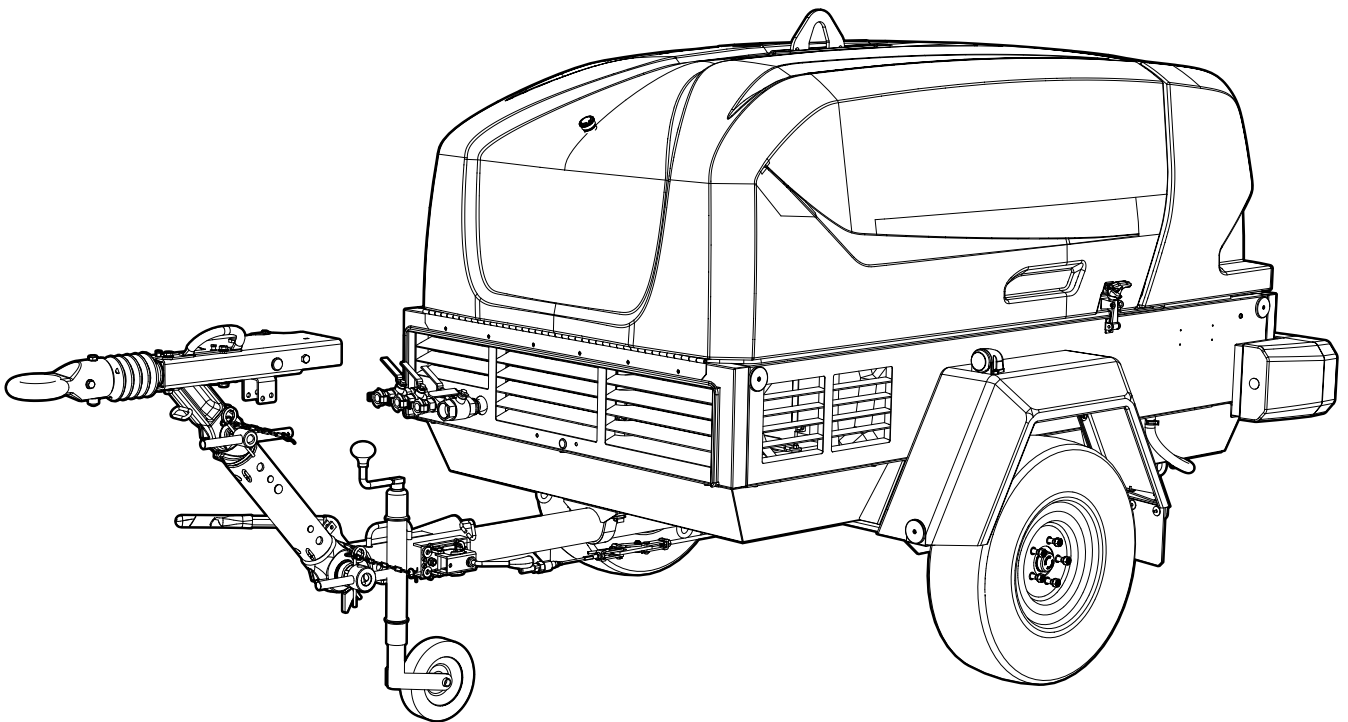




# Bobcat®

## REPAIR AND MAINTENANCE INFORMATION (RMI) Compressor

This manual is not intended for operation of the unit.  
It is intended for RMI in accordance with Regulation (EU) 2018/858.  
A separate operation and maintenance manual is supplied with each unit.



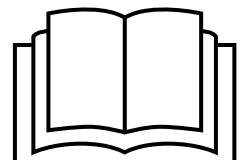
### PA12.7 V (K26)



This manual contains important safety information and must be made available to personnel who operate and maintain this machine. If the required repair and maintenance information is not detailed in this manual then contact your local dealer.

This manual is applicable for trailers under the following Type Approval numbers:

e1\*2018/858\*00121\*00  
e1\*2018/858\*00119\*00  
e1\*2018/858\*00114\*00



Serial No: 545000->



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ABBREVIATIONS & SYMBOLS

**####** Contact the company for serial number

**->####** Up to Serial No.

**####->** From Serial No.

**\*** Not illustrated

**†** Option

**AR** As required

**HA** High ambient machine

**F.H.R.G.** Fixed height running gear

**V.H.R.G.** Variable height running gear

**bg** Bulgarian

**cs** Czech

**da** Danish

**de** German

**el** Greek

**en** English

**es** Spanish

**et** Estonian

**fi** Finnish

**fr** French

**hu** Hungarian

**it** Italian

**lt** Lithuanian

**lv** Latvian, Lettish

**mt** Maltese

**nl** Dutch

**no** Norwegian

**pl** Polish

**pt** Portuguese

**ro** Romanian

**ru** Russian

**sk** Slovak

**sl** Slovenian

**sv** Swedish

**zh** Chinese

## 2 FOREWORD

The contents of this manual are considered to be proprietary and confidential to and should not be reproduced without the prior written permission of the company.

Nothing contained in this document is intended to extend any promise, warranty or representation, expressed or implied, regarding the products described herein. Any such warranties or other terms and conditions of sale of products shall be in accordance with the standard terms and conditions of sale for such products, which are available upon request.

This manual contains instructions and technical data to cover all routine operation and scheduled maintenance tasks by operation and maintenance staff. Major overhauls are outside the scope of this manual and should be referred to an authorised service department.

The design specification of this machine has been certified as complying with EC directives. As a result:

- a) Any machine modifications are strictly prohibited, and will invalidate EC certification.
- b) A unique specification for USA/Canada is adopted and tailored to the territory.

All components, accessories, pipes and connectors added to the compressed air system should be:

- of good quality, procured from a reputable manufacturer and, wherever possible, be of a type approved by the company.
- clearly rated for a pressure at least equal to the machine maximum allowable working pressure.
- compatible with the compressor lubricant/coolant.
- accompanied with instructions for safe installation, operation and maintenance.

*Details of approved equipment are available from the company Service departments.*

The use of repair parts / lubricants / fluids other than those included within the approved parts list may create hazardous conditions over which the company has no control. Therefore the company cannot be held responsible for equipment in which non-approved repair parts are installed.

