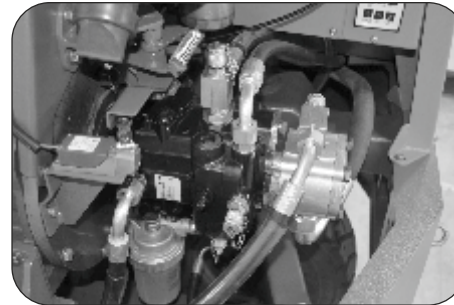
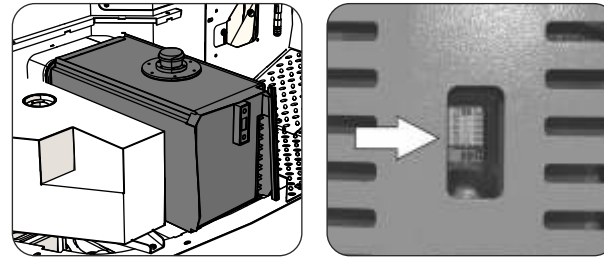
The rear wheel actuator pivots the rear wheel. The actuator has a grease fitting to lubricate the bearings.



HYDRAULICS

Hydraulic Oil Tank

The hydraulic oil tank is located below the operator seat. The hydraulic pump is located in the engine bay attached to the engine. The hydraulic oil tank has a cap with a breather assembly.



Check the hydraulic oil level at operating temperature every 100 hours of operation.

Ensure that the hopper is in completely lowered position.

The sight gauge is marked with FULL (black line) and ADD (red line) levels to indicate the level of hydraulic oil in the tank.

WARNING:



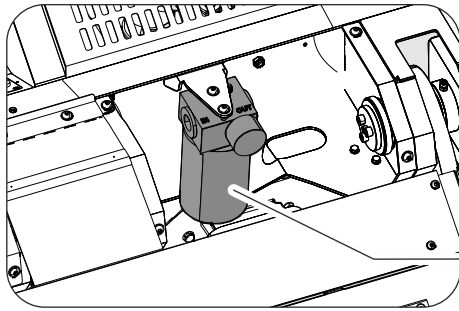
Do not overfill the hydraulic oil.

Do not operate machine with low level of hydraulic oil. Damage to the system may occur.

MAINTENANCE

PREVENTIVE MAINTENANCE

The hydraulic tank has a built in filter system to remove any dirt or debris from the oil. The return line hydraulic oil filter is located ahead of the operators cab.



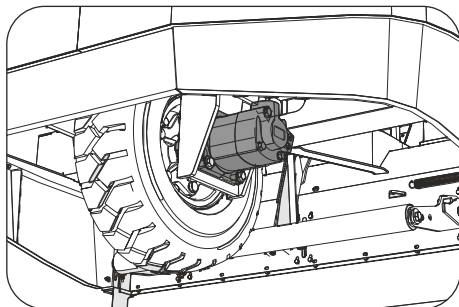
Return Line Filter

Hydraulic Hoses

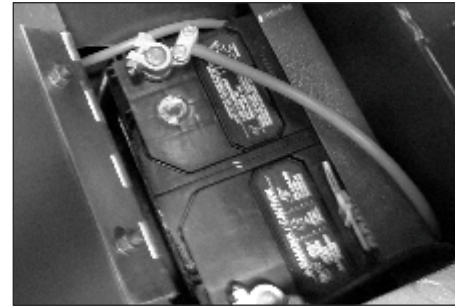
Check the hydraulic hoses for wear or damage. Pressurized hydraulic oil escaping from a small hole in the hose may lead to severe injury. Seek medical help if any injury has been caused by pressurized hydraulic oil. If any oil leak has been detected contact after sales service.

Hydraulic Traction Motor

The hydraulic drive motor should be checked for leaks. Repair the hose fittings or other parts if any damage is noted. Refusing to do so may damage the motor.

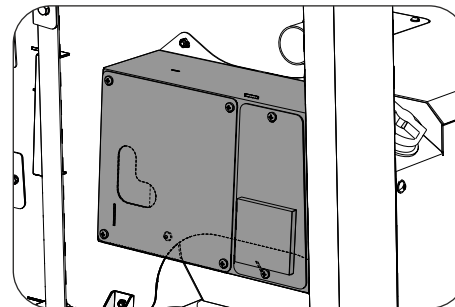


Battery



The battery is located under the foot well of the operators cab. Turn the lock to access the battery door. The battery used for this machine is a maintenance free type. Do not try to open the plugs. Do not top up the battery with water. Clean the battery and check the connections.

Electrical System

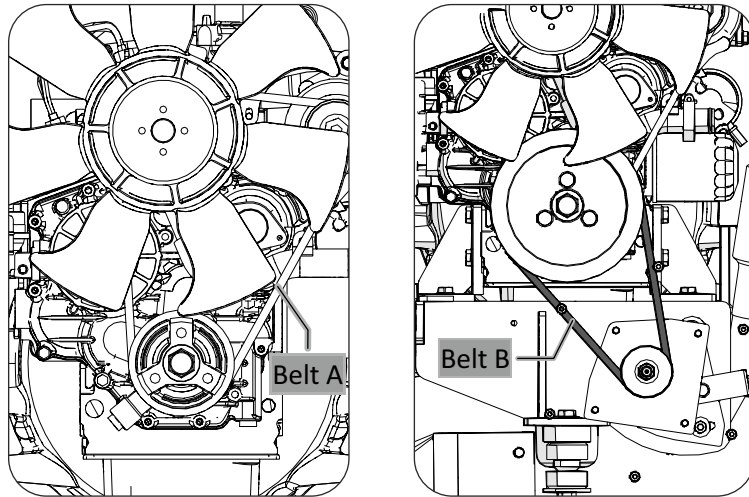


The electrical system of the machine has safety fuses to prevent any overloading or short circuit. Check the fuses.

MAINTENANCE

PREVENTIVE MAINTENANCE

Belts



The engine fan belt is driven by the engine crankshaft pulley which also drives the alternator pulley have to be checked for wear and tear. The belts also have to be checked for the correct tension setting.

⚠ WARNING: Rotating belt and fan. Keep away.

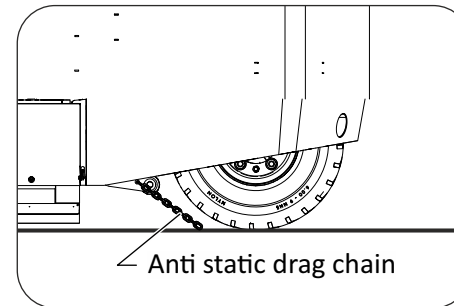
Belt tensions

Belt A - 7 to 9 mm at a load of 10 kgf

Belt B - 5 to 7 mm at a load of 2 kgf

Check and adjust belt tension.

Anti Static Drag Chain



A static drag chain prevents the buildup of static electricity in the machine. The chain is attached to the machine by a rear main brush skirt retaining bolt. Make sure the chain is touching the floor at all times.

MAINTENANCE

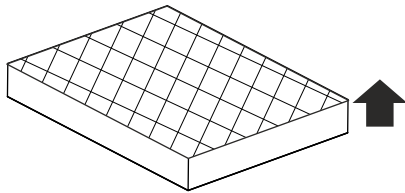
PREVENTIVE MAINTENANCE

To replace the dust filters

Before leaving the machine: park on a level surface, stop engine, engage parking brake and remove key.

1. Open the hood of the filter chamber using the latch.
2. Operate the toggle clamps to remove the filter holder.
3. Remove the old filter.
4. Replace with a new filter.
5. Secure the new filter by locking the toggle clamps.

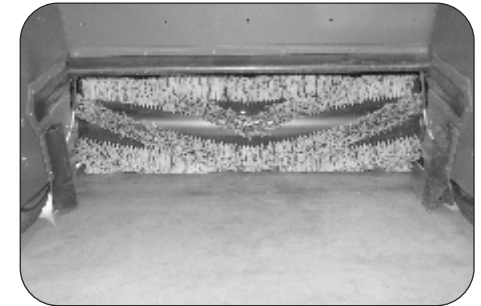
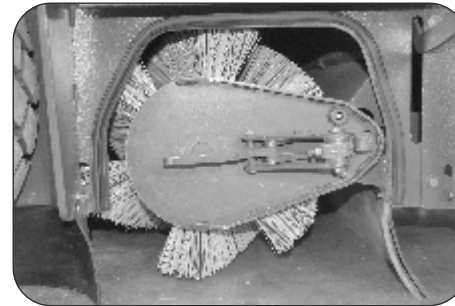
 **CAUTION: Do not drop the filter down.**



When placing the filter back ensure that the filter pocket face upwards.

BROOMS

Main Broom



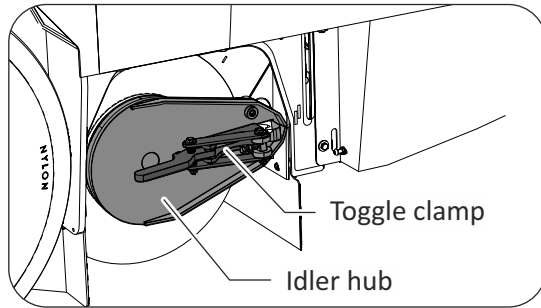
- The main broom used in the machine is of a cylindrical type and spans the width of the machine.
- The main broom sweeps the debris into the hopper.
- Check the main broom everyday for wear or damage.
- Remove any wires, ropes or strings from the main broom to avoid damage to the main broom, drive hub or other drive components.
- Adjust the main broom pressure by using the knob on the operators cab.
- Replace the broom if worn out/damaged or it no longer sweeps effectively.

To replace the main broom:

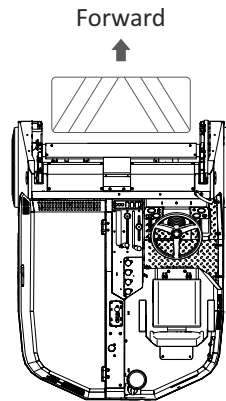
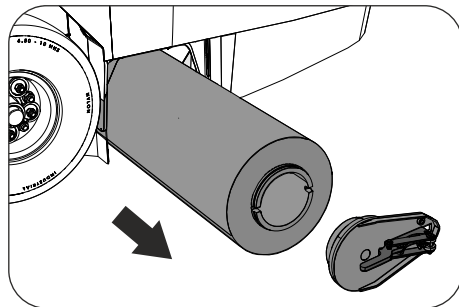
1. Park the machine on a flat surface.
2. Engage parking brake.
3. Raise the main broom.
4. Stop the engine.
5. Remove key.
6. Open the left side door of the broom compartment.

MAINTENANCE

PREVENTIVE MAINTENANCE



7. Remove the idler hub by operating the toggle clamp. *(Pull the toggle clamp towards the user).*
8. Grasp the main broom and pull it outward. **Wear safety gloves when handling the main broom.**



9. Place the new broom or the existing rotated end-to-end broom on the floor near the broom chamber access door.
10. Slide the main broom into its chamber till it engages on to the drive hub.
11. Now slide the idle side hub back in its position and secure it with the toggle clamp.
12. Close the broom chamber door.

Main broom pattern checking and adjusting

1. Apply white chalk on to a smooth surface.
2. Raise the side broom and main broom and position the main broom over the chalked surface.
3. Apply parking brake.
4. Start the main broom.
5. Lower the main broom for 15 seconds.
6. Raise the main broom
7. Stop the main broom.
8. Move machine out of the test area.
9. Check the width of the pattern. A proper broom pattern will have a width of 50 mm (2 inches).

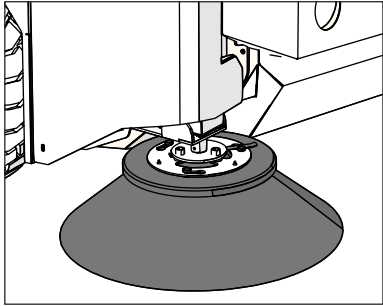


 **NOTE: Use only brooms recommended by the manufacturer.**

MAINTENANCE

PREVENTIVE MAINTENANCE

Side Broom

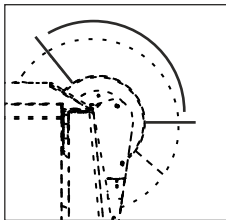


The side broom sweeps debris from the edges/corners to the path of the main broom.

Check the side broom everyday for wear or damage.

Remove any ropes, strings or wires found in the side broom or its drive hub.

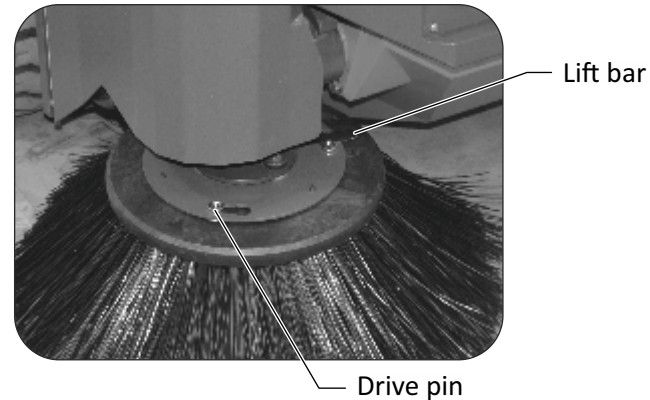
Check the pattern of the side broom everyday. It should be at 10 o'clock to 3 o'clock position when the broom rotates.



Replace worn out or damaged broom when it can no longer perform.

To replace the side broom:

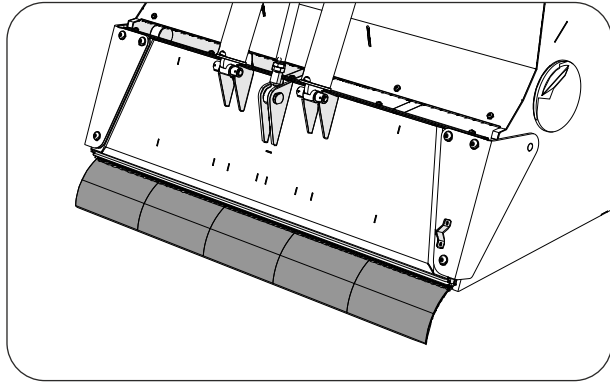
1. Park the machine on a flat surface.
2. Engage parking brake.
3. Stop the engine.
4. Rotate the side broom by hand till the lift bar is visible. Wear safety gloves.
5. Lift the bar to disengage the side broom from its drive plate.
6. Slide a new broom onto the drive plate by aligning the three drive pins to the slot on the drive plate.
7. Push the broom till it snaps on to the retaining bar.



 **NOTE: Use only brooms recommended by the manufacturer.**

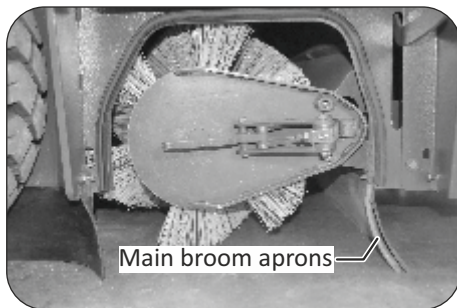
MAINTENANCE

PREVENTIVE MAINTENANCE

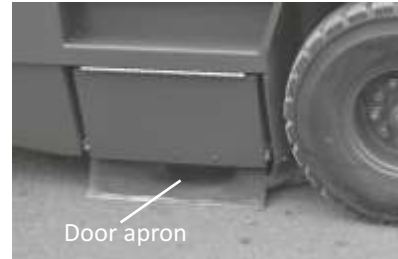


The dirt hopper aprons are located at the bottom rear of the hopper. The aprons float over the debris to direct it into the hopper. These aprons are prone to wear due to friction. Inspect these aprons everyday, replace if it is damaged to it no longer contacts the floor. The dumping door aprons are segmented ones. Inspect them for wear or damage and replace if necessary.

Main broom chamber aprons

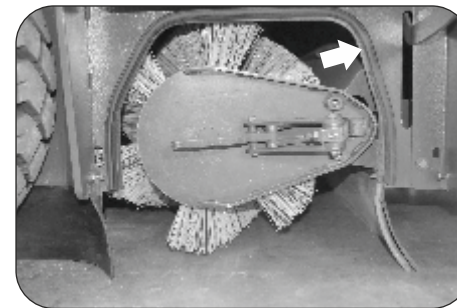


The broom chamber aprons are located on the bottom side of each door and at the rear of the main broom around the chassis. Each of these aprons will be in contact with the floor at all times. Check the aprons for wear or damage and adjust them if necessary.



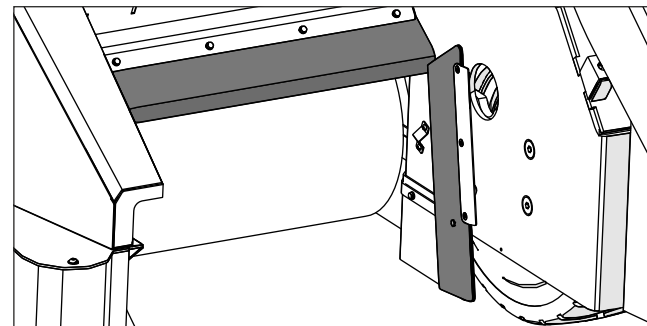
NOTE: Tire pressure will affect the apron clearance, maintain correct tire pressure at all times.

Broom door seals



The broom door seals are located on both sides of the main broom doors on the chassis. Check the seals for wear or damage and replace if necessary.

Dirt hopper seals



MAINTENANCE

PREVENTIVE MAINTENANCE

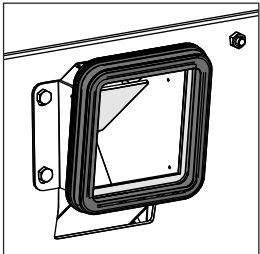
The dust hopper seals are located on both sides and bottom part of the chassis area that come in contact of the dust hopper as shown in figure. Check the seals for wear or damage and replace if necessary.

Hopper filter door seals



The hopper filter door seals are located in the hopper. They seal the hopper when the door is closed. Check the seals for wear or damage and replace if necessary.

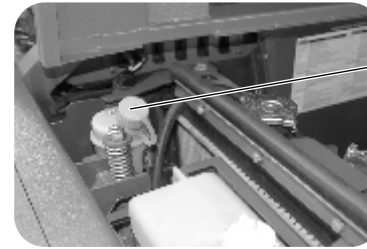
Hopper vacuum fan seal



The hopper vacuum fan seal is located on the inlet bracket. Check the seals for wear or damage and replace if necessary.

TIRES AND BRAKES

Brakes



Master Reservoir

The hydraulic brakes are located on the front wheels which are of a drum type with self adjustment. The master reservoir is located in the engine bay.

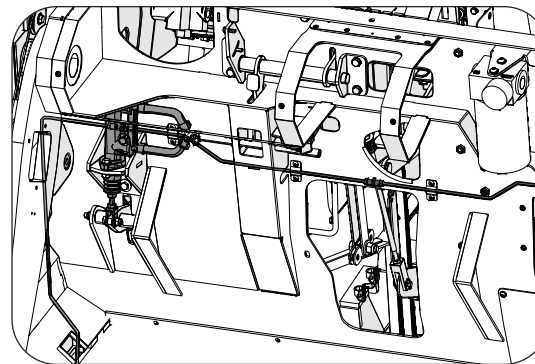


Use only approved brake fluid.



Do not spill brake fluid into the environment.

Brake fluid lines

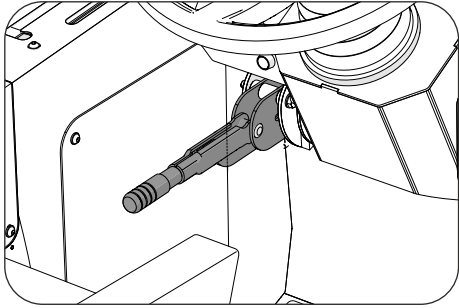


The brake fluid lines are located at the front of the machine chassis which supply brake fluid to the front brakes activated via a brake pedal cylinder. Check the fluid lines and brake pedal cylinder, replace seals if necessary, replace fluid lines if damaged.

MAINTENANCE

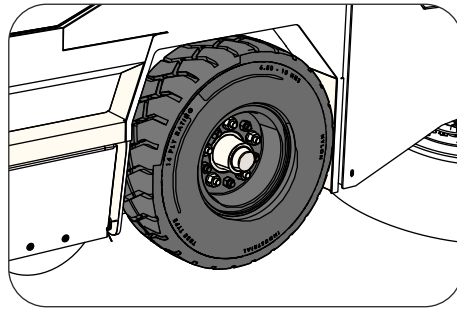
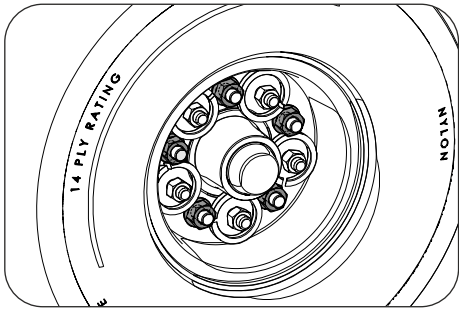
PREVENTIVE MAINTENANCE

Parking brake



Check and adjust the parking brake if it becomes easy to set, machines rolls after engaging brake.

Wheels and Tires



Ensure that the wheel bolts of front and rear wheel are tight at all times.

For pneumatic tyres equipped machine:

The proper tire pressure is 100 psi at the front and 80 psi at the rear.

PUSHING, TRANSPORTING AND TOWING THE MACHINE

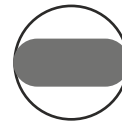
Pushing or towing the machine



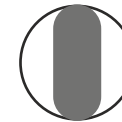
If the machine becomes disabled, it can be pushed from the front or rear of the machine.

The drive pump has a by-pass valve to prevent damage to the hydraulic system when it is being pushed or towed. For pushing or towing the machine, rotate the bypass valve plunger from horizontal position to vertical position.

Do not push or tow the machine at a high speed.



Tow off



Tow on

⚠ Do not push or tow the machine for a long distance without activating the by-pass valve.

MAINTENANCE

TRANSPORTING THE MACHINE

Transporting the machine

Transporting the machine by driving onto a truck:

1. Position the truck at the loading platform.
2. Drive the machine onto a loading platform which supports the weight of the machine.
3. Ensure that the truck is clean.
4. Ensure that the dirt hopper is empty and clean.
5. Drive the machine into the truck slowly.
6. After positioning machine in its desired position: turn off engine and engage the parking brake.
7. Place appropriate wheel blocks to prevent the machine from any movement.
8. Tie down the machine using industrial lashing straps until the machine is completely secure and no movement is found.
9. Ensure that the fuel tank is empty.
10. Remove key from the ignition.
11. Cover the machine using an industrial tarpaulin cover to protect it from the elements.



Ensure that the truck is on a level ground before loading the machine.

Transporting the machine by using a crane:

1. Position the truck on a flat surface.
2. Ensure that the truck is clean.
3. Drive the machine to the area of loading.
4. Ensure that the dirt hopper is empty and clean.
5. After positioning machine in its desired position: turn off engine and engage the parking brake.
6. Tie industrial grade lifting belts to the tie down points provided in the machine. Ensure it is secure.
7. Carefully lift and place the machine onto the truck.
8. Place appropriate wheel blocks to prevent the machine from any movement.
9. Tie down the machine using industrial lashing straps until the machine is completely secure and no movement is found.
10. Ensure that the fuel tank is empty.
11. Remove key from the ignition.
12. Cover the machine using an industrial tarpaulin cover to protect it from the elements.



Ensure that the truck is on a level ground before loading the machine.

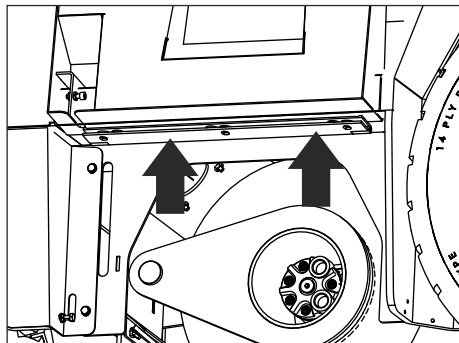
MAINTENANCE

PREVENTIVE MAINTENANCE

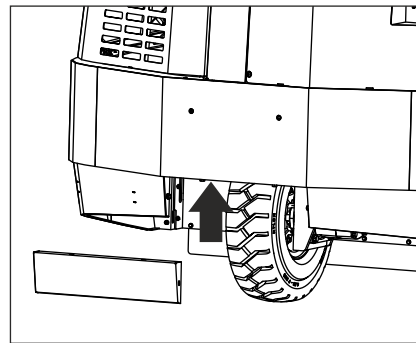
JACKING THE MACHINE

Always park the machine on a flat dry surface before jacking.
Ensure that the hopper is empty before jacking the machine.
The machine should be jacked up only using its designated jacking points, failure to do will cause damage/injury to machine or operator.
Use a jack which will support the weight of the machine.
Use jack stands to support the weight of the machine if hoisted up for a longer period of time.

The front jacking points are at the flat bottom portion of the machine which can be accessed by opening the broom chamber door.



Front



Rear

The rear jacking point is located at the middle of the rear bumper, to access it remove the rear skirt portion as in fig. Below, place a suitable jack. Use a jack stand if required.



***When servicing or changing tires,
block the tires before jacking.***



STORING THE MACHINE

If the machine has to be stored for a prolonged duration follow the below procedure:

1. Clean the machine completely to remove any dirt.
2. Clean the dust filters and hopper completely.
3. Park the machine in a dry covered place to protect it from the elements.
4. Ensure that the parking brake is engaged.
5. Drain off fuel.
6. Remove ignition key.
7. Place wheel blocks.
8. Cover the machine with an automotive grade cover and secure it.

MAINTENANCE

ELECTRICAL MAINTENANCE

Fuse Details

NOTICE

USE DESIGNATED FUSES ONLY

F1	F2	F3	F4	F5	F6	
10A	10A	10A	20A	25A	10A	
F7	F8	F9	F10	F11	F12	(OPS) 30A (NC)
40A	20A					
	(GP) 30A (NO)	(EOS) 30A (NC)				
	(VM) 30A (NO)	(SU.B) 30A (NC)				
	(L) 30A (NO)	(HR) 30A (NC)				
	(H) 30A (NO)	(AUX) 30A (NO)				

FLASHER

DPDT RELAY

- GP** - Glow Plug
- EOS** - Engine Off Solenoid
- VM** - Vibrator Motor
- SU.B** - Vacuum By-Pass
- L** - Lamps
- HR** - Hour Meter
- H** - Horn
- AUX** - Auxiliary Controls
- OPS** - Operator Presence Switch (Optional)

MAINTENANCE

MAINTENANCE TABLE

INTERVAL	MAINTENANCE AREA	THINGS TO CHECK	
Daily	Main & Side Broom	Inspect brooms for wear and damage, remove strings and debris from bristles and drive assembly if found.	
	Air intake system	Empty & clean dust cup of pre-cleaner, Check the air filter clog indicator.	
	Coolant system	Check coolant level and top up as needed.	
	Engine	Refer Kubota engine owner's manual, Check water separator visually.	
	Brake	Check brake oil level and top up as needed.	
	Hopper		Inspect the hopper aprons for wear or damage and replace as needed.
			Shake and clean hopper dust filters, replace as needed.
	Hydraulic system	Check hydraulic oil level and top up as needed.	
	Wheels and tires	Visually inspect for deflation, wear and damage. Repair or replace as needed.	
Miscellaneous	Check belts for wear, Check the hydraulic hoses and fittings visually for any leaks or damage.		
50 Hours	Main Broom	Rotate end-to-end.	
		Inspect broom chamber seals and aprons for wear and damage, adjust or replace as needed.	
		Perform main broom adjustment test and adjust as needed.	
	Hydraulic system	Check functioning of directional control pedal and adjust as needed.	
		Blow out hydraulic oil cooler fins with compressed air. (If so equipped)	
Wheels and tires	Check and tighten front & rear wheel nuts to 200 Nm torque. (For the first time only).		
100 Hours	Engine	Refer Kubota engine owner's manual.	
	Coolant system	Inspect radiator fins and clean as needed.	
	Hydraulic system	Check functioning of directional control pedal and adjust if needed.	
		Check oil level and top up as needed.	
		Blow out hydraulic oil cooler fins with compressed air. (If so equipped)	
Hopper		Inspect hopper side structure and door seals for wear or damage. Adjust or replace as needed.	
		Inspect filter frame seals for damages. Adjust or replace as needed.	

MAINTENANCE

MAINTENANCE TABLE

INTERVAL	MAINTENANCE AREA	THINGS TO CHECK
200 Hours	Engine	Refer Kubota engine owner's manual.
	Air intake system	Clean air filter. NOTE: Clean more often in dusty conditions.
		Replace air filter.
	Battery	Check water level, clean and tighten battery cable connection.
	Lubrication points	Steering Cylinder (2 fittings) Lubrication type - grease
		Door Cylinder (2 fittings) Lubrication type – grease
Hood Latches & Hinges - Lubrication type - oil		
Miscellaneous	Check anti-static drag chain on main broom counter weight for damage or excessive wear. Make sure the chain is touching the ground at all times.	
400 Hours	Engine	Refer Kubota engine owner's manual.
	Brake cylinder	Check brake oil line, oil level and top up if needed.
500 Hours	Coolant system	Drain and flush the coolant system and top up as needed.
	Side broom	Check side broom lift cable, replace if needed.
800 Hours	Hydraulic system	Clean hydraulic oil strainer and breather cap.
		Replace hydraulic oil and filter.
	Wheels and tires	Check & tighten front and rear wheel nuts. (Torque to 200 Nm)
		Check & tighten wheel motor nuts. (Torque to 640 Nm)

TROUBLESHOOTING

TROUBLESHOOTING

TROUBLESHOOTING CHART

Problem	Cause	Remedy
Engine	Refer the engine manual supplied with the machine.	
Machine creeps in neutral	Directional control pedal return spring is out of adjustment	Adjust pedal spring
Brooms do not turn or turn very slowly	Hydraulic system problem:	Refer Hydraulic System problems in this section
	Broom motor	
	Broom control valve	
	Gear pump	
	Relief valve	
Little or no vacuum in broom compartment	Filters clogged	Clean or replace filters
	Impeller failure	Check and repair
Machine moves slowly or does not move at all	Parking brake is engaged	Disengage parking brake
	Directional control pedal is jammed, or not adjusted properly	Clean the pedal, adjust linkage
	Tires skidding from contact with slippery surfaces	Clean tires
	Wheels jammed	Clear jam
	Low hydraulic oil level	Top up hydraulic oil
	Damaged or worn drive motor	Replace damaged part
Poor dust control	Debris or duct in impeller inlet	Clean the inlet
	Broom aprons or seals worn	Replace aprons
	Apron clearance from floor exceeds 1/8"	Adjust clearance
	Dust filters clogged	Clean dust filters
	Filter seals worn	Replace seals
	Poor seal with vacuum gasket	Check and adjust
Machine leaves debris	Dirt hopper is full	Empty hopper
	Broom(s) out of adjustment	Adjust them
	Broom bristles worn	Replace broom(s)
	Broom drive performance poor	Check drive system
	Dirt hopper flaps are damaged or missing	Adjust or replace
	Dirt hopper misaligned	Check alignment
	Dust filters clogged	Clean filters

TROUBLESHOOTING

TROUBLESHOOTING CHART

Problem	Cause	Remedy
Dirt hopper does not raise or lower	Hydraulic system problem:	Refer Hydraulic System problems in this section
	Control valve	
	Gear pump	
	Lift cylinder	
	Relief valve	
Dirt hopper lift cylinder failure	Line to cylinder leak	Tighten fittings or replace hose
	Piston seals leaking	Replace seals
	Bent piston rod	Replace cylinder rod
Dirt hopper does not rotate or rotates slowly	Dirt hopper load too heavy	Dump frequently
	Hydraulic system problem:	Refer Hydraulic System problems in this section
	Control valve	
	Gear pump	
	Lift cylinder	
	Relief valve	
Hydraulic control valve failure	Foreign matter in spool bore	Remove spool and clean
	Valve seals leaking	Replace seals
	O-Ring damaged	Replace O-Ring
	Relief valve stuck	Replace relief valve
Hydraulic motor failure	Motor leaking	Replace seals/gaskets
	Output shaft malfunction	Replace output shaft
Hydraulic gear pump failure	Pump leak	Replace seals or pump
	Gears worn out	Rebuild pump
Hydraulic gear pump failure	Relief valve stuck	Clean or replace
	Low oil supply	Top up oil
	Clogged oil filter	Clean filter
	Incorrect oil	Use recommended oil
	Damage due to entry of air into the hydraulic system	Maintain correct level in hydraulic tank. Keep all hose fittings tight.

TROUBLESHOOTING

TROUBLESHOOTING CHART

Problem	Cause	Remedy
Hydraulic variable displacement pump failure	Pump leaking	Replace seals/gaskets
	Relief valve(s) stuck	Clean or repalce
	Drive coupling malfunction	Replace coupling
	Pump gears worn or damaged	Replace gears or pump
	Damage due to entry of air into the hydraulic system	Maintain correct level in hydraulic tank. Keep all hose fittings tight.
Hydraulic system noisy	Air in system	Maintain correct level in hydraulic tank. Keep all hose fittings tight.
	Relief valve dirty or damaged	Clean or repalce
	Loose suction line	Tighten fittings
	Clogged filter or pump inlet	Clean or replace filter or line
	Internal pump or motor damaged	Check and repair

DO'S & DON'T'S

DO'S & DON'T'S

DO'S

- ✓ Always use the machine only on a level flat surface.
- ✓ Use the machine to collect only dry debris.
- ✓ Check the machine visually for any damage before the start of the shift.
- ✓ Check the machine visually for any fluid leak before the start of the shift.
- ✓ The operator must have read the user manual completely before operating the machine.
- ✓ The operator must be always cautious while driving the machine.
- ✓ The warning beacon must be switched ON before driving the machine (if equipped).
- ✓ Always use the turn signal indicators before negotiating a turn.
- ✓ Always have an eye on the gauges for any abnormal warnings.
- ✓ Use the headlamps while operating the machine at night or during the day with poor visibility during fog.
- ✓ Check the air pressure in the pneumatic tyres to avoid tyre and brush wear.
- ✓ Use the filter shaker at regular intervals for efficient filtration of dust.
- ✓ Use the side broom only during sweeping corners or curbs.
- ✓ Store the machine only in a covered garage.
- ✓ Only authorized service engineers should perform maintenance tasks on the machine.
- ✓ Always use only genuine spares.

DON'T'S

- ✗ Do not drive the machine in bad roads.
- ✗ Do not leave the ignition key in the machine when not in use or during service.
- ✗ Do not collect hazardous materials.
- ✗ Do not use the machine to transport people.
- ✗ Do not use the machine to transport goods.
- ✗ Do not use the machine as a platform to access overhead areas.
- ✗ Do not use the machine to push/pull other equipments.
- ✗ Do not drive the machine with the foot on the brake pedal.
- ✗ Do not drive the machine with the hopper raised.
- ✗ Do not drive the machine with low diesel fuel or low hydraulic fluid.
- ✗ Do not transport the machine with the main broom lowered.
- ✗ Do not operate the machine with a wet filter.
- ✗ Do not make sudden and sharp turns.
- ✗ Do not operate the machine on a gradient or slope higher than that of the recommended value.

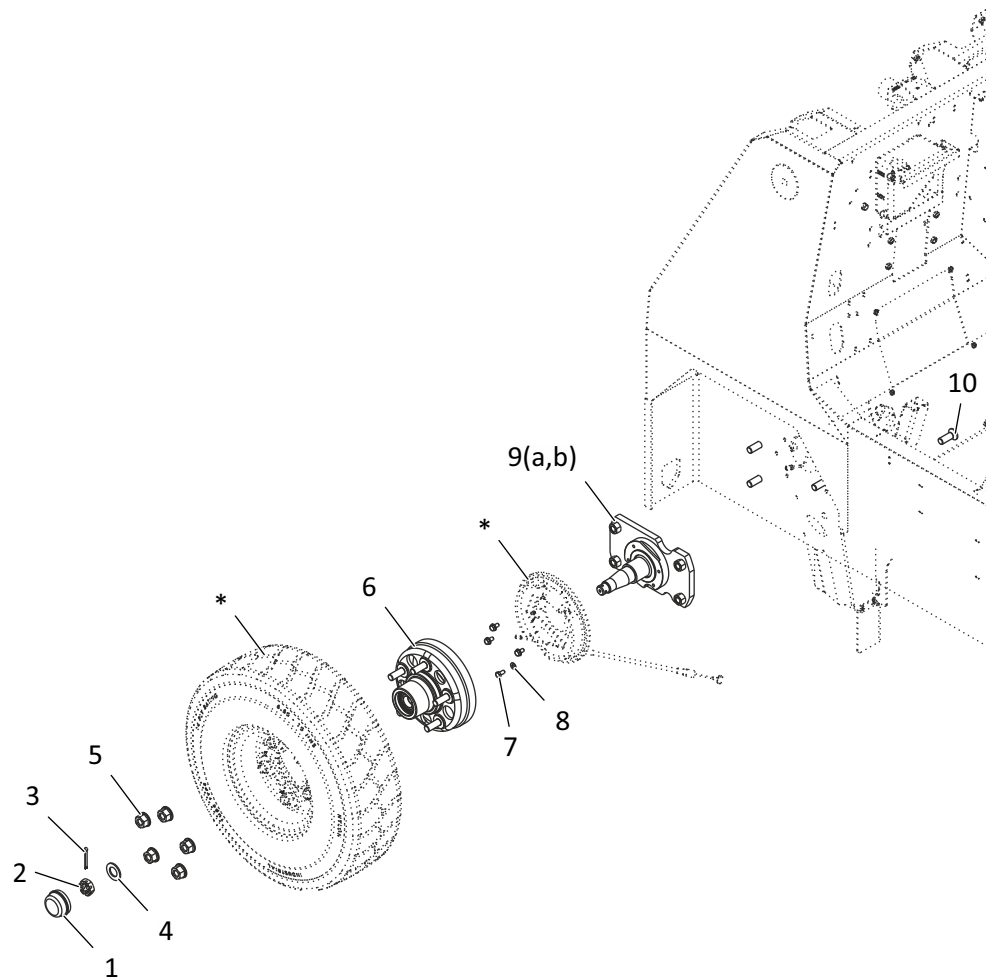
OPERATOR NOTES

OPERATOR NOTES

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ILLUSTRATED PARTS LIST

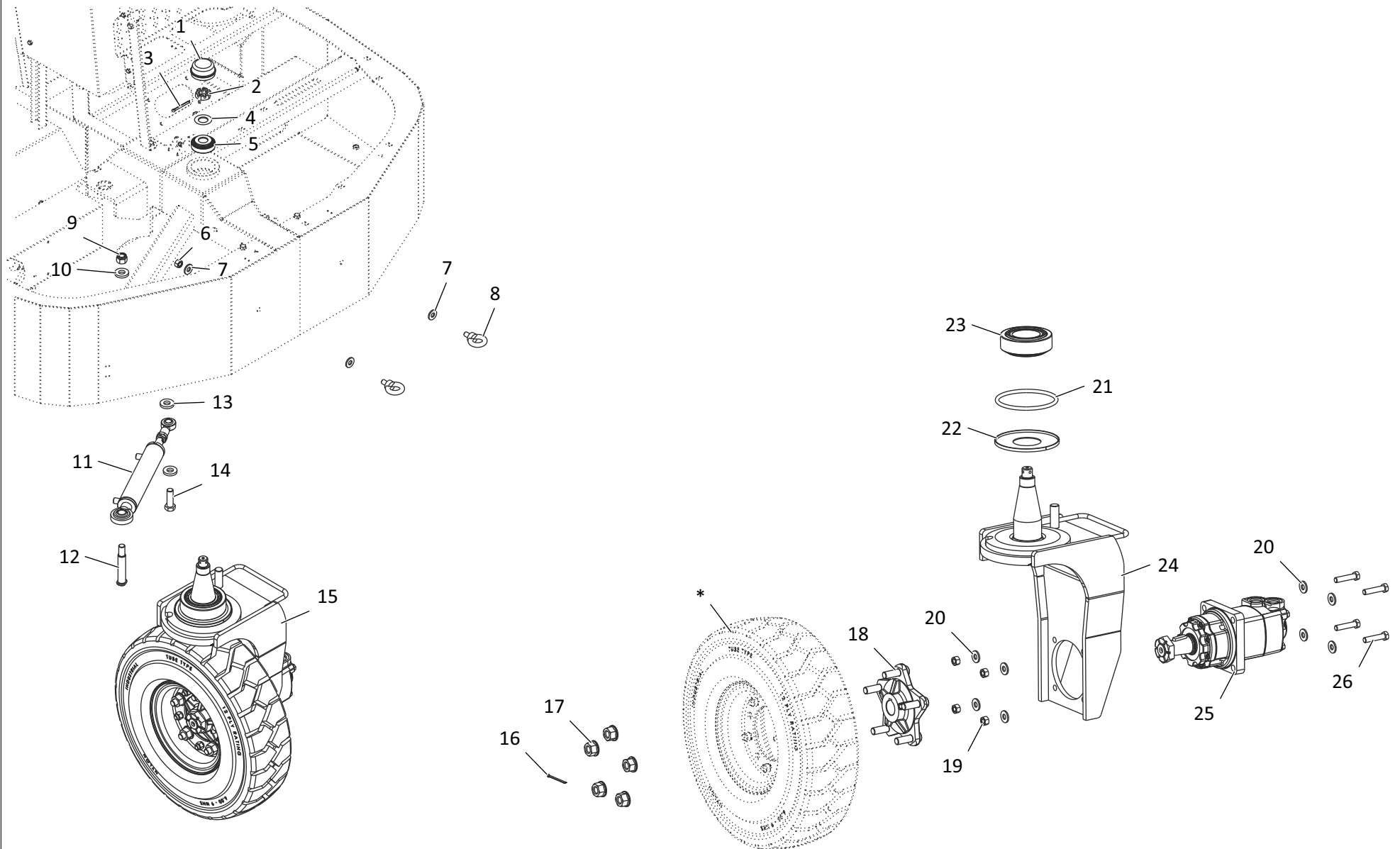
CHASSIS - FRONT WHEEL GROUP



REF. NO.	PART NO	DESCRIPTON	QTY
1	558440023-00	CAP - BEARING	2
2	553440022-00	SLOTTED NUT - M24 X 2P	2
3	552330010-00	COTTER PIN - STEEL 5x 50	2
4	553440394-00	SPECIAL WASHER - 25 X 45 X 3	2
5	553440021-00	NUT-WHEEL (M16)	10
6	558440014-00	HUB ASSY - FRONT	2
7	552850008-00	HEX HEAD SCREW STEEL - 8.8 M8 X 16	8
8	552850203-00	WASHER - EN8 - 8.4x17x1.6	8
9a	558440010-00	AXLE ASSY - LH	1
9b	558440006-00	AXLE ASSY - RH	1
10	552850501-00	HEX SOC CSK HD SCREW - M16x45	8

Note: "*" kindly refer the accessories section in this manual for more details.