The company reserves the right to make changes and improvements to products without notice and without incurring any obligation to make such changes or add such improvements to products sold previously.

The intended uses of this machine are outlined below and examples of unapproved usage are also given, however the company cannot anticipate every application or work situation that may arise.

### IF IN DOUBT CONSULT SUPERVISION.

This machine has been designed and supplied for use only in the following specified conditions and applications:

- Compression of normal ambient air containing no known or detectable additional gases, vapours. or particles
- Operation within the ambient temperature range specified in the *GENERAL INFORMATION* section of this manual.
- Generation of electricity at 110v (1ph) with centre tap earth, 230v (1ph), 230v (3ph) and 400v (3ph) / 230v (1ph) nominal at 50 Hertz.

### The use of the machine in any of the situation types listed in table 1:-

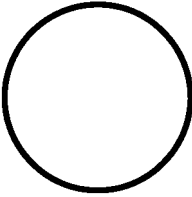
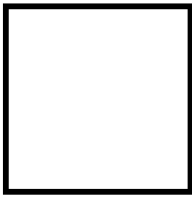


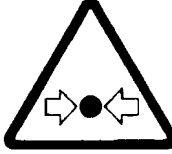




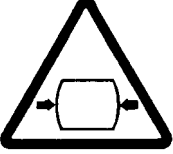




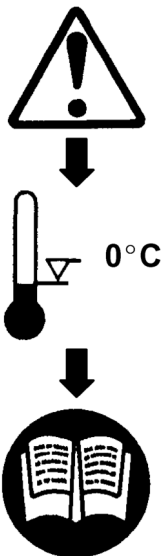
- a) **Is not approved,**
- b) **May impair the safety of users and other persons, and**
- c) **May prejudice any claims made against the company.**


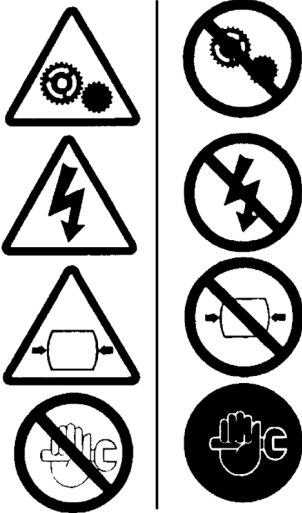













TABLE 1
Use of the machine to produce compressed air for: a) direct human consumption b) indirect human consumption, without suitable filtration and purity checks.
Use of the machine outside the ambient temperature range specified in the <i>GENERAL INFORMATION SECTION</i> of this manual.
This machine is not intended and must not be used in potentially explosive atmospheres, including situations where flammable gases or vapours may be present.
Use of the machine fitted with non approved components / lubricants / fluids.
Use of the machine with safety or control components missing or disabled.
Use of the machine for storage or transportation of materials inside or on the enclosure except when contained within the toolbox.
GENERATOR
Use of the generator to supply load(s) greater than those specified.
Use of unsafe or unserviceable electrical equipment connected to the generator.
Use of electrical equipment: a) Having incorrect voltage and/or frequency ratings. b) Containing computer equipment and/or similar electronics.

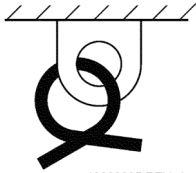




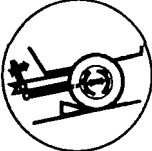

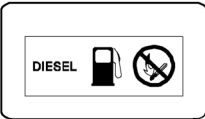


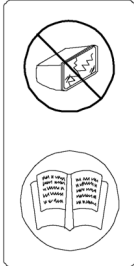
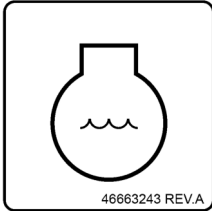



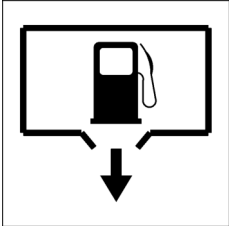
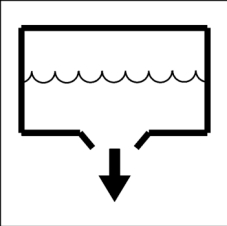
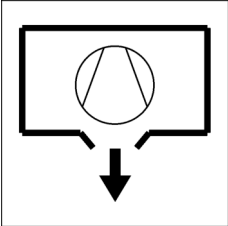
The company accepts no responsibility for errors in translation of this manual from the original English version.

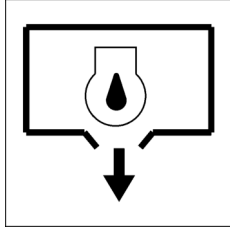
© COPYRIGHT 2024  
BOBCAT COMPANY

GRAPHIC FORM AND MEANING OF ISO SYMBOLS

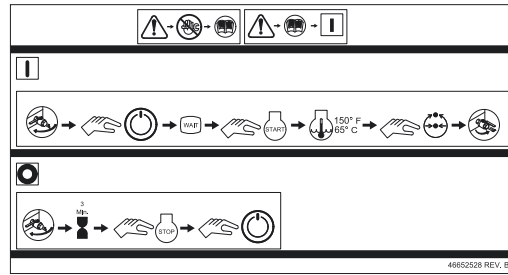
		
Prohibition / Mandatory	Information / Instructions	Warning
 <p>WARNING: Electrical shock risk</p>	 <p>WARNING - Pressurised component or system.</p>	 <p>WARNING - Hot surface.</p>
 <p>WARNING - Pressure control.</p>	 <p>WARNING - Corrosion risk.</p>	 <p>WARNING - Air/gas flow or Air discharge.</p>
 <p>WARNING - Pressurised vessel.</p>	 <p>WARNING - Hot and harmful exhaust gas.</p>	 <p>WARNING - Flammable liquid.</p>
 <p>WARNING - Maintain correct tyre pressure. (Refer to the GENERAL INFORMATION section of this manual).</p>	 <p>WARNING - Before connecting the tow bar or commencing to tow consult the operation and maintenance manual.</p>	 <p>WARNING - For operating temperature below 0°C, consult the operation and maintenance manual.</p>