CHASSIS - REAR WHEEL GROUP



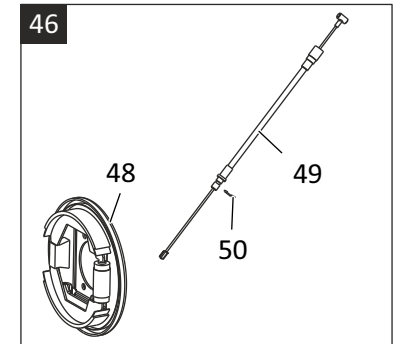
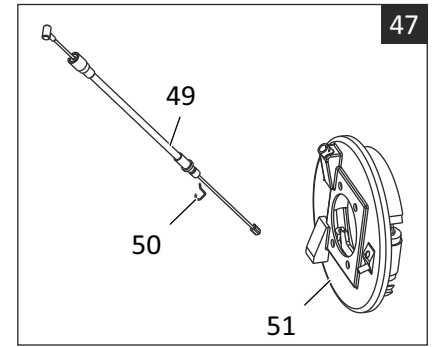
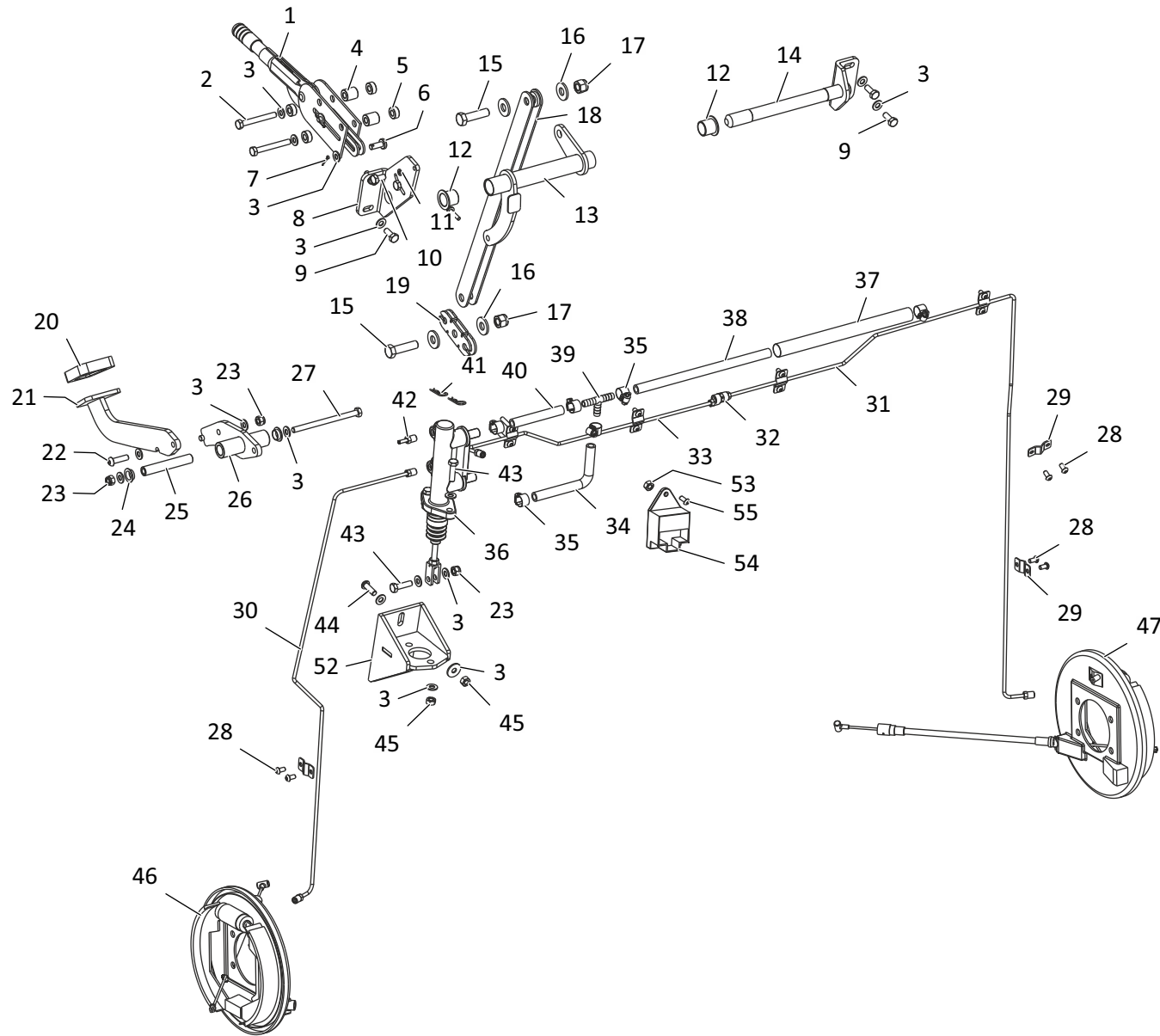
Note: "*" kindly refer the accessories section in this manual for more details.

CHASSIS - REAR WHEEL GROUP

REF. NO.	PART NO	DESCRIPTON	QTY
1	558440023-00	CAP - BEARING	1
2	553440022-00	SLOTTED NUT - M24 X 2P	1
3	552330010-00	COTTER PIN - STEEL 5x 50	1
4	553440394-00	SPECIAL WASHER - 25 X 45 X 3	2
5	552610040-00	TAPER ROLLER BEARING 32007	1
6	552850804-00	HEX NUT - STEEL GR. 8 - M12	2
7	552850207-00	WASHER - EN8 - 12.5x28x3	4
8	553441252-00	EYE BOLT - MACHINE LIFTING M12 X 1.75	2
9	552480015-00	HEX NYLOCK NUT STEEL M16	1
10	553440642-00	CYLINDER WASHER - 17 X 36 X 6	1
11	553440065-00	CYLINDER - STEERING	1
12	553442176-00	REAR END PIN STEERING CYL	1
13	553442177-00	SPECIAL WASHER - 16.2 X 28 X 6	2

REF. NO.	PART NO	DESCRIPTON	QTY
14	552850046-00	HEX HD SCREW ST 10.9 -M16 X 50 Zn Green	1
15	558441022-00	WHEEL ASSY - REAR AXLE	1
16	552330015-00	COTTER PIN - STEEL - 4 X 63	1
17	553440021-00	NUT-WHEEL (M16)	5
18	558440046-00	HUB ASSY - REAR	1
19	552850804-00	HEX NUT - STEEL GR. 8 - M12	4
20	552850207-00	WASHER - EN8 - 12.5x28x3	8
21	552430039-00	O' RING - 130 X 8	1
22	558440035-00	GUIDE WELDMENT - O RING	1
23	552610059-00	TAPER ROLLER BEARING 33213	1
24	558441032-00	HOUSING ASSY REAR AXLE WMT	1
25	553440029-00	MOTOR -WHEEL	1
26	552850021-00	HEX HEAD SCREW STEEL - 8.8 M12 X 55	4

CHASSIS - BRAKE GROUP

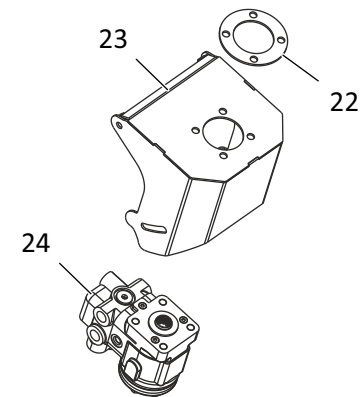
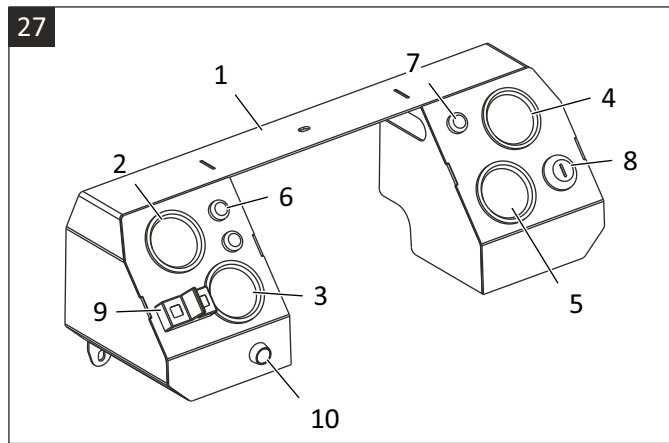
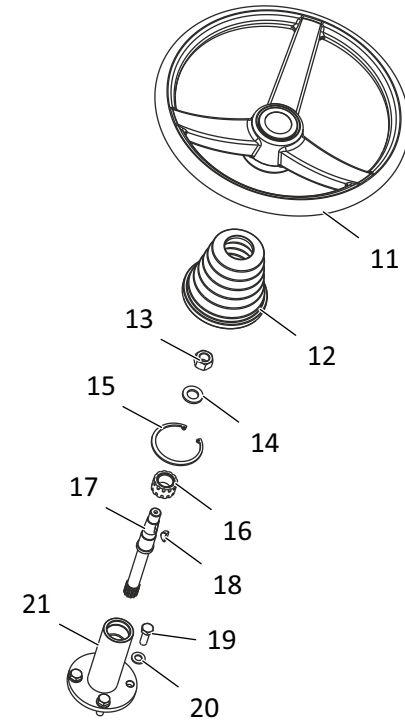
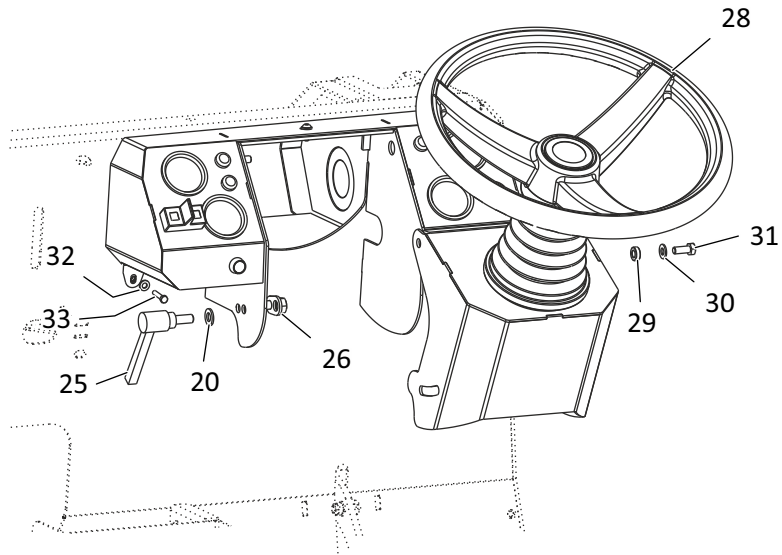


CHASSIS - BRAKE GROUP

REF. NO.	PART NO	DESCRIPTON	QTY
1	558440231-00	PARKING BRAKE LEVER ASSY	1
2	552020020-00	HEX HEAD SCREW - STEEL 8.8 - M8X65	2
3	552850203-00	WASHER - EN8 - 8.4x17x1.6	19
4	553440276-00	SPACER BUSH - 20L - HAND BRAKE	2
5	553442396-00	SPACER BUSH - HAND BRAKE ASSY	4
6	553442181-00	PIN PARKING BRAKE ASSY	1
7	552330003-00	COTTER PIN - STEEL - 2X16	1
8	553442377-00	MTG BKT - HAND BRAKE INDICATOR	1
9	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	2
10	552850008-00	HEX HEAD SCREW STEEL - 8.8 M8 X 16	17
11	552350008-00	WASHER-STEEL-5.3X10X1	2
12	552610066-00	IGUS BEARING - IGLIDUR GFM 2023-21	2
13	558441035-00	TUBE WMT - HAND BRAKE	1
14	558440153-00	ROD WELDMENT - HAND BRAKE	1
15	552850038-00	HEX HEAD SCREW STEEL - 8.8 M12 X 45	2
16	552850207-00	WASHER - EN8 - 12.5x28x3	4
17	552480014-00	HEX NYLOCK NUT STEEL M12	2
18	558441036-00	LINK LONG WMT - CABLE EXTENSION	2
19	558441037-00	EQUALISER WMT	1
20	553440294-00	RUBBER PAD - FOOT PEDAL	1
21	558441039-00	LEVER BRAKE WMT - FOOT PEDAL	1
22	552850909-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 30	1
23	552480008-00	HEX NYLOCK NUT STEEL -M8	3
24	552610065-00	IGUS BEARING - IGLIDUR GFM 1416-06	2
25	553440289-00	SLEEVE - FOOT PEDAL	1
26	558441038-00	LEVER INNER WMT - FOOT PEDAL	1
27	552850024-00	HEX HEAD SCREW STEEL - 8.8 M8 X 120	1

REF. NO.	PART NO	DESCRIPTON	QTY
28	552850901-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 12	10
29	553440066-00	CLAPM - BRAKE TUBE	7
30	558440048-00	BRAKE TUBE ASSY - RH	1
31	558441107-00	BRAKE TUBE ASSY LH WHEEL END	1
32	553442426-00	CONNECTOR - BRAKE METAL PIPE	1
33	558441108-00	BRAKE TUBE ASSY LH CYL END	1
34	553443065-00	HOSE LONG - BRAKE LINE CYL END	1
35	552670160-00	HOSE CLAMP 10-16	6
36	553440280-00	MASTER CYL - FOOT BRAKE	1
37	553442941-00	PVC HOSE (BRAKE) - 730MM	1
38	553441270-00	BRAKE LINE INLET OUTLET HOSE	1
39	553350473-00	T JOINT-NOZZLE	1
40	553442431-00	HOSE - BRAKE LINE CYL END	1
41	553320110-00	LINCH PIN	2
42	558441361-00	BRAKE TUBE WMT - DUMMY	1
43	552850011-00	HEX HEAD SCREW STEEL - 8.8 M8 X 30	3
44	552850010-00	HEX HEAD SCREW STEEL - 8.8 M8 X 25	2
45	552850802-00	HEX NUT - STEEL GR. 8 - M8	4
46	558440229-00	BRAKE SHOE ASSY - RH	1
47	558440228-00	BRAKE SHOE ASSY - LH	1
48	553440001-00	BRAKE SHOE KIT - RH	1
49	553440003-00	CABLE ASSY - BRAKE	2
50	553440005-00	CLIP - CABLE RETENSION - WHEEL SIDE	2
51	553440002-00	BRAKE SHOE KIT - LH	1
52	558440166-00	MOUNT WELDMENT - BRAKE CYL	1
53	552850801-00	HEX NUT - STEEL GR. 8 - M6	1
54	553442930-00	LAMP TIMER KUBOTA	1
55	552850904-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 25	1

CHASSIS - DASHBOARD & STEERING GROUP

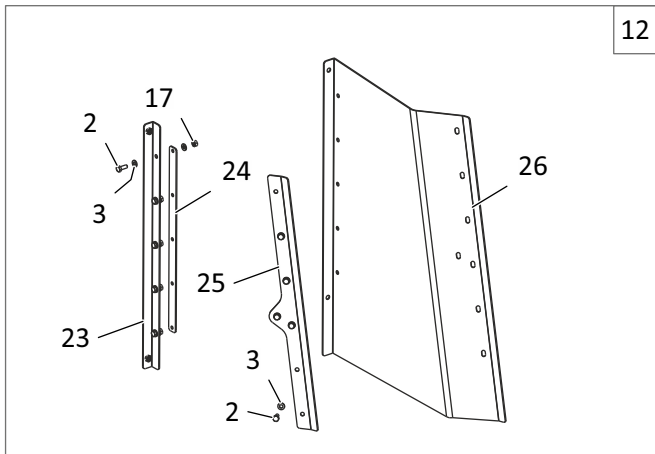
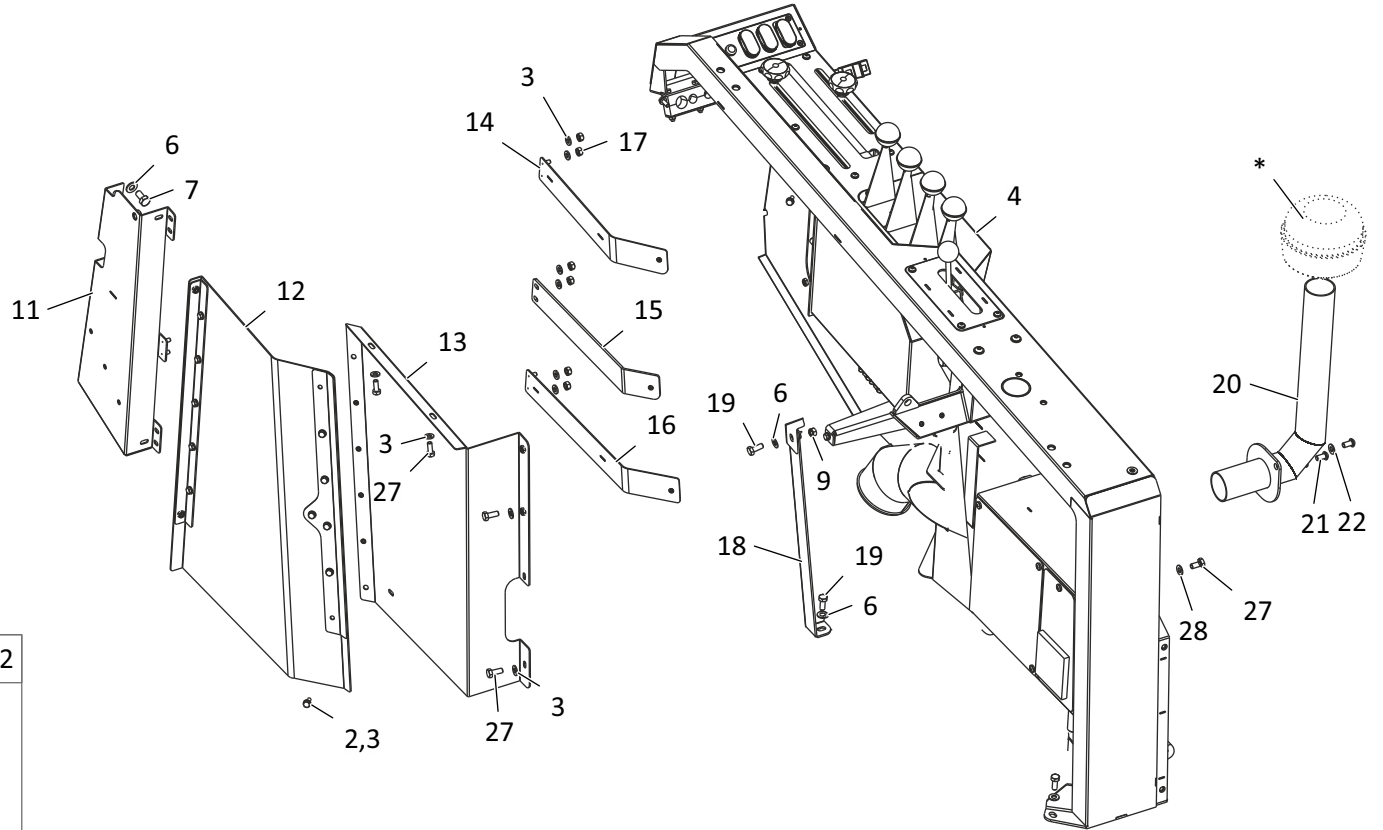
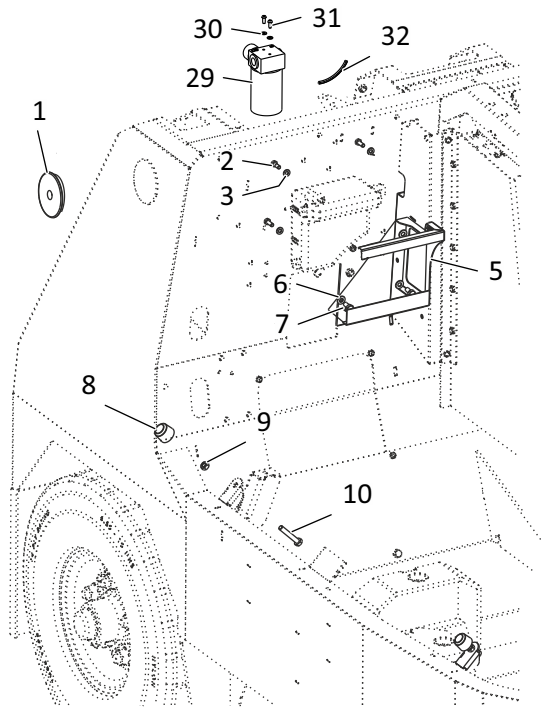


CHASSIS - DASHBOARD & STEERING GROUP

REF. NO.	PART NO	DESCRIPTION	QTY
1	558441030-00	DASHBOARD WELDMENT - KUBOTA	1
2	553440311-00	GAUGE - COOLANT TEMP	1
3	553440310-00	GAUGE - LUBE OIL PRESSURE	1
4	553440312-00	GAUGE - AMPERE	1
5	553440309-00	GAUGE - FUEL	1
6	553441126-00	RED INDICATOR LIGHT	2
7	553441125-00	GREEN INDICATOR LIGHT	1
8	558441003-00	STARTER SWITCH KIT - KUBOTA	1
9	553442078-00	SWITCH - INDICATOR	1
10	553100172-00	HORN SWITCH	1
11	553100112-00	STEERING WHEEL	1
12	553442425-00	BELLOW - STEERING ASSY	1
13	552850805-00	HEX NUT - STEEL GR. 8 - M16	1
14	552350025-00	WASHER-STEEL-17X30X3	1
15	552670114-00	CIRCLIP - B35	1
16	553440505-00	MASTER JACKET BUSH	1

REF. NO.	PART NO	DESCRIPTION	QTY
17	553440056-00	SHAFT - STEERING COLUMN	1
18	553100111-00	WOOD RUFF KEY STEERING WHEEL	1
19	552850018-00	HEX HEAD SCREW STEEL - 8.8 M10 X 30	4
20	552850205-00	WASHER - EN8 - 10.5x20x2	5
21	558441041-00	COLUMN WMT - STEERING	1
22	553442193-00	RUBBER GASKET STEERING COLUMN	1
23	558441040-00	TILT WMT - STEERING	1
24	553440348-00	STEERING - CONTROL UNIT	1
25	553440061-00	ADJUSTABLE LOCK-TILT	1
26	558440062-00	HOLDER ASSY - ADJ LOCK	1
27	558441101-00	DASH BOARD ASSY KUBOTA	1
28	558441078-00	STEERING WHEEL ASSY	1
29	553442194-00	BUSH - STEERING TILT HINGE	2
30	552850203-00	WASHER - EN8 - 8.4X17X1.6	2
31	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	2
32	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	2
33	552850044-00	HEX HEAD SCREW STEEL 8.8 - M5 X 25	2

CHASSIS - FIREWALL GROUP



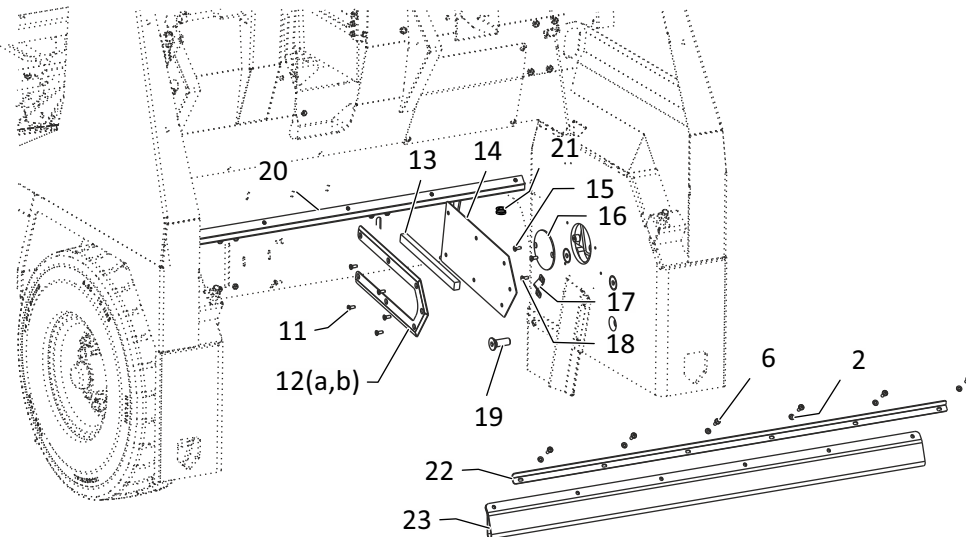
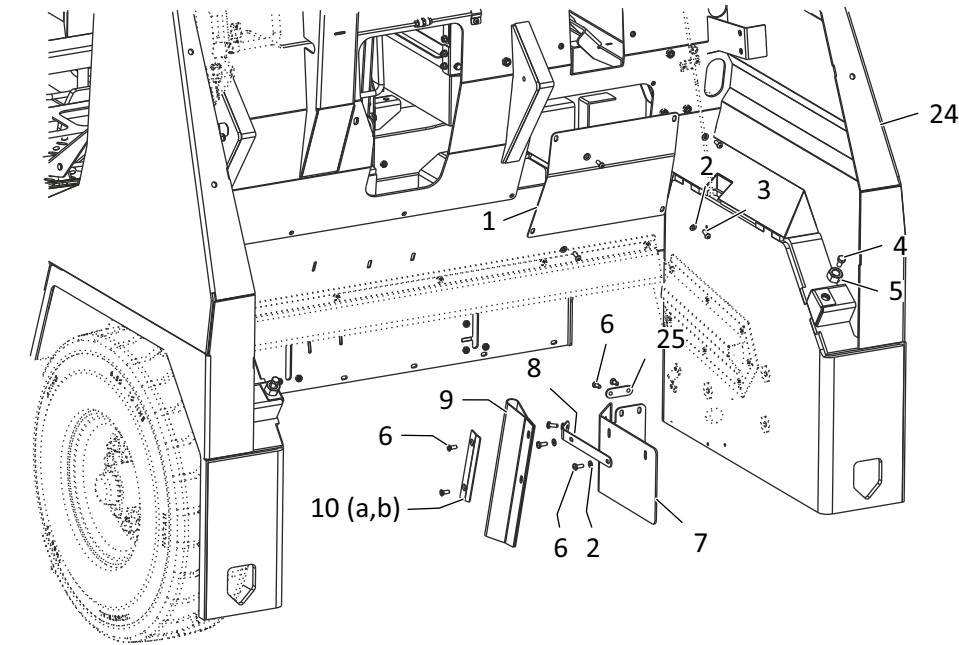
Note: "*" kindly refer the accessories section in this manual for more details.

CHASSIS - FIREWALL GROUP

REF. NO.	PART NO	DESCRIPTION	QTY
1	553440016-00	GROMMET - CHASSIS TOP PIVOT	2
2	552850004-00	HEX HEAD SCREW STEEL - 8.8 M6 X 16	15
3	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	30
4	558441109-00	FIRE WALL ASSY - KUBOTA	1
5	558441110-00	SCT MTG WMT - CHASSIS ASSY	1
6	552850203-00	WASHER - EN8 - 8.4x17x1.6	8
7	552850008-00	HEX HEAD SCREW STEEL - 8.8 M8 X 16	6
8	558100086-00	BOOT ASSY BH SUPPORT	2
9	552850802-00	HEX NUT - STEEL GR. 8 - M8	3
10	552850013-00	HEX HEAD SCREW STEEL - 8.8 M8 X 50	2
11	558441068-00	RUBBER HOLDER RADIATOR SIDE WMT	1
12	558441103-00	HEAT SEALING RUBBER ASSY	1
13	558441070-00	HEAT SHIELD REAR - WMT	1
14	558441069-00	HEAT SHIELD GUIDE TOP WMT	1
15	558441072-00	HEAT SEALING GUIDE MIDDLE WMT	1
16	558441071-00	HEAT SHIELD GUIDE BOTTOM WMT	1

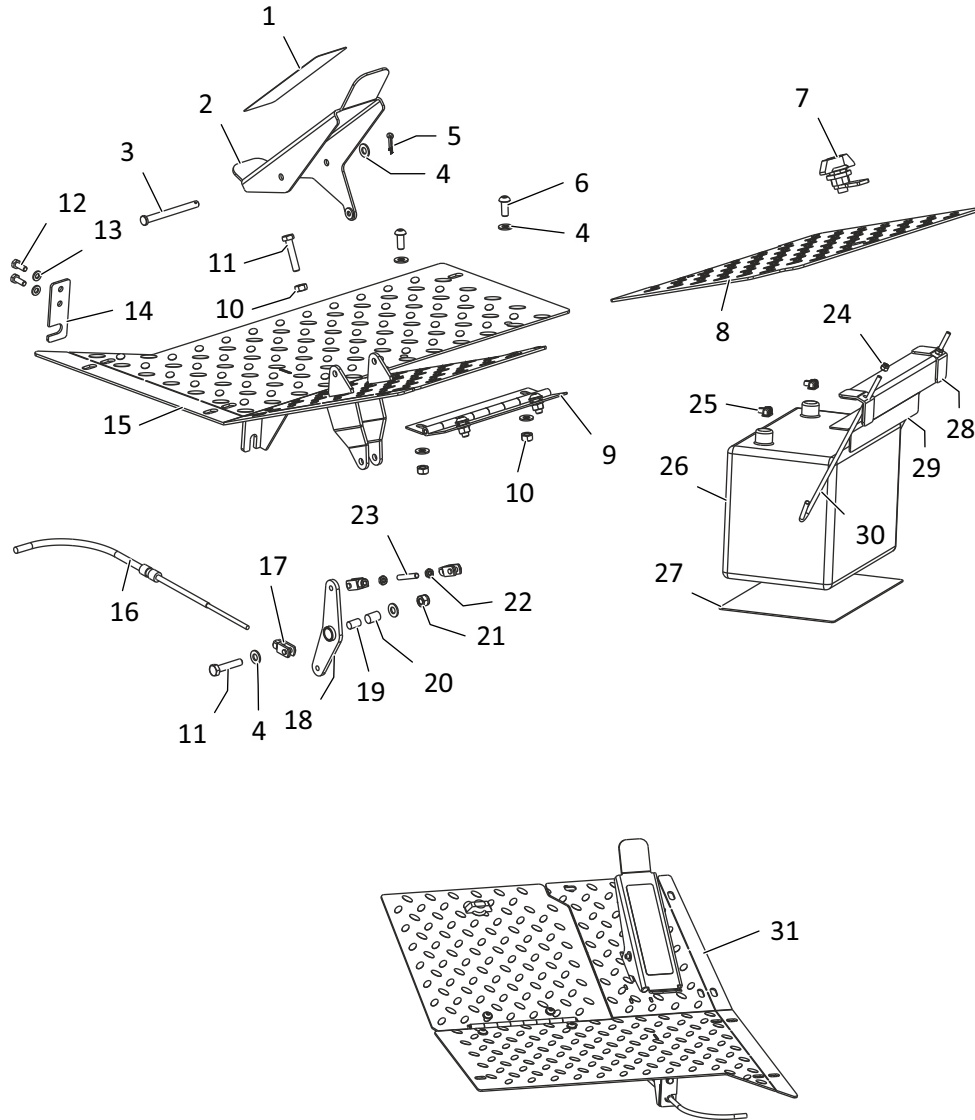
REF. NO.	PART NO	DESCRIPTION	QTY
17	552850801-00	HEX NUT - STEEL GR. 8 - M6	11
18	553442250-00	BOTTOM SUPPORT - EH GS MTG	1
19	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	2
20	558441075-00	PRE CLEANER MTG WMT - KUBATO	1
21	552850906-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 16	2
22	552850207-00	WASHER - EN8 - 12.5x28x3	2
23	558441104-00	STRIP HEAT SEAL - WMT	1
24	553442345-00	SUPPORT STRIP - HEAT SEALING ASSY	1
25	553442346-00	SUPPORT STRIP - HEAT SHIELD REAR END	1
26	553442343-00	RUBBER SHEET - HEAT SEALING	1
27	552850003-00	HEX HEAD SCREW STEEL - 8.8 M6 X 12	5
28	552850202-00	WASHER - EN8 - 6.4x18x1.6	1
29	558440067-00	RETURN LINE FILTER	1
30	552850207-00	WASHER - EN8 - 12.5x28x3	4
31	552850907-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 20	2
32	551460001-00	EDGE PROTECTOR	1 M

CHASSIS - APRON GROUP



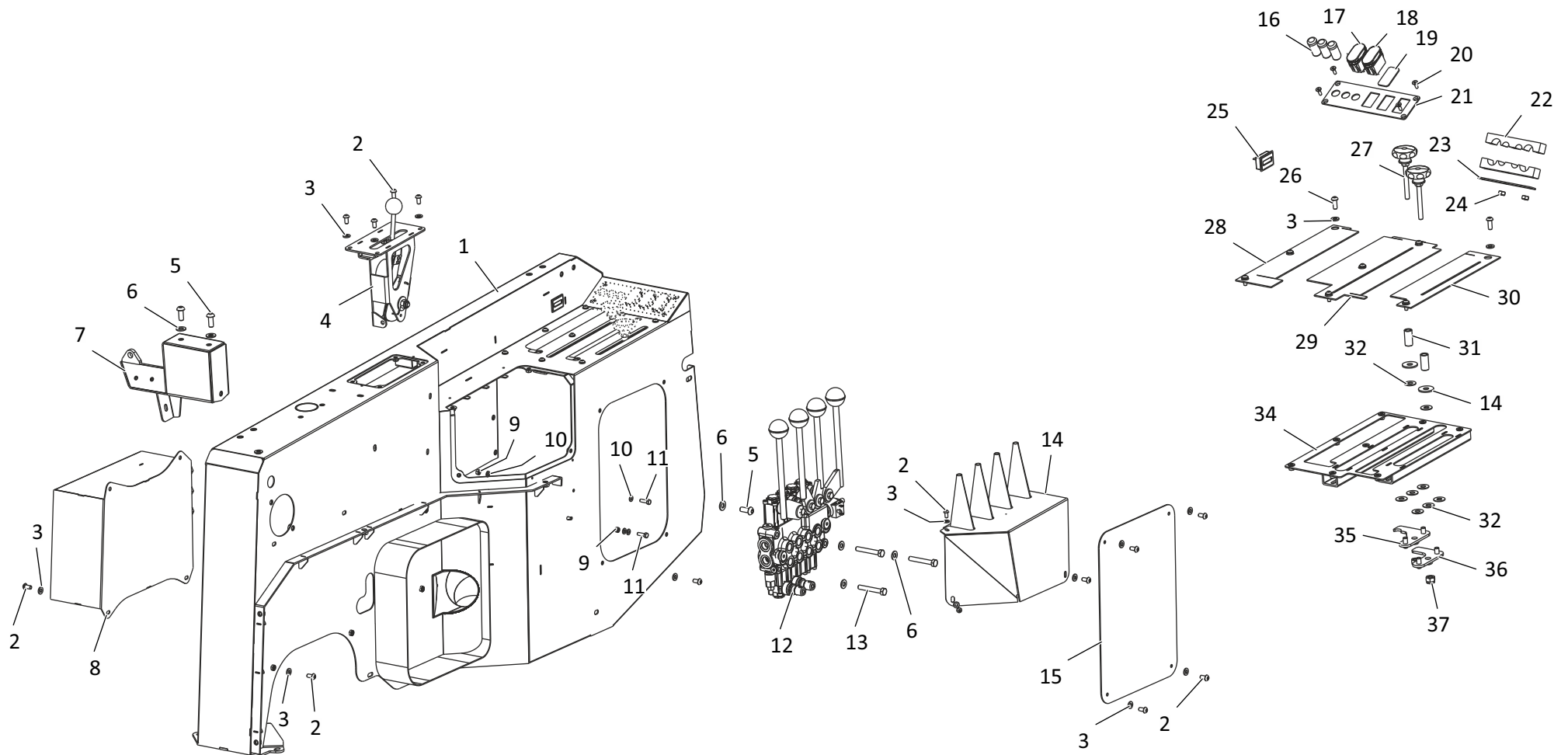
REF. NO.	PART NO	DESCRIPTION	QTY
1	553442432-00	MAN HOLE COVER RADIATOR - CHASSIS ASSY	1
2	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	16
3	552850902-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 16	4
4	552850049-00	HEX HEAD SCREW STEEL - 8.8 - M16 X 60	2
5	552850805-00	HEX NUT - STEEL GR. 8 - M16	2
6	552850304-00	CR PAN HEAD SCREW - STEEL - M6 X 16	20
7	553442378-00	MUDGUARD RUBBER WHEEL GUARD	2
8	553441120-00	PLATE - WHEEL GUARD RH	2
9	553442361-00	RUBBER INCLINED - MUDGUARD LH	2
10 a	553442351-00	PLATE LH - WHEEL GUARD INCLINED RUBBER	1
10 b	553442355-00	PLATE RH - WHEEL GUARD INCLINED RUBBER	1
11	552850401-00	CR CSK HEAD SCREW STEEL - M6 X 16	14
12 a	553442348-00	BKT - LH WHEEL GUARD RUBBER MTG	1
12 b	553442349-00	BKT - RH WHEEL GUARD RUBBER MTG	1
13	553442360-00	RUBBER - MUDGUARD LH	2
14	553442448-00	SPONGE RUBBER CELL 225 - 2015	2
15	552850502-00	HEX SOC CSK HD SCREW - M6x16	4
16	553442350-00	MUDGUARD COVER WHEEL GUARD LH & RH	2
17	553441188-00	CLAMP - BRAKE CABLE	2
18	552850901-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 12	4
19	552850501-00	HEX SOC CSK HD SCREW - M16x45	8
20	558441074-00	FRONT SEALING WMT	1
21	553100238-00	MOUNTING BUSH BM	2
22	553442374-00	PLATE - FRONT RUBBER SEALING	1
23	553442354-00	FRONT SEALING RUBBER CHASSIS	1
24	558441029-00	CHASSIS WMT - KUBOTA	1
25	553442240-00	REAR PLATE - WHEEL GUARD RUBBER MTG	2

CHASSIS - FLOOR BOARD GROUP



REF. NO.	PART NO	DESCRIPTION	QTY
1	553100592-00	3M SAFETY WALK 610 S/W BLACK	1
2	558441067-00	FOOT PEDAL WMT	1
3	553440073-00	CLEVIS PIN - THROTTLE PEDAL - 8 X 85	1
4	552850203-00	WASHER - EN8 - 8.4x17x1.6	11
5	552330003-00	COTTER PIN - STEEL - 2X16	1
6	552850907-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 20	4
7	553441224-00	LOCK - BATTERY DOOR	1
8	553442324-00	DOOR - BATTERY - FLOOR BOARD ASSY	1
9	553440320-00	HINGE - BATTERY DOOR	1
10	552850802-00	HEX NUT - STEEL GR. 8 - M8	5
11	552850012-00	HEX HEAD SCREW STEEL - 8.8 M8 X 40	2
12	552850004-00	HEX HEAD SCREW STEEL - 8.8 M6 X 18	2
13	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	2
14	553440074-00	HOLDER - HST CABLE PEDAL END	1
15	558441065-00	FLOOR BOARD WMT	1
16	553440071-00	CABLE - PUSH PULL - HST CONTROL	1
17	553442393-00	CLEVIS JOINT WITH SPRING LOADED PIN - M6	3
18	558441066-00	CRANK WMT PEDAL	1
19	553440109-00	SLEEVE - CRANK	1
20	552610063-00	IGUS BEARING - IGLIDUR GSM-1214-15	1
21	552480008-00	HEX NYLOCK NUT STEEL -M8	1
22	552250003-00	HEX LOCK NUT - STEEL GR. 08 - M6	2
23	553442325-00	STUD - ACCELERATOR CLEVIS	1
24	552480011-00	HEX NYLOCK NUT STEEL M6	2
25	553320503-00	BOOT-BATTERY CLAMP	2
26	553461244-00	BATTERY 12V 80AH 105D31R AMARON GO	1
27	553442920-00	FLOOR RUBBER - BATTERY	1
28	558441073-00	PLATE WMT - BATTERY	1
29	553442398-00	RUBBER FLAP - BATTERY	1
30	553440407-00	U BOLT - BATTERY ASSY	2
31	558441102-00	FLOOR BOARD ASSY	1

CHASSIS - FIREWALL ASSEMBLY

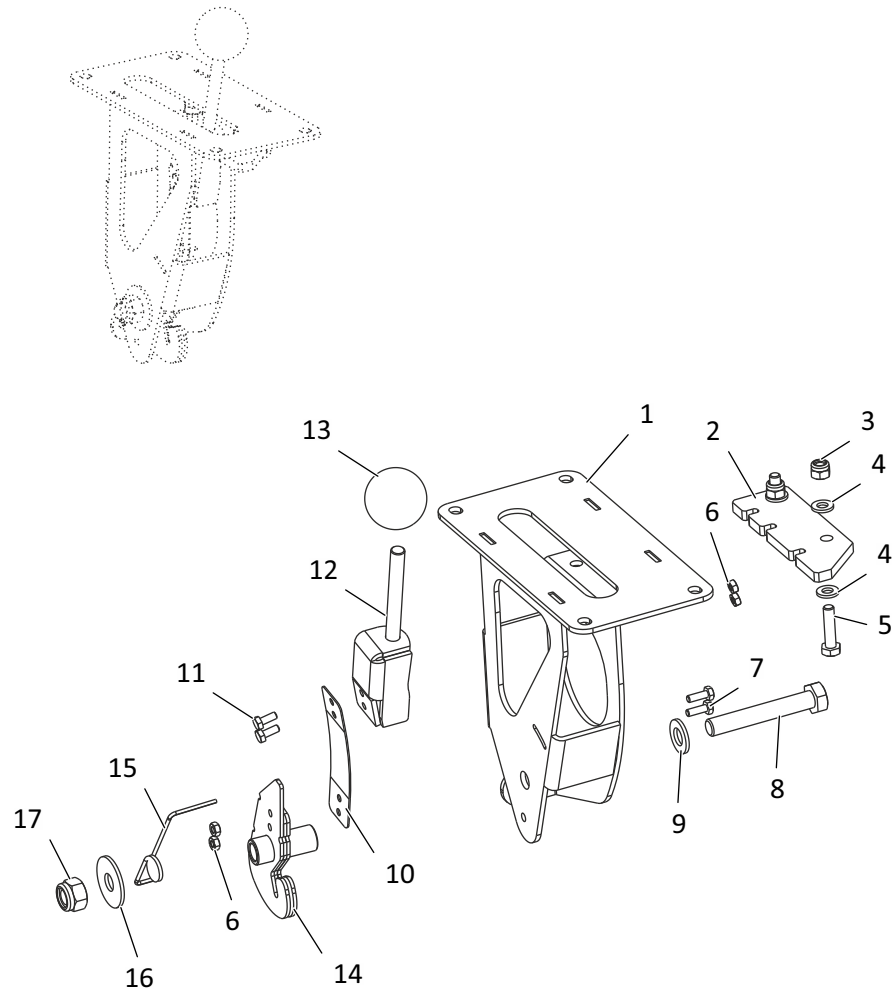


CHASSIS - FIREWALL ASSEMBLY

REF. NO.	PART NO	DESCRIPTION	QTY
1	558441046-00	FIREWALL WMT	1
2	552850901-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 12	16
3	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	24
4	558441057-00	THROTTLE ASSY - KUBOTA	1
5	552850907-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 20	3
6	552850203-00	WASHER - EN8 - 8.4x17x1.6	6
7	558441047-00	FW GS MTG BKT WMT	1
8	558441052-00	FUSE BOX ASSY - KUBOTA	1
9	552850808-00	HEX NUT - STEEL FR 8.8 - M5	3
10	552350008-00	WASHER-STEEL-5.3X10X1	6
11	552850050-00	HEX HEAD SCREW STEEL - 8.8 - M5 X 16	2
12	558441060-00	CONTROL VALVE ASSY	1
13	552850025-00	HEX HEAD SCREW STEEL - 8.8 M8 X 55	3
14	558441054-00	COVER ASSY - CONTROL VALVE	1
15	553442229-00	MAN HOLE COVER FIREWALL	1
16	553441126-00	RED INDICATOR LIGHT	3
17	553441254-00	SWITCH - VACCUM BYPASS	1
18	553441228-00	SWITCH - HEAD LIGHT	1
19	553442444-00	SWITCH - PANEL PLUG	1
20	552110004-00	CR CSK HD SCREW - SS304 - M4X12	4