 <p><b>WARNING - Maintenance work in progress.</b></p>	 <p><b>WARNING - Do not undertake any maintenance on this machine until the electrical supply is disconnected and the air pressure is totally relieved.</b></p>	 <p><b>WARNING - Consult the operation and maintenance manual before commencing any maintenance.</b></p>
 <p>Do not breathe the compressed air from this machine.</p>	 <p>Do not remove the Operating and Maintenance manual and manual holder from this machine.</p>	 <p>Do not stack.</p>
 <p>Do not operate the machine without the guard being fitted.</p>	 <p>Do not stand on any service valve or other parts of the pressure system.</p>	 <p>Do not operate with the doors or enclosure open.</p>
 <p>Do not use fork lift truck from this side.</p>	 <p>Do not exceed the trailer speed limit.</p>	 <p>No naked lights.</p>
 <p>Do not open the service valve before the airhose is attached.</p>	 <p>Use fork lift truck from this side only.</p>	 <p>Emergency stop.</p>

 <p>46663095 REV. A</p> <p>Lashing point (Tie down).</p>	 <p>Lifting point.</p>	 <p>On (power).</p>
 <p>Off (power).</p>	 <p>Read the Operation and Maintenance manual before operation or maintenance of this machine is undertaken.</p>	 <p>When parking use prop stand, handbrake and wheel chocks.</p>
 <p>Compressor oil filling.</p>	 <p>Diesel fuel. No open flame.</p>	 <p>Parking brake.</p>
 <p>Rough Service Designation. Wet Location Operation.</p>	 <p>Replace any cracked protective shield.</p>	 <p>46663243 REV.A</p> <p>Coolant fill.</p>
 <p>Prohibition: Do not start</p>	 <p>Start and stop device.</p>	 <p>Mandatory action: Hearing protection must be worn.</p>
 <p>Diesel fuel drain.</p>	 <p>Engine coolant drain.</p>	 <p>Compressor oil drain.</p>



Engine oil drain.



Start sequence.



**WARNINGS**

Warnings call attention to instructions which must be followed precisely to avoid injury or death.

**CAUTIONS**

Cautions call attention to instructions which must be followed precisely to avoid damaging the product, process or its surroundings.

**NOTES**

Notes are used for supplementary information.

**General Information**

Never operate unit without first observing all safety warnings and carefully reading the operation and maintenance manual shipped from the factory with this machine.

Ensure that the operator reads and *understands* the decals and consults the manuals before maintenance or operation.

Ensure that the Operation and Maintenance manual, and the manual holder, are not removed permanently from the machine.

Ensure that maintenance personnel are adequately trained, competent and have read the Maintenance Manuals.

Ensure that ice and snow do not block the cooling air inlets.

Use hearing protectors when the machine is running.

Make sure that all protective covers are in place and that the canopy/doors are closed during operation.

The specification of this machine is such that the machine is not suitable for use in flammable gas risk areas. If such an application is required then all local regulations, codes of practice and site rules must be observed. To ensure that the machine can operate in a safe and reliable manner, additional equipment such as gas detection, exhaust spark arrestors, and intake (*shut-off*) valves may be required, dependant on local regulations or the degree of risk involved.

A weekly visual check must be made on all fasteners/fixing screws securing mechanical parts. In particular, safety-related parts such as coupling hitch, drawbar components, road-wheels, and lifting bail should be checked for total security.

All components which are loose, damaged or unserviceable, must be rectified without delay.

Air discharged from this machine may contain carbon monoxide or other contaminants which will cause serious injury or death. Do not breathe this air.

This machine produces loud noise with the doors open or service valve vented. Extended exposure to loud noise can cause hearing loss. Always wear hearing protection when doors are open or service valve is vented.

Never inspect or service unit without first disconnecting battery cable(s) to prevent accidental starting.

Do not use petroleum products (solvents or fuels) under high pressure as this can penetrate the skin and result in serious illness. Wear eye protection while cleaning unit with compressed air to prevent debris from injuring eye(s).

Rotating fan blade can cause serious injury. Do not operate without guard in place.

Use care to avoid contacting hot surfaces (engine exhaust manifold and piping, air receiver and air discharge piping, etc.).

Ether is an extremely volatile, highly flammable gas. When it is specified as a starting aid, use sparingly. **DO NOT USE ETHER IF THE MACHINE HAS GLOW PLUG STARTING AID OR ENGINE DAMAGE WILL RESULT.**

Never operate unit with guards, covers or screens removed. Keep hands, hair, clothing, tools, blow gun tips, etc. well away from moving parts.

**Compressed air**

Compressed air can be dangerous if incorrectly handled. Before doing any work on the unit, ensure that all pressure is vented from the system and that the machine cannot be started accidentally.

Ensure that the machine is operating at the rated pressure and that the rated pressure is known to all relevant personnel.

All air pressure equipment installed in or connected to the machine must have safe working pressure ratings of at least the machine rated pressure.

If more than one compressor is connected to one common downstream plant, effective check valves and isolation valves must be fitted and controlled by work procedures, so that one machine cannot accidentally be pressurised / over pressurised by another.

Compressed air must not be used for a direct feed to any form of breathing apparatus or mask.

High Pressure Air can cause serious injury or death. Relieve pressure before removing filler plugs/caps, fittings or covers.

Air pressure can remain trapped in air supply line which can result in serious injury or death. Always carefully vent air supply line at tool or vent valve before performing any service.

The discharged air contains a very small percentage of compressor lubricating oil and care should be taken to ensure that downstream equipment is compatible.

If the discharged air is to be ultimately released into a confined space, adequate ventilation must be provided.

When using compressed air always use appropriate personal protective equipment.

All pressure containing parts, especially flexible hoses and their couplings, must be regularly inspected, be free from defects and be replaced according to the Manual instructions.

Avoid bodily contact with compressed air.

The safety valve located in the separator tank must be checked periodically for correct operation.

Whenever the machine is stopped, air will flow back into the compressor system from devices or systems downstream of the machine unless the service valve is closed. Install a check valve at the machine service valve to prevent reverse flow in the event of an unexpected shutdown when the service valve is open.

Disconnected air hoses whip and can cause serious injury or death. Always attach a safety flow restrictor to each hose at the source of supply or branch line in accordance with OSHA Regulation 29CFR Section 1926.302 (b).

Never allow the unit to sit stopped with pressure in the receiver-separator system.

# 8 SAFETY

## Materials

The following substances *may* be produced during the operation of this machine:

- brake lining dust
- engine exhaust fumes

### AVOID INHALATION

Ensure that adequate ventilation of the cooling system and exhaust gases is maintained at all times.

The following substances are used in the manufacture of this machine and *may* be hazardous to health if used incorrectly:

- compressor lubricant
- engine lubricant
- preservative grease
- rust preventative
- diesel fuel
- battery electrolyte

### AVOID INGESTION, SKIN CONTACT AND INHALATION OF FUMES.

Should compressor lubricant come into contact with the eyes, then irrigate with water for at least 5 minutes.

Should compressor lubricant come into contact with the skin, then wash off immediately.

Consult a physician if large amounts of compressor lubricant are ingested.

Consult a physician if compressor lubricant is inhaled.

Never give fluids or induce vomiting if the patient is unconscious or having convulsions.

Safety data sheets for compressor and engine lubricants should be obtained from the lubricant supplier.

Never operate the engine of this machine inside a building without adequate ventilation. Avoid breathing exhaust fumes when working on or near the machine.

This machine may include such materials as oil, diesel fuel, antifreeze, brake fluid, oil/air filters and batteries which may require proper disposal when performing maintenance and service tasks. Contact local authorities for proper disposal of these materials.

## Battery

A battery contains sulphuric acid and can give off gases which are corrosive and potentially explosive. Avoid contact with skin, eyes and clothing. In case of contact, flush area immediately with water.

### DO NOT ATTEMPT TO SLAVE START A FROZEN BATTERY SINCE THIS MAY CAUSE IT TO EXPLODE.

Exercise extreme caution when using booster battery. To jump battery, connect ends of one booster cable to the positive (+) terminal of each battery. Connect one end of other cable to the negative (-) terminal of the booster battery and other end to a ground connection away from dead battery (to avoid a spark occurring near any explosive gases that may be present). After starting unit, always disconnect cables in reverse order.

## Radiator

Hot engine coolant and steam can cause injury. Ensure that the radiator filler cap is removed with due care and attention.

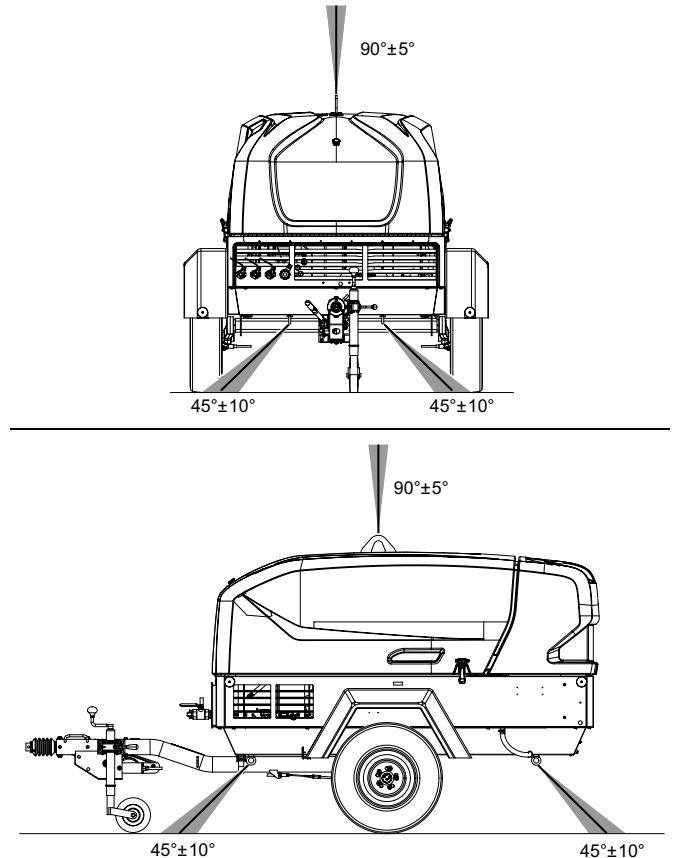
Do not remove the pressure cap from a HOT radiator. Allow radiator to cool down before removing pressure cap.

## Generator

The generator is designed for safety in use. However, the responsibility for safe operation rests with those who install, use and maintain it. The following safety precautions are offered as a guide, which, if conscientiously followed, will minimise the possibility of accidents throughout the useful life of this equipment.

## Transport

When loading or transporting machines ensure that the specified lifting and tie down points are used and cables or chains are within safe limits.



When loading or transporting machines ensure that the towing vehicle, its size, weight, towing hitch and electrical supply are all suitable to provide safe and stable towing at speeds either, up to the legal maximum for the country in which it is being towed or, as specified for the machine model if lower than the legal maximum.

Ensure that the maximum trailer weight does not exceed the maximum gross weight of the machine (by limiting the equipment load), limited by the capacity of the running gear.

**NOTE:** Gross mass (on data plate) is for the basic machine and fuel only, excluding any fitted options, tools, equipment and foreign materials.

Before towing the machine, ensure that:-

- the tyres and towing hitch are in a serviceable condition.
- the canopy is secure.
- all ancillary equipment is stored in a safe and secure manner.
- the brakes and lights are functioning correctly and meet necessary road traffic requirements.
- break-away cables/safety chains are connected to the towing vehicle.

The machine must be towed in a level attitude (the maximum permissible drawbar angle is between 0° and +5° from horizontal) in order to maintain correct handling, braking and lighting functions. This can be achieved by correct selection and adjustment of the vehicle towing hitch and, on variable height running gear, adjustment of the drawbar.

To ensure full braking efficiency, the front (towing eye) section must always be set level.

When adjusting variable height running gear:-

- Ensure front (towing eye) section is set level.
- When raising towing eye, set rear joint first, then front joint.
- When lowering towing eye, set front joint first, then rear joint.