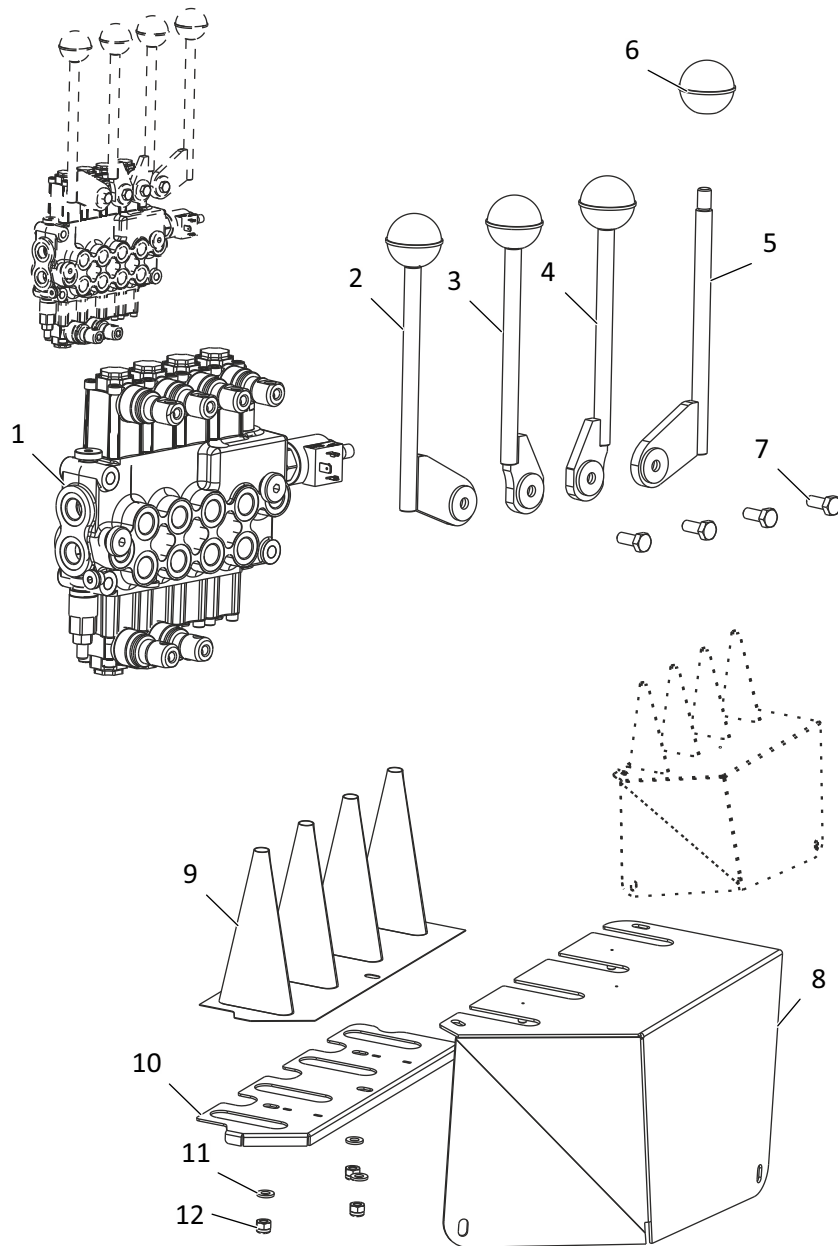
REF. NO.	PART NO	DESCRIPTION	QTY
21	553442243-00	PLATE - SWITCH MTG FW ASSY	1
22	553442238-00	NYLON HOSE CLAMP FIREWALL ASSY	2
23	553442242-00	BOTTOM PLATE - NYLON BLOCK MTG	1
24	552850801-00	HEX NUT - STEEL GR. 8 - M6	3
25	553442952-00	HOUR METER (CURTIS) - 12V	1
26	552850902-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 16	8
27	558441051-00	KNOB ASSY - SB & MB	2
28	553442439-00	RUBBER SHEET LH - MB & SB STOPPER ASSY	1
29	553442440-00	RUBBER SHEET MIDDLE-MB & SB STOPPER ASSY	1
30	553442441-00	RUBBER SHEET RH - MB & SB STOPPER ASSY	1
31	553442236-00	BUSH - BRUSH STOPPER ASSY	2
32	552850204-00	WASHER - EN8 - 8.4x24x2	2
33	552610072-00	IGUS thrust Washer GTM-0818-015	8
34	558441048-00	BASE BRUSH GUIDE WMT	1
35	558441049-00	SB FREE ADJ WMT	1
36	558441050-00	MB FREE ADJ WMT	1
37	552480008-00	HEX NYLOCK NUT STEEL -M8	2

FIREWALL ASSEMBLY - THROTTLE GROUP



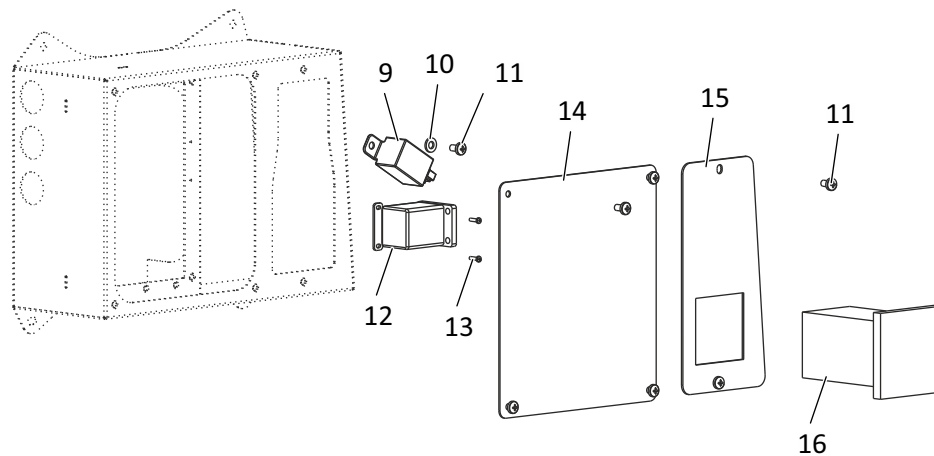
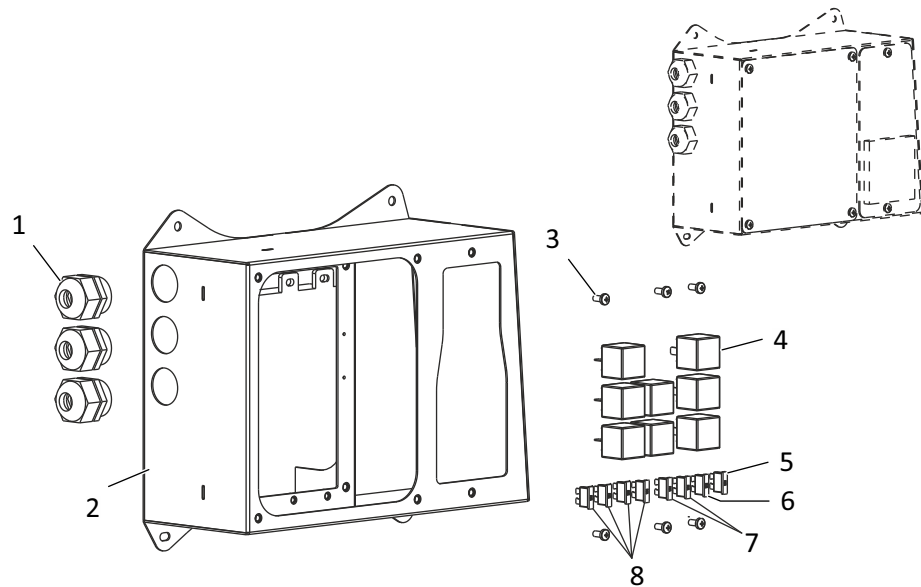
REF. NO.	PART NO	DESCRIPTION	QTY
1	558441058-00	THROTTLE WMT - KUBOTA	1
2	553440025-00	PAD - THROTTLE	1
3	552480011-00	HEX NYLOCK NUT STEEL M6	2
4	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	4
5	552850006-00	HEX HEAD SCREW STEEL - 8.8 M6 X 25	2
6	552850807-00	HEX NUT - STEEL GR. 8 - M4	4
7	552850051-00	HEX HEAD SCREW STEEL - 8.8 - M4 X 12	2
8	552850031-00	HEX HEAD SCREW STEEL - 8.8 M10 X 65	1
9	552850205-00	WASHER - EN8 - 10.5x20x2	1
10	553440043-00	LEAF SPRING - THROTTLE	1
11	552850040-00	HEX HEAD SCREW STEEL - 8.8 M4 X 10	2
12	558440005-00	HANDLE WMT - THROTTLE	1
13	553230004-00	KNOB(C25XM8)	1
14	558441059-00	CRANK WMT KUBOTA THROTTLE	1
15	553440040-00	TORSION SPRING - THROTTLE	1
16	552850206-00	WASHER - EN8 - 10.5x30x2	1
17	552480012-00	HEX NYLOCK NUT STEEL M10	1

FIREWALL ASSEMBLY - CONTROL VALVE & COVER GROUP



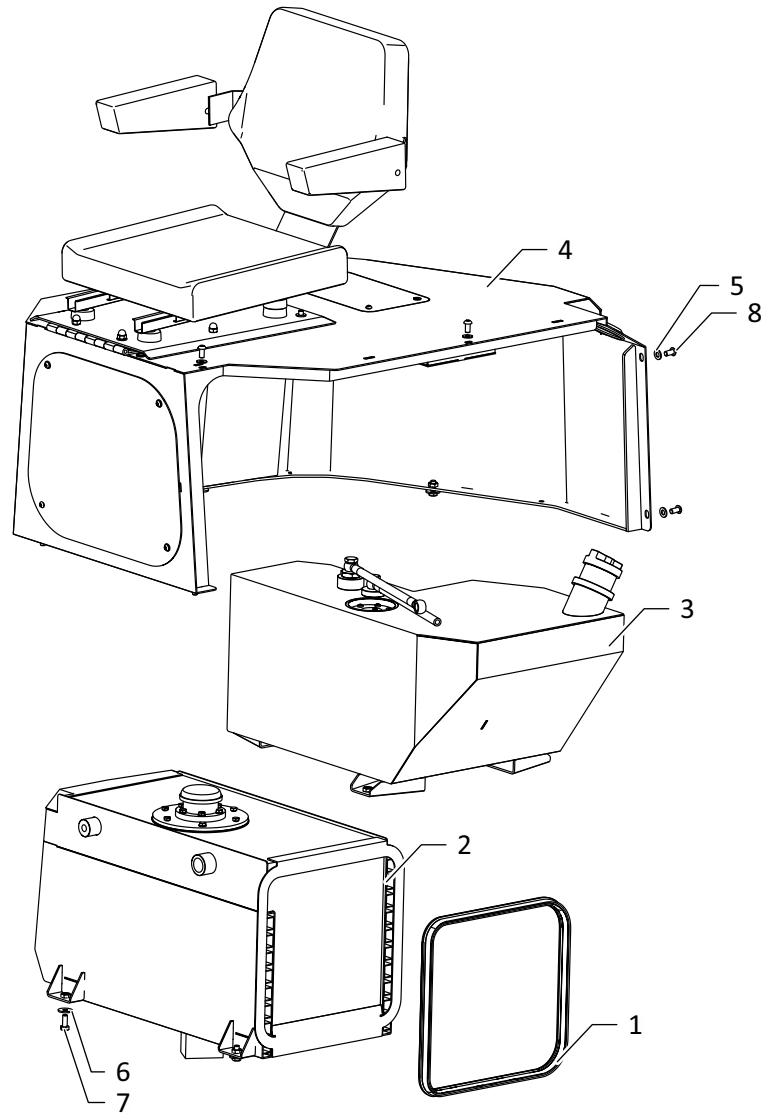
REF. NO.	PART NO	DESCRIPTON	QTY
1	553442423-00	CONTROL VALVE	1
2	558441063-00	PLATE WMT - MB	1
3	558441064-00	LEVER WMT - LIFT	1
4	558441062-00	LEVER TILT WMT	1
5	558441061-00	LEVER DOOR - WMT	1
6	553440352-00	KNOB - M10	4
7	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	4
8	558441055-00	COVER WMT - CONTROL VALVE	1
9	553442397-00	REXINE - CONTROL VALVE LEVERS	1
10	558441056-00	PLATE WMT - REXINE	1
11	552350011-00	WASHER-STEEL-6.4X12.5X1.6	3
12	552480011-00	HEX NYLOCK NUT STEEL M6	3

FIREWALL ASSEMBLY - FUSE BOX GROUP



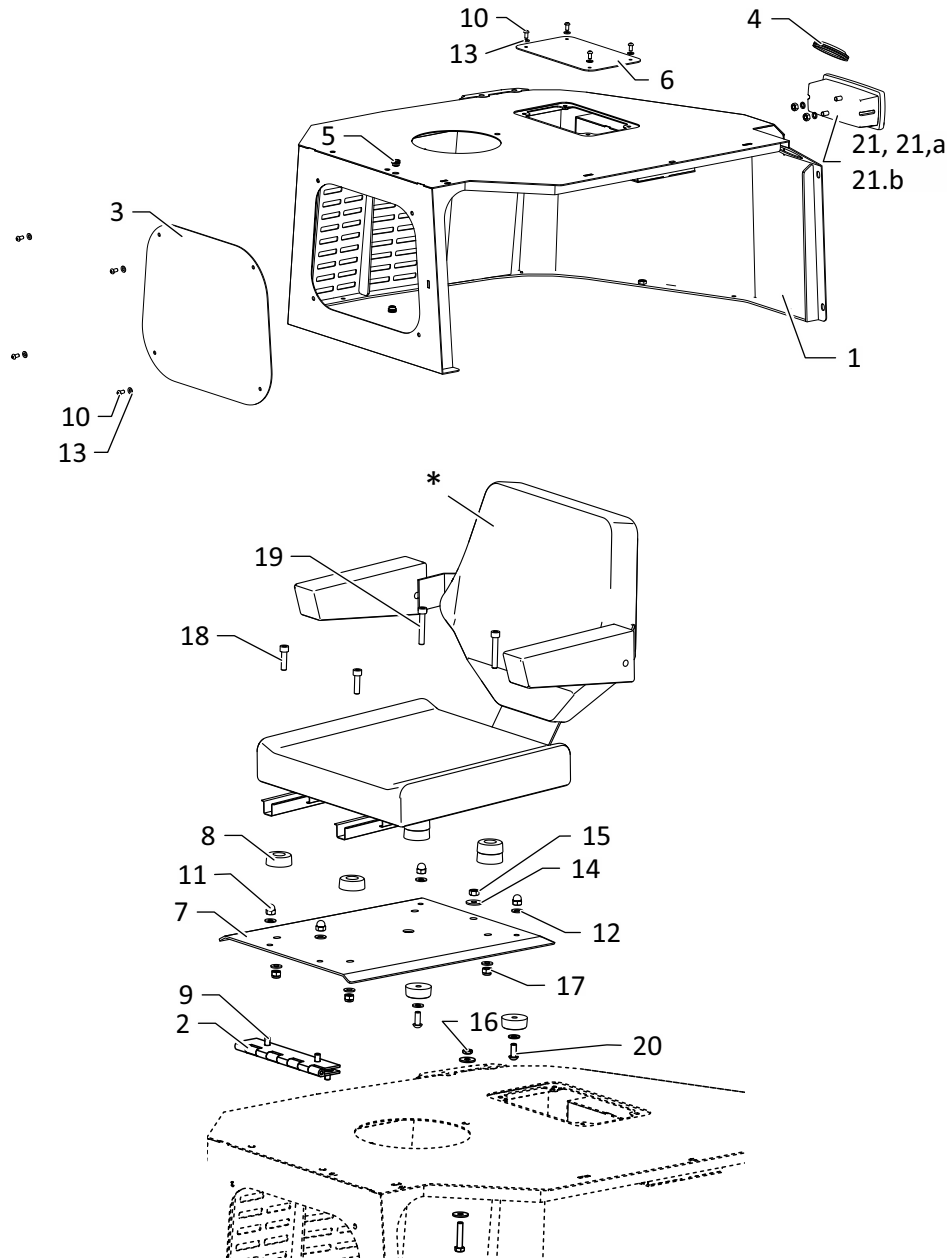
REF. NO.	PART NO	DESCRIPTION	QTY
1	552900006-00	CABLE GLAND M32	3
2	558441053-00	FUSE BOX WMT - KUBOTA	1
3	552130011-00	CR PAN HEAD SCREW - STEEL - M5X12	6
4	553442929-00	5 - PIN NC RELAY	8
5	553441373-00	BLADE FUSE - 40A	1
6	553442438-00	BLADE FUSE - 25A	1
7	553442437-00	BLADE FUSE - 20A	2
8	553442435-00	BLADE FUSE - 10A	4
9	553442442-00	FLASHER 12V SE/SK 1613	1
10	552850201-00	WASHER - EN8 - 6.4X12.5X1.6	1
11	552850302-00	CR PAN HEAD SCREW - STEEL - M6 X 12	7
12	553441331-00	PLA RELAY	1
13	552130002-00	CR PAN HEAD SCREW - STEEL - M3X12	2
14	553442247-00	FRONT COVER - FUSE BOX	1
15	553441249-00	PLATE W/O TIMER - ECU	1
16	553440743-00	ECU - ENGINE	1

OPERATOR STATION GROUP



REF.NO	PART NO	DESCRIPTION	QTY
1	553441194-00	BEADING FIREWALL END	1
2	558440329-00	HYDRAULIC OIL TANK ASSY	1
3	558441205-00	DIESEL TANK ASSY	1
4	558441301-00	OPERATOR HOOD ASSY	1
5	552850203-00	WASHER - EN8 - 8.4x17x1.6	4
6	552850204-00	WASHER - EN8 - 8.4x24x2	10
7	552850009-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 20	10
8	552850906-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 16	4

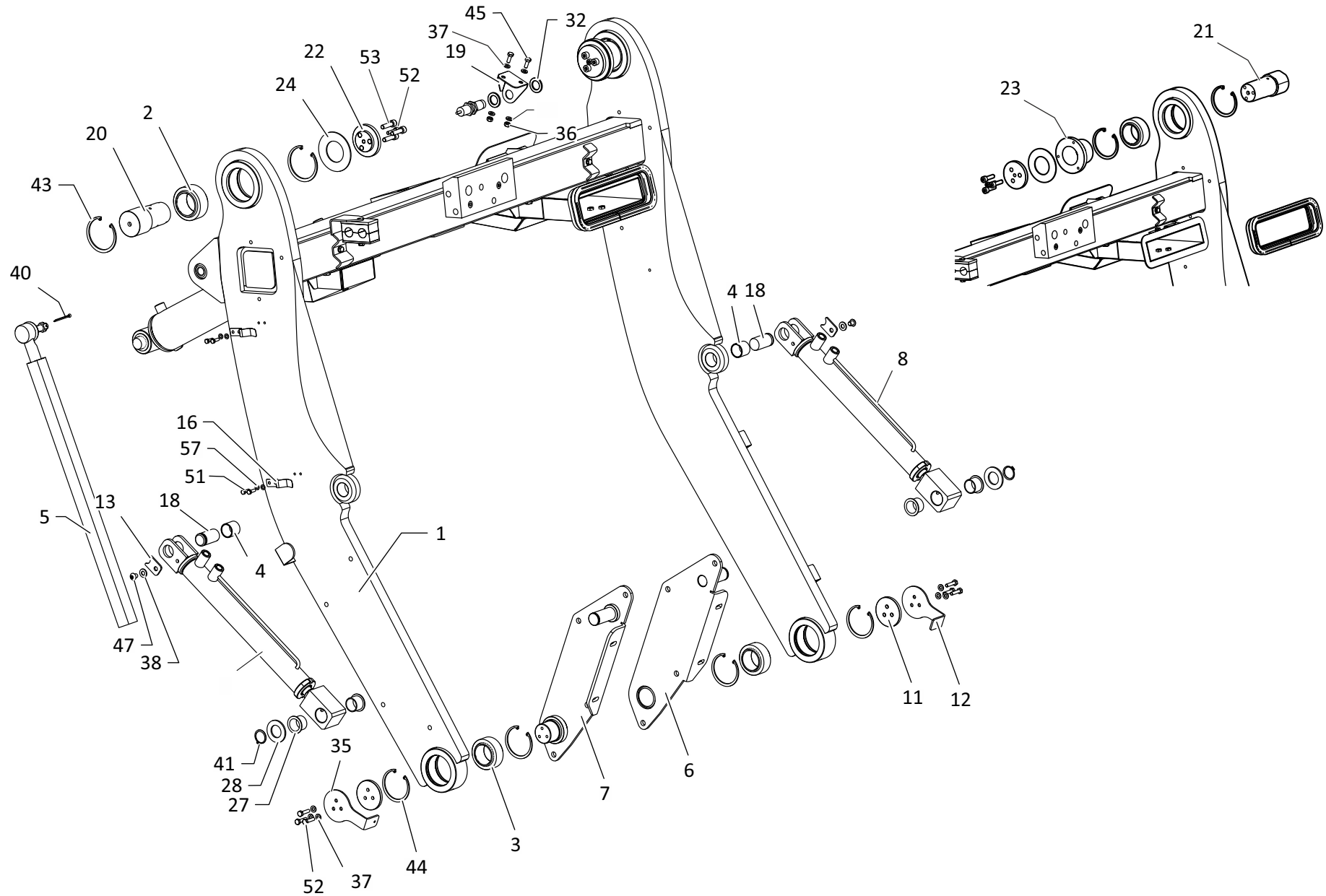
OPERATOR STATION GROUP



REF.NO	PART NO	DESCRIPTION	QTY
1	558441288-00	OPERATOR HOOD WMT	1
2	553440822-00	HINGE - OP HOOD ASSY	1
3	553440820-00	PLATE FRONT - OP HOOD ASSY	1
4	553440791-00	GASKET - FUEL TANK	1
5	553310168-00	GROMMET - TERMINAL	2
6	553442854-00	PLATE SERVICE - OP HOOD	1
7	553440821-00	PLATE SEAT MTG - OP HOOD ASSY	1
8	553440823-00	BUSH - SEAT MOUNTING	8
9	552850906-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 16	4
10	552850901-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 12	8
11	552300004-00	DOMED CAP NUT-SS304 - M8	4
12	552850203-00	WASHER - EN8 - 8.4x17x1.6	16
13	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	8
14	552850204-00	WASHER - EN8 - 8.4x24x2	3
15	552850802-00	HEX NUT - STEEL GR. 8 - M8	1
16	552250004-00	HEX LOCK NUT STEEL - M8	1
17	552480008-00	HEX NYLOCK NUT STEEL - M8	6
18	552850606-00	HEX SOC HD CAP SCREW -STEEL 8.8 - M8 X 30	2
19	552850608-00	HEX SOC HD CAP SCREW STEEL 8.8 - M8 X 50	2
20	552850907-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 20	2
21	553442857-00	TAIL LIGHT	1
21.a	553442804-00	INDICATION BULB	1
21.b	553442803-00	WARNING BULB	1

Note: "*" kindly refer the accessories section in this manual for more details.

LIFT ARM GROUP

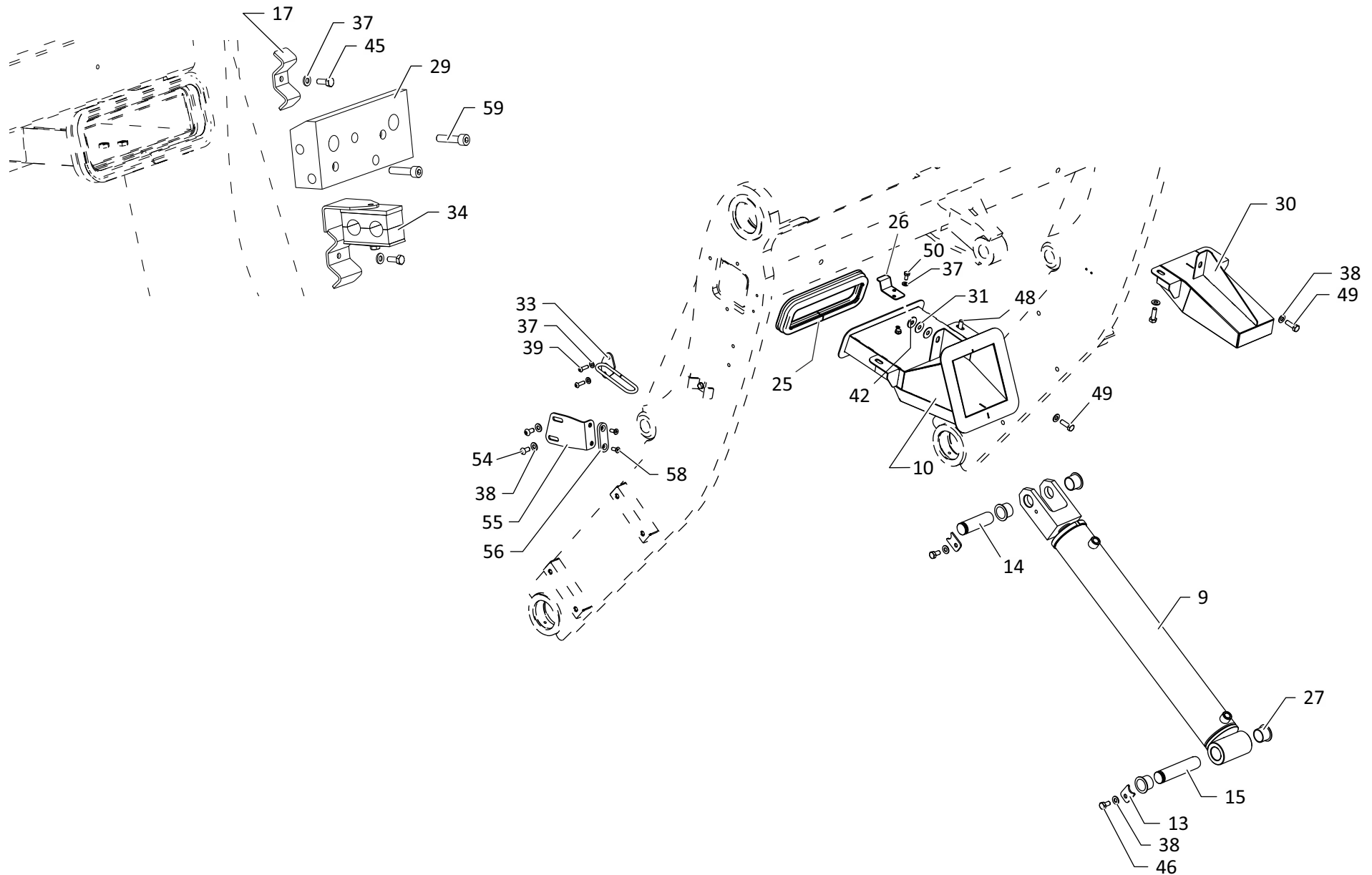


LIFT ARM GROUP

REF.NO.	PART NO	DESCRIPTON	QTY
1	558441264-00	LIFT ARM WMT	1
2	552610060-00	BEARING - PLAIN SPHERICAL - GE45 2RS	2
3	552610061-00	BEARING - PLAIN SPHERICAL - GE40 2RS	2
4	552610064-00	IGUS BEARING - IGLIDUR GSM-2528-25	2
5	558440528-00	SAFETY STOPPER - WELDMENT	1
6	558441269-00	PIN WMT LH - HOPPER END	1
7	558441271-00	PIN WMT RH - HOPPER END	1
8	553442802-00	TILT CYLINDER - HYDRAULIC	2
9	553442801-00	LIFT CYLINDER HYDRAULIC	1
10	558441270-00	DUCT WMT ARM ASSY	1
11	553442458-00	RETAINER - HOPPER PIVOT - ARM ASSY	2
12	553442459-00	PLATE - HOSE GUIDE	2
13	553440544-00	LOCKER - PIVOT PIN	4
14	553440537-00	PIN - LIFT CYL (ROD END)	1
15	553440536-00	PIN - LIFT CYL (BASE END)	1
16	553440404-00	SPRING - MB SPANNER	2
17	553442614-00	HYD HOSE CLAMP - ARM ASSY	2
18	553440538-00	PIN - TILT CYL (BASE END)	2
19	553441266-00	PROXIMITY SENSOR MTG PLATE	1
20	553440539-00	PIN - ARM (CHASSIS END)	1

REF.NO.	PART NO	DESCRIPTON	QTY
21	553442460-00	PIN LH CHASSIS END - ARM ASSY	1
22	553440543-00	RETAINER - ARM PIVOT (CHASSIS END)	2
23	553442461-00	SLEEVE - ARM PIVOT LH CHASSIS END	1
24	553440448-00	BELLEVILLE SPRING - 43 X 80 X 2	2
25	553440358-00	BEADING - DUCT MOUTH	1
26	553442462-00	CLAMP - BEADING	1
27	552610053-00	IGUS BEARING - IGLIDUR GFM 2528-21	8
28	553440394-00	SPECIAL WASHER - 25 X 45 X 3	2
29	553442292-00	MANIFOLD - SB & TC	1
30	558441272-00	STOPPER WMT - ARM ASSY	1
31	553442467-00	SPACER - LH DUCT - ARM ASSY	2
32	553441337-00	NYLON WASHER	2
33	558441273-00	HOSE GUIDE WMT	1
34	558441296-00	HYD CLAMP WMT - ARM ASSY	1
35	553442842-00	PLATE RH - HOSE GUIDE	1
36	552850801-00	HEX NUT - STEEL GR. 8 - M6	4
37	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	17
38	552850203-00	WASHER - EN8 - 8.4x17x1.6	12
39	552850903-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 20	2
40	552330007-00	COTTER PIN STEEL - 3.2 X 35	1

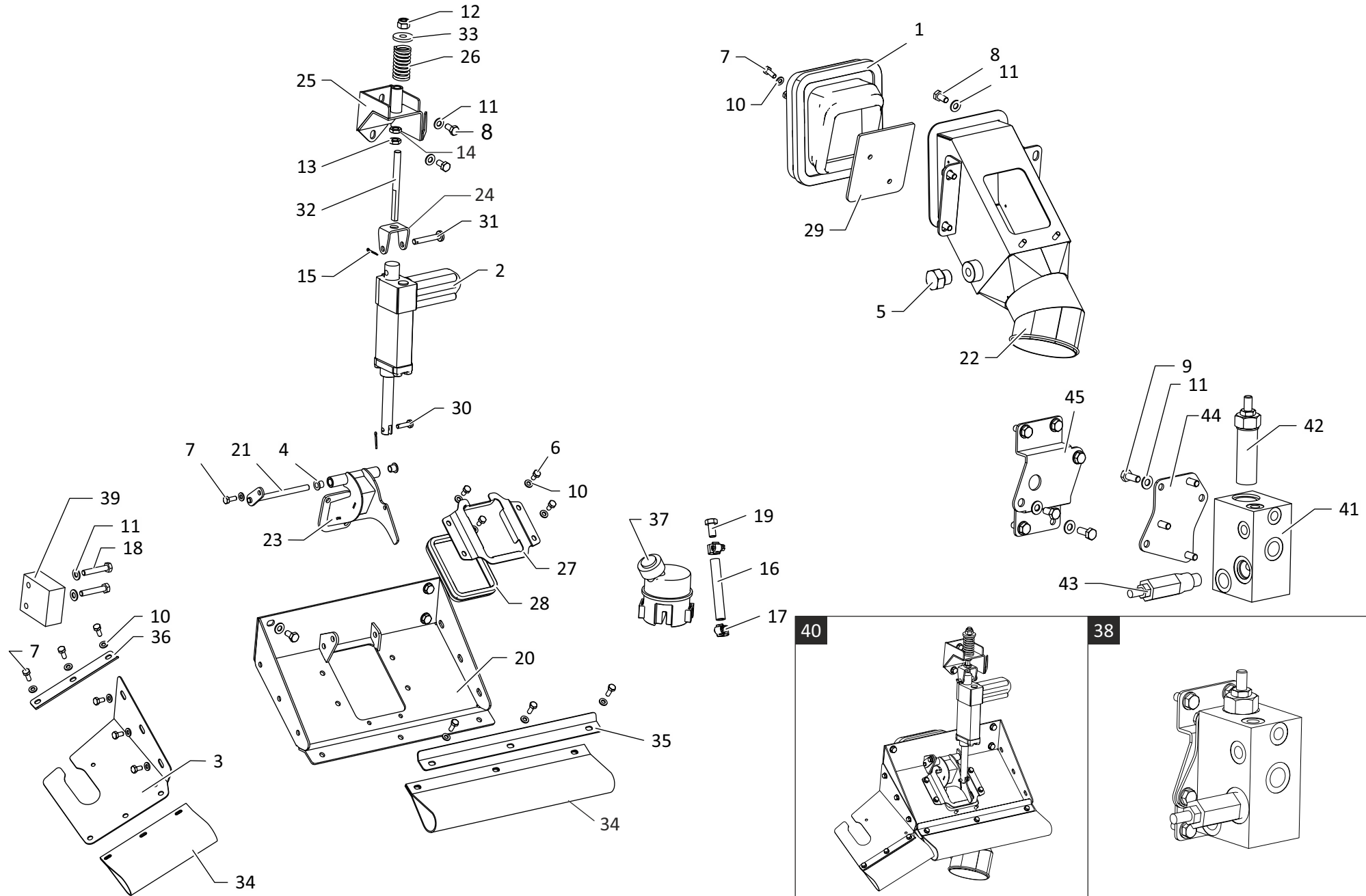
LIFT ARM GROUP



LIFT ARM GROUP

REF.NO.	PART NO	DESCRIPTON	QTY
41	552670107-00	CIRCLIP - A25	2
42	552350017-00	WASHER - STEEL - 8.4X24X2	1
43	552670142-00	CIRCLIP - B68	4
44	552670141-00	CIRCLIP - B62	4
45	552850004-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 16	5
46	552850008-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 16	2
47	552850905-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 10	2
48	552850009-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 20	2
49	552850010-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 25	4
50	552850003-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 12	2
51	552850050-00	HEX HEAD SCREW STEEL - 8.8 - M5 X 16	4
52	552850603-00	HEX SOC HD CAP SCREW -STEEL 8.8 - M6 X 25	2
53	552850606-00	HEX SOC HD CAP SCREW -STEEL 8.8 - M8 X 30	6
54	552850906-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 16	2
55	558441297-00	EL VALVE ACTUATOR WMT	1
56	553442844-00	VALVE ACTUATOR IMPACT PLT	1
57	552350008-00	WASHER-STEEL - 5.3X10X1	4
58	552850502-00	HEX SOC CSK HD SCREW - M6x16	2
59	552850609-00	HEX SOC HD CAP SCREW - ST 8.8 - M6 X 45	2

VACUUM BY-PASS GROUP

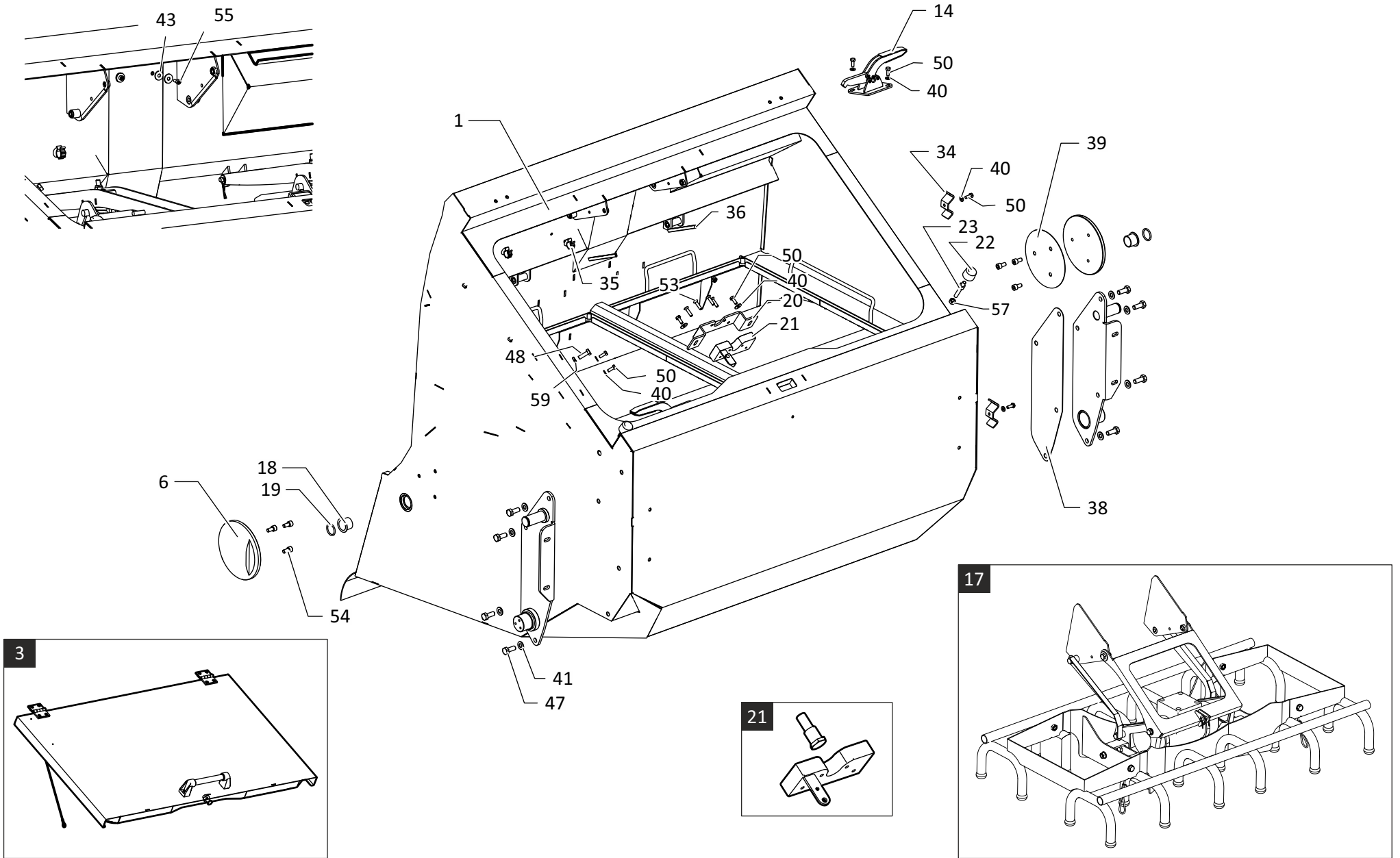


VACUUM BY-PASS GROUP

REF.NO.	PART NO	DESCRIPTON	QTY
1	553441311-00	GASKET - VACCUM BY-PASS	1
2	553441332-00	LINEAR ACTUATOR, 12V - VACCUM BY PASS	1
3	558441276-00	RUBBER FLAP MOUNT - DUCT SHEET WMT	1
4	552610067-00	IGUS BEARING - IGLIDUR GFM 810-10	2
5	552500049-00	DUMMY - 1/4	1
6	552850003-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 12	7
7	552850004-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 16	9
8	552850008-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 16	2
9	552850009-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 20	8
10	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	16
11	552850203-00	WASHER - EN8 - 8.4x17x1.6	22
12	552480012-00	HEX NYLOCK NUT STEEL - M10	1
13	552250009-00	HEX LOCK NUT - STEEL GR. 08 - M10	2
14	552850803-00	HEX NUT - STEEL GR. 8 - M10	2
15	552330003-00	COTTER PIN - STEEL - 2X16	2
16	553442431-00	HOSE - BRAKE LINE CYL END	1
17	552870051-00	HOSE CLAMP 8 MM STEEL KLIP -WEL/PHONEIX	2
18	552850027-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 45	2
19	552850016-00	HEX HEAD SCREW STEEL - 8.8 - M10 X 20	1
20	558441290-00	CRANK MG BASE PLATE WMT - VACUUM BYPASS	1
21	558441278-00	CRANK ROD WMT - VACUUM BYPASS	1
22	558441291-00	DUCT WMT - VACUUM BYPASS	1
23	558441292-00	DOOR CRANK WMT - VACCUM BYPASS	1
24	558441293-00	ACTUATOR TOP PIVOT WMT	1
25	558441294-00	ACTUATOR TOP MTG BKT	1

REF.NO.	PART NO	DESCRIPTON	QTY
26	553442764-00	SPRING ACTUATOR - VACUUM BYPASS	1
27	553440483-00	PLATE GASKET - VB	1
28	553441225-00	BEADING - VACCUM BY PASS	1
29	553442760-00	PLATE SHUTTER - VACUUM BYPASS	1
30	553442761-00	PIN -ACTUATOR ROD END	1
31	553442762-00	PIN -ACTUATOR BASE END	1
32	553442763-00	STUD - VACUUM BYPASS	1
33	553442765-00	SPACER - ACTUATOR ASSY	1
34	553442855-00	FLAP SEPARATOR - VACUUM BYPASS	1
35	553441114-00	RADIATOR BOTTOM-RUBBER HOLDING PLATE - LH	1
36	553441115-00	RADIATOR BOTTOM-RUBBER HOLDING PLATE - RH	1
37	553440281-00	OIL TANK - FOOT BRAKE	1
38	558441305-00	VALVE ASSY - SEQ & PR	1
39	553442068-00	END LIMITER VALVE 10 mm ST	1
40	558441299-00	VACUUM BY-PASS ASSY COMPLETE	1
41	553442291-00	SEQUENCE VALVE BLOCK	1
42	553442421-00	SEQUENCE VALVE	1
43	553442424-00	PRESSURE RELIEF VALVE	1
44	553442858-00	TOP PLATE - SEQUENCE VALVE	1
45	557441306-00	PLATE MTG WMT - SEQUENCE VALVE	1

HOPPER GROUP

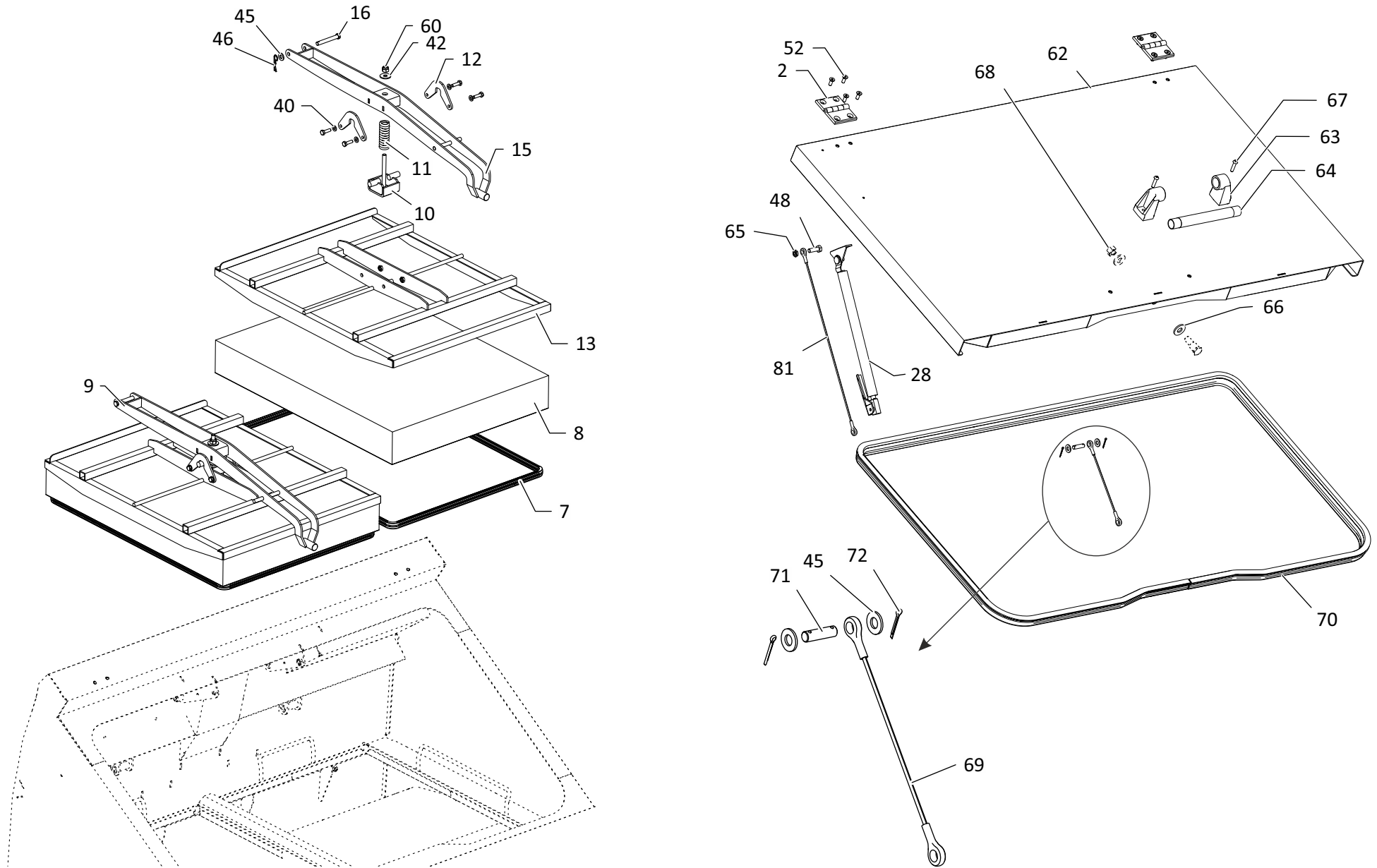


HOPPER GROUP

REF.NO.	PART NO	DESCRIPTON	QTY
1	558441321-00	HOPPER WELDMENT	1
2	553440629-00	HINGE - FILTER COVER	2
3	558441323-00	TOP DOOR ASSY - HOPPER	1
4	553442521-00	FLAP - HOPPER REAR DOOR	5
5	558441327-00	HOLDER WMT - FOAM	1
6	553440426-00	ALIGNMENT PAD - HOPPER	2
7	553440504-00	BEADING-CHANNEL	2
8	553440502-00	PANEL FILTER	2
9	558441328-00	PLATE TOGGLE RH WMT	1
10	558441329-00	BKT SPRING MTG WMT TOGGLE CLAMP	2
11	553442864-00	TOGGLE COMPRESSION SPRING	2
12	553442865-00	HOLDER - FILTER CLAMP BKT	4
13	558441330-00	FILTER TOP FRAME WMT	2
14	558441331-00	TOGGLE CLAMP ASSY - HOPPER	2
15	558441333-00	PLATE TOGGLE LH WMT	1
16	553442543-00	PIN REAR - SPRING ASSY	2
17	558441334-00	SINGLE VIBRATOR ASSY	1
18	552610053-00	IGUS BEARING - IGLIDUR GFM 2528-21	2
19	552430037-00	O' RING - 25 X 3	2
20	553440597-00	MTG BKT - FILTER COVER LOCK	1

REF.NO.	PART NO	DESCRIPTON	QTY
21	558441340-00	LOCK ASSY - HOPPER DOOR	1
22	558100086-00	BOOT ASSY BH SUPPORT	2
23	553100284-00	STUD BOOT BH	2
24	558441351-00	DOOR ASSY BOTTOM - HOPPER	1
25	558441346-00	STRUT ASSY - HOPPER	2
26	558441349-00	SPRING MTG - TOP END WMT	4
27	553442571-00	PIN - SPRING ASSY	2
28	553440755-00	GAS STRUT	1
29	553440065-00	CYLINDER	1
30	553442583-00	PIN DOOR CYL (BASE END)	1
31	553442584-00	WASHER - 10.5 X 30 X 6	1
32	558441350-00	RUBBER GUIDE WMT - REAR DOOR	1
33	553442603-00	PIN DOOR CYL (ROD END)	1
34	553442614-00	HYD HOSE CLAMP - ARM ASSY	2
35	553441333-00	ELECTRICAL CABLE CLAMP	4
36	553442869-00	EDGE PROTECTOR - HOPPER	2
37	552610063-00	IGUS BEARING - IGLIDUR GSM-1214-15	4
38	553442874-00	SHIM - HOPPER TILT CYL ROD END	1
39	553440492-00	SHIM - ALIGNMENT PAD	1
40	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	52

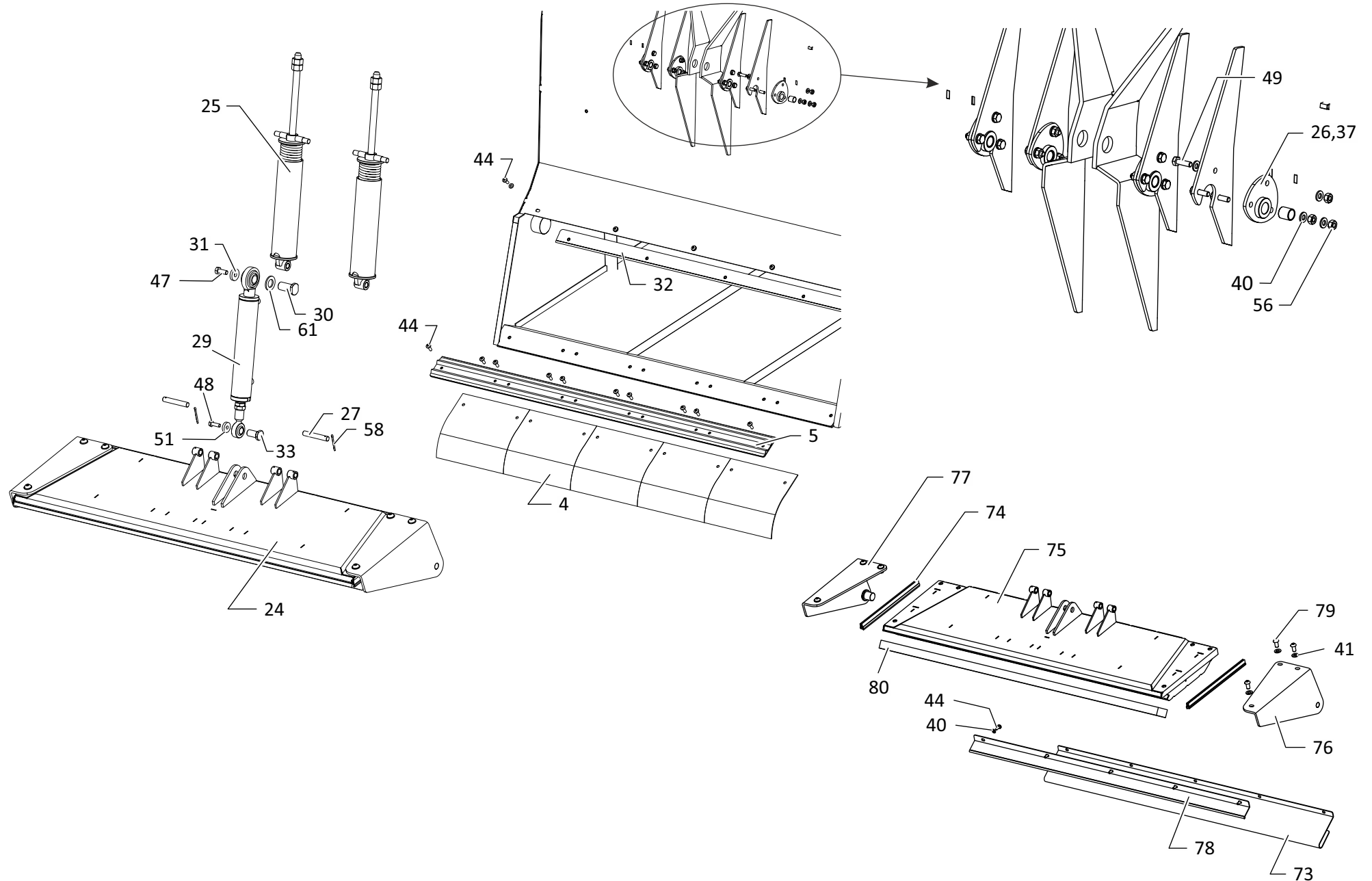
HOPPER GROUP



HOPPER GROUP

REF.NO.	PART NO	DESCRIPTON	QTY
41	552850205-00	WASHER - EN8 - 10.5x20x2	14
42	552850204-00	WASHER - EN8 - 8.4x24x2	2
43	552850202-00	WASHER - EN8 - 6.4x18x1.6	6
44	552850304-00	CR PAN HEAD SCREW - STEEL - M6 X 16	20
45	552350031-00	WASHER STEEL - 8.4X17X1.6	4
46	553320110-00	LINCH PIN	2
47	552850017-00	HEX HEAD SCREW STEEL - 8.8 - M10 X 25	9
48	552850010-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 25	3
49	552850005-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 20	20
50	552850004-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 16	10
51	553442604-00	WASHER STEEL - 8.5 X 26 X 6	1
52	552850502-00	HEX SOC CSK HD SCREW - M6x16	8
53	552850503-00	HEX SOC CSK HD SCREW - M6 x 25	4
54	552850605-00	HEX SOC HD CAP SCREW -STEEL 8.8 - M8 X 16	6
55	552230004-00	HEX SOC HEAD CAP SCREW -STEEL - M5X12	2
56	552850801-00	HEX NUT - STEEL GR. 8 - M6	14
57	552850802-00	HEX NUT - STEEL GR. 8 - M8	2
58	552330007-00	COTTER PIN STEEL - 3.2X35	2
59	552250004-00	HEX LOCK NUT STEEL - M8	1
60	552480008-00	HEX NYLOCK NUT STEEL - M8	2

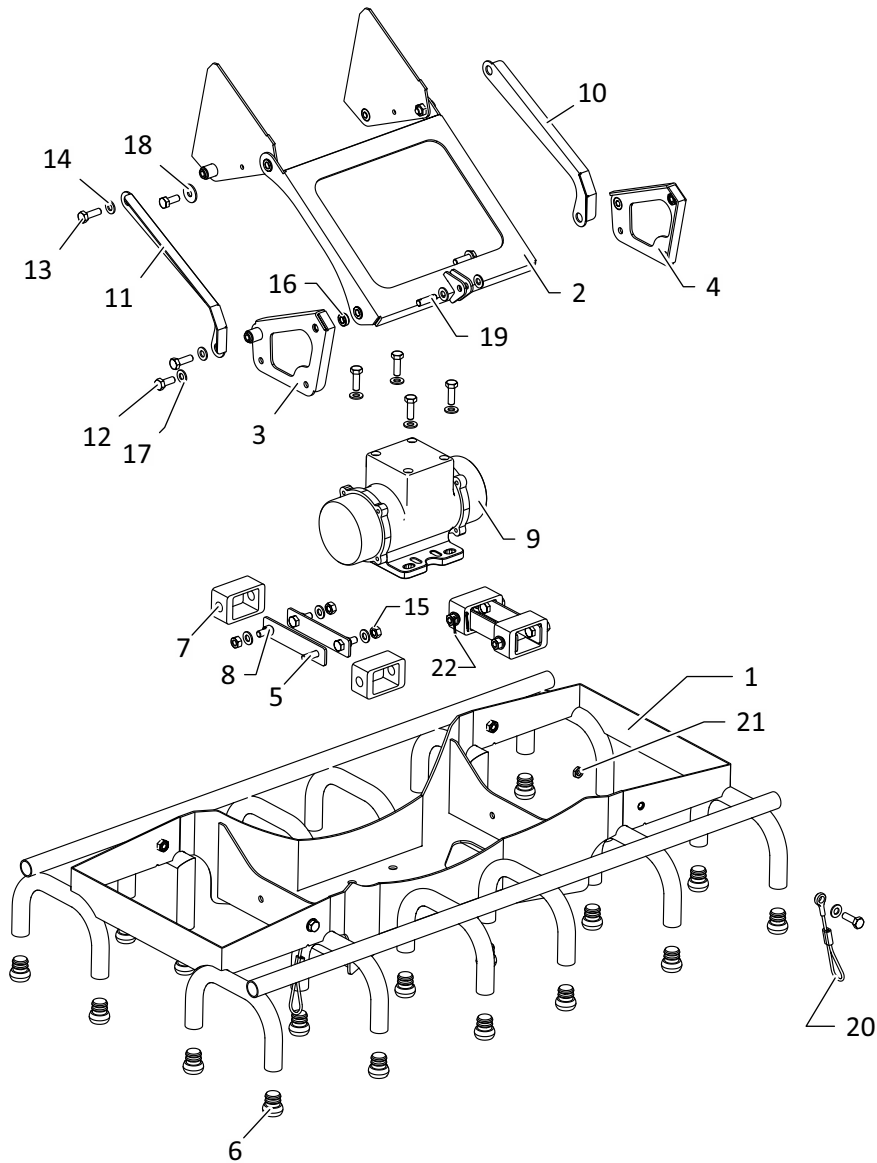
HOPPER GROUP



HOPPER GROUP

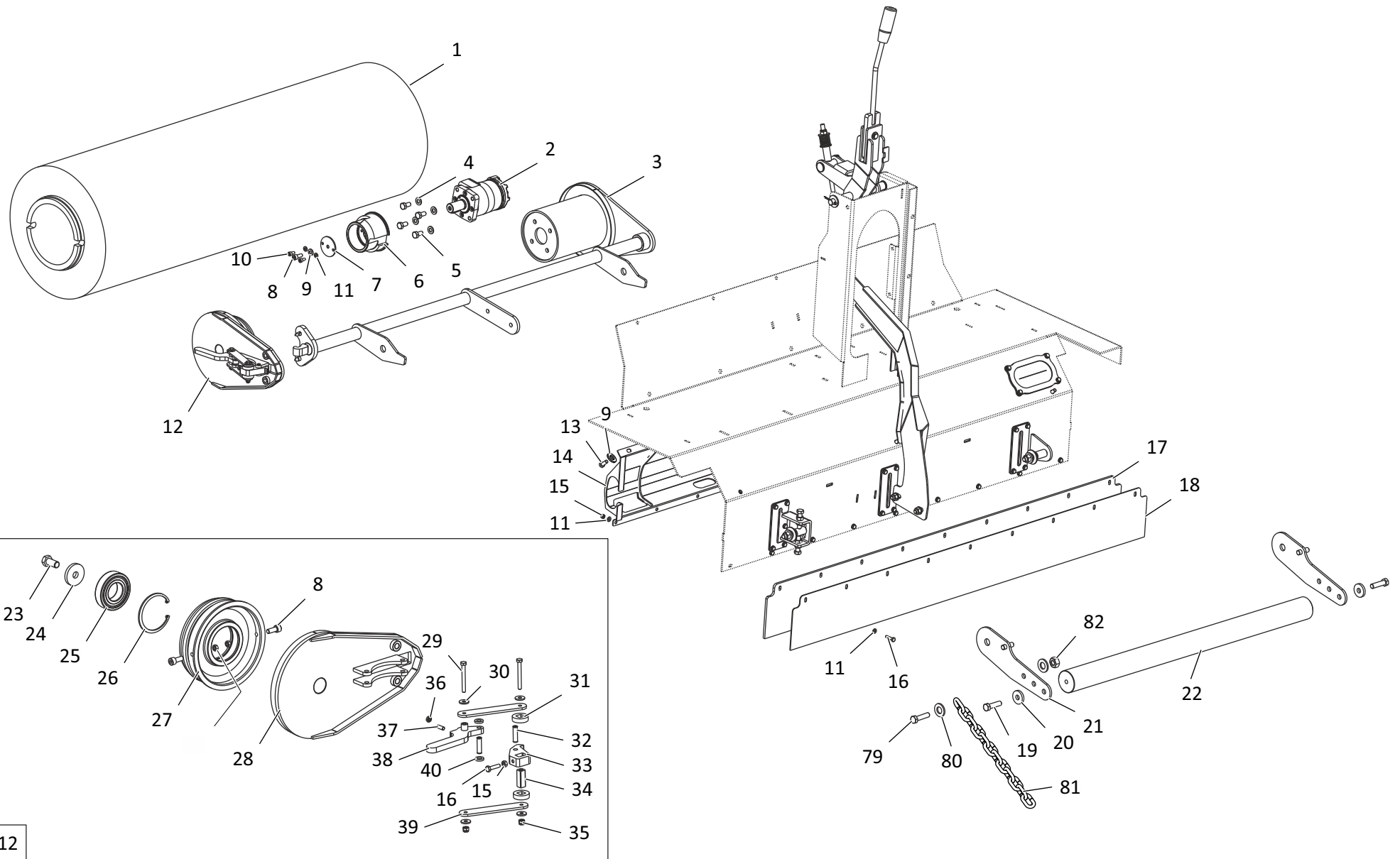
REF.NO.	PART NO	DESCRIPTON	QTY
61	553440288-00	SPECIAL WASHER - 21 X 37 X 3	2
62	558441324-00	TOP DOOR WMT - HOPPER	1
63	553440622-00	SUPPORT PILLAR - FILTER COVER HANDLE	2
64	553440623-00	FILTER COVER LIFT ROD	1
65	552250004-00	HEX LOCK NUT STEEL - M8	1
66	552850207-00	WASHER - EN8 - 12.5X28X3	2
67	552850904-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 25	2
68	552850804-00	HEX NUT - STEEL GR. 8 - M12	1
69	558441325-00	STOPPER - VIBRATOR FRAME	1
70	553442519-00	GASKET - FILTER DOOR	1
71	553440107-00	PIN - 8 X 28	1
72	552330003-00	COTTER PIN - STEEL - 2X16	2
73	553442601-00	RUBBER FLAP - BOTTOM DOOR	1
74	553442871-00	HOPPER DOOR CLIP ON SEALING UPPER BULB	2
75	558441342-00	DOOR BOTTOM WMT - HOPPER	1
76	558441343-00	PIVOT RH WMT - BOTTOM DOOR	1
77	558441344-00	PIVOT LH WMT - DOOR BOTTOM	1
78	558441345-00	PLATE WMT - RUBBER DOOR BOTTOM ASSY	1
79	552850912-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M10 X 20	6
80	553440596-00	FOAM - REAR DOOR	2
81	58441326-00	STOPPER - FILTER DOOR GAS SPRING	1

HOPPER GROUP - VIBRATOR



REF.NO.	PART NO	DESCRIPTION	QTY
1	558441335-00	VIBRATOR MTG WMT - HOPPER	1
2	558441337-00	CRANK WMT - VB FRAME ASSSY	1
3	558441338-00	HOLDER VIBRATOR MOUNT RH - WMT	1
4	558441339-00	HOLDER VIBRATOR MOUNT LH - WMT	1
5	558440137-00	PLATE VIBRATOR MOTOR - WMT	4
6	553440433-00	BUSH PLATE - FILTER ASSY	24
7	553440390-00	DAMPER - VIBRATOR MOUNT	4
8	553440443-00	BUSH - VIBRATOR MOUNT	8
9	553461376-00	VIBRATOR MOTOR	1
10	553442568-00	CRANK LH - SINGLE VIBRATOR MOUNT	1
11	553442569-00	CRANK RH - SINGLE VIBRATOR MOUNT	1
12	552850009-00	HEX HD SCREW - STEEL 8.8 - M8X20	4
13	552850010-00	HEX HD SCREW - STEEL 8.8 - M8X25	10
14	552850203-00	WASHER - EN8 - 8.4X17X1.6	16
15	552850802-00	HEX NUT - STEEL GR.8 - M8	8
16	553442194-00	BUSH - STEERING TILT HINGE	4
17	552350031-00	WASHER - STEEL - 8.4X17X1.6	4
18	552350017-00	WASHER - STEEL - 8.4X24X2.0	2
19	553440107-00	PIN - 8 X 28	1
20	558441285-00	ROPE - FILTER FRAME MTG	2
21	552250004-00	HEX LOCK NUT - STEEL M8	2
22	552330003-00	COTTER PIN - STEEL - 2.0x16	2

MAIN BROOM GROUP



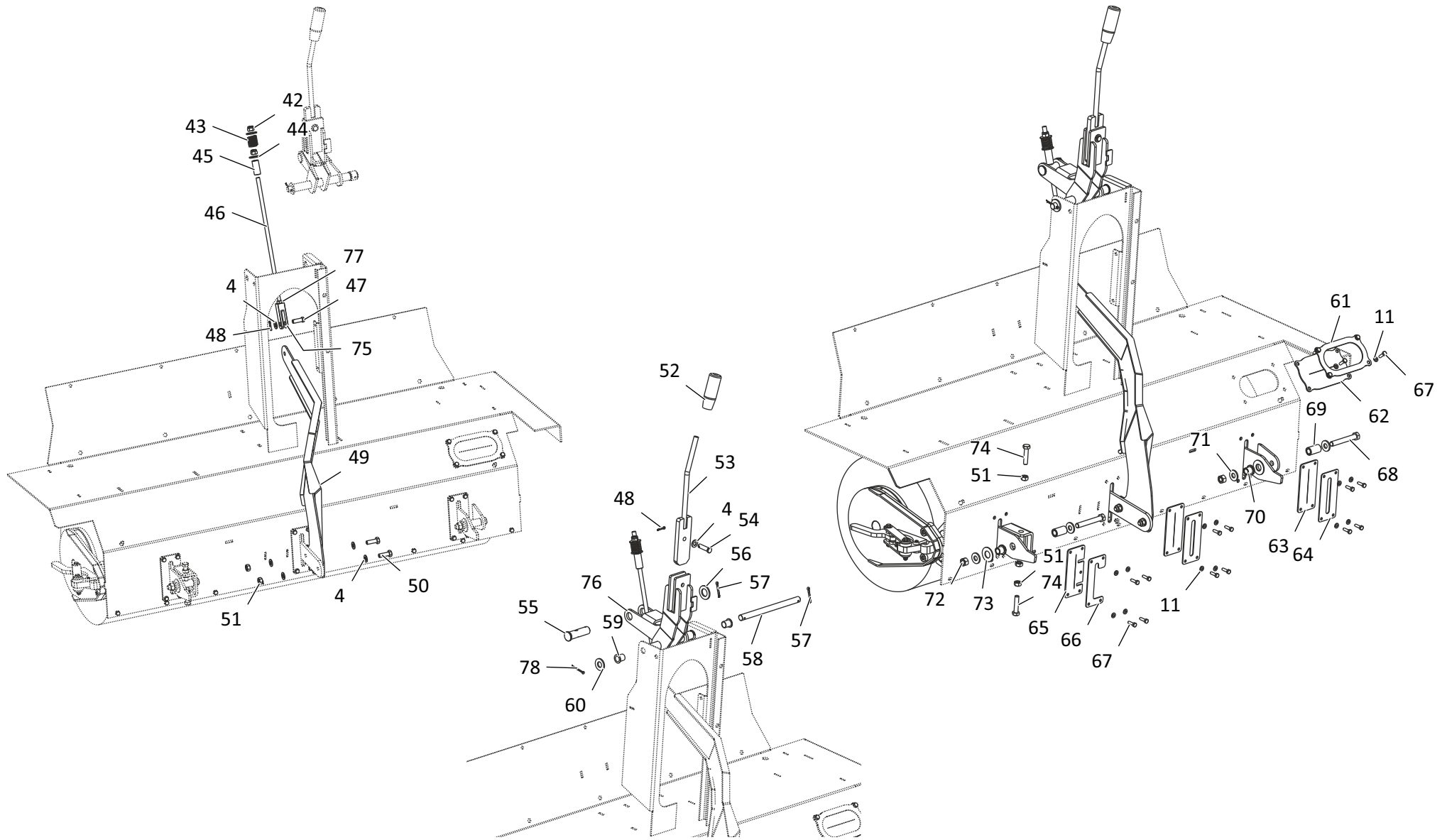
12

MAIN BROOM GROUP

REF. NO.	PART NO	DESCRIPTON	QTY
1	553440398-00	MAIN BROOM - Rhino	1
2	553440397-00	MOTOR - MAIN BROOM	1
3	558441258-00	MB LIFTING ARM WMT	1
4	552850205-00	WASHER - EN8 - 10.5x20x2	11
5	552850017-00	HEX HEAD SCREW STEEL - 8.8 M10 X 25	4
6	553440395-00	HUB MAIN BROOM DRIVE (MACHINING)	1
7	553440880-00	RETAINER - HUB MB DRIVE	1
8	552850604-00	HEX SOC HD CAP SCREW -STEEL 8.8 -M8 X 20	3
9	552850203-00	WASHER - EN8 - 8.4x17x1.6	4
10	552850601-00	HEX SOC HD CAP SCREW -STEEL 8.8 -M6 X 12	2
11	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	36
12	558441260-00	MB IDLER ARM ASSY	1
13	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	3
14	558441237-00	MB DUST COVER WMT	1
15	552850801-00	HEX NUT - STEEL GR. 8 - M6	10
16	552850006-00	HEX HEAD SCREW STEEL - 8.8 M6 X 25	10
17	553440108-00	MB RUBBER REAR - PINK	1
18	553442846-00	MB REAR RUBBER - BLACK	1
19	552850038-00	HEX HEAD SCREW STEEL - 8.8 M12 X 45	2
20	553442726-00	WASHER - PIVOT ARM CW END	2

REF. NO.	PART NO	DESCRIPTON	QTY
21	558441240-00	CW PIVOT WMT - MB	2
22	553442725-00	ROUND BAR - MB CW	1
23	552850026-00	HEX HEAD SCREW STEEL - 8.8 M12 X 25	1
24	553440881-00	SPACER STEEL - 12 X 42 X 6	1
25	552610057-00	DG BALL BEARING 6207 - 2RS	1
26	552670143-00	CIRCLIP - B72	1
27	553440405-00	HUB - IDLER ARM DRIVE	1
28	558441261-00	IDLER WMT - MB IDLER ARM ASSY	1
29	552850054-00	HEX HEAD SCREW STEEL 8.8 - M6 X 55	2
30	552350013-00	WASHER-STEEL-6.4 X 18 X 2.0	4
31	553442672-00	SPACER - MB TOGG CLAMP	2
32	553442674-00	DOWEL PIN - 8 X 30	2
33	553442667-00	TOG CLAMP LOCKER MB IDLER ARM ASSY	1
34	553442671-00	SQUARE BUSH - MB TOG CLAMP	1
35	552480011-00	HEX NYLOCK NUT STEEL M6	2
36	552250003-00	HEX LOCK NUT - STEEL GR. 08 - M6	1
37	552700012-00	HEX SOC HD GRUB SCREW STEEL - M6x10	1
38	558441295-00	MB TOGGLE HANDLE WMT	1
39	553442669-00	CONNECTOR TOGG - MB IDL ARM ASSY	2
40	553442673-00	SPACER - HANDLE END MB TOGG CLAMP	2

MAIN BROOM GROUP

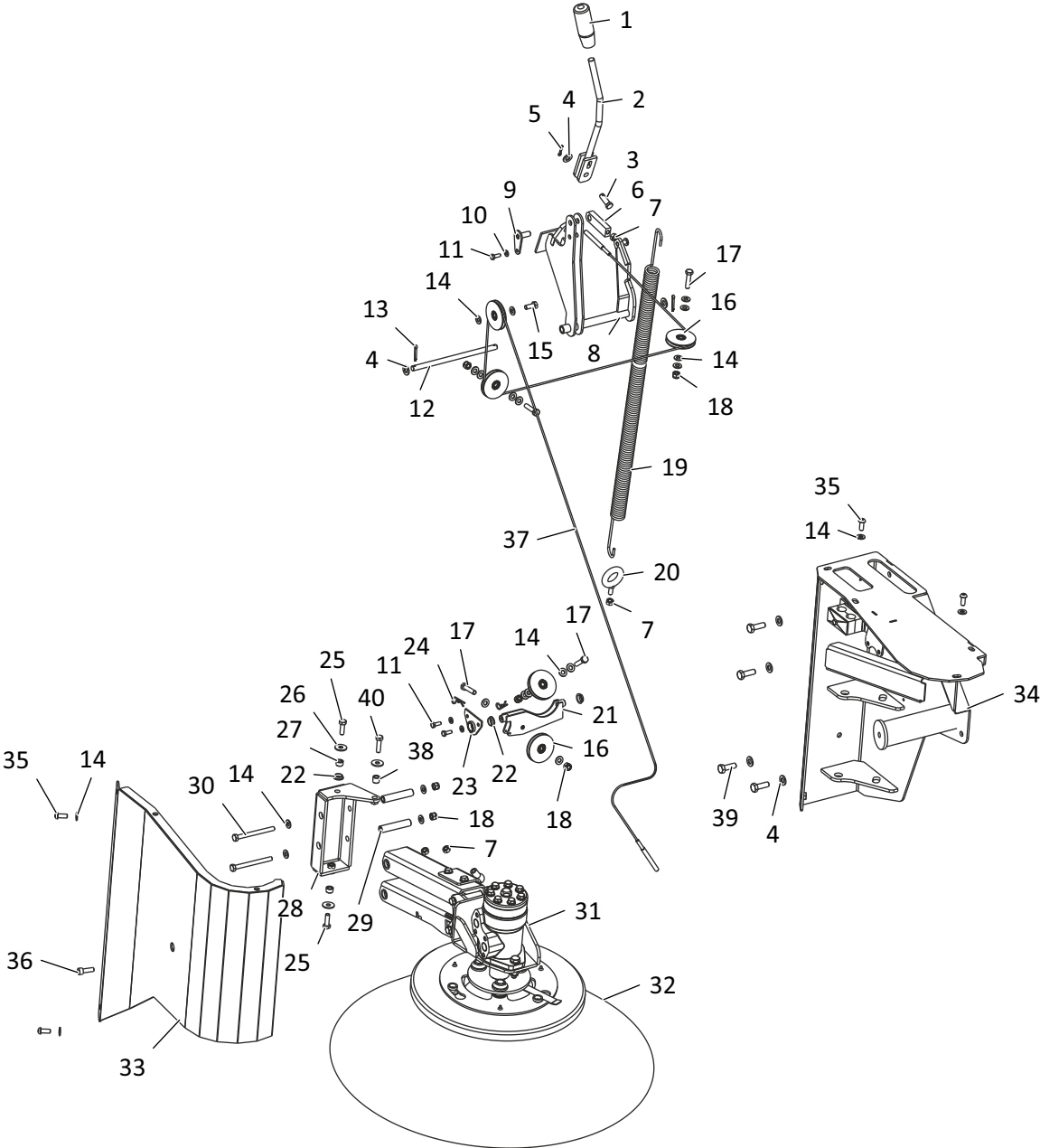


MAIN BROOM GROUP

REF. NO.	PART NO	DESCRIPTON	QTY
41	552850802-00	HEX NUT - STEEL GR. 8 - M8	2
42	552480012-00	HEX NYLOCK NUT STEEL M10	2
43	553442727-00	COMP SPRING - MB LEVER HOLDER	1
44	552850206-00	WASHER - EN8 - 10.5x30x2	2
45	553440891-00	BUSH - MB LIFTING ADJUSTMENT	1
46	553442680-00	MB CONNECTING ROD	1
47	553440890-00	CLEVIS PIN - MB LIFTING	1
48	552330004-00	COTTER PIN - STEEL - 3.2X16	2
49	558440028-00	CRANK WMT - MB LIFTING	1
50	552850018-00	HEX HEAD SCREW STEEL - 8.8 M10 X 30	2
51	552850803-00	HEX NUT - STEEL GR. 8 - M10	4
52	553440905-00	HANDLE - BRUSH LIFTING LEVER	1
53	558441239-00	LIFTING ROD WMT - MB	1
54	553442334-00	PIVOT PIN - MB LEVER	1
55	553442333-00	HINGE PIN - MB CONENCTING ROD	1
56	553440288-00	SPECIAL WASHER - 21 X 37 X 3	1
57	552330009-00	COTTER PIN STEEL 4X40	2
58	553442679-00	PIVOT PIN MB LEVER CRANK ASSY	1
59	552610073-00	IGUS BEARING - IGLIDUR - GFM 1517-20	2
60	553442678-00	WASHER - MB LEVER CRANK ASSY	1
61	553441180-00	RUBBER SEAL - MOTOR INLET HOSE MB	1

REF. NO.	PART NO	DESCRIPTON	QTY
62	553440026-00	SHEET HOSE GUIDE - MB	1
63	553440024-00	RUBBER RH - MB GROUP	2
64	553440721-00	PLATE RH - MB GROUP	2
65	553440019-00	RUBBER LH - MB GROUP	1
66	553440017-00	PLATE LH - MB GROUP	1
67	552850005-00	HEX HEAD SCREW STEEL - 8.8 M6 X 20	16
68	552850053-00	HEX HEAD SCREW STEEL 8.8 - M12 X 85	2
69	553440904-00	SPACER - LINK ARM MB	2
70	553442675-00	BUSH - HINGE - MB LIFTING ARM	2
71	552850207-00	WASHER - EN8 - 12.5x28x3	4
72	552850804-00	HEX NUT - STEEL GR. 8 - M12	2
73	553442722-00	SPACER - MB CW ARM	2
74	552850019-00	HEX HEAD SCREW STEEL - 8.8 M10 X 45	2
75	553440889-00	END FORK - MB LIFTING	1
76	558441238-00	MB LEVER CRANK WMT	1
77	552850802-00	HEX NUT - STEEL GR. 8 - M8	1
78	552330007-00	COTTER PIN STEEL 3.2X35	1
79	552850021-00	HEX HEAD SCREW STEEL - 8.8 M12 X 55	1
80	552350022-00	WASHER-STEEL-13X28X3	2
81	553442907-00	CHAIN - ELECTRICAL DISCHARGE	1
82	552480014-00	HEX NYLOCK NUT STEEL M12	1

SIDE BROOM GROUP

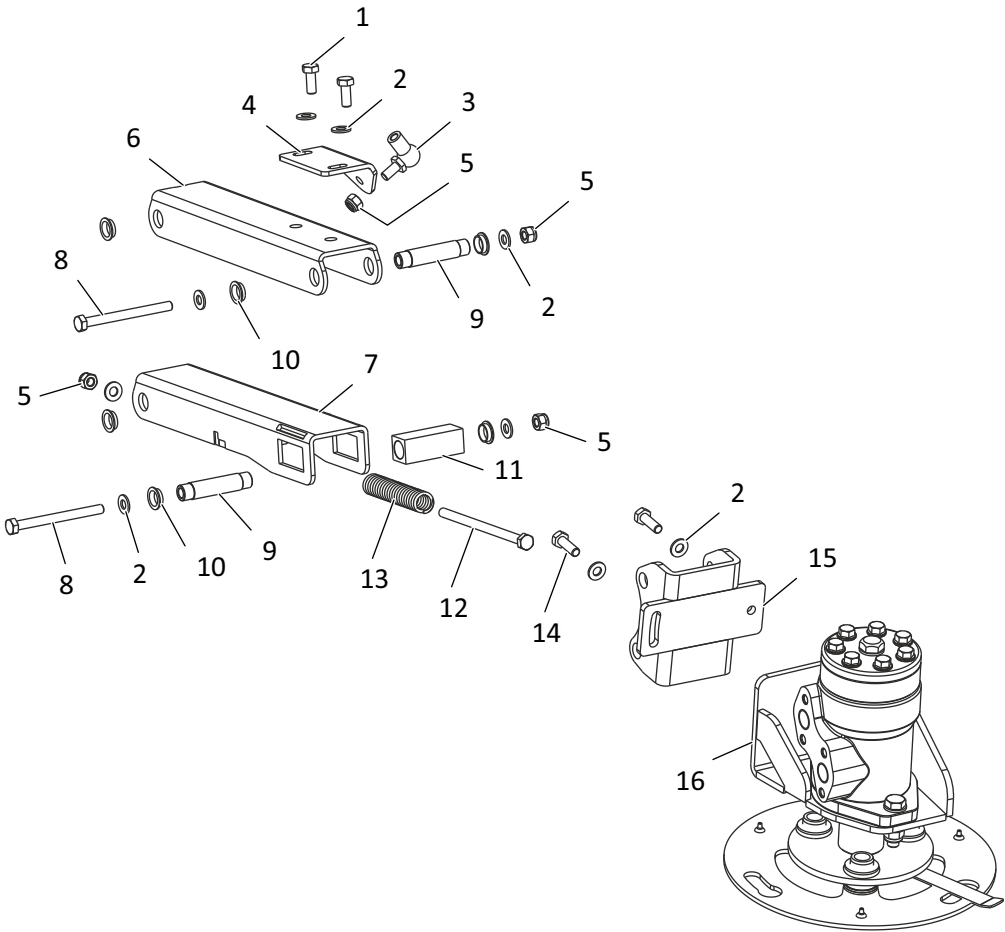


SIDE BROOM GROUP

REF. NO.	PART NO	DESCRIPTON	QTY
1	553440905-00	HANDLE - BRUSH LIFTING LEVER	1
2	558441243-00	LIFTING LEVER WMT - SB	1
3	553440890-00	CLEVIS PIN - MB LIFTING	1
4	552850205-00	WASHER - EN8 - 10.5x20x2	7
5	552330004-00	COTTER PIN - STEEL - 3.2X16	1
6	553440626-00	END FORK - SB LIFTING	1
7	552850802-00	HEX NUT - STEEL GR. 8 - M8	4
8	558440562-00	LIFTING HINGE WMT - SB	1
9	558440098-00	CABLE LOCK PIN WMT	1
10	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	3
11	552850004-00	HEX HEAD SCREW STEEL - 8.8 M6 X 16	3
12	553440898-00	PIN LONG - LIFTING HINGE	1
13	552330006-00	COTTER PIN - STEEL - 4 X 20	2
14	552850203-00	WASHER - EN8 - 8.4x17x1.6	26
15	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	1
16	558440112-00	ROLLER ASSY - SB CABLE	5
17	552850028-00	HEX HEAD SCREW STEEL - 8.8 M8 X 35	4
18	552480008-00	HEX NYLOCK NUT STEEL -M8	6
19	553441229-00	TENSION SPRING - SB	1
20	553440384-00	EYE BOLT - SB SPRING M8 X 1.25	1

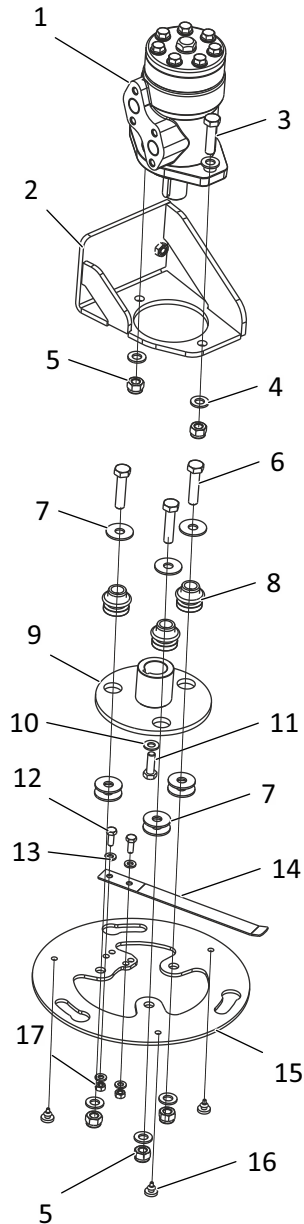
REF. NO.	PART NO	DESCRIPTON	QTY
21	558440081-00	ROLLER BKT WMT - SB	1
22	552610065-00	IGUS BEARING - IGLIDUR GFM 1416-06	4
23	558440082-00	ROLLER BKT LOCK WMT	1
24	553320110-00	LINCH PIN	2
25	552850010-00	HEX HEAD SCREW STEEL - 8.8 M8 X 25	2
26	552850204-00	WASHER - EN8 - 8.4x24x2	3
27	553440304-00	BUSH - SB HOUSING WMT	2
28	558441259-00	PIVOT BKT - SB ARM MOUNTING WMT	1
29	553440317-00	SLEEVE - LINKAGE ASSY	2
30	552850033-00	HEX HEAD SCREW STEEL - 8.8 M8 X 90	2
31	558441251-00	SB LINK ASSY - HYD MOTOR	1
32	553440661-00	SIDE BROOM - RHINO	1
33	558441249-00	SIDE BRUSH GUARD WMT	1
34	558441250-00	SB HOUSING WMT	1
35	552850907-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 20	4
36	552230022-00	HEX SOC HEAD CAP SCREW -STEEL -M8X25	1
37	558441245-00	LIFTING CABLE - SIDE BRUSH ASSY	1
38	553440250-00	STOPPER BUSH SB	1
39	552850018-00	HEX HEAD SCREW STEEL - 8.8 M10 X 30	4
40	552850011-00	HEX HEAD SCREW STEEL - 8.8 M8 X 30	1

SIDE BROOM GROUP



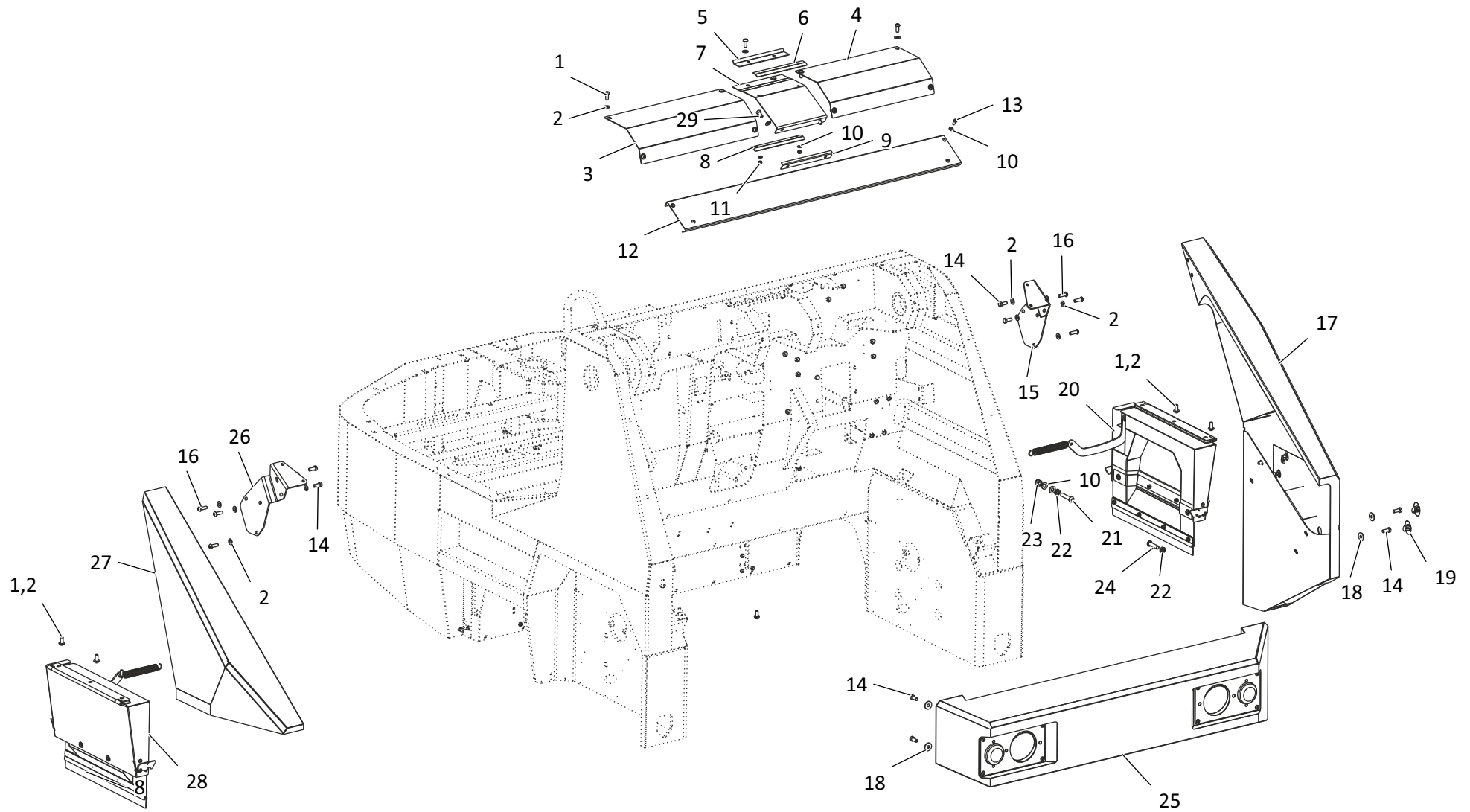
REF. NO.	PART NO	DESCRIPTON	QTY
1	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	2
2	552850203-00	WASHER - EN8 - 8.4x17x1.6	9
3	553440332-00	BALL JOINT	1
4	553442694-00	BRACKET - BALL JOINT MOUNT	1
5	552480008-00	HEX NYLOCK NUT STEEL -M8	4
6	558441226-00	TOP LINK WMT - SB ARM ASSY	1
7	558441227-00	BOTTOM LINK WMT - SB ARM ASSY	1
8	552850033-00	HEX HEAD SCREW STEEL - 8.8 M8 X 90	2
9	553440317-00	SLEEVE - LINKAGE ASSY	2
10	552610065-00	IGUS BEARING - IGLIDUR GFM 1416-06	8
11	553440328-00	SLIDING SLEEVE - SB	1
12	552850032-00	HEX HEAD SCREW STEEL - 8.8 M8 X 140	1
13	553440668-00	SPRING SIDE BROOM	1
14	552850010-00	HEX HEAD SCREW STEEL - 8.8 M8 X 25	2
15	558440076-00	BASE WMT - SB	1
16	558441252-00	HYD SIDE BRUSH MOTOR ASSY	1

SIDE BROOM GROUP



REF. NO.	PART NO	DESCRIPTON	QTY
1	553442422-00	MOTOR - SIDE BRUSH	1
2	558441241-00	BKT WMT - HYD MOTOR HOUSING	1
3	552850052-00	HEX HEAD SCREW STEEL 8.8 - M10 X 40	2
4	552850205-00	WASHER - EN8 - 10.5x20x2	7
5	552480012-00	HEX NYLOCK NUT STEEL M10	5
6	552850019-00	HEX HEAD SCREW STEEL - 8.8 M10 X 45	3
7	552850206-00	WASHER - EN8 - 10.5x30x2	9
8	553440330-00	ISOLATOR - SB	3
9	558441242-00	HUB WMT - SB HYD MOTOR	1
10	552850203-00	WASHER - EN8 - 8.4x17x1.6	1
11	552850010-00	HEX HEAD SCREW STEEL - 8.8 M8 X 25	1
12	552850004-00	HEX HEAD SCREW STEEL - 8.8 M6 X 16	2
13	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	4
14	553440519-00	LOCKING PLATE	1
15	553440471-00	SB HOLDING PLATE	1
16	553440331-00	SB DAMPER - RUBBER	3
17	552850801-00	HEX NUT - STEEL GR. 8 - M6	2