After setting, fully tighten each joint by hand and then tighten further to the next pin. Refit the pin.

When parking always use the handbrake and, if necessary, suitable wheel chocks.

Make sure wheels, tyres and tow bar connectors are in safe operating condition and tow bar is properly connected before towing.

**WARNING: Do not mount towing devices to the rear of the trailer.**

### Safety chains / connections and their adjustment

The legal requirements for the joint operation of the breakaway cable and the safety chains can be different in different countries. Always check that you meet the relevant legal requirements of the country in which the machine is used. Consequently we offer the following advice / instructions.

Where brakes only are fitted:

- a) Ensure that the breakaway cable is securely coupled to the handbrake lever and also to a substantial point on the towing vehicle.
- b) Ensure that the effective cable length is as short as possible, whilst still allowing enough slackness for the trailer to articulate without the handbrake being applied.

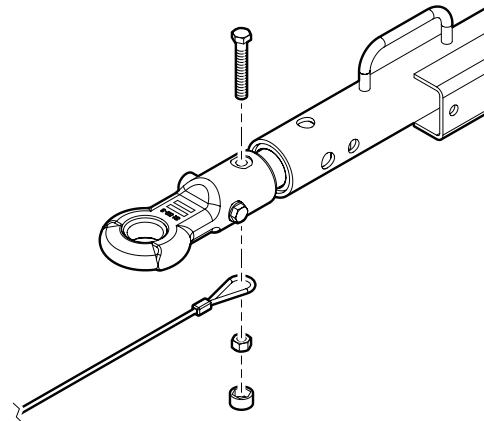
Where brakes and safety chains are fitted:

- a) Loop the chains onto the towing vehicle using the towing vehicle hitch as an anchorage point, or any other point of similar strength.
- b) Ensure that the effective chain length is as short as possible whilst still allowing normal articulation of the trailer and effective operation of the breakaway cable.

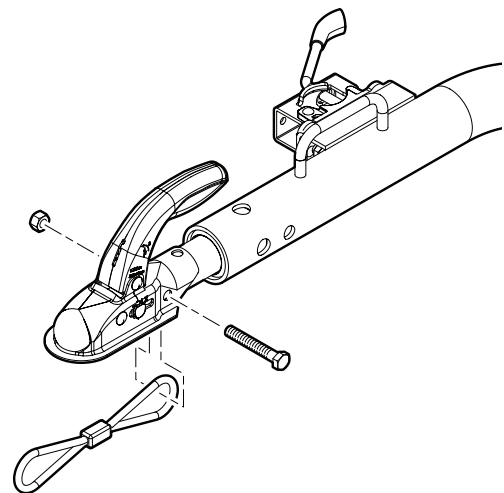
Where breakaway cable only is fitted (un-braked trailer) :

- a) Loop the end of the cable around the towing vehicle hitch and secure with the spring clip, or any other connection point on the towing vehicle intended for these purposes.
- b) When adjusting the breakaway cable there should be sufficient free length in the cable to allow normal articulation, whilst also being short enough to prevent the tow-bar from touching the ground in the event of an accidental separation of the towing vehicle from the trailer.

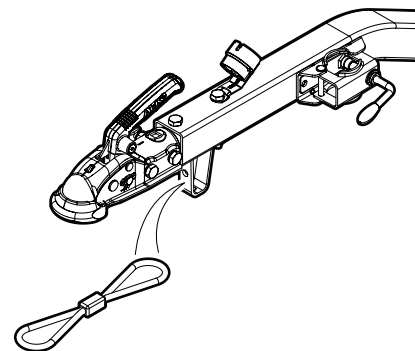
### Breakaway Cable Location - Units with Towing Eye



### Breakaway Cable Location - Units with Ball Hitch



### Breakaway Cable Location - Units with Supporting Foot

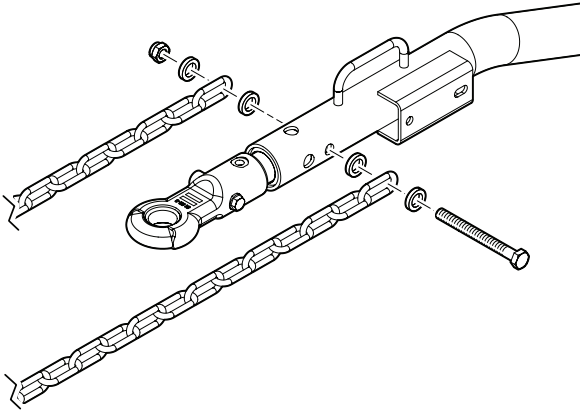


## 10 SAFETY

Where safety chains only are fitted:

- a) Loop the chains onto the towing vehicle using the towing vehicle hitch as an anchorage point, or any other point of similar strength.
- b) When adjusting the safety chains there should be sufficient free length in the chains to allow normal articulation, whilst also being short enough to prevent the tow-bar from touching the ground in the event of an accidental separation of the towing vehicle from the trailer.

### Safety Chain Location

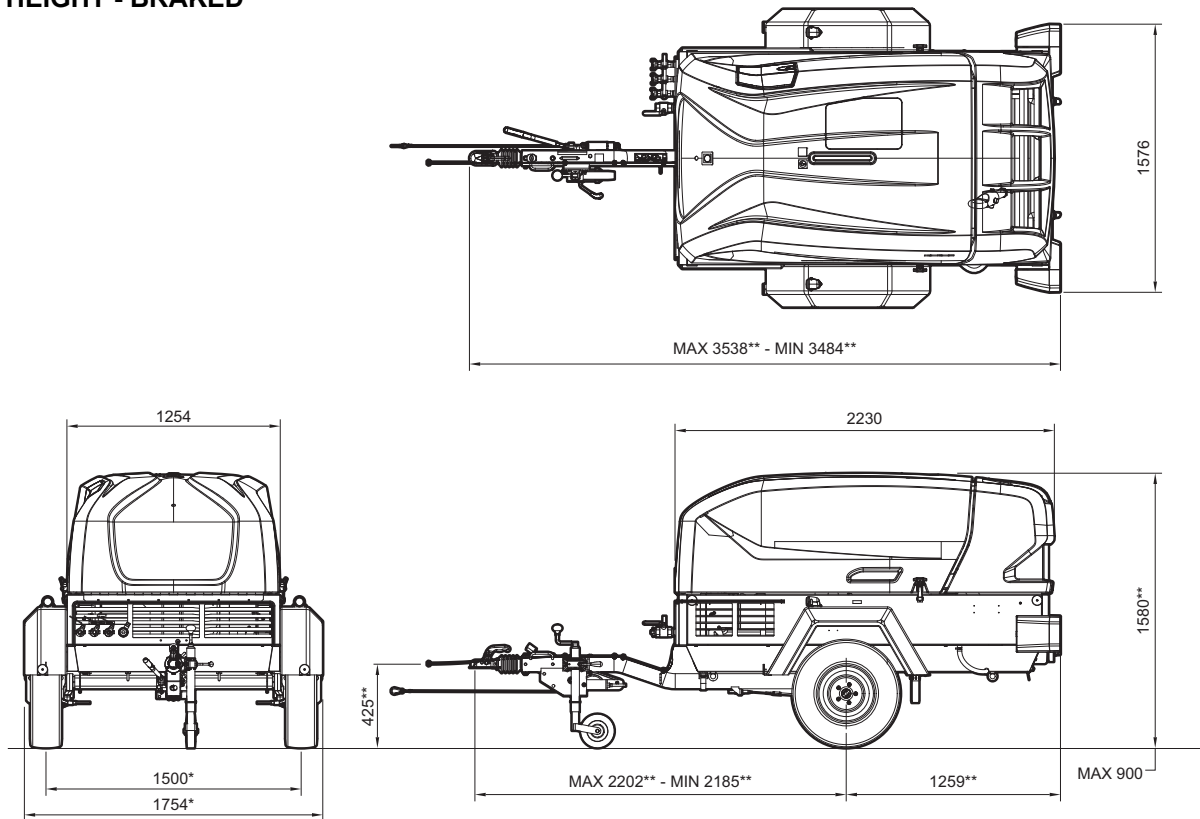


Where breakaway cable or safety chains are not fitted:

- a) In the case the breakaway cable or safety chains are not assembled, lost or misplaced, always check the legal requirements of the country in which the machine is used. If required, then make sure that suitable breakaway cables or safety chains that meets the legal requirement are connected and used. In some countries the use of this device is mandatory for un-braked trailers.
- b) Connect this device according to the above procedures.

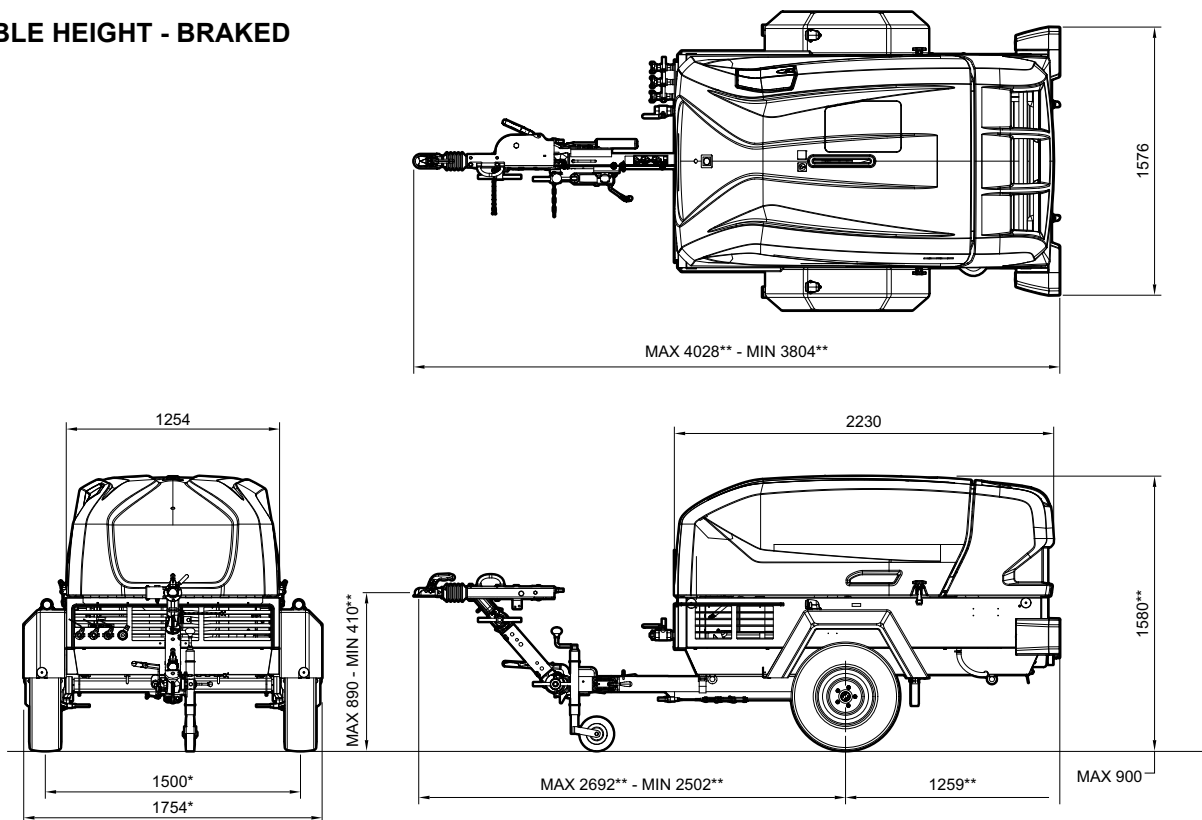
RUNNING GEAR

FIXED HEIGHT - BRAKED



T8070\_00  
06/23

VARIABLE HEIGHT - BRAKED



T8071\_00  
06/23

All dimensions in mm.

Dimensions marked \* are subjected to  $A \pm 10$  mm tolerance

Dimensions marked \*\* are subjected to  $A \pm 40$  mm tolerance

## 12 GENERAL INFORMATION

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### WHEELS AND TYRES

Number of wheels.	2 x 5.5 J x 14H2 ET30
Tyre size.	185 R14C
Tyre pressure.	450 kPa

Further information may be obtained by request through the customer services department.