SKIRT GROUP



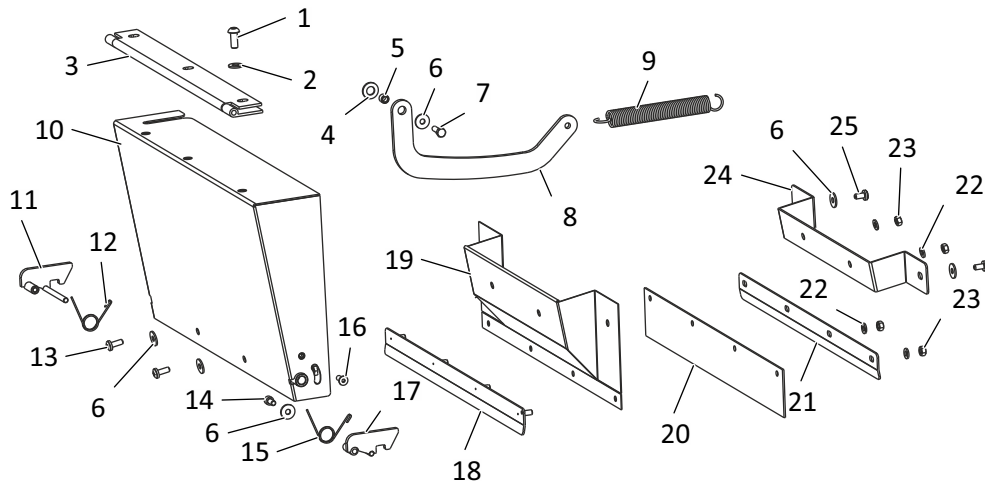
SKIRT GROUP

REF. NO.	PART NO	DESCRIPTON	QTY
1	552850907-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 20	14
2	552850203-00	WASHER - EN8 - 8.4x17x1.6	31
3	553442740-00	RH COSMETIC COVER	1
4	553442739-00	LH COSMETIC COVER	1
5	553442768-00	REAR PLATE - COSMETIC RUBBER MTG	1
6	558441303-00	TOP PLATE WMT - COS FLAP MTG	1
7	553442769-00	FRONT COSMETIC RUBBER	1
8	553442767-00	BOTTOM PLATE - COSMETIC RUBBER MTG	1
9	553441189-00	PLATE - COSMETIC RUBBER	1
10	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	15
11	552850801-00	HEX NUT - STEEL GR. 8 - M6	2
12	558441287-00	FRONT FLAP MTG WMT	1
13	552850902-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 16	4
14	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	17
15	558441298-00	LH BKT - COSMETIC COVER MTG WMT	1

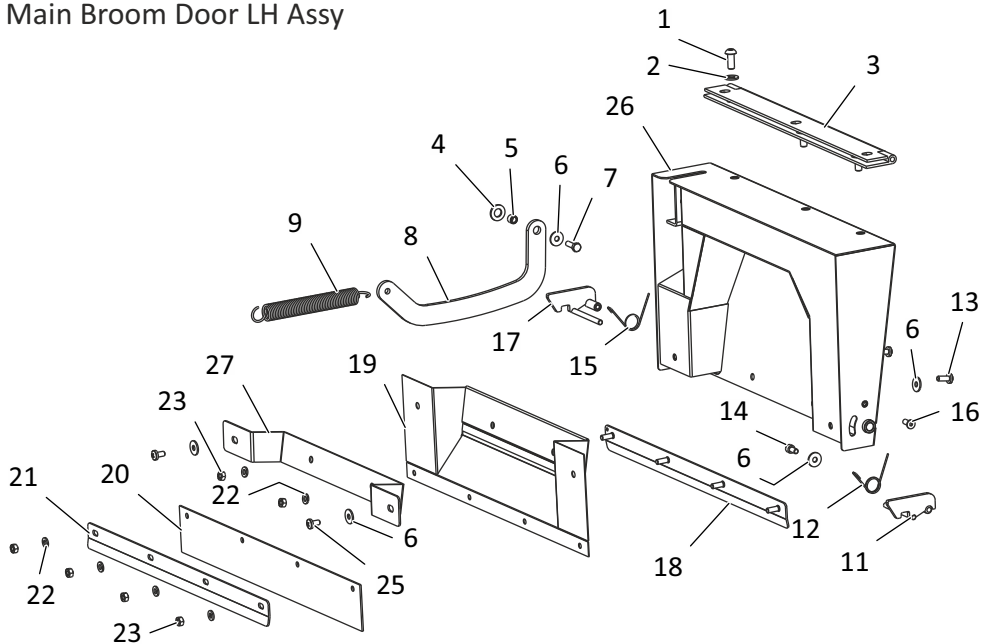
REF. NO.	PART NO	DESCRIPTON	QTY
16	552850908-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 25	6
17	558441283-00	LH SIDE COVER WMT - HOPPER END	1
18	552850204-00	WASHER - EN8 - 8.4x24x2	8
19	553441334-00	SIDE COVER PLUG	4
20	558441089-00	MB DOOR LH - ASSY	1
21	552850920-00	SOC BUTTON HD CAP SCREW ST 8.8 - M6X30	2
22	552250003-00	HEX LOCK NUT - STEEL GR. 08 - M6	4
23	552480011-00	HEX NYLOCK NUT STEEL M6	2
24	552850904-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 25	2
25	558441307-00	FRONT BUMPER ASSY	1
26	558441302-00	RH BKT - COSMETIC COVER MTG WMT	1
27	558441284-00	SIDE COVER RH WMT	1
28	558441088-00	MB DOOR RH - ASSY	1
29	552850008-00	HEX HEAD SCREW STEEL - 8.8 M8 X 16	2

SKIRT GROUP

Main Broom Door RH Assy

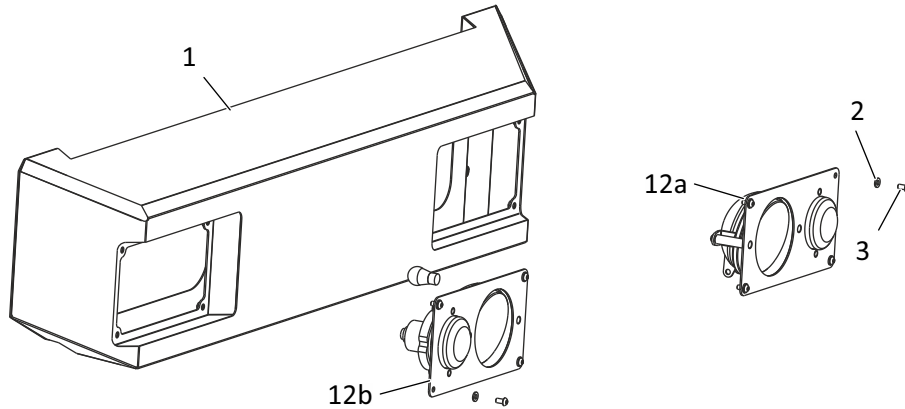


Main Broom Door LH Assy

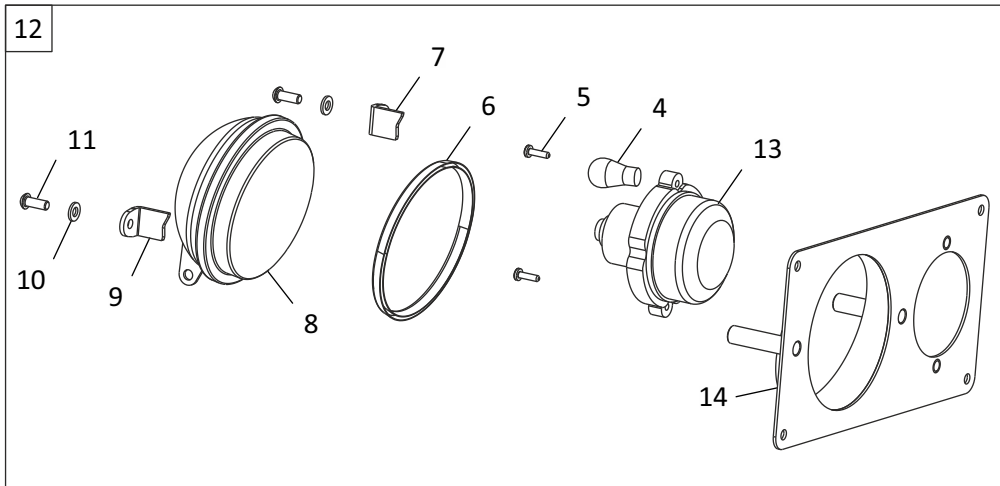


REF. NO.	PART NO	DESCRIPTION	QTY
1	552850907-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 20	6
2	552850203-00	WASHER - EN8 - 8.4x17x1.6	6
3	553440948-00	HINGE MB DOOR	2
4	552850205-00	WASHER - EN8 - 10.5x20x2	2
5	553350529-00	SPACER ROPE CT	2
6	552850202-00	WASHER - EN8 - 6.4x18x1.6	14
7	552850005-00	HEX HEAD SCREW STEEL - 8.8 M6 X 20	2
8	553440958-00	PLATE HINGE - MB DOOR ASSY	2
9	553440883-00	TOGGLE SPRING - MB DOOR ASSY	2
10	558441228-00	RH DOOR WMT - MAIN BRUSH	1
11	558440039-00	HINGE LH WMT - MB DOOR	2
12	553440995-00	SPRING LH - TORSION - MB DOOR ASSY	2
13	552850304-00	CR PAN HEAD SCREW - STEEL - M6 X 16	4
14	552850601-00	HEX SOC HD CAP SCREW -STEEL 8.8 -M6 X 12	4
15	553440959-00	SPRING RH - TORSION MB DOOR ASSY	2
16	552850502-00	HEX SOC CSK HD SCREW - M6x16	4
17	558440038-00	HINGE RH WMT - MB DOOR	2
18	558441289-00	PLATE STUD EMT - MB DOOR	2
19	553442711-00	FABRIC - MB DOOR	2
20	553442703-00	RUBBER BOTTOM - MB DOOR	2
21	553442702-00	PLATE BTM RUBBER MTG - MB DOOR	2
22	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	12
23	552850801-00	HEX NUT - STEEL GR. 8 - M6	12
24	553442701-00	PLATE FABRIC MTG RH MB DOOR	1
25	552850302-00	CR PAN HEAD SCREW - STEEL - M6 X 12	4
26	558441229-00	LH DOOR WMT - MAIN BRUSH	1
27	553442710-00	PLATE FABRIC MTG LH MB DOOR	1

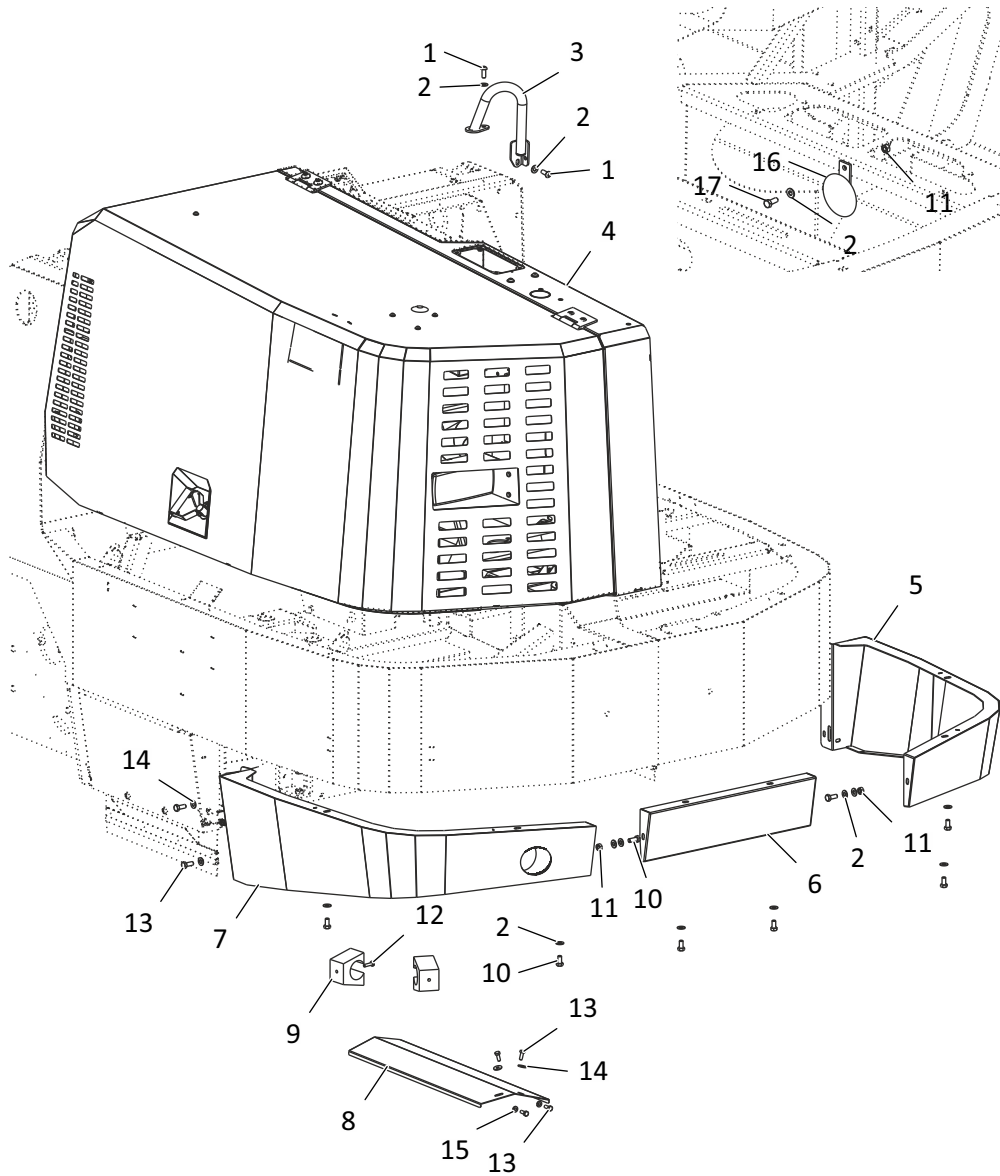
SKIRT GROUP



REF. NO.	PART NO	DESCRIPTON	QTY
1	558441277-00	BUMPER FRONT WMT	1
2	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	8
3	552850901-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 12	8
4	553442804-00	INDICATION BULB	1
5	552130006-00	CR PAN HEAD SCREW - STEEL - M4X15	2
6	553442956-00	BEADING HEAD LIGHT	2
7	553442581-00	CLAMP RH - LIGHT	1
8	553442805-00	HEAD LAMP 55W / 12V DC	2
8a	553442806-00	HEAD LAMP - H3 BULB	2
9	553442582-00	CLAMP LH - LIGHT	1
10	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	2
11	552850902-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 16	2
12a	558441279-00	FRONT LIGHT ASSY - LH	1
12b	558441281-00	FRONT LIGHT ASSY - RH	1
13a	553442834-00	FRONT INDICATOR - LH	1
13b	553442580-00	FRONT INDICATOR - RH	1
14a	558441280-00	LIGHT MTG WMT - LH	1
14b	558441282-00	LIGHT MTG WMT - RH	1

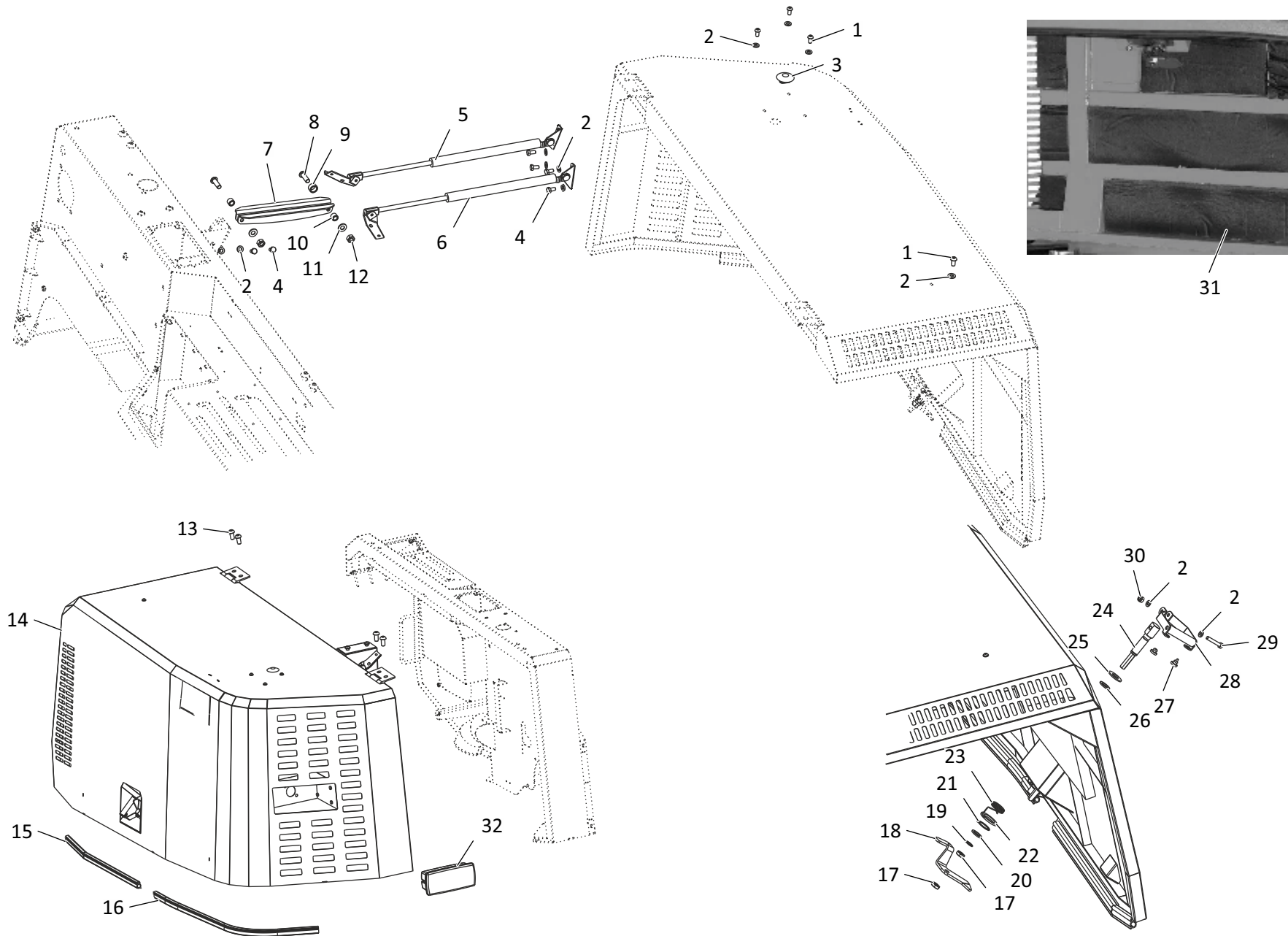


SKIRT GROUP



REF. NO.	PART NO	DESCRIPTION	QTY
1	552850907-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 20	4
2	552850203-00	WASHER - EN8 - 8.4x17x1.6	13
3	558441315-00	OP SUPPORT HANDLE WMT	1
4	558441230-00	ENGINE HOOD - ASSY	1
5	558440059-00	SKIRT WMT - RH	1
6	553440593-00	MID PLATE - REAR BUMPER	1
7	558441304-00	LH SKIRT WMT - REAR END	1
8	553442872-00	GUARD SILENCER - CHASSIS	1
9	553441259-00	CLAMP - ENGINE DRAIN HOSE	2
10	552850008-00	HEX HEAD SCREW STEEL - 8.8 M8 X 16	8
11	552850802-00	HEX NUT - STEEL GR. 8 - M8	3
12	552850303-00	CR PAN HEAD SCREW - STEEL - M6 X 25	2
13	552850004-00	HEX HEAD SCREW STEEL - 8.8 M6 X 16	8
14	552850202-00	WASHER - EN8 - 6.4x18x1.6	4
15	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	2
16	553440478-00	HORN - SMU 0	1
17	552850009-00	HEX HEAD SCREW STEEL - 8.8 M8 X 20	1

SKIRT GROUP

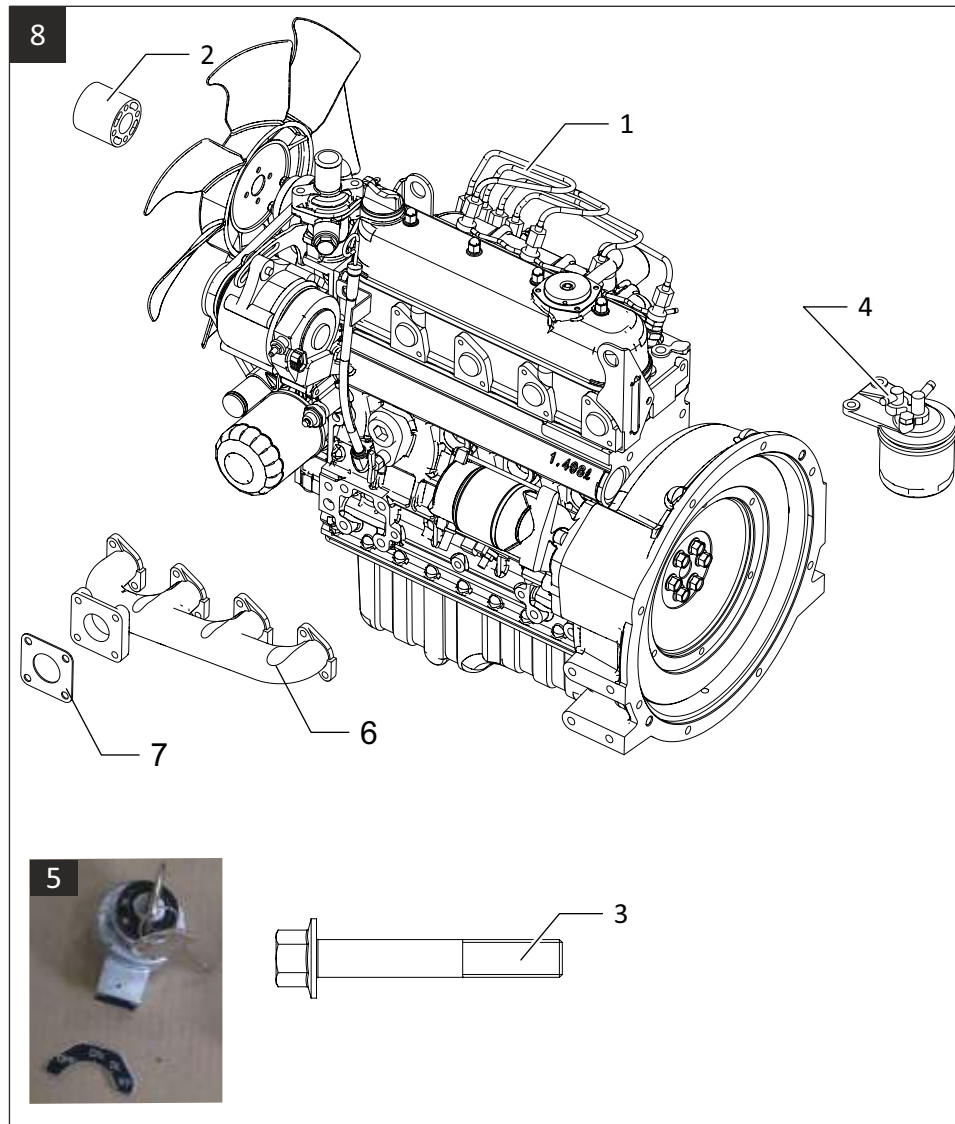


SKIRT GROUP

REF. NO.	PART NO	DESCRIPTON	QTY
1	552850901-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 12	4
2	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	18
3	553441334-00	SIDE COVER PLUG	1
4	552850003-00	HEX HEAD SCREW STEEL - 8.8 M6 X 12	8
5	553440755-00	TK INNOVA G SPR LH	1
6	553442831-00	TK INNOVA G SPR RH	1
7	553442913-00	GS STOPPER PLATE - EH ASSY	2
8	552850908-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M8 X 25	2
9	553442915-00	SLEEVE - EH STOPPER	1
10	553442914-00	BUSH - EH STOPPER	2
11	552850203-00	WASHER - EN8 - 8.4x17x1.6	4
12	552850802-00	HEX NUT - STEEL GR. 8 - M8	2
13	552850917-00	SOC BUTTON HD CAP SCREW-ST 8.8 -M12 X 25	4
14	558441231-00	ENGINE HOOD - WMT	1
15	553442851-00	BEADING FRONT - EH	1
16	553442852-00	BEADING REAR - EH	1

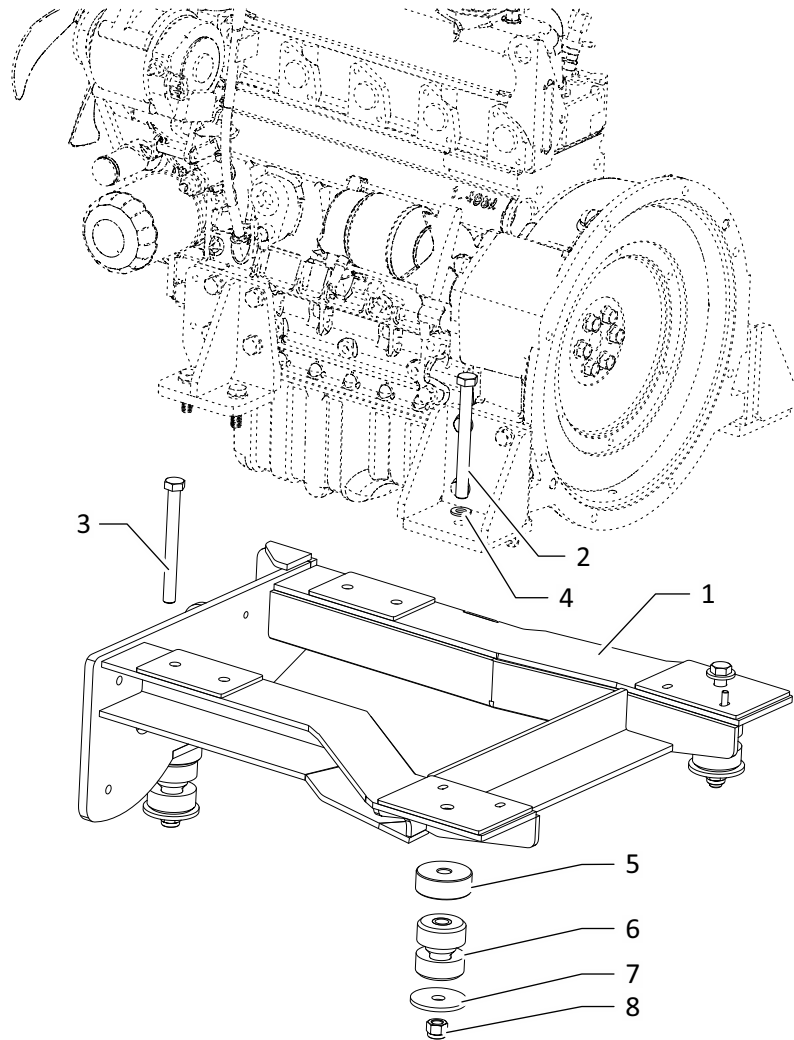
REF. NO.	PART NO	DESCRIPTON	QTY
17	552250009-00	HEX LOCK NUT - STEEL GR. 08 - M10	2
18	553442798-00	LOCKING PLATE ENGINE HOOD	1
19	552670108-00	CIRCLIP - A14	1
20	553441294-00	SPACER - EH LOCK	1
21	552670107-00	CIRCLIP - A25	1
22	553440484-00	SPACER - EH LOCK	1
23	553441296-00	SPRING TORSION - HOOD LOCK	1
24	553442799-00	STUD - EH LOCK	1
25	552430015-00	O RING - 12X2	1
26	552850207-00	WASHER - EN8 - 12.5x28x3	1
27	553440331-00	SB DAMPER - RUBBER	2
28	558441275-00	HANDLE - EH LOCK	1
29	552850030-00	HEX HEAD SCREW STEEL - 8.8 M6 X 35	1
30	552480011-00	HEX NYLOCK NUT STEEL M6	1
31	558441308-00	FOAM SET - ENGINE HOOD	1
32	553442857-00	TAIL LIGHT ASSY	1

ENGINE GROUP - ENGINE KIT - KUBOTA



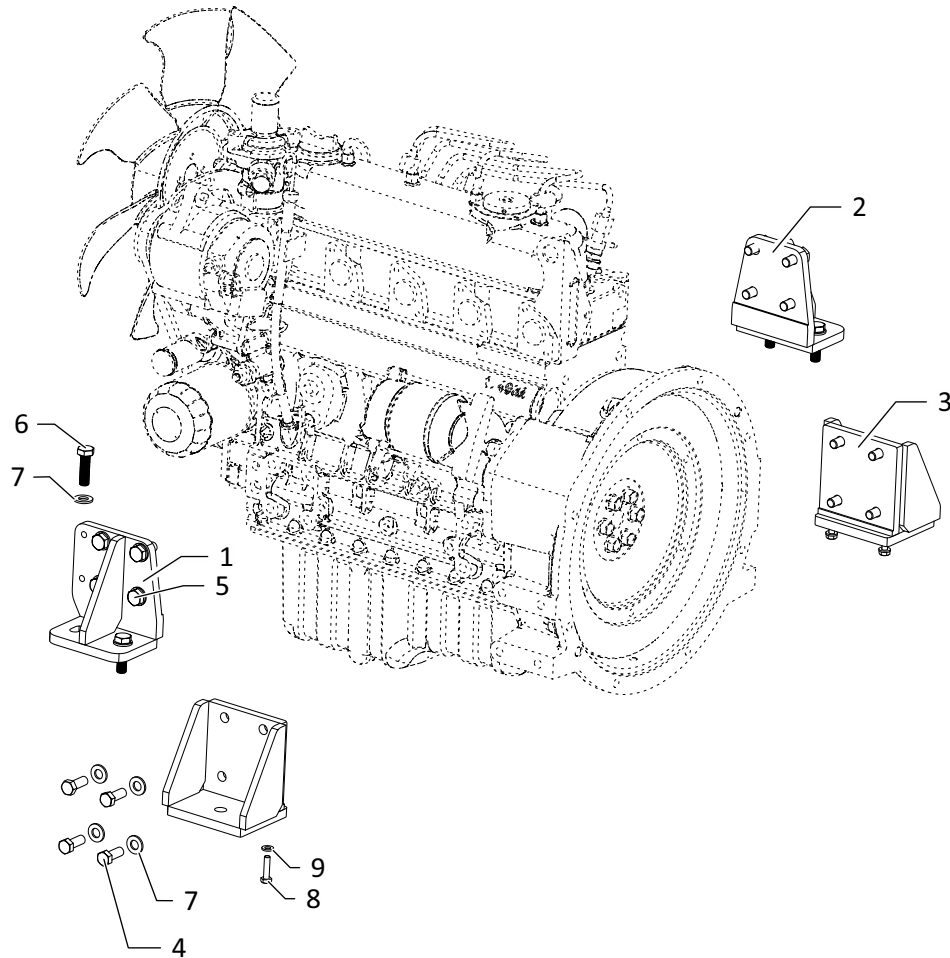
REF. NO.	PART NO	DESCRIPTION	QTY
1	553442001-00	ENGINE - KUBOTA V1505	1
2	553442002-00	FAN SPACER - KUBOTA ENGINE	1
3	553442003-00	M6 FLANGE BOLT - KUBOTA	4
4	558441002-00	FUEL FILTER KIT - KUBOTA	1
5	558441003-00	STARTER SWITCH KIT - KUBOTA	1
6	553442010-00	EXHAUST MANIFOLD - KUBOTA	1
7	553442011-00	GASKET - EX MANIFOLD KUBOTA	1
8	558441001-00	ENGINE KIT - KUBOTA V1505	1

ENGINE GROUP - BASE FRAME



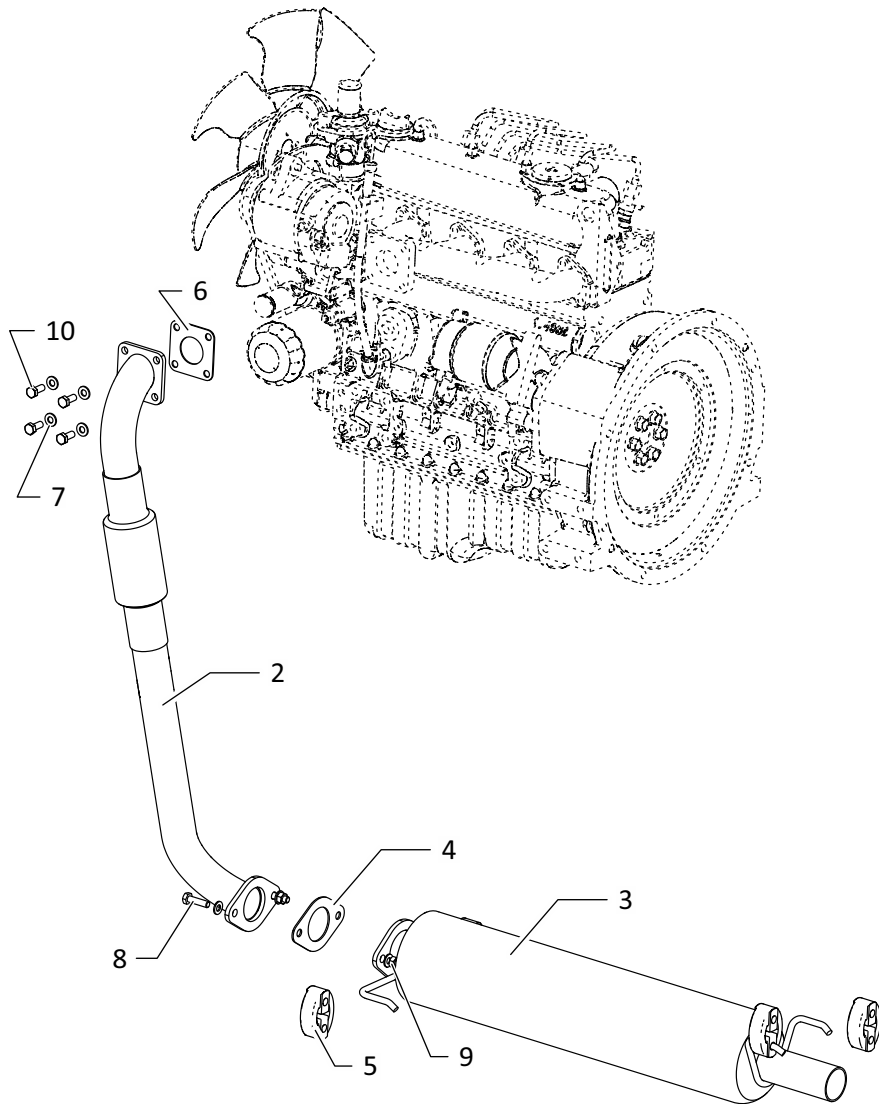
REF. NO.	PART NO	DESCRIPTION	QTY
1	558441008-00	ENGINE BASE FRAME - WMT	1
2	552850048-00	HEX HEAD SCREW STEEL - 8.8 - M12 X 120	2
3	552850047-00	HEX HEAD SCREW STEEL - 8.8 - M12 X 110	1
4	552850205-00	WASHER - EN8 - 10.5x20x2	3
5	553442014-00	SPACER - POLY BOND AVM	3
6	553442071-00	AVM PAD - PH 2	3
7	553442366-00	WASHER - REBOUND	3
8	552480014-00	HEX NYLOCK NUT STEEL - M12	3

ENGINE GROUP - ENGINE LEG

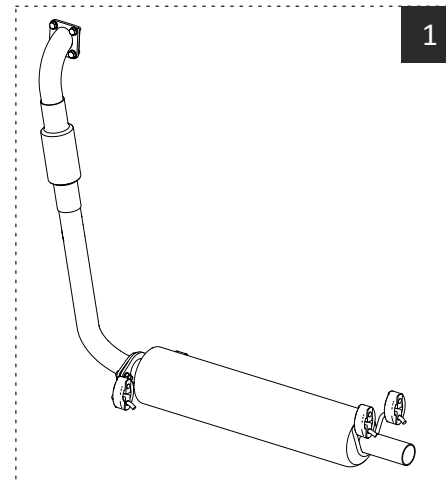


REF. NO.	PART NO	DESCRIPTION	QTY
1	558441007-00	ENGINE LEG LH - RADIATOR SIDE	1
2	558441005-00	ENGINE LEG RH - RADIATOR SIDE	1
3	558441006-00	ENGINE LEG -FLY WHEEL SIDE	2
4	553442367-00	HEX HEAD SCREW - 3/18 16UNC-25	8
5	553442368-00	HEX HEAD SCREW - M10 X 1.25 - 25	8
6	552850029-00	HEX HEAD SCREW STEEL - 8.8 - M10 X 35	4
7	552850205-00	WASHER - EN8 - 10.5x20x2	20
8	552850006-00	HEX HEAD SCREW STEEL - 8.8 M6 X 25	4
9	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	4

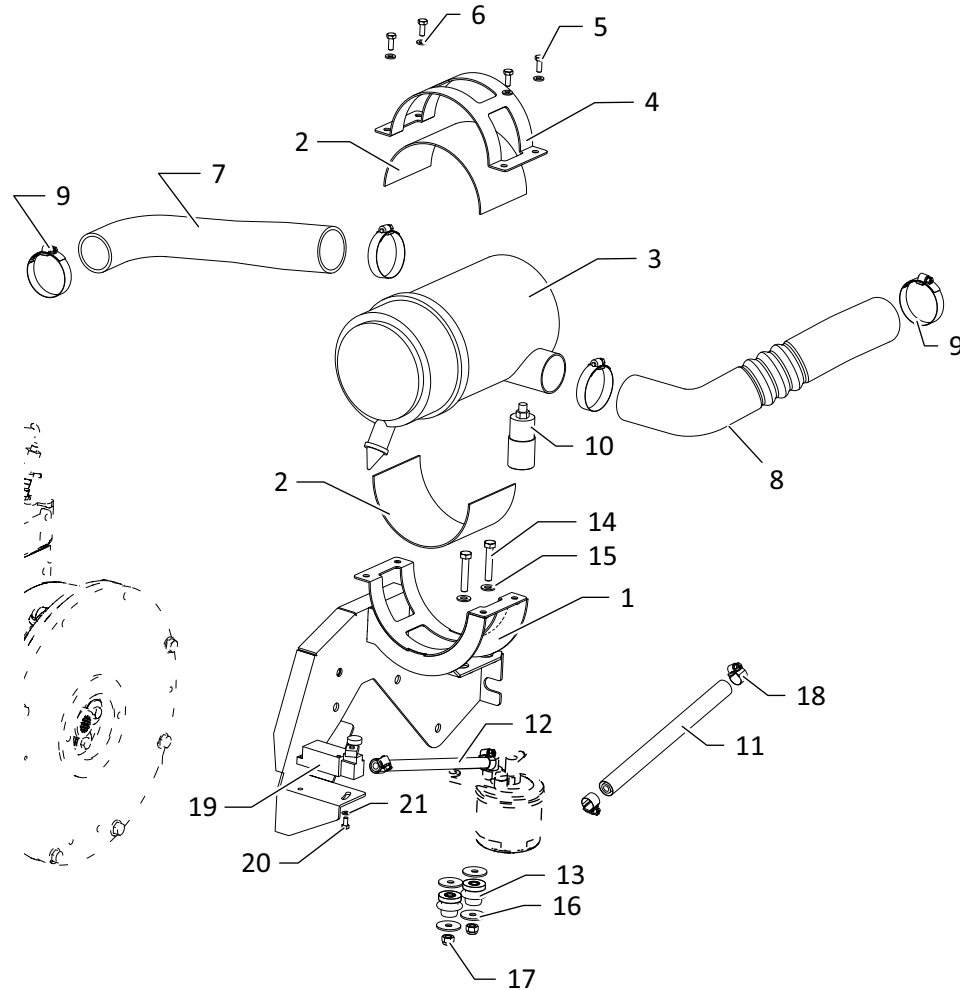
ENGINE GROUP - SILENCER



REF. NO.	PART NO	DESCRIPTION	QTY
1	558441043-00	SILENCER ASSY - EXPORT	1
2	558441044-00	SILENCER TUBE TOP - WMT	1
3	558441045-00	SILENCER END WMT - EXPORT	1
4	553440833-00	GASKET - SILENCER	1
5	553440162-00	RUBBER BED - SILENCER	4
6	553442391-00	GASKET TOP - SILENCER	1
7	552850203-00	WASHER - EN8 - 8.4x17x1.6	4
8	552850011-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 30	2
9	552850802-00	HEX NUT - STEEL GR. 8 - M8	2
10	552850009-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 20	4