<b><u>MAINTENANCE SCHEDULE</u></b>						
	Daily	Weekly	Monthly	6 Monthly. 500 hrs	1 Year. 1000 hrs	2 years 2000 hrs
Wheels (bearings, seals, etc.)				C		
Lights (brake, running & turn)	CBT					
Pintle Eye Bolts	CBT					
Brakes	C					
Brake Linkage	C					

**C** = Check and act if required

**T** = Test

**D** = Drain

**R** = Replace

**R/WI** = Replace or when indicated earlier

**CBT** = Check before towing

**C/R** = Check and replace if required

**G/C** = Grease and check

**C/A** = Check and adjust if required

# 14 MAINTENANCE

## ROUTINE MAINTENANCE

This section refers to the various components which require periodic maintenance and replacement.

The *SERVICE/MAINTENANCE CHART* indicates the various components' descriptions and the intervals when maintenance has to take place. Oil capacities, etc., can be found in the *GENERAL INFORMATION* section of this manual.

For any specification or specific requirement on service or preventative maintenance for the engine, refer to the *Engine Manufacturer's Manual*.

Compressed air can be dangerous if incorrectly handled. Before doing any work on the unit, ensure that all pressure is vented from the system and that the machine cannot be started accidentally.

If the automatic blowdown fails to operate, then pressure must be gradually relieved by operating the manual blowdown valve. Suitable personal protective equipment should be worn.

Ensure that maintenance personnel are adequately trained, competent and have read the Maintenance Manuals.

### Prior to attempting any maintenance work, ensure that:-

- all air pressure is fully discharged and isolated from the system. If the automatic blowdown valve is used for this purpose, then allow enough time for it to complete the operation.
- the discharge pipe / manifold area is depressurised by opening the discharge valve, whilst keeping clear of any airflow from it.
- the machine cannot be started accidentally or otherwise, by posting warning signs and/or fitting appropriate anti-start devices.
- all residual electrical power sources (mains and battery) are isolated.

### Prior to opening or removing panels or covers to work inside a machine, ensure that:-

- anyone entering the machine is aware of the reduced level of protection and the additional hazards, including hot surfaces and intermittently moving parts.
- the machine cannot be started accidentally or otherwise, by posting warning signs and/or fitting appropriate anti-start devices.

### Prior to attempting any maintenance work on a running machine, ensure that:-

- the work carried out is limited to only those tasks which require the machine to run.
- the work carried out with safety protection devices disabled or removed is limited to only those tasks which require the machine to be running with safety protection devices disabled or removed.
- all hazards present are known (e.g. pressurised components, electrically live components, removed panels, covers and guards, extreme temperatures, inflow and outflow of air, intermittently moving parts, safety valve discharge etc.).
- appropriate personal protective equipment is worn.
- loose clothing, jewellery, long hair etc. is made safe.
- warning signs indicating that Maintenance Work is in Progress are posted in a position that can be clearly seen.

### Upon completion of maintenance tasks and prior to returning the machine into service, ensure that:-

- the machine is suitably tested.
- all guards and safety protection devices are refitted.
- all panels are replaced, canopy and doors closed.
- hazardous materials are effectively contained and disposed of.

## RUNNING GEAR/WHEELS

Check the wheel nut torque 20 miles (30 kilometres) after refitting the wheels. Refer to the *TORQUE SETTING TABLE* later in this section.

Lifting jacks should only be used under the axle.

The bolts securing the running gear to the chassis should be checked periodically for tightness (refer to the *SERVICE/MAINTENANCE CHART* for frequency) and re-tightened where necessary. Refer to the *TORQUE SETTING TABLE* later in this section.

## BRAKES

Check and adjust the brake linkage at 500 miles (850Km) then every 3000 miles (5000Km) or 3 months (whichever is the sooner) to compensate for any stretch of the adjustable cables. Check and adjust the wheel brakes to compensate for wear.

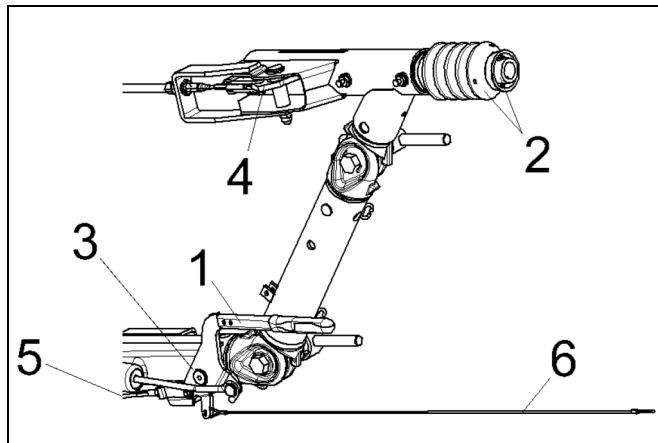
### Adjusting the overrun braking system (KNOTT Running Gear)

#### 1. Preparation

Jack up the machine

Disengage the handbrake lever [1].

Fully extend the draw bar [2] on the overrun braking system.



1. Handbrake lever
2. Draw bar and bellows
3. Handbrake lever pivot
4. Transmission lever
5. Brake cable
6. Breakaway Cable

#### Requirements:

During the adjustment procedure always start with the wheel brakes.

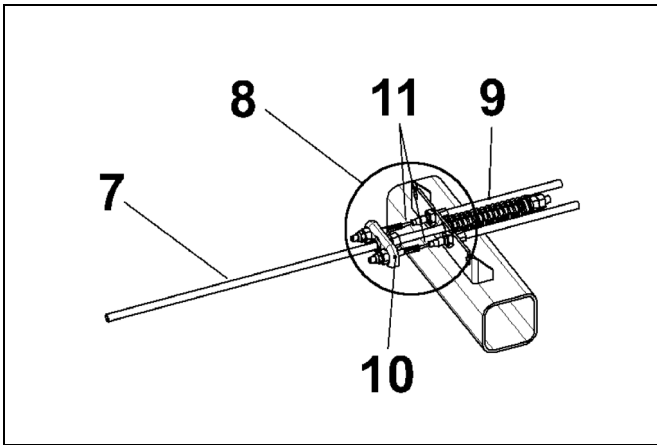
Always rotate the wheel in the direction of forward movement.