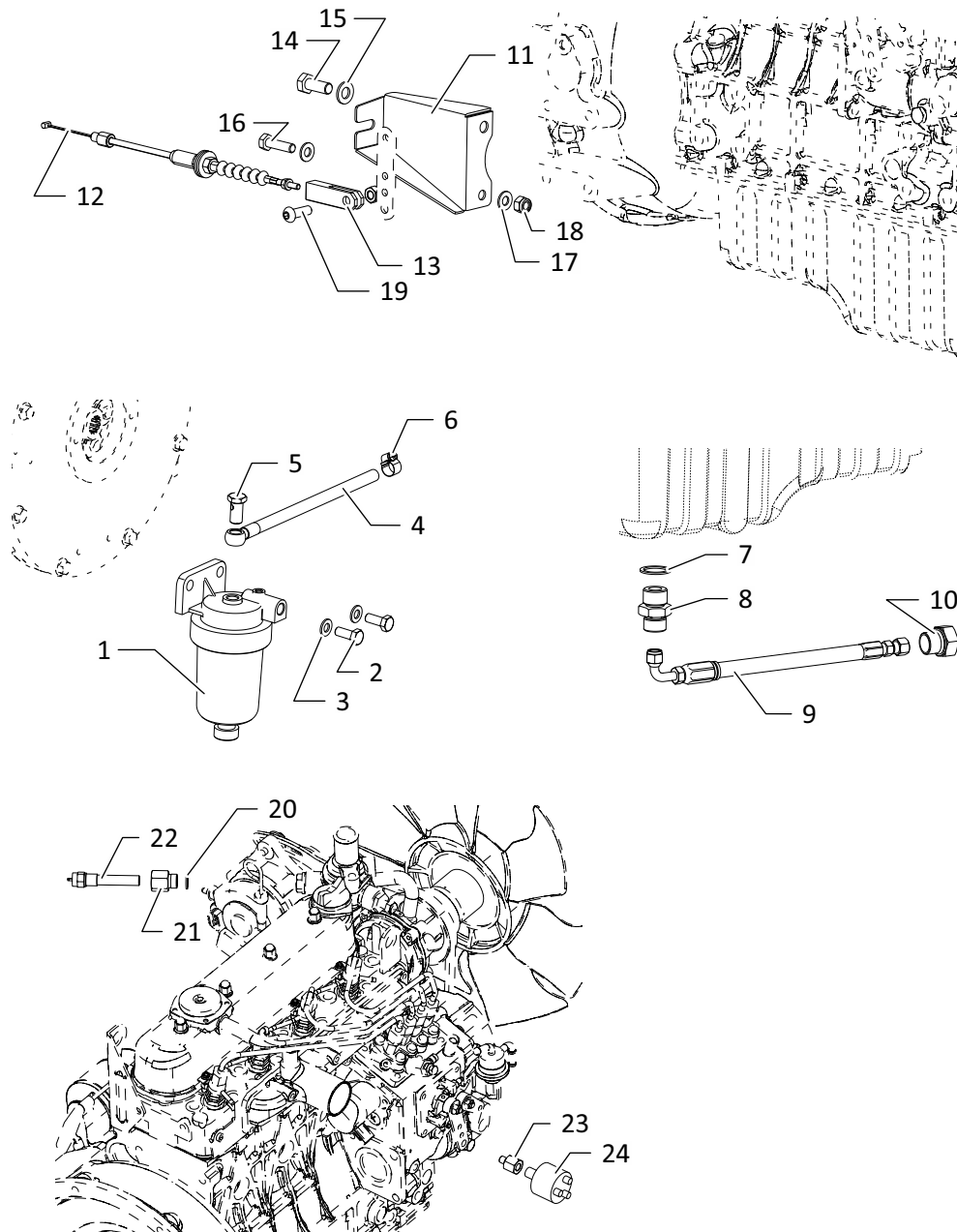


ENGINE GROUP - AIR FILTER



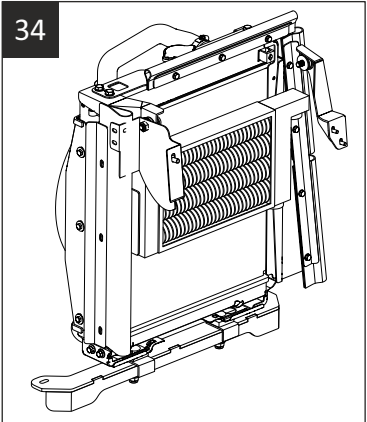
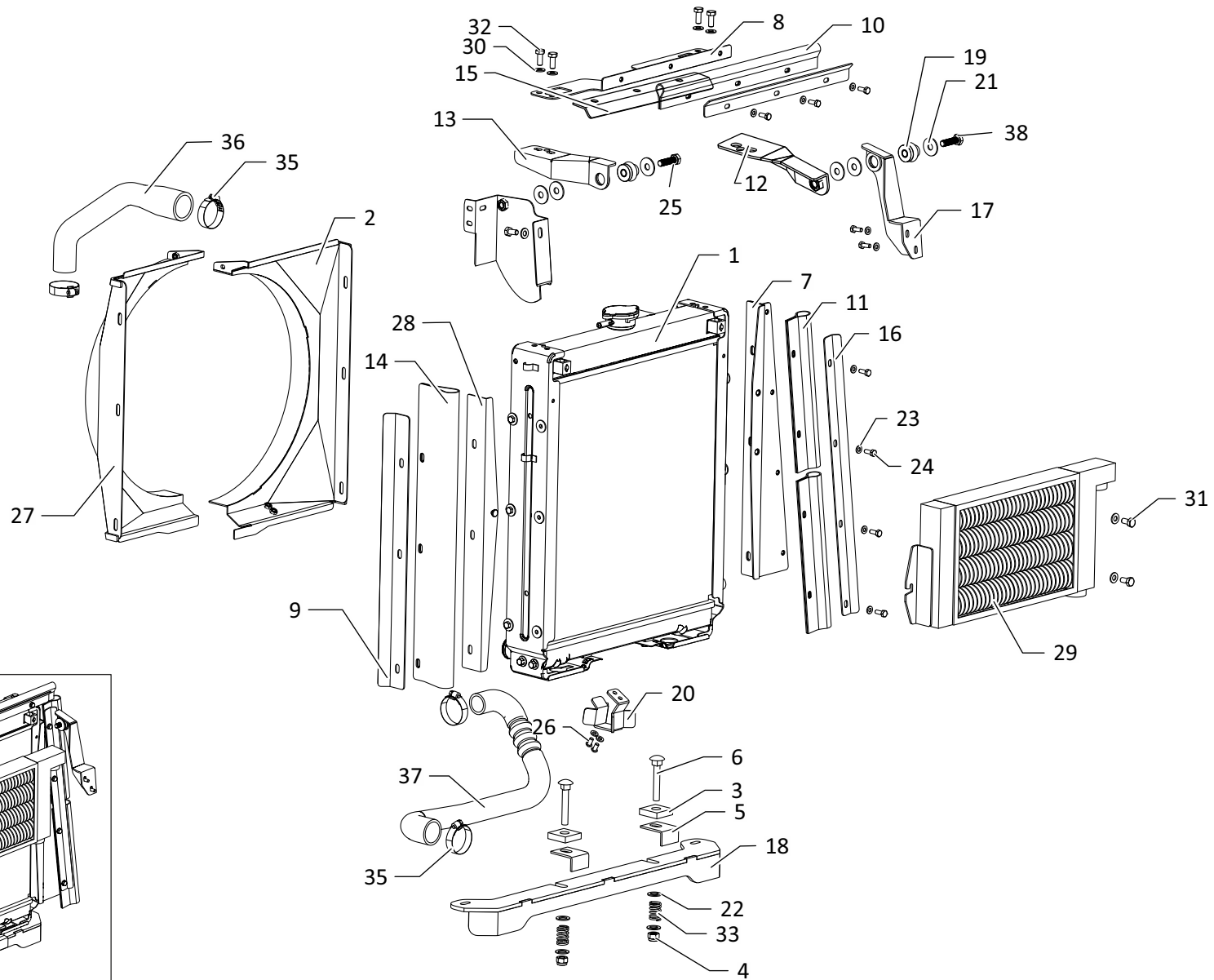
REF. NO.	PART NO	DESCRIPTION	QTY
1	558441014-00	AIR FILTER MTG WMT - EXPORT	1
2	553442013-00	RUBBER SHEET - AIR FILTER	2
3	553442073-00	AIR FILTER -60-90 CFM	1
4	553442415-00	CLAMP AIR FILTER - TOP	1
5	552850004-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 16	4
6	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	4
7	553442385-00	RUBBER HOSE - ENGINE	1
8	553442389-00	RUBBER HOSE KE-AIRFILTER INLET	1
9	552650003-00	HOSE CLAMP-45-65X1.6	4
10	553442922-00	AIR CLEANER SERVICE INDICATOR	1
11	553442418-00	DIESEL HOSE - FUEL FEED PUMP - FUEL FILTER	1
12	553442419-00	DIESEL HOSE - FUEL FILTER - FIP	1
13	553442904-00	ISOLATOR - FUEL FILTER	2
14	552850027-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 45	2
15	552850203-00	WASHER - EN8 - 8.4x17x1.6	2
16	553442850-00	SPACER - 8 X 30 X 2	4
17	552480008-00	HEX NYLOCK NUT STEEL - M8	2
18	552670160-00	HOSE CLAMP - 10-16	4
19	553441222-00	LIMIT SWITCH	1
20	552850002-00	HEX HEAD SCREW STEEL - 8.8 - M5 X 12	2
21	552350008-00	WASHER-STEEL - 5.3X10X1	2

ENGINE GROUP - THROTTLE CABLE, WATER SEPARATOR



REF. NO.	PART NO	DESCRIPTION	QTY
1	553461413-00	WATER SEPERATOR	1
2	552850017-00	HEX HEAD SCREW STEEL - 8.8 - M10 X 25	2
3	552850205-00	WASHER - EN8 - 10.5x20x2	2
4	553442417-00	DIESEL HOSE - SEPERATOR - FUEL FEED PUMP	1
5	553441141-00	BANJO BOLT - M14	1
6	552670160-00	HOSE CLAMP - 10-16	1
7	552870080-00	COPPER WASHER - M22	1
8	553442394-00	ADAPTER - ENGINE OIL DRAIN	1
9	553440780-00	ENGINE OIL DRAIN HOSE	1
10	553440777-00	DUMMY 1/2"	1
11	553442042-00	PLATE - ACCELERATOR CABLE MTG	1
12	558440017-00	CABLE ASSY - THROTTLE	1
13	553442921-00	FORK - THROTTLE EXPORT	1
14	553442368-00	HEX HEAD SCREW - M10 X 1.25 - 25	1
15	552850205-00	WASHER - EN8 - 10.5x20x2	1
16	552850011-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 30	1
17	552850203-00	WASHER - EN8 - 8.4x17x1.6	2
18	552480008-00	HEX NYLOCK NUT STEEL -M8	2
19	552850904-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 25	1
20	552670117-00	COPPER WASHER - 1/4 "	1
21	553442570-00	ADAPTER -TEMPERATURE SENSOR	1
22	553442906-00	TEMPERATURE SENSOR	1
23	553442905-00	ADAPTER - OIL PRESSURE SENSOR	1
24	553441398-00	SENSOR - OIL PRESSURE	1

ENGINE GROUP - RADIATOR

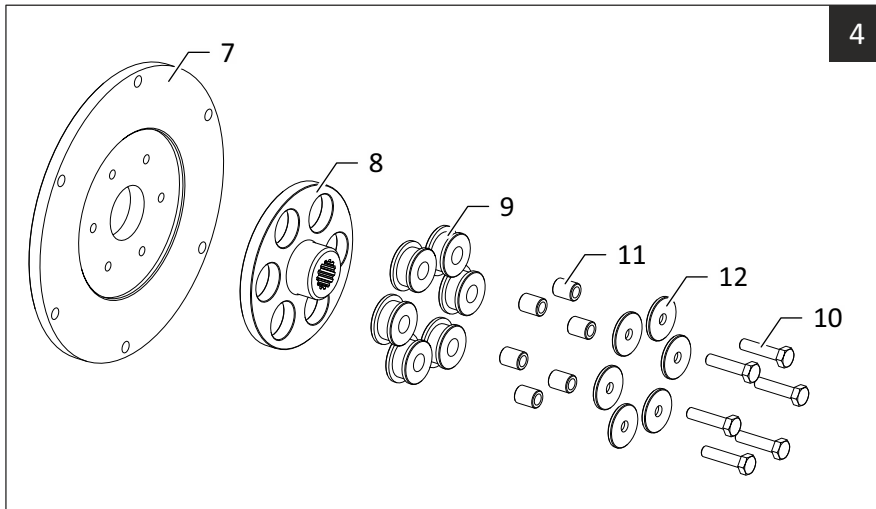
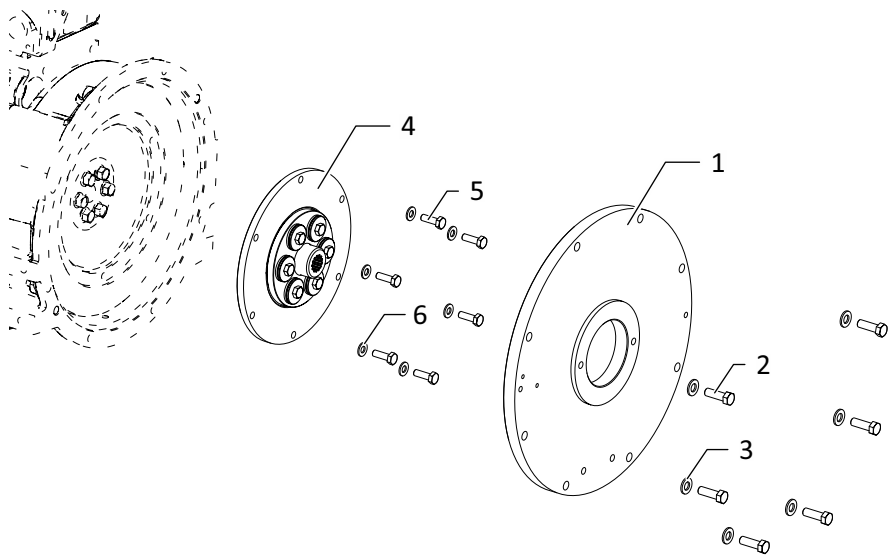


ENGINE GROUP - RADIATOR

REF. NO.	PART NO	DESCRIPTION	QTY
1	553440130-00	RADIATOR	1
2	558441083-00	RADIATOR COVER - WMT	1
3	553440752-00	PAD - RADIATOR	2
4	553440750-00	7/16 UNC NYLOC NUT - RADIATOR	2
5	553440751-00	STOPPER - RADIATOR	2
6	553440749-00	CARRIAGE BOLT - RADIATOR	2
7	558441082-00	RUBBER HOLDER LH - WMT	1
8	558441081-00	RUBBER HOLDER TOP - WMT	1
9	553442392-00	RUBBER HOLDER RADIATOR - RH	1
10	553442399-00	RUBBER FLAP TOP FRAME RADIATOR	1
11	553442400-00	RUBBER FLAP SIDE FRAME LH - RADIATOR	2
12	558441079-00	RADIATOR MTG - FRONT LH WMT	1
13	558441080-00	RADIATOR MTG FRONT RH - WMT	1
14	553442284-00	RUBBER FLAP - SIDE RADIATOR FRAME RH	1
15	553441111-00	TOP HOLDING PLATE	1
16	553442390-00	SIDE RUBBER HOLDING PLATE - LH	1
17	558441100-00	RADIATOR MTG TOP LH - WMT	1
18	558441098-00	RADIATOR BOTTOM SUPPORT WMT	1
19	553440330-00	ISOLATOR - SB	2
20	553442044-00	CLAMP - RADIATOR HOSE	1

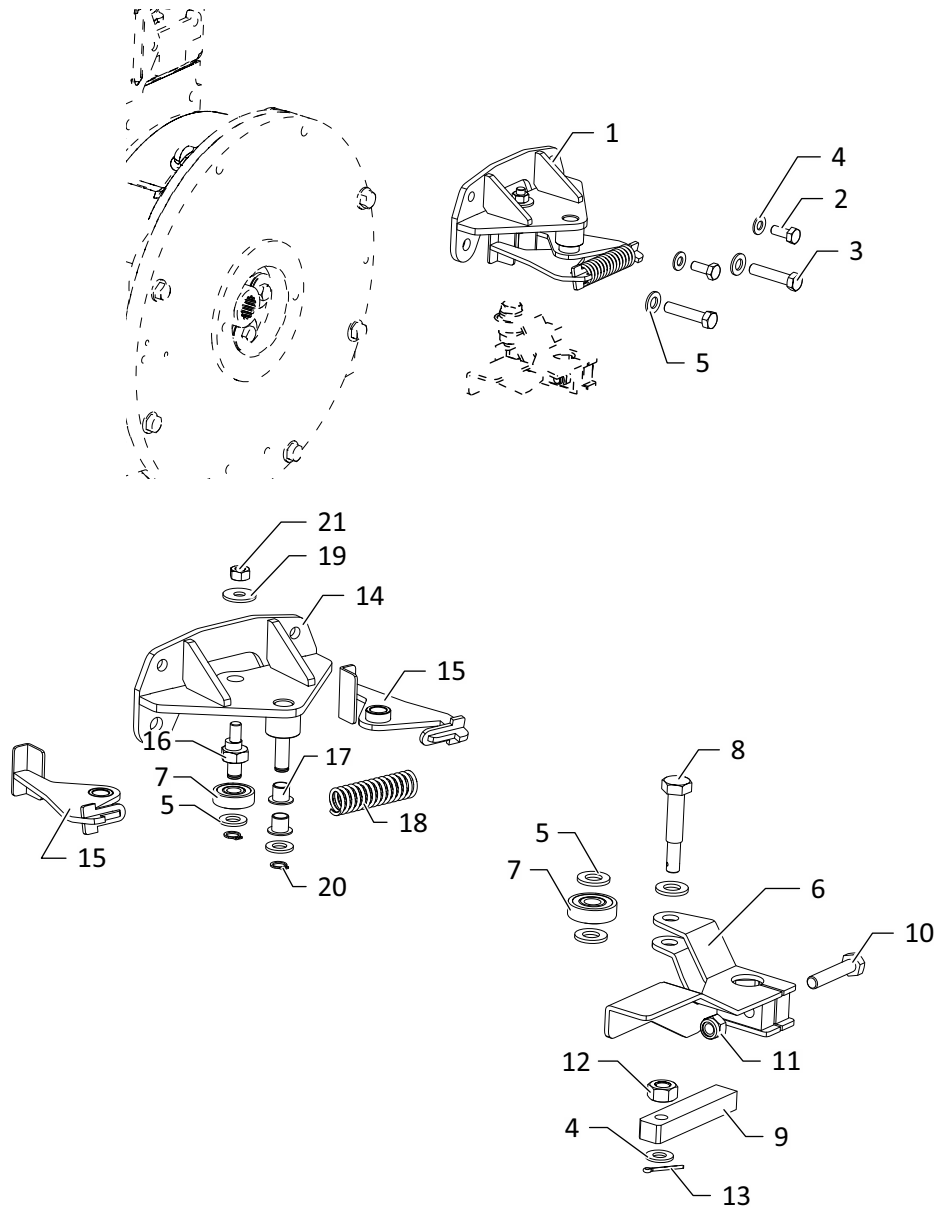
REF. NO.	PART NO	DESCRIPTION	QTY
21	552850206-00	WASHER - EN8 - 10.5x30x2	6
22	553442925-00	WASHER - RADIATOR ASSY	4
23	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	9
24	552850004-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 16	7
25	552850029-00	HEX HEAD SCREW STEEL - 8.8 - M10 X 35	2
26	552850901-00	SOC BUTTON HD CAP SCREW-ST 8.8 - M6 X 12	2
27	558441358-00	RADIATOR COVER RH - WMT	1
28	558441357-00	COOLER MTG PLATE WMT - RH	1
29	553442893-00	HYDRAULIC OIL COOLER	1
30	552850203-00	WASHER - EN8 - 8.4x17x1.6	6
31	552850008-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 16	2
32	552850009-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 20	4
33	553442924-00	SPRING - RADIATOR ASSY	2
34	558441099-00	RADIATOR ASSEMBLY EXPORT	1
35	552670003-00	HOSE CLAMP 32-50	4
36	553442285-00	WATER INLET HOSE - RADIATOR	1
37	553442286-00	WATER OUTLET HOSE RADIATOR	1
38	552850018-00	HEX HEAD SCREW STEEL - 8.8 M10 X 30	1

ENGINE GROUP - FLANGE & COUPLING



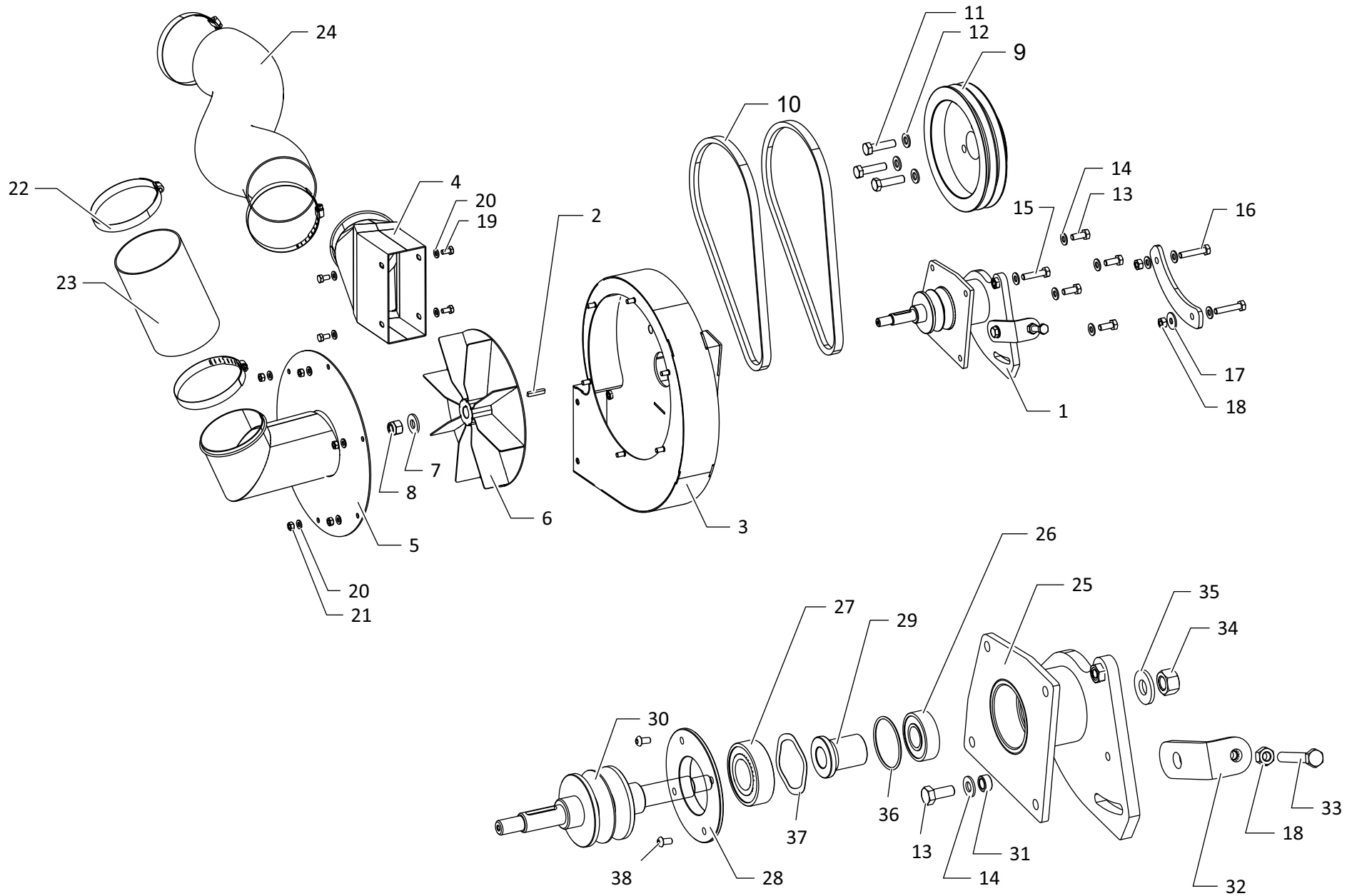
REF. NO.	PART NO	DESCRIPTION	QTY
1	553442012-00	FLANGE KUBOTA - FLY WHEEL SIDE	1
2	553441218-00	HEX HEAD SCREW - 3/8 - 16 UNC	6
3	552850205-00	WASHER - EN8 - 10.5x20x2	6
4	558441004-00	COUPLING ASSY - FLYWHEEL	1
5	553442365-00	HEX HEAD SCREW - 5/16 18UNC-25	6
6	552850203-00	WASHER - EN8 - 8.4x17x1.6	6
7	553442015-00	PLATE COUPLING	1
8	553442016-00	HUB - COUPLING	1
9	553440082-00	BUSH - RUBBER - COUPLING	6
10	552850028-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 35	6
11	553440083-00	BUSH - STEEL - COUPLING	6
12	553440084-00	WASHER - COUPLING - 8.2 X 32 X 3	6

ENGINE GROUP - HST



REF. NO.	PART NO	DESCRIPTION	QTY
1	558441097-00	HST ASSY	1
2	552850009-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 20	2
3	553441357-00	HEX HD SCREW 3/8 16 UNC	2
4	552850203-00	WASHER - EN8 - 8.4x17x1.6	3
5	552850205-00	WASHER - EN8 - 10.5x20x2	7
6	558441012-00	HST ZERO POS LEVER ASSY - WMT	1
7	552610055-00	DG BALL BEARING 6200 - 2RS	2
8	553442057-00	PIVOT PIN - HST ZERO POS	1
9	553442058-00	END FORK - HST CABLE	1
10	552850012-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 40	1
11	552480008-00	HEX NYLOCK NUT STEEL - M8	1
12	552850803-00	HEX NUT - STEEL GR. 8 - M10	1
13	552330003-00	COTTER PIN - STEEL - 2X16	1
14	558441010-00	BASE HST ZERO POS WMT	1
15	558441011-00	ARM HST - WMT	2
16	553442053-00	PIN - HST ZERO POS	1
17	552610052-00	IGUS BEARING - IGLIDUR GFM 1012-12	2
18	553442054-00	SPRING - HST ZERO POS	1
19	552850204-00	WASHER - EN8 - 8.4x24x2	1
20	552670152-00	CIRCLIP - A10	2
21	552850802-00	HEX NUT - STEEL GR. 8 - M8	1

ENGINE GROUP - IMPELLER

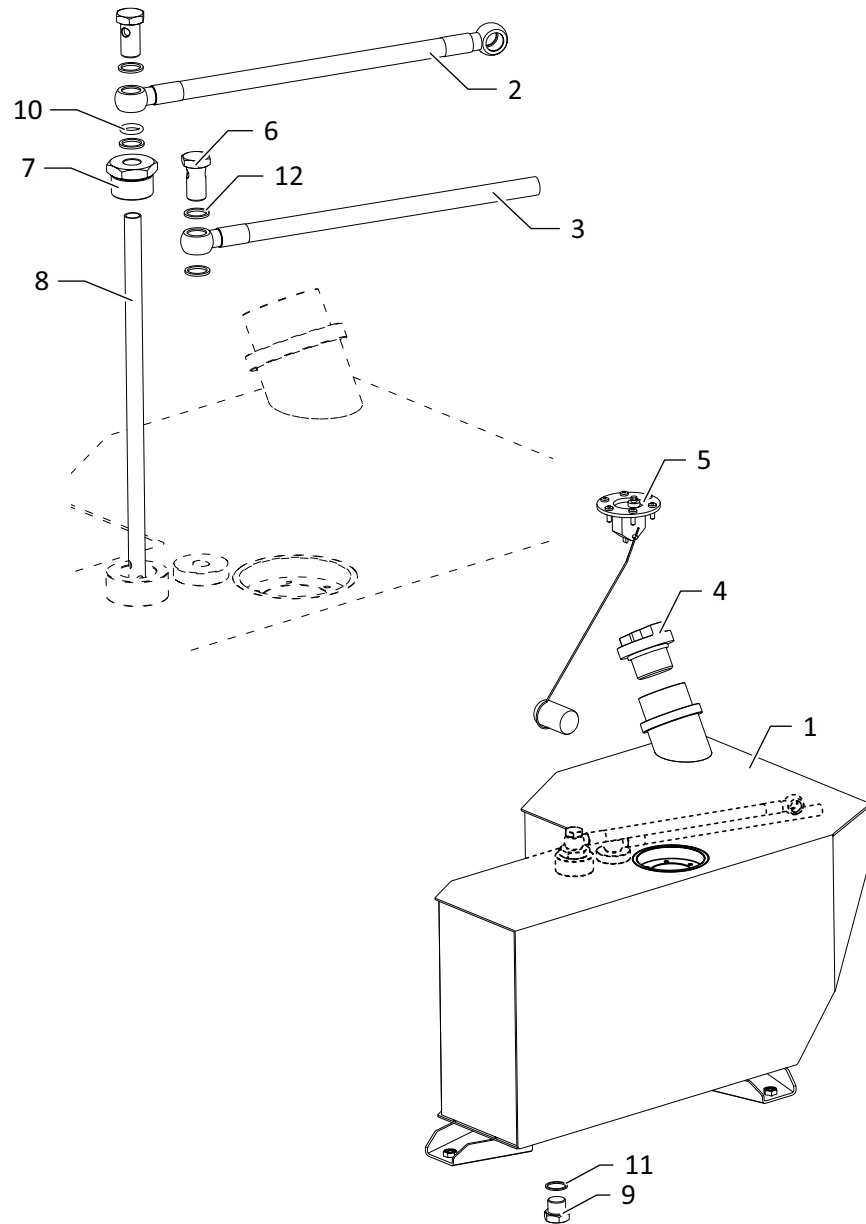


ENGINE GROUP - IMPELLER

REF. NO.	PART NO	DESCRIPTION	QTY
1	558441091-00	IMP SHAFT - HOUSING ASSY	1
2	553440429-00	KEY - IMPELLER SHAFT	1
3	558441031-00	IMPELLER HOUSING WMT	1
4	558441093-00	IMP OUTLET DUCT - WMT	1
5	558441094-00	IMPELLER - INLET DUCT	1
6	558440020-00	IMPELLER BLADE WMT	1
7	552850207-00	WASHER - EN8 - 12.5x28x3	2
8	552480014-00	HEX NYLOCK NUT STEEL - M12	1
9	553442041-00	DOUBLE GROOVE PULLEY - ENGINE	1
10	553442381-00	IMPELLER COGGED BELT AX 30-800	2
11	553442369-00	HEX HEAD SCREW - M10 X 1.25 - 40	3
12	552850205-00	WASHER - EN8 - 10.5x20x2	3
13	552850009-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 20	5
14	552850203-00	WASHER - EN8 - 8.4x17x1.6	9
15	552850028-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 35	1
16	552850012-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 40	2
17	552850204-00	WASHER - EN8 - 8.4x24x2	1
18	552850802-00	HEX NUT - STEEL GR. 8 - M8	3
19	552850003-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 12	4
20	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	10

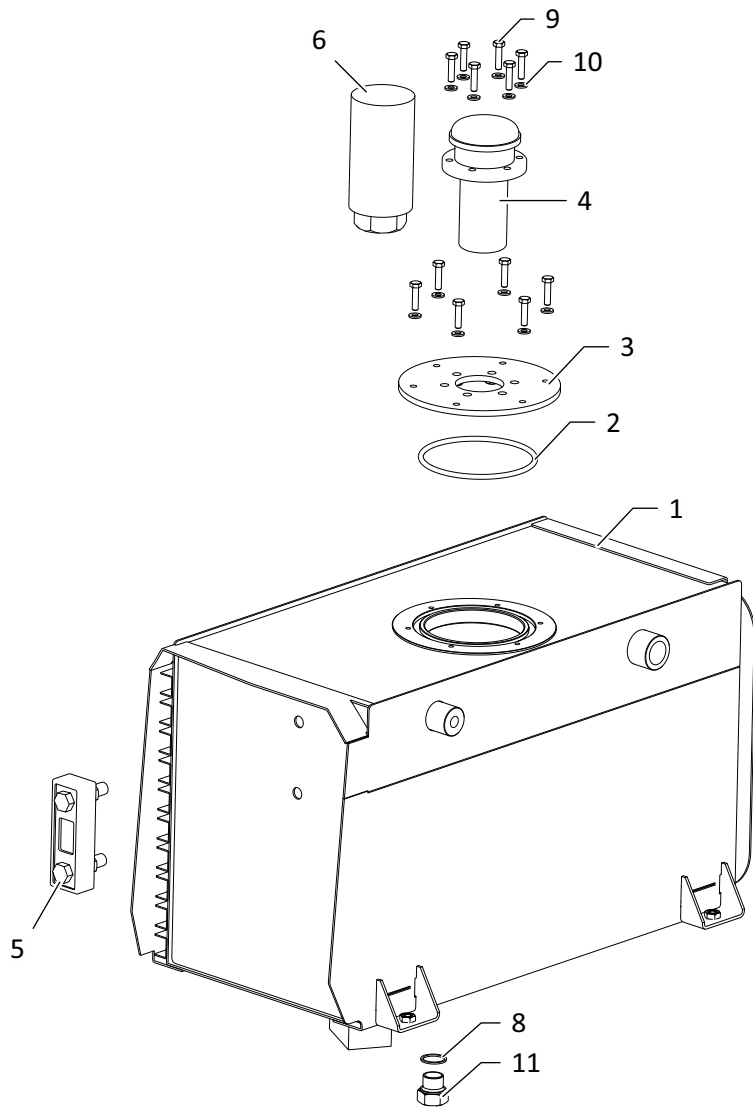
REF. NO.	PART NO	DESCRIPTION	QTY
21	552850801-00	HEX NUT - STEEL GR. 8 - M6	6
22	552670159-00	HOSE CLAMP 95-110	4
23	553441216-00	HYD TANK END - TRANS.FLEXIBLE HOSE 100 mm	1
24	553441215-00	SUCTION END - TRANS. FLEXIBLE HOSE 100 mm	1
25	558441092-00	IMP BEARING HOUSING WMT	1
26	552610069-00	DG BALL BEARING 6203-2RS - SKF	1
27	552610068-00	DG BALL BEARING-6205-2RS - SKF	1
28	553442927-00	BEARING RETAINER IMPELLER HOUSING	1
29	553442254-00	SPACER BEARING	1
30	553442255-00	IMPELLER DRIVE SHAFT	1
31	553440246-00	STOPPER BUSH TB	1
32	558440072-00	BELT TENSION BKT - WMT	1
33	552850025-00	HEX HEAD SCREW STEEL - 8.8 - M8 X 55	1
34	552850804-00	HEX NUT - STEEL GR. 8 - M12	1
35	552850207-00	WASHER - EN8 - 12.5x28x3	1
36	552430048-00	O RING - 40 X 2	1
37	552090006-00	WAVE WASHER - 50X40	1
38	552850921-00	SOC BUTTON HD CAP SCREW - STEEL - M5X10	4

ENGINE GROUP - DIESEL FUEL TANK



REF.NO	PART NO	DESCRIPTON	QTY
1	558441206-00	DIESEL TANK WMT	1
2	553442416-00	DIESEL HOSE - DT - SEPERATOR	1
3	553442420-00	DIESEL OVER FLOW HOSE	1
4	553440122-00	CAP - FUEL TANK	1
5	553440123-00	FLOAT FUEL	1
6	553441141-00	BANJO BOLT - M14	2
7	553442607-00	BUSH - M14 BANJO	1
8	553442605-00	FUEL INLET PIPE - DT WMT	1
9	552500048-00	dummy - 1/2 INCH	1
10	552430015-00	O RING - 12X2	1
11	552670081-00	1/2 INCH COPPER WASHER	1
12	552670117-00	COPPER WASHER - 1/4 "	4

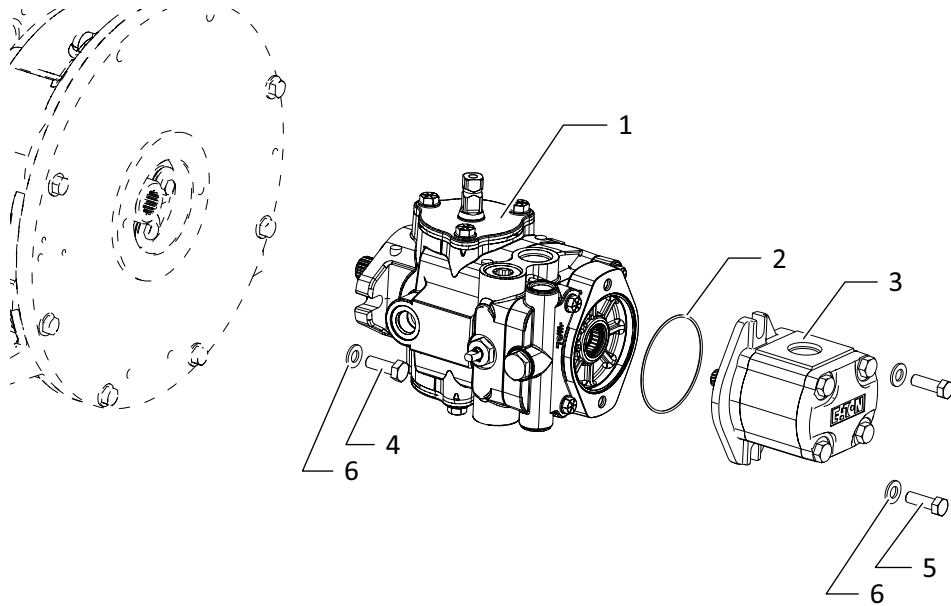
HYDRAULIC GROUP - HYDRAULIC OIL TANK



REF.NO	PART NO	DESCRIPTON	QTY
1	558440833-00	HYDRAULIC TANK WELDMENT	1
2	552430038-00	O' RING - 110 X 5	1
3	558440068-00	MAN HOLE COVER - WMT	1
4	553440342-00	FILLER BREATHER - HYD TANK	1
5	553440339-00	LEVEL GAUGE - HYD TANK	1
6	553440343-00	SUCTION STRAINER - HYD TANK	1
7	553440333-00	BEADING - HYD TANK	1
8	552670081-00	1/2 INCH COPPER WASHER	1
9	552850006-00	HEX HEAD SCREW STEEL - 8.8 - M6 X 25	12
10	552850201-00	WASHER - EN8 - 6.4x12.5x1.6	12
11	552500048-00	DUMMY - 1/2 INCH	1

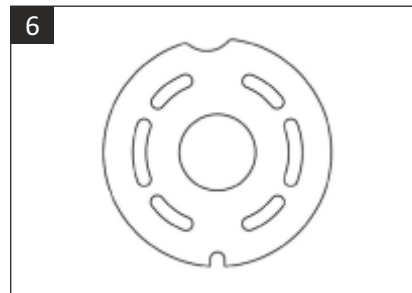
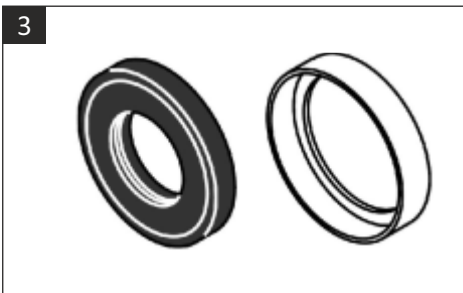
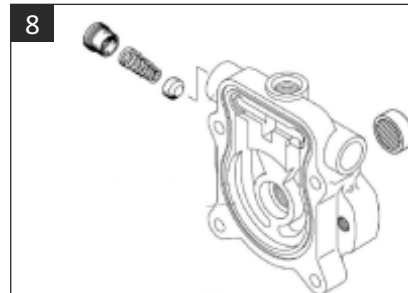
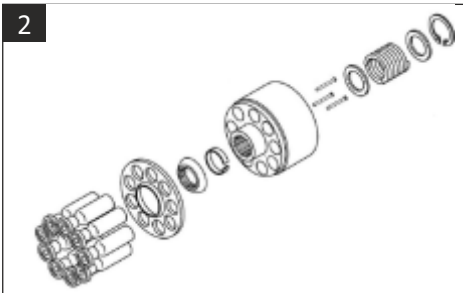
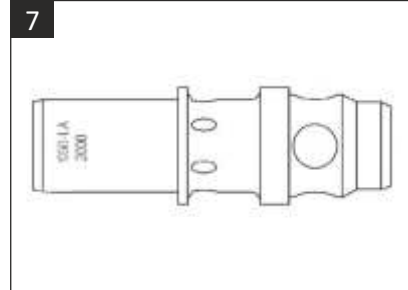
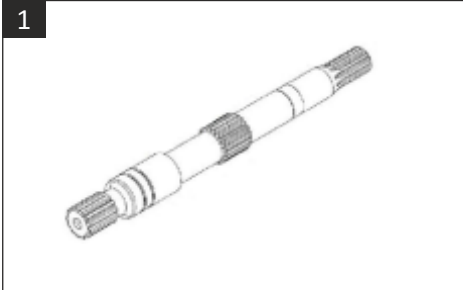
NOTE: Item No. 7 is not shown in the figure.

HYDRAULIC GROUP - HYDRAULIC PUMP



REF. NO.	PART NO	DESCRIPTION	QTY
1	553440070-00	PUMP - VARIABLE DISPLACEMENT	1
2	552430040-00	O' RING - 82 X 2	1
3	553440349-00	MAIN PUMP	1
4	552850018-00	HEX HEAD SCREW STEEL - 8.8 - M10 X 30	2
5	553441218-00	HEX HEAD SCREW - 3/8 - 16 UNC	2
6	552850205-00	WASHER - EN8 - 10.5x20x2	4

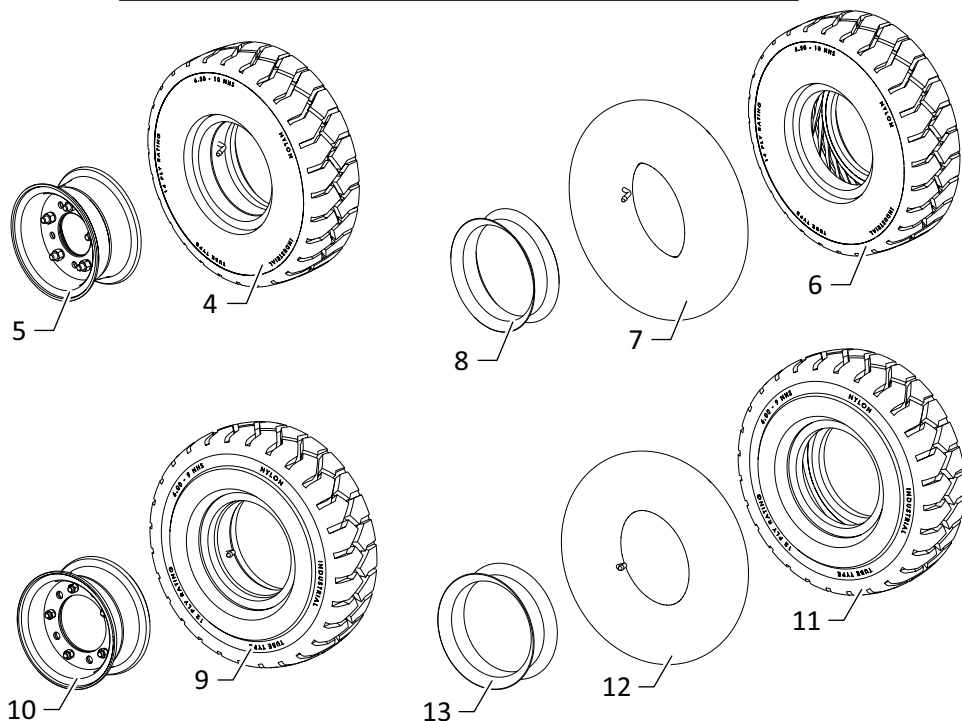
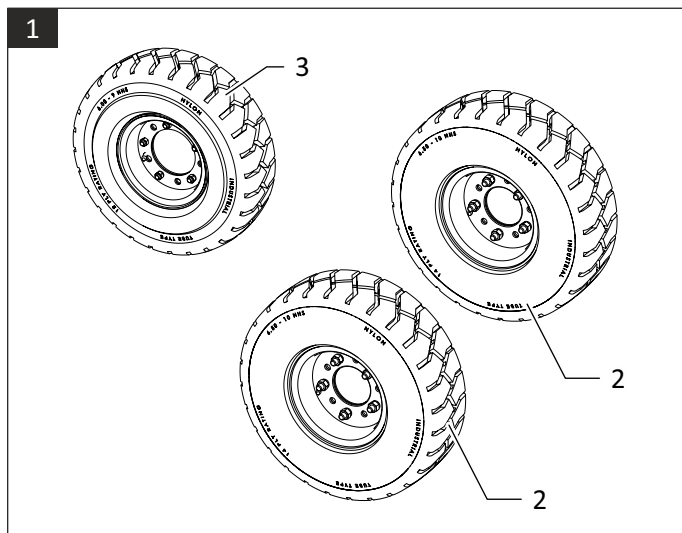
HYDRAULIC GROUP - HYDRAULIC SEAL KITS



HYDRAULIC GROUP - HYDRAULIC SEAL KITS

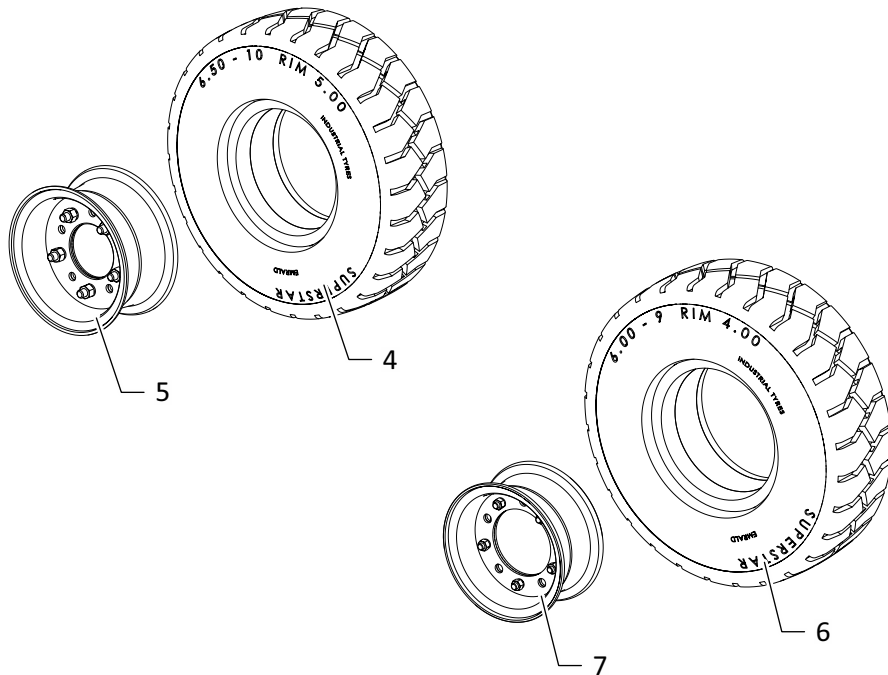
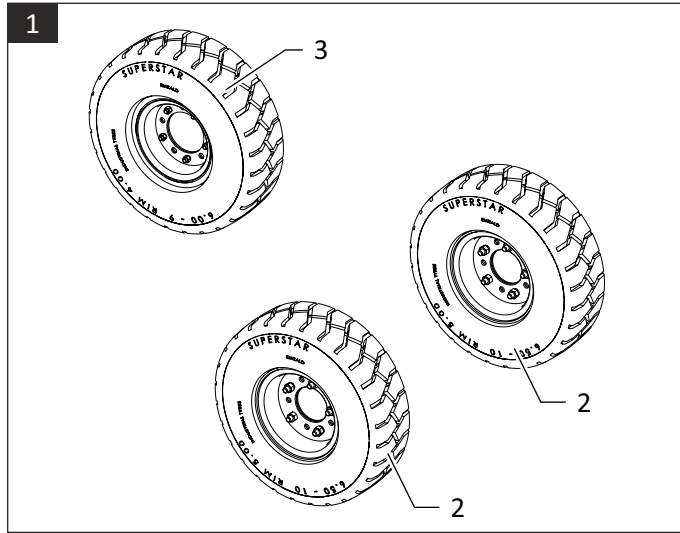
REF. NO.	PART NO	DESCRIPTION	QTY
1	553441385-00	SHAFT - VDP	1
2	553441386-00	ROTATING KIT - VDP	1
3	553441387-00	SEAL SHAFT - VDP	1
4	553441388-00	SEAL SHAFT (TRUNION) - VDP	1
5	553441389-00	GEROTOR & COUPLER ASSY - VDP	1
6	553441390-00	VALVE PLATE - VDP	1
7	553441391-00	RELIEF VALVE SUBASSY - VDP	1
8	553441392-00	CHARGE PUMP ADAPTER - VDP	1
9	553441393-00	SEAL KIT - VDP	1
10	553441394-00	SEAL KIT - MB MOTOR	1
11	553441395-00	SEAL KIT - WHEEL MOTOR	1
12	553441396-00	SEAL KIT - MAIN PUMP	1

PNEUMATIC TYRE KIT



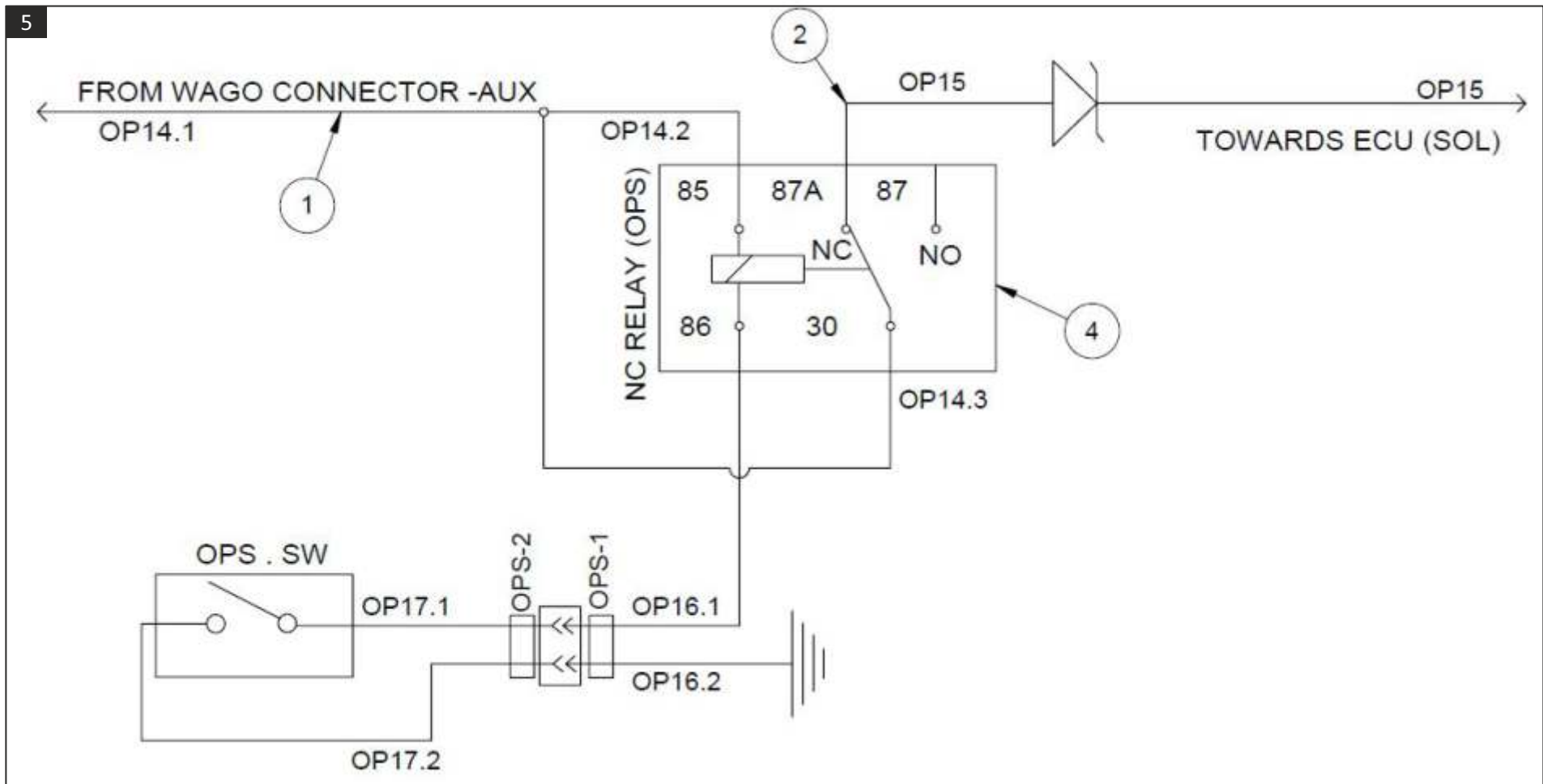
REF.NO.	PART NO	DESCRIPTION	QTY
1	558441353-00	PNEUMATIC TYRE KIT	1
2	558440011-00	WHEEL ASSY - FRONT	2
3	558440043-00	WHEEL ASSY - REAR	1
4	558440012-00	TYRE W/TUBE & FLAP 6.5-10/14PR (FRONT)	2
5	553440013-00	RIM ASSY - FRONT (5.00 X 10)	2
6	553440756-00	TYRE - PNEUMATIC 6.5 X 10	2
7	553440757-00	TUBE - TYRE 6.5 X 10	2
8	553440758-00	FLAP - TYRE 6.5 X 10	2
9	558440044-00	TYRE W/TUBE & FLAP - 6.00-9/12PR (REAR)	1
10	553440045-00	RIM ASSY - REAR (4.00 X 9)	1
11	553440759-00	TYRE - PNEUMATIC 6.0 X 9	1
12	553440760-00	TUBE - TYRE 6.0 X 9	1
13	553440761-00	FLAP - TYRE 6.0 X 9	1

SOLID TYRE KIT



REF.NO.	PART NO	DESCRIPTION	QTY
1	558441354-00	SOLID TYRE KIT	1
2	558441316-00	FRONT WHEEL ASSY - SOLID	2
3	558441317-00	REAR WHEEL ASSY - SOLID	1
4	553442069-00	TYRE - SOLID 6.5 X 10 (FRONT)	2
5	553440013-00	RIM ASSY - FRONT (5.00 X 10)	2
6	553442070-00	TYRE - SOLID 6.00 X 9 (REAR)	1
7	553440045-00	RIM ASSY - REAR (4.00 X 9)	1

SEAT SAFETY SWITCH KIT

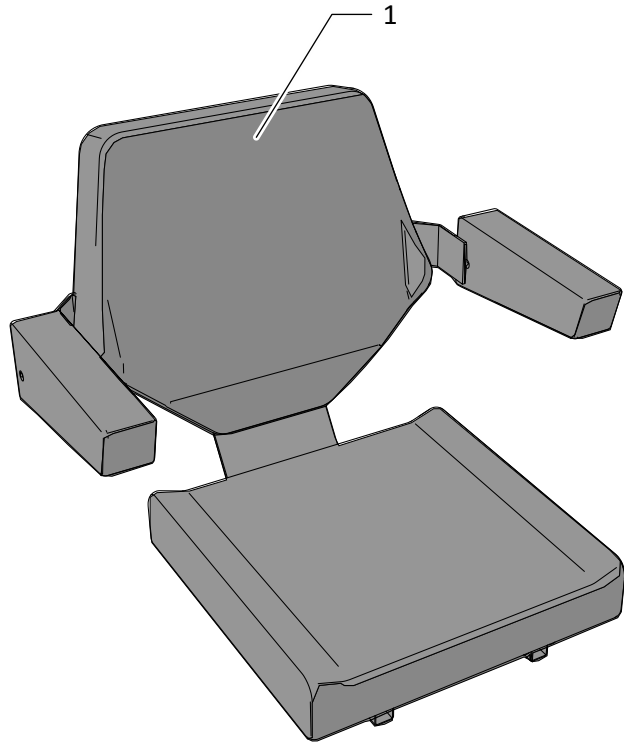


NOTE: Item No.3 is not shown in the figure.

NOTE: Item No. 3 - Operator seat is included in this kit.

REF.NO.	PART NO	DESCRIPTION	QTY
1	558441198-00	CABLE ASSY - WC-AUX TO R85, 30 OPS	1
2	558441199-00	CABLE ASSY - R87A OPS TO ECU (SOL)	1
3	558441320-00	OPERATOR SEAT ASSY - OPS	1
4	558441192-00	RELAY - NORMALLY CLOSE	1
5	558441197-00	SEAT SAFETY SWITCH KIT	1

SEAT STANDARD



REF.NO.	PART NO	DESCRIPTION	QTY
1	553440321-00	SEAT OPERATOR (STD)	1

PRE CLEANER

1



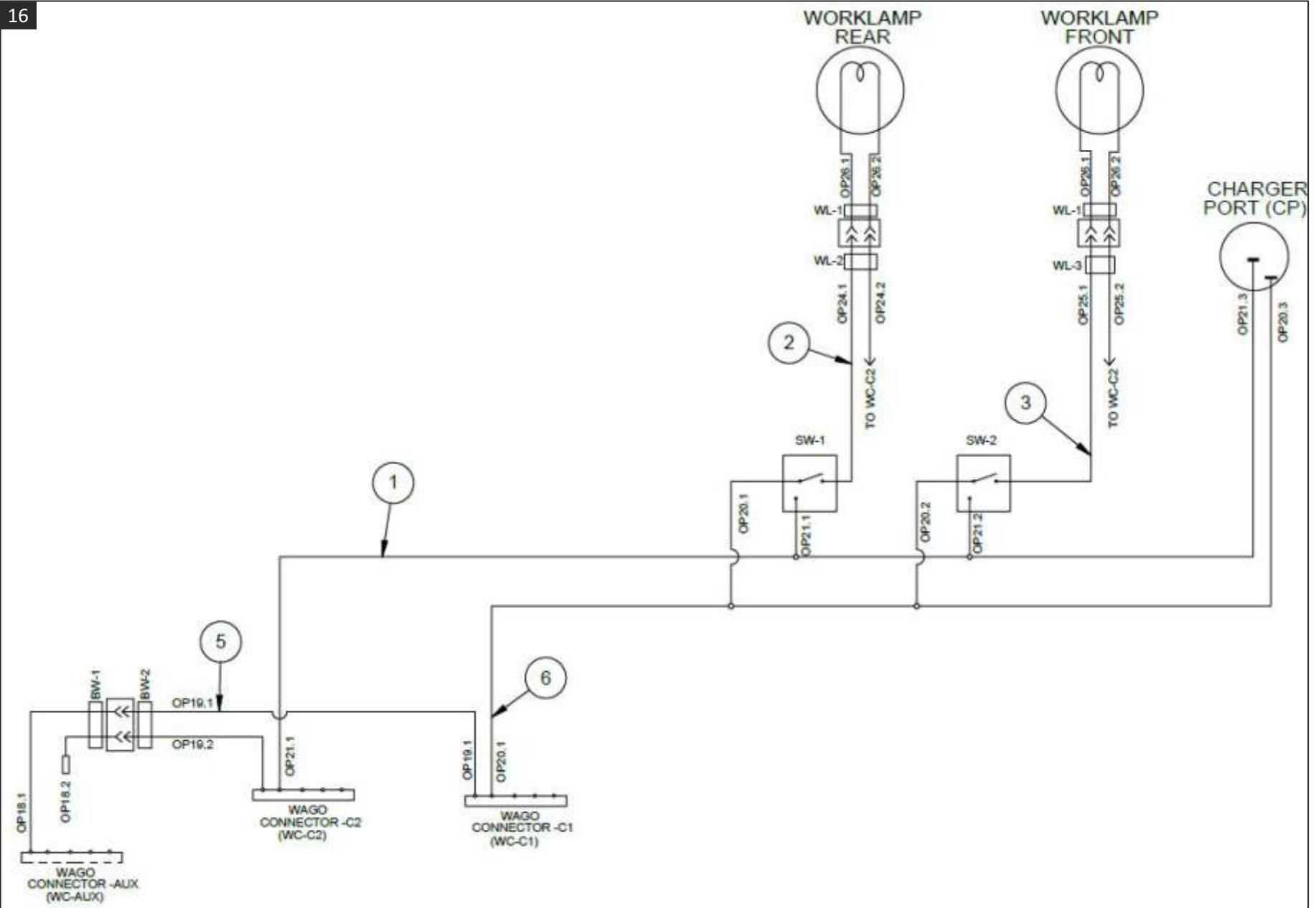
2



REF.NO.	PART NO	DESCRIPTION	QTY
1	553442075-00	PRE CLEANER - 90 CFM	1
2	553442897-00	PRE CLEANER - TOP SPIN	1

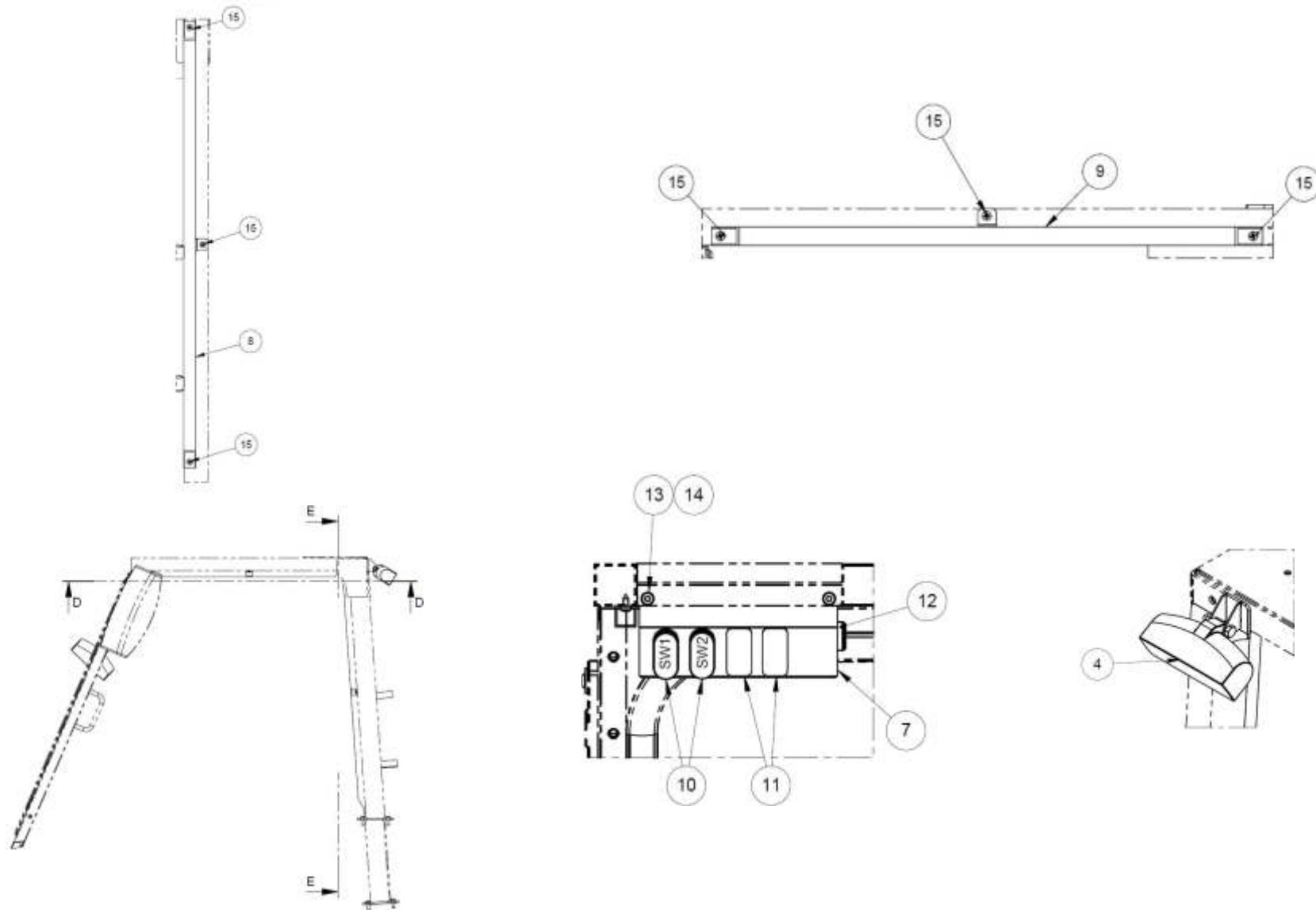
WORK LAMP KIT - OVERHEAD GUARD

16



WORK LAMP KIT - OVERHEAD GUARD

16

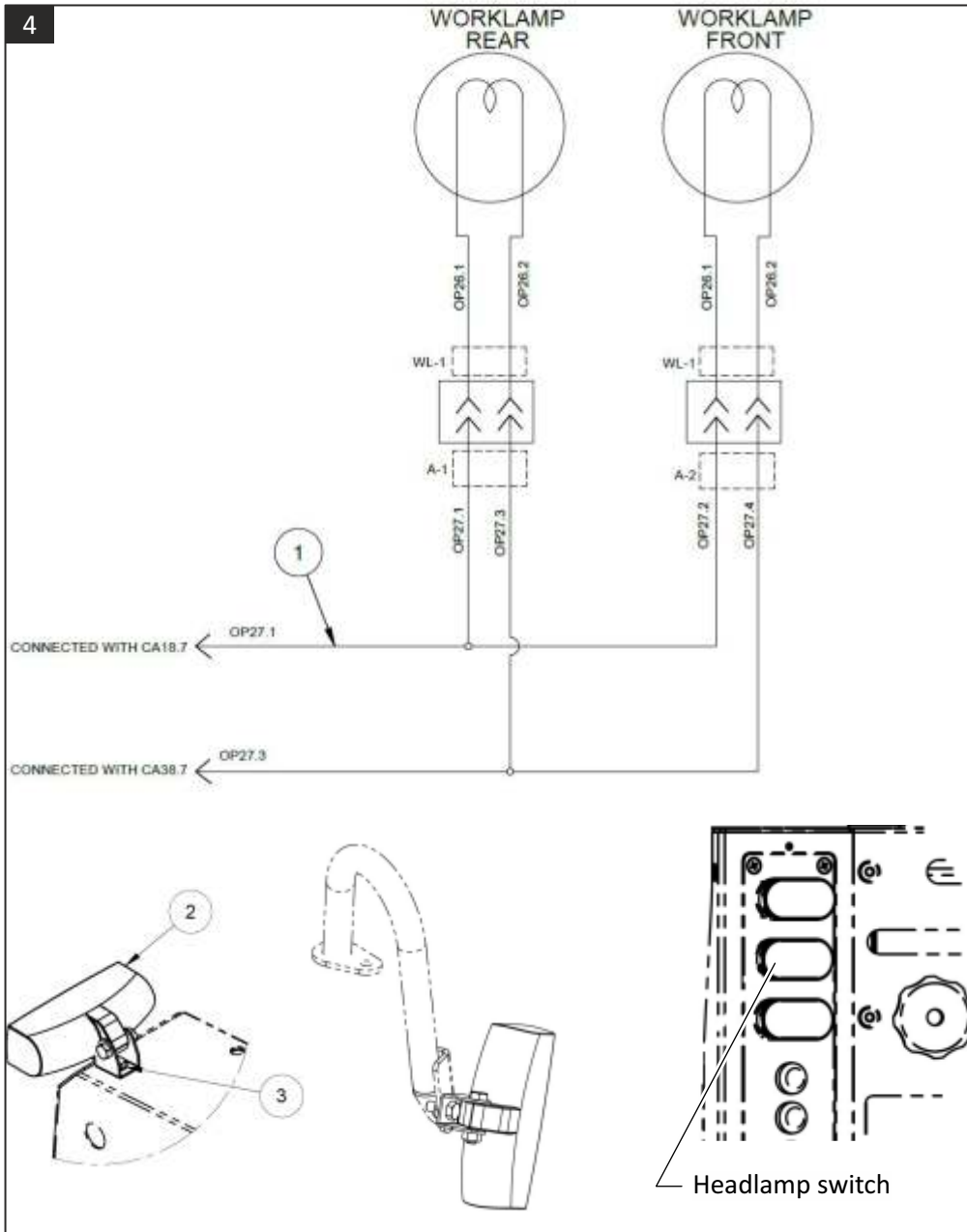


WORK LAMP KIT - OVERHEAD GUARD

REF.NO.	PART NO	DESCRIPTION	QTY
1	558441207-00	CABLE ASSY - WC-C2 TO SWITCH -VE	1
2	558441210-00	CABLE ASSY - SW-1 TO CONNECTOR WL-2	1
3	558441211-00	CABLE ASSY - SW-2 TO CONNECTOR WL-3	1
4	558441212-00	WORKLAMP CONNECTOR ASSY	2
5	558441213-00	CABLE ASSY - CONNECTOR BW-2 TO WC-C1,C2	1
6	558441214-00	CABLE ASSY - WC-C1 TO SWITCH +VE	1
7	558441255-00	SWITCH PANEL BOX WMT - OHG	1
8	558441257-00	TUBE WMT VR - ROUTING	1
9	558441256-00	TOP TUBE WMT - WIRE ROUTING	1
10	553441228-00	SWITCH - HEAD LIGHT	2
11	553442444-00	SWITCH - PANEL PLUG	1
12	553442648-00	MOBILE CHARGER	1
13	552850901-00	SOC BUTTON HD CAP SCREW STEEL-M6X12	4
14	552850201-00	WASHER-EN8 - 6.5X12.5X1.6	4
15	552280005-00	CRPH SELF TAPPING SCREW-SS304 - 4.8X13	6
16	558441203-00	WORKLAMP KIT - OHG	1

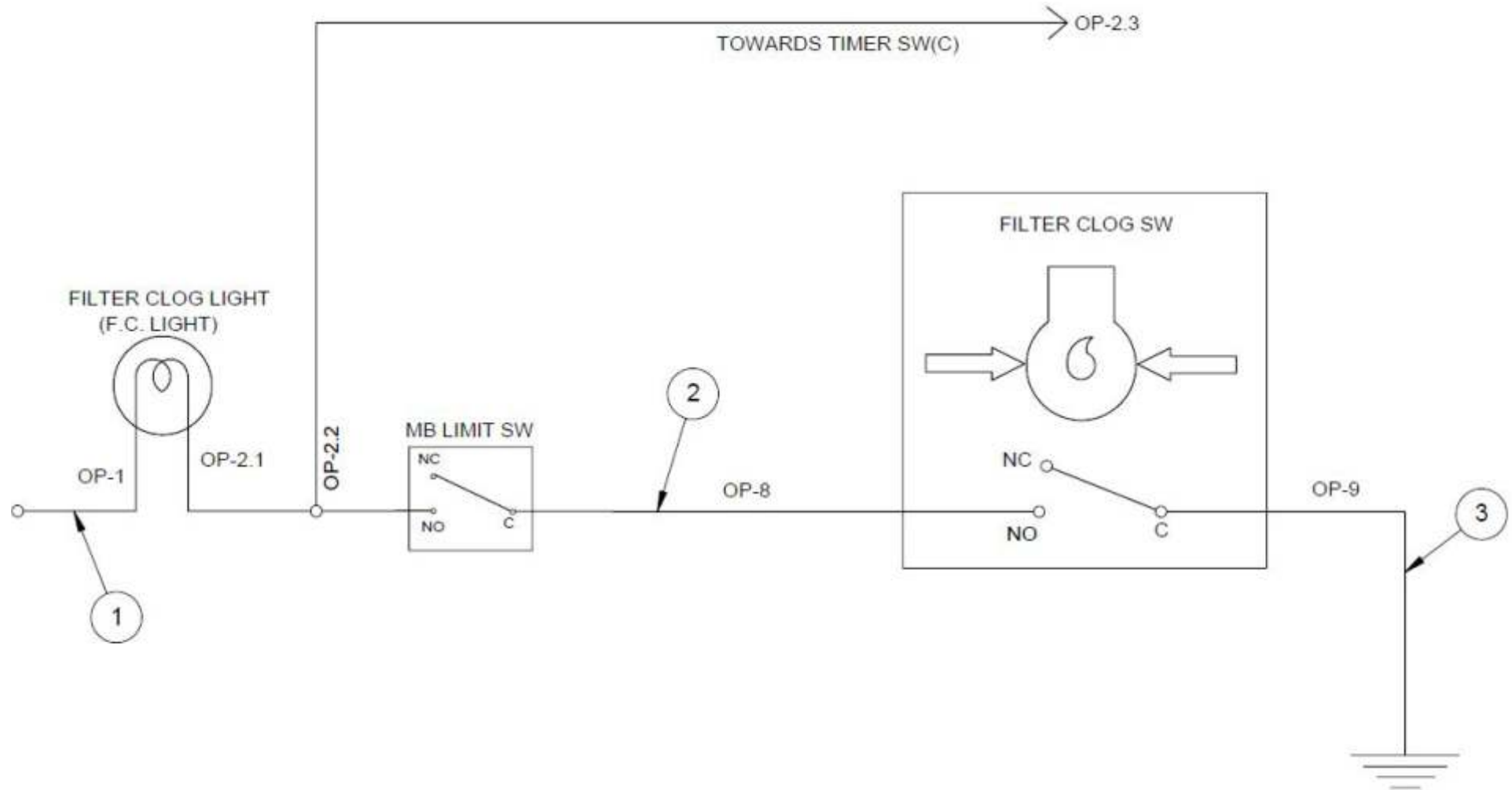
WORK LAMP KIT - REGULAR

4

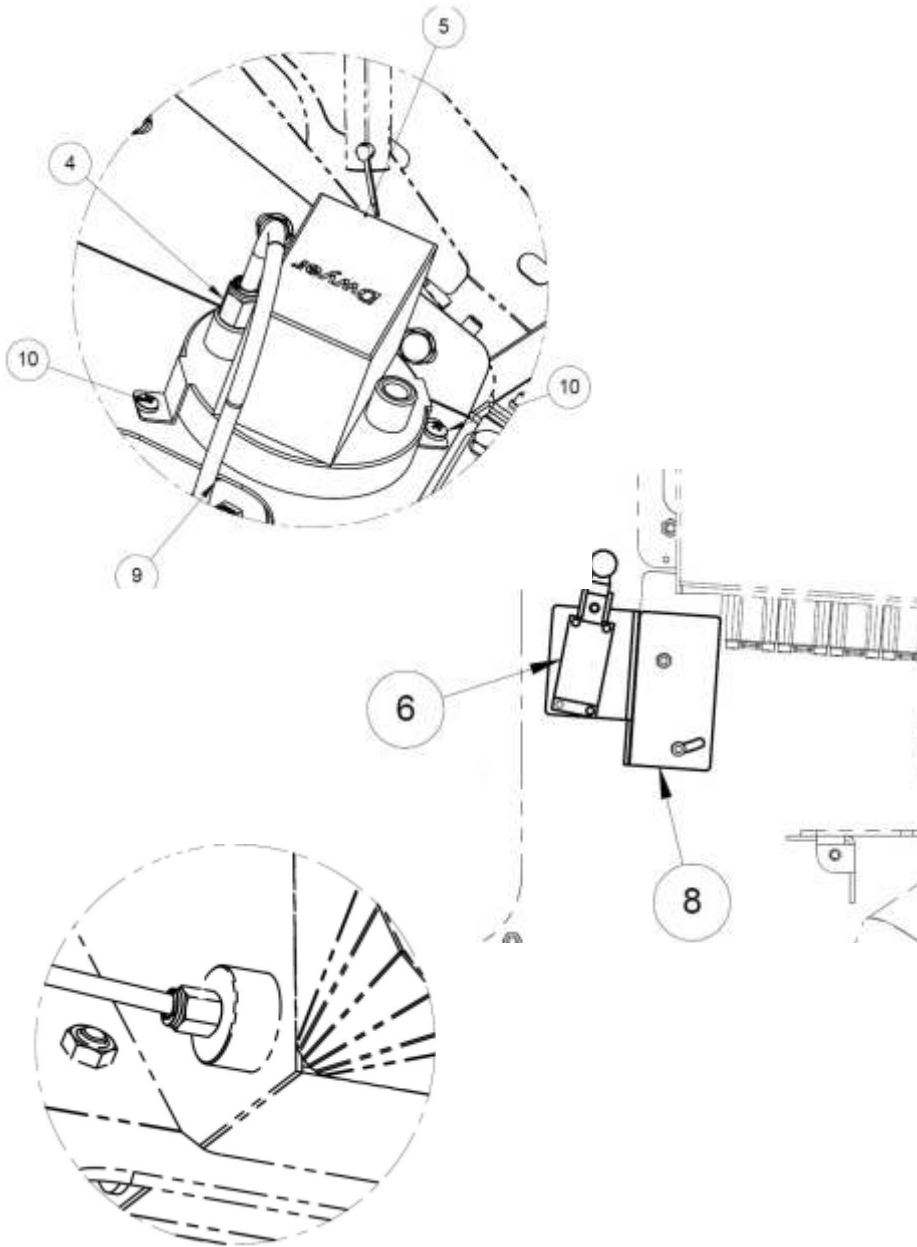


REF.NO.	PART NO	DESCRIPTION	QTY
1	558441194-00	CABLE ASSY - BW-3 TO LAMP IMPUTS	1
2	558441212-00	WORKLAMP CONNECTOR ASSY	2
3	552850203-00	WASHER-EN8 - 8.4X17X1.6	1
4	558441193-00	WORKLAMP KIT (REGULAR)	1

FILTER CLOG INDICATOR KIT



FILTER CLOG INDICATOR KIT

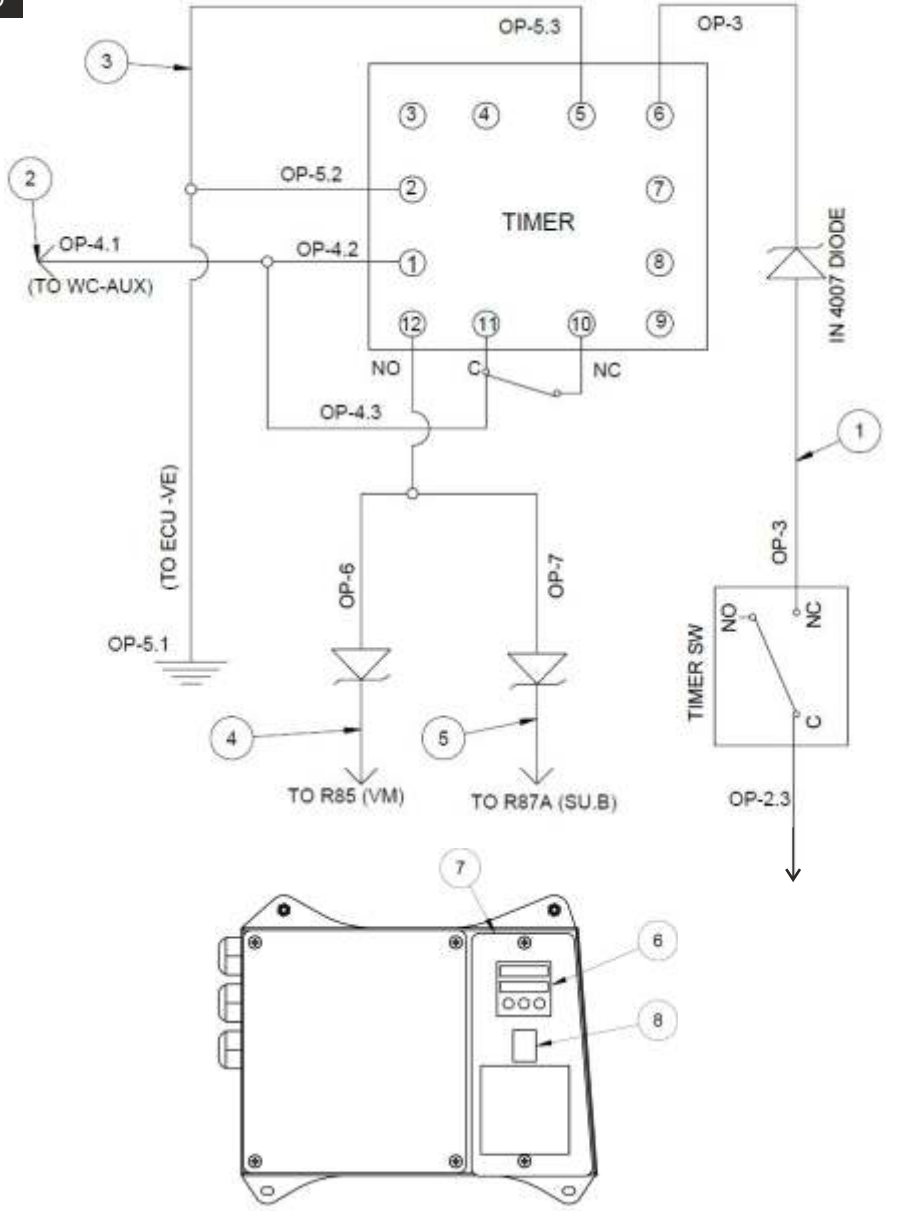


REF.NO.	PART NO	DESCRIPTION	QTY
1	558441181-00	CABLE ASSY - FILTER CLOG LIGHT I/P	1
2	558441188-00	CABLE ASSY - MB LIMIT SW TO FILTER CLOG SW	1
3	558441189-00	CABLE ASSY - FILTER CLOG SW GROUNDING	1
4	553442714-00	MALE CONNECTOR - FILTER CLOG PR SWITCH	1
5	553442076-00	SWITCH - VACUUM PRESSURE	1
6	553441222-00	LIMIT SWITCH	1
7	553441126-00	INDICATOR LIGHT - RED	1
8	553442316-00	BKT - MB LIMIT SWITCH MTG	1
9	553442716-00	PNEUMATIC HOSE PU6 - FILTER CLOG SWITCH	1
10	552130004-00	CRPAN HEAD SCREW-STEEL - M4X10	2
11	553442715-00	MALE CONNECTOR - VB DUCT	1
12	553442442-00	FLASHER 12V	1
13	558441179-00	FILTER CLOG INDICATOR KIT	1

NOTE: Item No.7, 11, 12 & 13 are not shown in the figure.

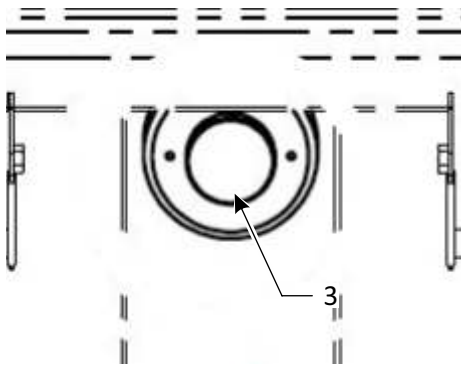
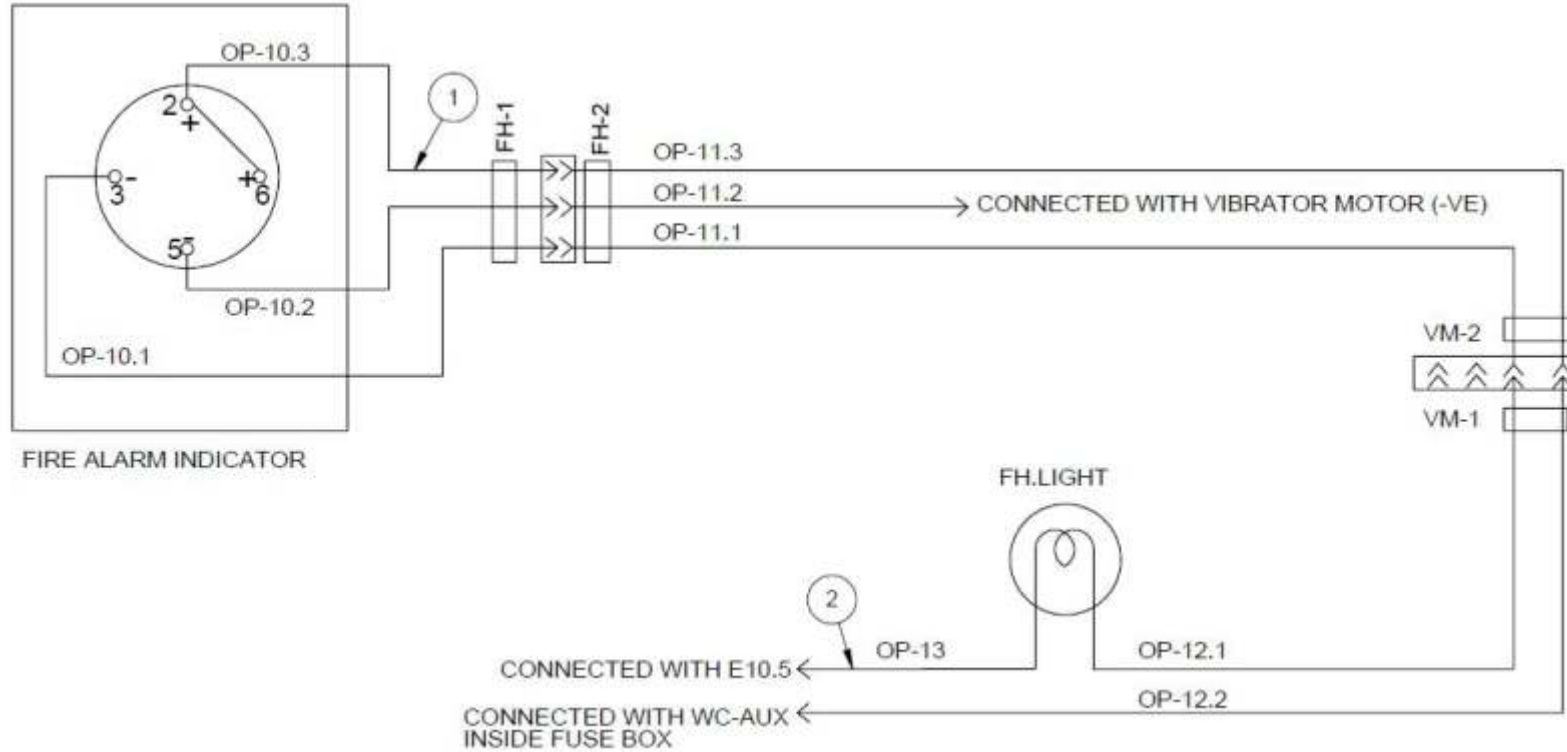
FILTER VIBRATOR TIMER KIT

9



REF.NO.	PART NO	DESCRIPTION	QTY
1	558441183-00	CABLE ASSY - TIMER SW TO TIMER (6)	1
2	558441184-00	CABLE ASSY - WC-AUX TO TIMER (+VE)	1
3	558441185-00	CABLE ASSY - ECU(-VE) TO TIMER (-VE)	1
4	558441186-00	CABLE ASSY - TIMER (12) TO R85VM	1
5	558441187-00	CABLE ASSY - TIMER(12) TO R85 SU.B	1
6	553441213-00	TIMER	1
7	553442248-00	TIMER MTG PLATE	1
8	553461195-00	ROCKER SWITCH	1
9	558441180-00	FILTER VIBRATOR TIMER KIT	1

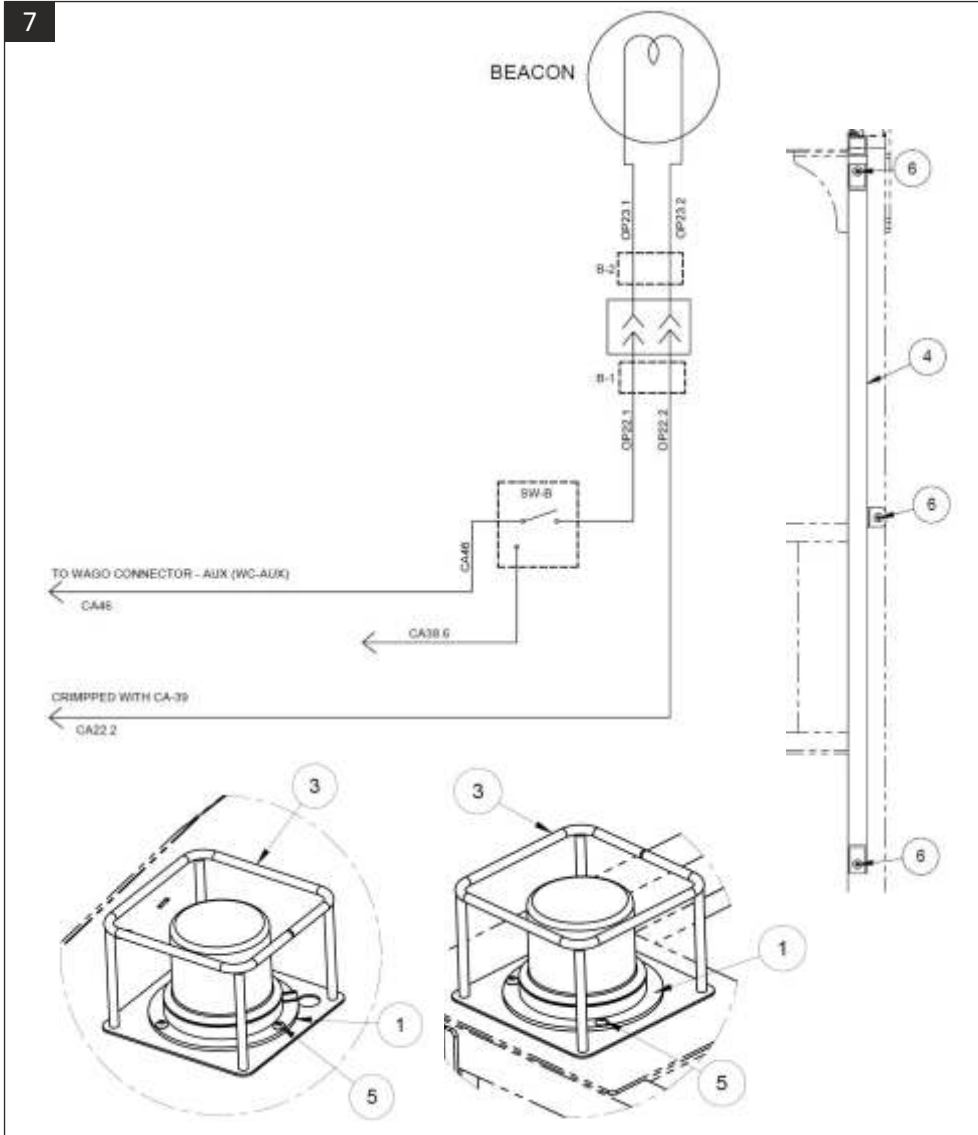
FIRE IN HOPPER INDICATOR KIT



REF.NO.	PART NO	DESCRIPTION	QTY
1	558441191-00	CABLE ASSY - FIRE ALARM INDICATOR MALE CONNECTOR	1
2	558441192-00	CABLE ASSY - FIRE INDICATION LAMP TO WE-OP	1
3	553442786-00	FIRE ALARM INDICATOR	1
4	553441126-00	INDICATOR LIGHT - RED	1
5	553442442-00	FLASHER 12V	1
6	558441190-00	FIRE IN HOPPER INDICATOR KIT	1

NOTE: Item No.4, 5 & 6 are not shown in the figure.

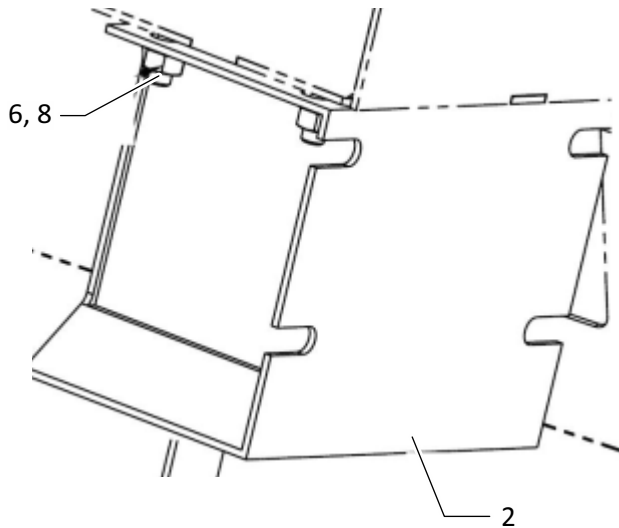
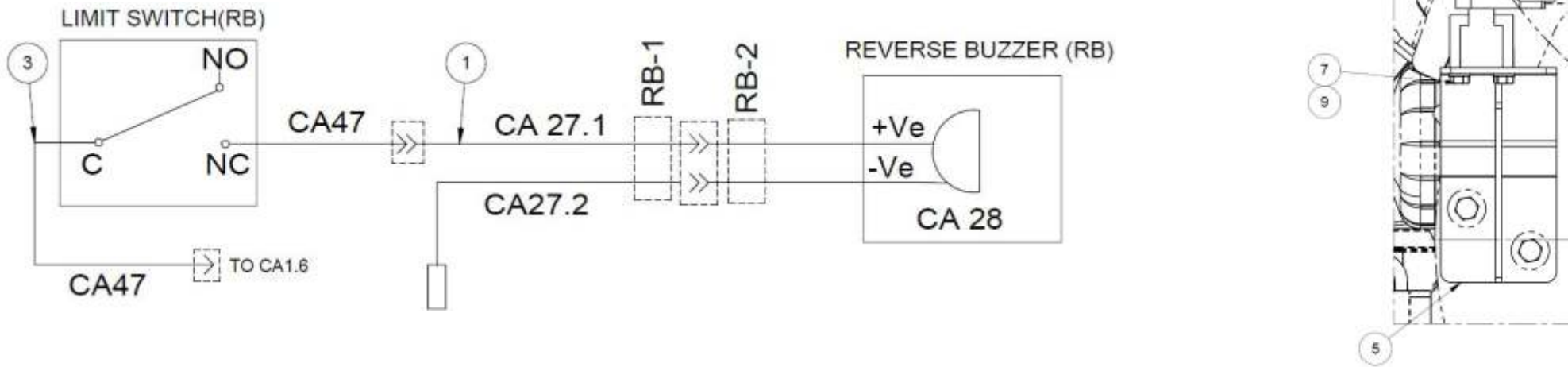
BEACON LIGHT KIT



REF.NO.	PART NO	DESCRIPTION	QTY
1	558441209-00	BEACON CONNECTOR ASSY	1
2	553441228-00	SWITCH - HEAD LIGHT	1
3	558441262-00	GUARD WMT - BEACON	1
4	558441257-00	TUBE WMT VR - ROUTING	1
5	552850902-00	SOC BUTTON HD CAP SCREW-STEEL - M6X16	3
6	552280005-00	CRPH SELF TAPPING SCREW - SS304 - 4.8X13	3
7	558441220-00	BEACON LIGHT KIT	1

NOTE: Item No.2 is not shown in the figure.

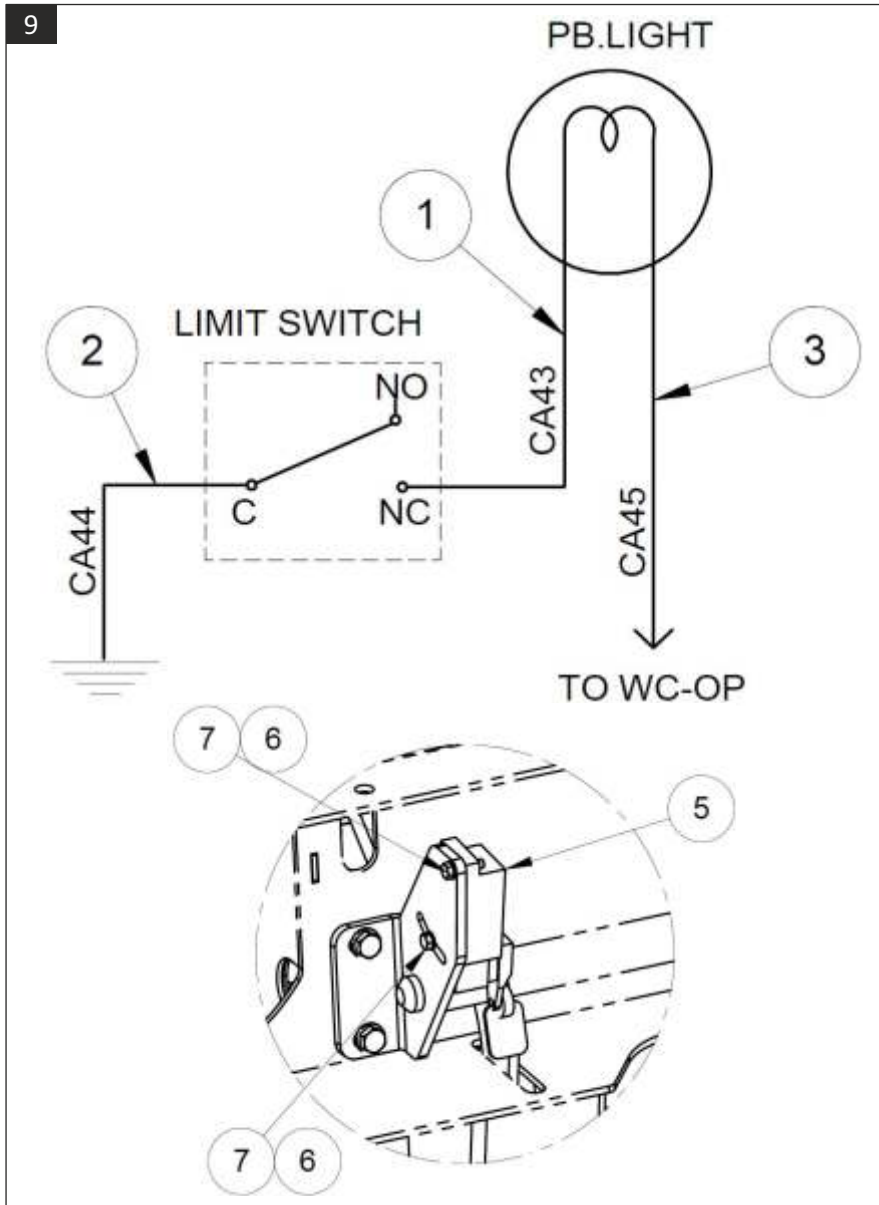
REVERSE ALARM KIT



REF.NO.	PART NO	DESCRIPTION	QTY
1	558441160-00	CA-27 (REVERSE BUZZER MALE CONNECTOR ASSY)	1
2	558441161-00	CA-28 (REVERSE BUZZER FEMALE CONNECTOR ASSY)	1
3	558441217-00	CABLE ASSY - LIMIT SWITCH I/P	2
4	553441222-00	LIMIT SWITCH	1
5	558441013-00	LIMIT SWITCH BKT HST-WMT	1
6	552850801-00	HEX NUT-STEEL - M6	4
7	552850002-00	HEX HEAD SCREW - STEEL - M5X12	2
8	552850201-00	WASHER-EN8-6.4X12.5X1.6	4
9	552350008-00	WASHER-STEEL-5.3X10X1.0	2
10	558441216-00	REVERSE ALARM KIT	1

NOTE: Item No.4 & 10 are not shown in the figure.

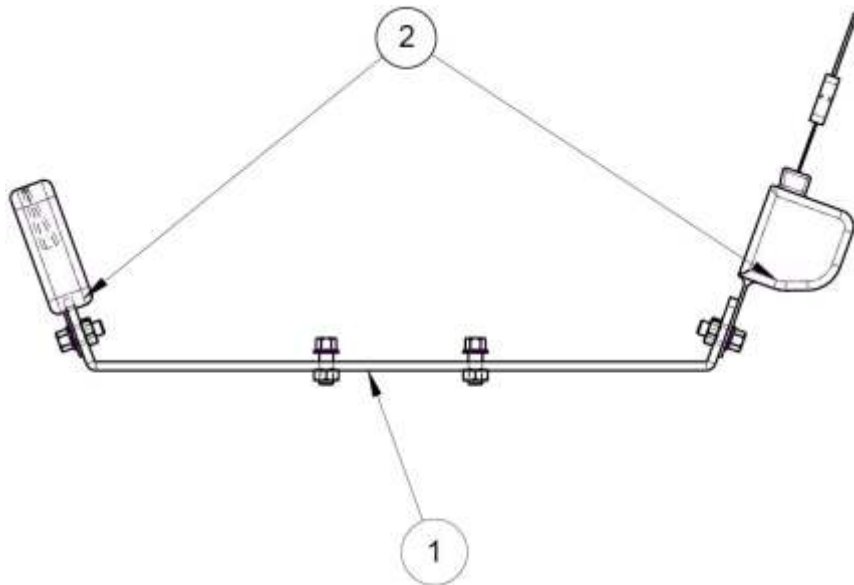
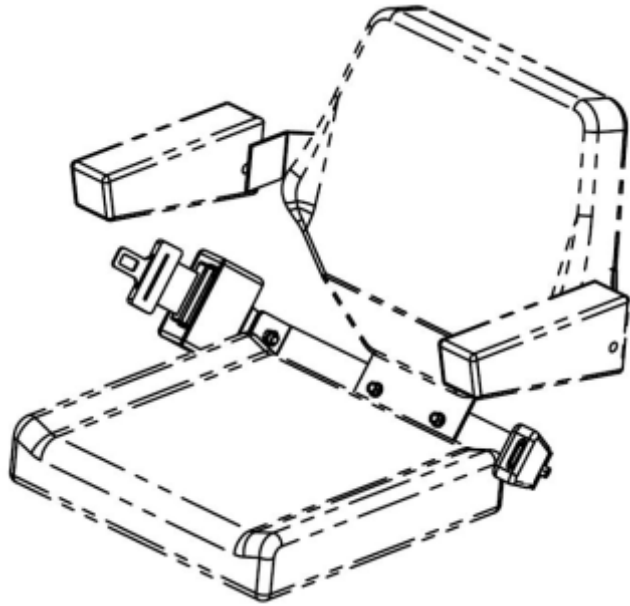
PARKING BRAKE INDICATOR KIT



REF.NO.	PART NO	DESCRIPTION	QTY
1	558441176-00	CA-43 (PB.LIGHT TO LIMIT SWITCH)	1
2	558441177-00	CA-44 (LIMIT SWITCH TO CHASSIS)	1
3	558441178-00	CA-45 (PARKING BRAKE LAMP TO WC-OP)	1
4	553441126-00	INDICATOR LIGHT - RED	1
5	553441222-00	LIMIT SWITCH	1
6	552350008-00	WASHER-STEEL-5.3X10X1.0	2
7	552020037-00	HEX HEAD SCREW-STEEL - M5X20	2
8	553442442-00	FLASHER 12V	1
9	558441222-00	PARKING BRAKE INDICATOR KIT	1

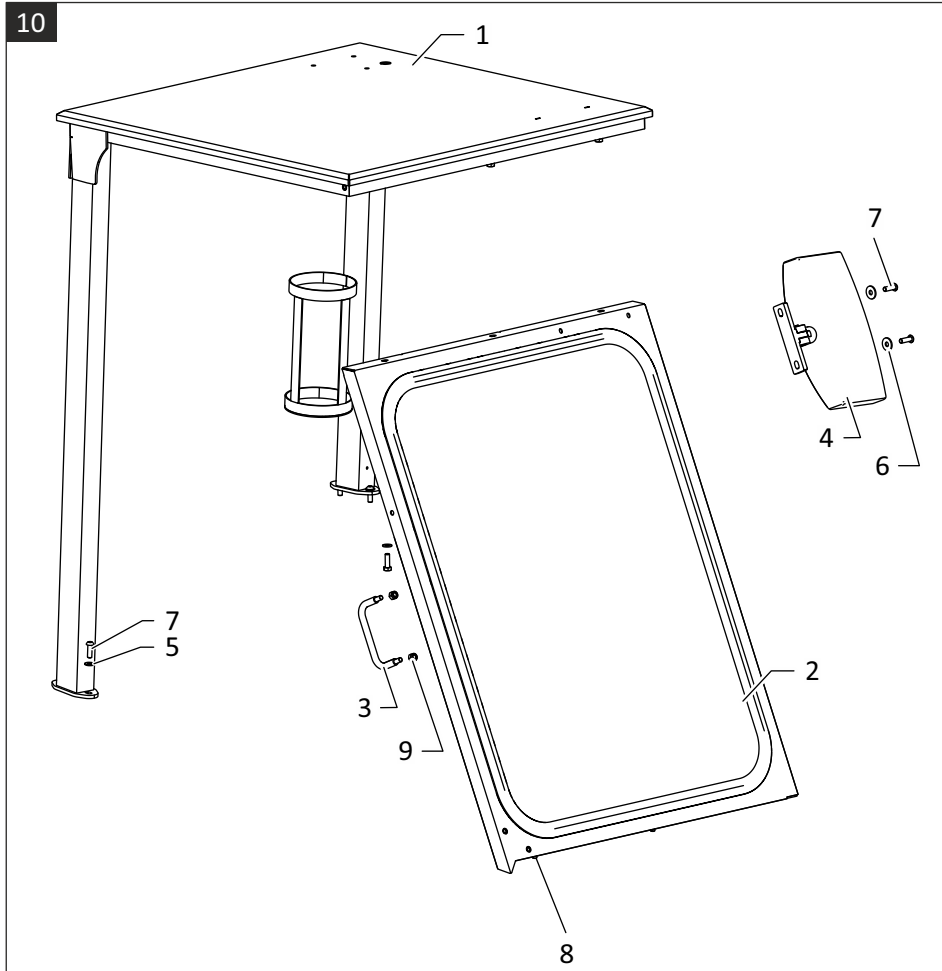
NOTE: Item No.4 is not shown in the figure.

SEAT BELT KIT



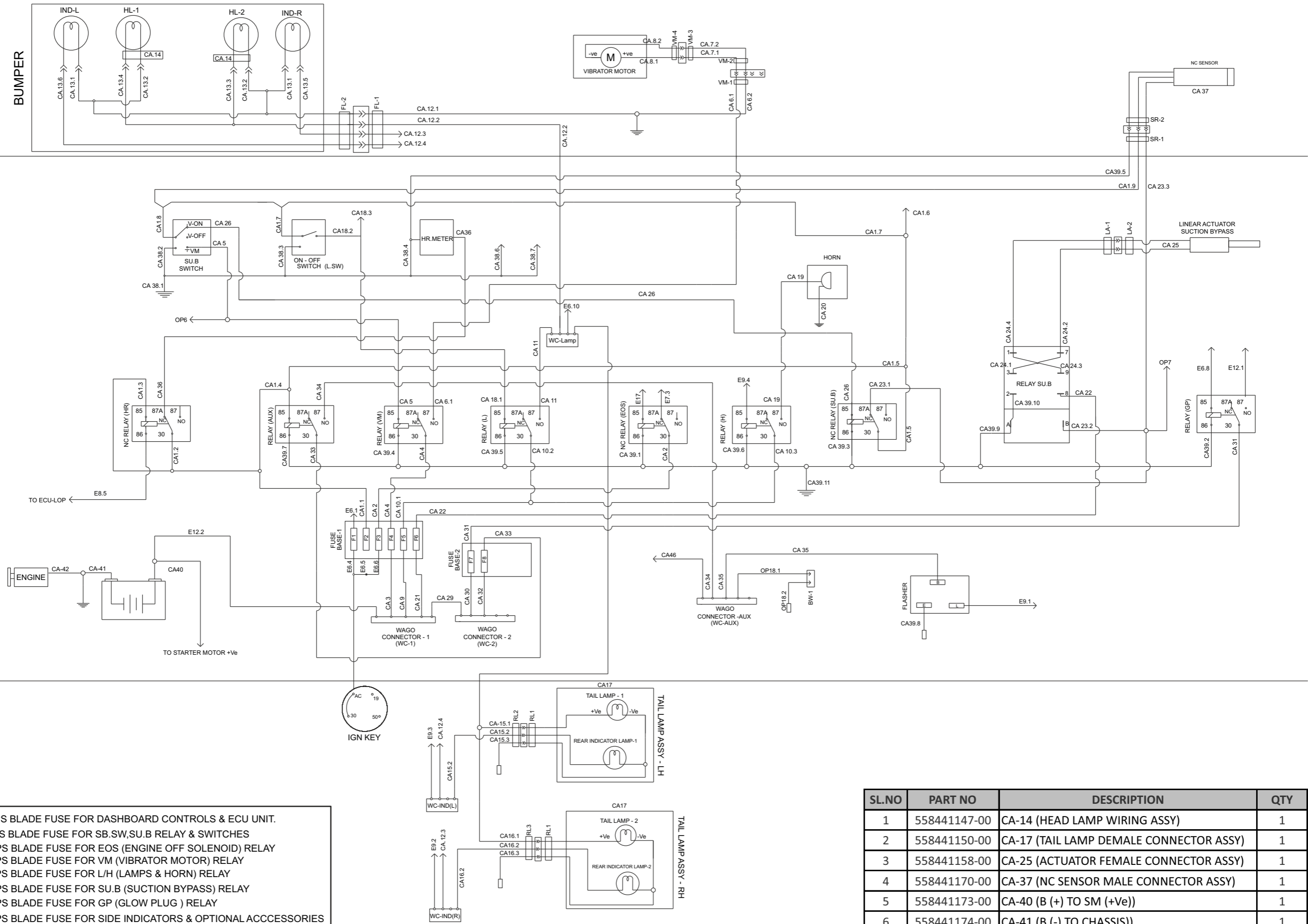
REF.NO.	PART NO	DESCRIPTION	QTY
1	553442848-00	SEAT BELT MTG PLATE - SEAT ASSY	1
2	553442642-00	SEAT BELT	1
3	558441311-00	SEAT BELT KIT	1

OVERHEAD GUARD



REF.NO.	PART NO	DESCRIPTION	QTY
1	558441253-00	OVERHEAD GUARD WMT	1
2	558441233-00	GLASS ASSY FRONT - OHG	1
3	553441320-00	HANDLE - CANOPY	1
4	553442800-00	REAR VIEW MIRROR - CONVEX	1
5	552850203-00	WASHER - EN8 - 8.4X17X1.6	7
6	552850204-00	WASHER - EN8 - 8.4X24X2.0	2
7	552850908-00	SOC BUTTON HD CAP SCREW - STEEL - M8X25	6
8	552850008-00	HEX HD SCREW - STEEL 8.8 - M8X16	3
9	552480008-00	HEX NYLOCK NUT - STEEL GR.8 - M8	2
10	558441234-00	OVERHEAD GUARD - KIT	1

ELECTRICAL WIRING SCHEMATIC - MACHINE

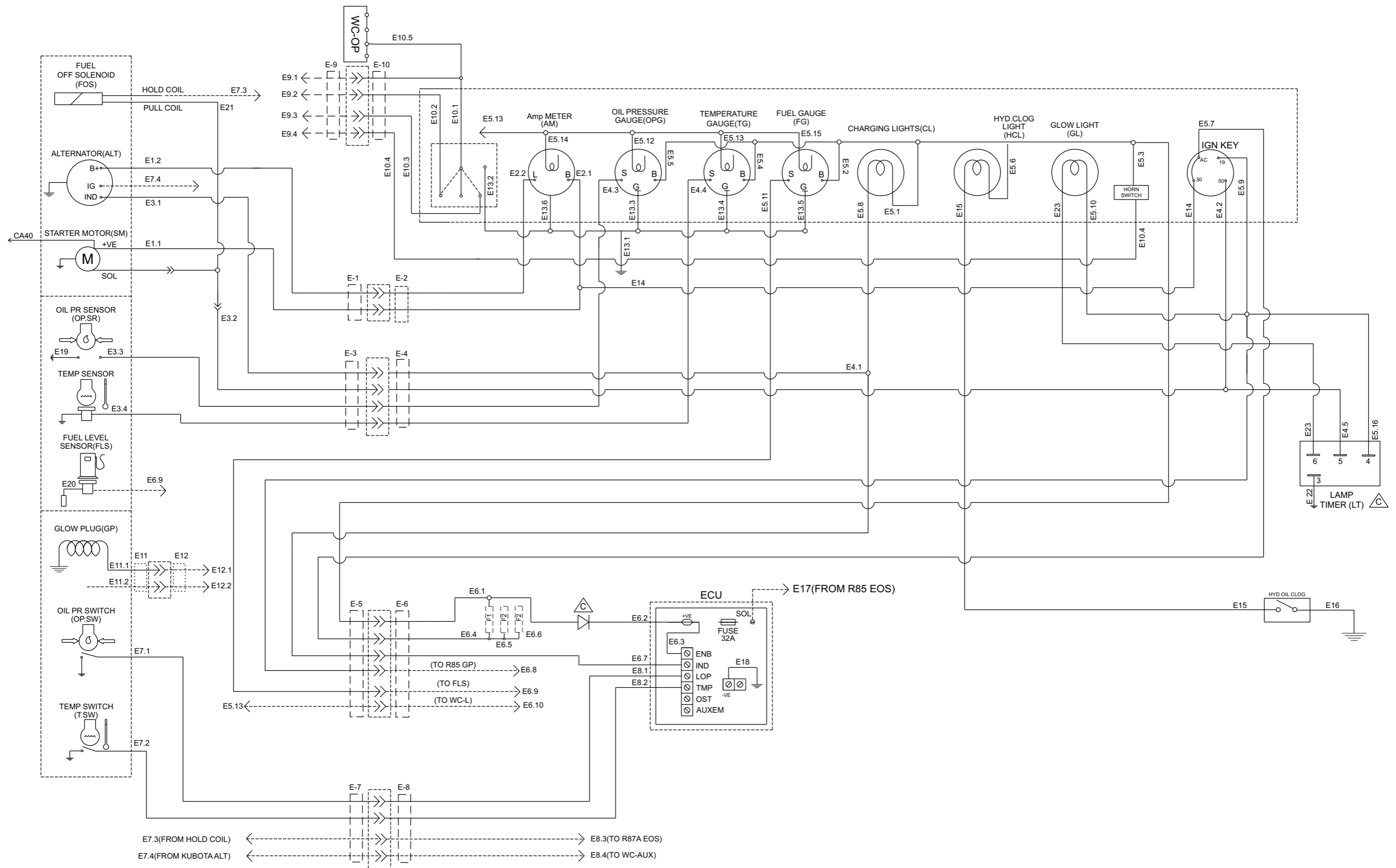


NOTE:

- F1 - 10 AMPS BLADE FUSE FOR DASHBOARD CONTROLS & ECU UNIT.
- F2 - 10AMPS BLADE FUSE FOR SB.SW,SU.B RELAY & SWITCHES
- F3 - 10 AMPS BLADE FUSE FOR EOS (ENGINE OFF SOLENOID) RELAY
- F4 - 20 AMPS BLADE FUSE FOR VM (VIBRATOR MOTOR) RELAY
- F5 - 25 AMPS BLADE FUSE FOR L/H (LAMPS & HORN) RELAY
- F6 - 10 AMPS BLADE FUSE FOR SU.B (SUCTION BYPASS) RELAY
- F7 - 40 AMPS BLADE FUSE FOR GP (GLOW PLUG) RELAY
- F8 - 20 AMPS BLADE FUSE FOR SIDE INDICATORS & OPTIONAL ACCESSORIES

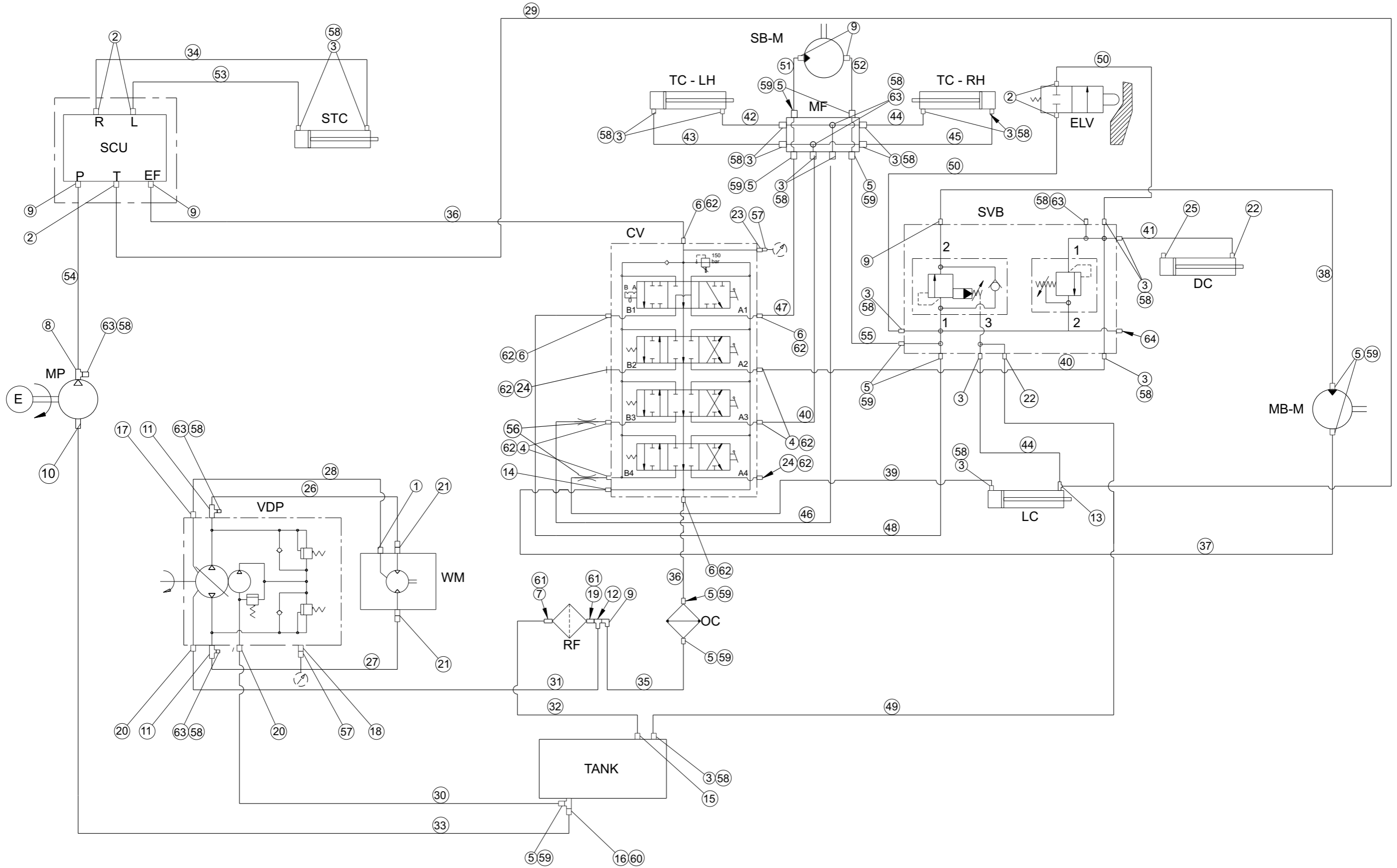
SL.NO	PART NO	DESCRIPTION	QTY
1	558441147-00	CA-14 (HEAD LAMP WIRING ASSY)	1
2	558441150-00	CA-17 (TAIL LAMP DEMALE CONNECTOR ASSY)	1
3	558441158-00	CA-25 (ACTUATOR FEMALE CONNECTOR ASSY)	1
4	558441170-00	CA-37 (NC SENSOR MALE CONNECTOR ASSY)	1
5	558441173-00	CA-40 (B (+) TO SM (+Ve))	1
6	558441174-00	CA-41 (B (-) TO CHASSIS))	1
7	558441175-00	CA-42 (ENGINE MOUNTING BOLT TO CHASSIS)	1

ELECTRICAL WIRING SCHEMATIC - ENGINE



Electrical assembly complete
group part number: 558441112-00

HYDRAULIC SCHEMATIC



HYDRAULIC SCHEMATIC

SI NO	PART NO	DESCRIPTION	QTY
1	553440671	Adapter ST 9/16" - 18UNF to 7/16"- 20UNF	1
2	553440677	Adjustable Elbow 9/16" - 18UNF to 3/8" - 19BSP	5
3	553440683	Adapter ST 1/4 -19BSP" to 9/16" - 18 UNF ORFS	19
4	553440684	Adapter ST 3/8 -19BSP" to 9/16" - 18 UNF ORFS	4
5	553440685	Adapter ST 1/2 -14BSP" to 13/16" - 18 UNF ORFS	11
6	553440686	Adapter ST 3/8 -19BSP" to 13/16" - 18 UNF ORFS	4
7	553440687	Adapter ST 3/4" -14 BSP to 1-3/16" - 12 ORFS	1
8	553441200	13/16" ORFS 7/8" UNF 1/4" BSP	1
9	553441201	Adjustable Elbow 1/2" BSP to 13/16" ORFS	6
10	553441202	Adapter ST - 1 - 7/16" ORFS to 1 - 1/16" UNF	1
11	553441203	1 - 1/16" UNF 13/16" ORFS 1/4" BSP (FEMALE)	2
12	553441204	Adjustable Run Tee Female 1/2"-14 BSP to 13/16" UNF.	1
13	553441205	Adjustable Run Tee 1/4" BSP 9/16"-18 UNF 9/16"-18 UNF	1
14	553441206	Adjustable Elbow 3/8" BSP -13/16" ORFS SHORT.	1
15	553441208	Adjustable Elbow 3/4" BSP to 1 - 3/16 ORFS	1
16	553441209	Adapter ST - 1" BSP TO 1 - 7/16" ORFS	1
17	553441211	Adapter ST - 3/4" UNF to 9/16" ORFS	1
18	553441212	Adapter ST – 3/4" UNF TO 1/4" BSP FEMALE	1
19	553441214	Adapter ST 3/4" BSP MALE - 1/2" BSP FEMALE	1
20	553441302	Adapter ST 3/4" - 16UNF to 13/16"- 16ORFS	2
21	553441303	Adapter ST 1-1/16" - 12UNF to 13/16"- 14ORFS	2
22	553442641	Adjustable Elbow 1/4" BSP-9/16" ORFS	2
23	553442293	Adjustable Elbow 3/8" BSP Male -1/4" BSP Female	1
24	552500035	Dummy 3/8" BSP	2
25	552860041	1/4"Silencer Button ASB 0161 JANATICS	1
26	553441232	13/16"ST – ST 13/16" ORFS 1/2" R2 LENGTH 1020 WITH PVC SLEEVE	1
27	553441233	13/16"ST – ST 13/16" ORFS 1/2" R2 LENGTH 1070 WITH PVC SLEEVE	1
28	553441234	9/16" ST – ST 9/16" ORFS 1/4" R2 LENGTH 980 WITH PVC SLEEVE	1
29	553441235	9/16" ST – ST 9/16" ORFS 1/4" R2 LENGTH 1030.	1
30	553441236	13/16"ST – 13/16" ORFS 90° 1/2" R1 LENGTH 1500.	1
31	553441237	13/16"ST – 13/16" ORFS 90° 1/2" R1 LENGTH 2400.	1
32	553441238	1-3/16"ST – 1-3/16" ORFS 90° 3/4" R1 LENGTH 2250.	1
33	553442946	1-7/16"ST – 1-7/16" ORFS 90° 1" R1 LENGTH 1050 WITH PVC SLEEVE	1
34	553441284	9/16"ST – 9/16" ORFS 45° 1/4" R2 LENGTH 2900.	1
35	553442639	13/16"ST – 13/16" ST ORFS 1/2" R1 LENGTH 1800.	1
36	553442295	13/16"ST – 13/16" ORFS 90° 1/2" R2 LENGTH 1900.	2
37	553442296	13/16"ST – 13/16" ORFS 90 1/2" R2 LENGTH 1500.	1
38	553442297	13/16"ST – 13/16" ORFS 90 1/2" R2 LENGTH 2300.	1
39	553442298	9/16"ST – 9/16" ORFS 90° 1/4" R2 LENGTH 700.	1
40	553442299	9/16"ST – 9/16" ORFS 90° 1/4" R2 LENGTH 1600.	2

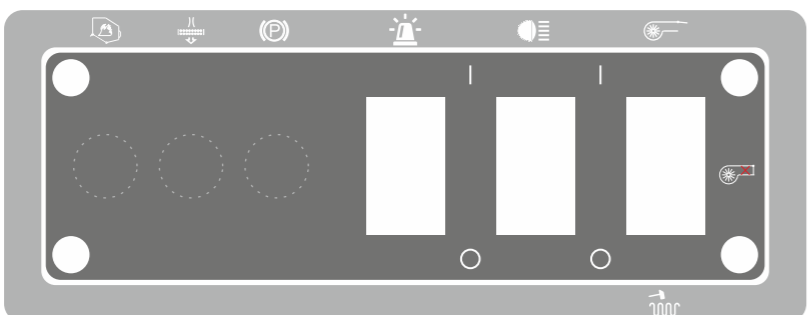
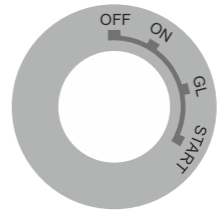
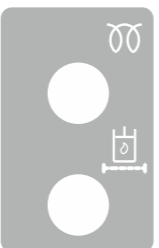
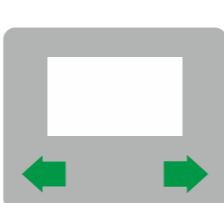
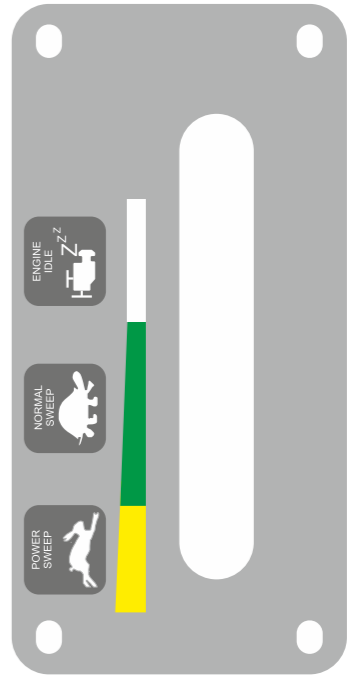
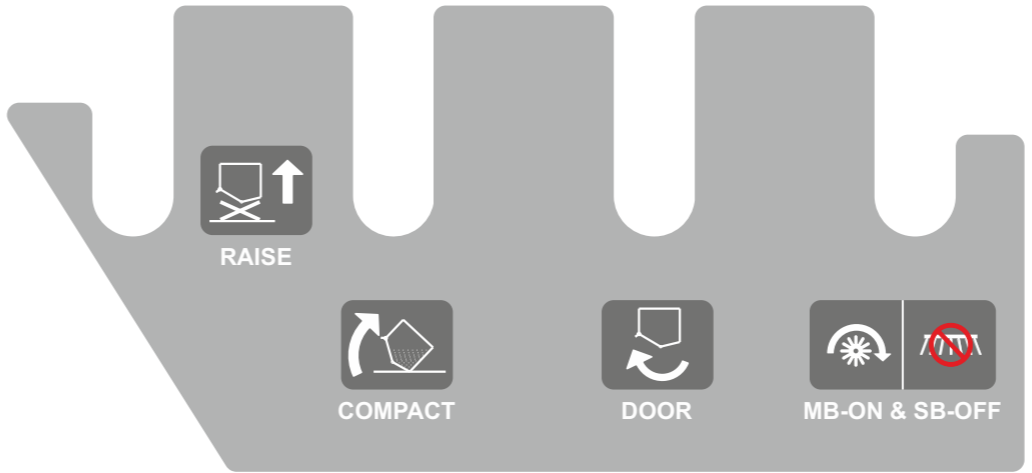
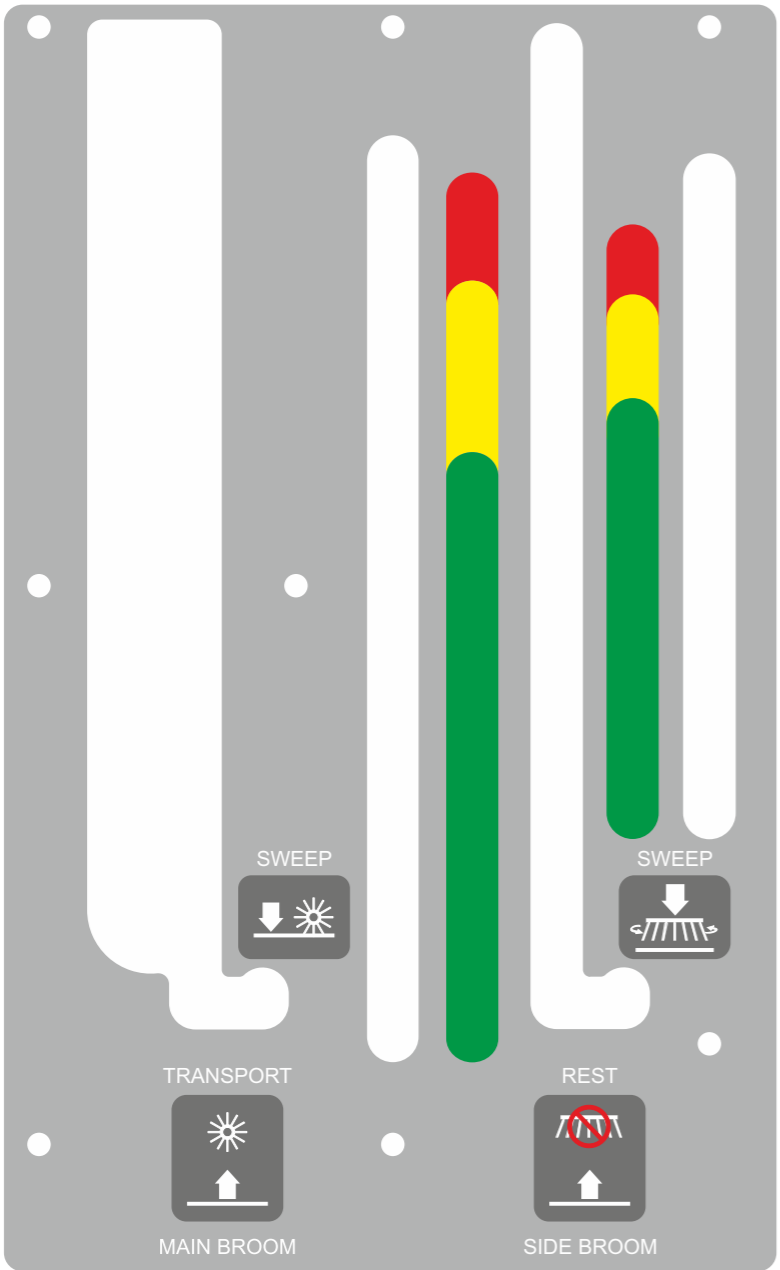
SI NO	PART NO	DESCRIPTION	QTY
41	553442300	9/16"ST – 9/16" ORFS 90° 1/4" R2 LENGTH 3600.	1
42	553442625	9/16"ST – 9/16" ORFS 45° 1/4" R2 LENGTH 875.	1
43	553442626	9/16"ST – 9/16" ORFS 45° 1/4" R2 LENGTH 935.	1
44	553442627	9/16"ST – 9/16" ORFS 45° 1/4" R2 LENGTH 960.	2
45	553442628	9/16"ST – 9/16" ORFS 45° 1/4" R2 LENGTH 1015.	1
46	553442629	9/16"ST – 9/16" ORFS 90° (LONG) 1/4" R2 LENGTH1600.	1
47	553442630	13/16"ST – 13/16" ORFS 135° 1/2" R2 LENGTH 850.	1
48	553442631	13/16" ST– 13/16" ORFS 135 1/2" R2 LENGTH 1600.	1
49	553442632	9/16" ST – 9/16" ORFS 90 1/4" R1 LENGTH 2000.	1
50	553442633	9/16" ST – 9/16" ORFS 90 1/4" R2 LENGHT 800.	2
51	553442634	13/16"ST-13/16"ORFS 90 1/2" R2 LENGTH 2010.	1
52	553442635	13/16"ST-13/16"ORFS 90 1/2" R2 LENGTH 2120.	1
53	553442636	9/16"ST – 9/16" ORFS 45° 1/4" R2 LENGTH 3000.	1
54	553442637	13/16"ST – 13/16" ORFS 45° 1/2" R2 LENGTH 3050.	1
55	553442638	13/16" ST– 13/16" ORFS 90 1/2" R2 LENGTH 2000.	1
56	553440957	ORIFICE - 0.8 mm	2
57	553441260	MINIMISE COUPLING	2
58	552670161	1/4" DOWTY WASHER	24
59	552670162	1/2" DOWTY WASHER	11
60	552670163	1" DOWTY WASHER	1
61	552670071	3/4" DOWTY WASHER	2
62	552670072	3/8" DOWTY WASHER	10
63	552500049	Dummy 1/4" BSP	6
64	552860159	PLUG 1/4"BSP	1

RHINO 

POWER SWEEPER

RD 160

STICKER - FUNCTIONAL



Functional stickers complete group
part number: 55744021-00

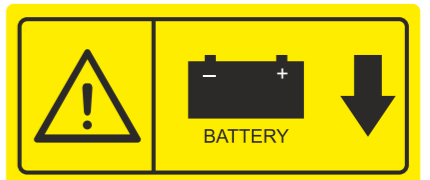
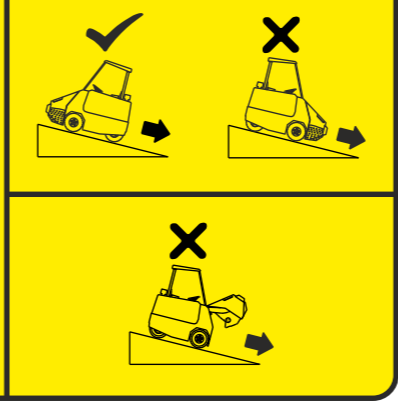
STICKER - SAFETY

MAINTENANCE SCHEDULE

TO CHECK DAILY	
MAINTENANCE AREA	THINGS TO CHECK
Main & Side Broom	Inspect brooms for wear and damage, remove strings and debris from bristles and drive assembly if found.
Air intake system	Empty & clean dust cup of pre-cleaner.
Coolant system	Check coolant level and top up as needed.
Engine	Check engine oil level.
Brake	Check brake oil level and top up as needed.
Hopper	Inspect the hopper aprons for wear or damage and replace as needed.
Hydraulic system	Shake and clean hopper dust filters, replace as needed.
Wheels and tires	Check hydraulic oil level and top up as needed.
Miscellaneous	Visually inspect for deflation, wear and damage. Repair or replace as needed.
Miscellaneous	Clean machine exterior.
TO CHECK EVERY 50 HOURS	
Main Broom	Rotate end-to-end. Inspect broom chamber seals and aprons for wear and damage, adjust or replace as needed. Perform main broom adjustment test and adjust as needed.
Hydraulic system	Check functioning of directional control pedal and adjust as needed.
Wheels and tires	Blow out hydraulic oil cooler fins with compressed air. (If so equipped) Check and tighten front & rear wheel nuts to 200 Nm torque. (For the first time only).
TO CHECK EVERY 100 HOURS	
Engine	Clean the engine bay. Check and adjust the belt tension. (Fan belt & Impeller belt)
Coolant system	Inspect radiator fins and clean as needed.
Hydraulic system	Check functioning of directional control pedal and adjust if needed. Check oil level and top up as needed.
Hopper	Blow out hydraulic oil cooler fins with compressed air. (If so equipped) Inspect hopper side structure and door seals for wear or damage. Adjust or replace as needed. Inspect filter frame seals for damages. Adjust or replace as needed.
TO CHECK EVERY 200 HOURS	
Engine	Change engine oil. Replace engine oil filter cartridge.
Air intake system	Clean the air filter element. NOTE: Replace the element every year or not more than six cleanings.
Battery	Check water level, clean and tighten battery cable connection. Check the electrical fuses.
Lubrication points	Steering Cylinder (2 fittings) Lubrication type - grease Door Cylinder (2 fittings) Lubrication type - grease Hood Latches & Hinges - Lubrication type - oil
Miscellaneous	Check anti-static drag chain on main broom counter weight for damage or excessive wear. Make sure the chain is touching the ground at all times.
TO CHECK EVERY 400 HOURS	
Engine	Replace fuel filter cartridge. Drain & clean water separator as needed.
Brake cylinder	Check brake oil line, oil level and top up if needed.
TO CHECK EVERY 500 HOURS	
Hydraulic system	Clean hydraulic oil strainer. Replace hydraulic oil and filter. Clean breather cap and oil strainer. Inspect hydraulic hoses & fittings for leakage/damage. Adjust or replace.
Coolant system	Drain and flush the coolant system and top up as needed.
Side broom	Check side broom lift cable for wear replace if needed.
TO CHECK EVERY 800 HOURS	
Hydraulic system	Clean hydraulic oil reservoir filter cap.
Wheels and tires	Check & tighten front and rear wheel nuts. (Torque to 200 Nm) Check & tighten wheel motor nuts. (Torque to 640 Nm)

CAUTION

- FOR YOUR SAFETY AND SAFETY OF OTHERS:**
- DO NOT OPERATE MACHINE:
Unless operating manual is read and understood.
Unless authorized and trained.
Without adequate ventilation.
 - Drive slowly on inclined and slippery surfaces.
 - Do not take a sharp turn when the vehicle is at high speed.
 - Do not park vehicle on a sloping surface.
 - Do not dump hopper unless vehicle is on a level surface.
 - Inspect vehicle everyday as per user manual.
 - Before leaving vehicle: Engage parking brake, Stop engine and Remove key.



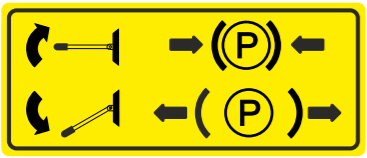
NOTICE

USE DESIGNATED FUSES ONLY

10 A	10 A	10 A	20 A	25 A	10 A	
F1	F2	F3	F4	F5	F6	
40 A	20 A					(OPS)
F7	F8	F9	F10	F11	F12	30A (NC)
		(GP)	(EOS)			30A (NO) 30A (NC)
		(VM)	(SU.B)			30A (NO) 30A (NC)
		(L)	(HR)			30A (NO) 30A (NC)
		(H)	(AUX)			30A (NO) 30A (NO)

FLASHER

DPDT RELAY



Safety stickers complete group part number: 557440022-00

RHINO

POWER SWEEPER



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