Ensure that an M10 safety screw is fitted to the handbrake pivot.

The brake actuators must not be pre-tensioned - if necessary loosen the brake linkage [7] on the brake equalisation assembly [8].

Check that brake actuators and cables [11] operate smoothly.

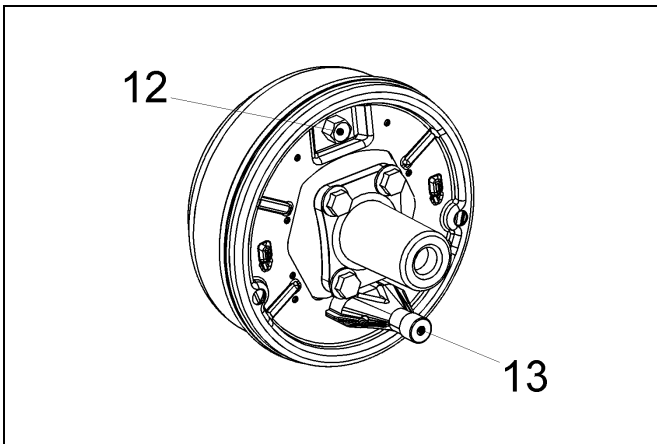




- 7. Brake linkage
- 8. Equalisation assembly
- 9. Compression spring
- 10. Equaliser plate
- 11. Cable

**CAUTION:** The compression spring [9] must only be lightly pre-tensioned and when operating must never touch the axle tube. Never adjust the brakes at the brake linkage [7].

**2. Brake Shoe Adjustment**



- 12. Adjusting screw
- 13. Cable entry

Width across flats of adjusting screw [12]

Brake size	Key width
160x35 / 200x50	SW 17
250x40	SW 19
300x60	SW 22

Tighten adjusting screw [12] clockwise until the wheel locks.

Loosen adjusting screw [12] anti-clockwise (approx. 1/2 turn) until the wheel can be moved freely.

Slight dragging noises that do not impede the free movement of the wheel are permissible.

*This adjustment procedure must be carried out as described on both wheel brakes.*

When the brake has been adjusted accurately the actuating distance is approximately 5-8mm on the cable [11]

**3. Compensator assembly adjustment**

Variable Height model

Fit an M10 safety screw to the handbrake pivot.

Disconnect the handbrake cable [5] at one end.

Pre-adjust brake linkage [7] lengthways (a little play is permissible) and re-insert the cable [5], adjusting it to give a small amount of play.

Remove the M10 safety screw from the handbrake pivot.

All Models

Engage the handbrake lever [1] and check that the position of the equaliser plate [10] is at right angles to the pulling direction. If necessary correct the position of the equaliser plate [10] on the cables [11].

The compression spring [9] must only be slightly pre-tensioned and when engaged must not touch the axle tube.

**4. Brake linkage adjustment**

Adjust the brake linkage [7] lengthways without pre-tension and without play in the transmission lever [4].

**Readjustment**

Engage the handbrake lever [1] forcefully a number of times to set the brake.

Check the alignment of the equalisation assembly [8], this should be at right angles to the pulling direction

Check the play in the brake linkage [7]

If necessary adjust the brake linkage [7] again without play and without pre-tensioning

There must still be a little play in cable [5] (Variable Height Only)

Check the position of the hand brake lever [1]. The start of resistance should be approximately 10-15mm above the horizontal position.

Check that the wheels move freely when the handbrake is disengaged.

**Final test**

Check the fastenings on the transmission system (cables, brake equalisation system and linkage).

Check the handbrake cable [5] for a small amount of play and adjust if necessary (Variable height only)

Check the compression spring [9] for pre-tensioning.

**Test run**

If necessary carry out 2-3 test brake actions.

**Test brake action**

Check the play in brake linkage [7] and if necessary adjust the length of brake linkage [7] until there is no play.

Apply the handbrake while rolling the machine forward, travel of the handbrake lever up to 2/3 of maximum is allowed.

**Re-adjusting the overrun braking system (KNOTT Running Gear)**

Re-adjustment of the wheel brakes will compensate for brake lining wear. Follow the procedure described in 2: Brake Shoe Adjustment.

Check the play in the brake linkage [7] and re-adjust if necessary.

**Important**

Check the brake actuators and cables [11]. The brake actuators must not be pre-tensioned.

Excessive operation of the handbrake lever, which may have been caused by worn brake linings, must not be corrected by re-adjusting (shortening) the brake linkage [7]

# 16 MAINTENANCE

## Re-adjustment

The handbrake lever [1] should be engaged forcefully several times to set the braking system.

Check the setting of the brake equalisation assembly [8], which should be at right angles to the pulling direction.

Check the play in the brake linkage [7] again, ensuring that there is no play in the brake linkage and that it is adjusted without pre-tension

Check the position of the hand brake lever [1], cable [5] (with little play) and the compression spring [9] (only slight pre-tension). The start of resistance of the handbrake lever should be approximately 10-15mm above the horizontal position.

## Final test

Check the fastenings on the transmission system (cables, brake equalisation system and linkage)










Apply the handbrake while rolling the machine forward, travel of the handbrake lever up to 2/3 of maximum is allowed.

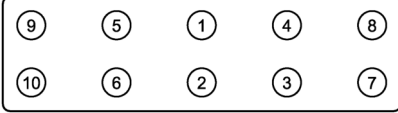
Check the handbrake cable [5] for a small amount of play and adjust if necessary (Variable height only)

Check the compression spring [9] for slight pre-tensioning.

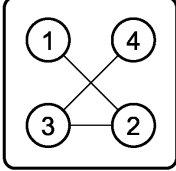
**CAUTION:** Check the wheel nut torque 20 miles (30 kilometres) after refitting the wheels (Refer to the TORQUE SETTING TABLE later in this section).

## TORQUE SETTING TABLE

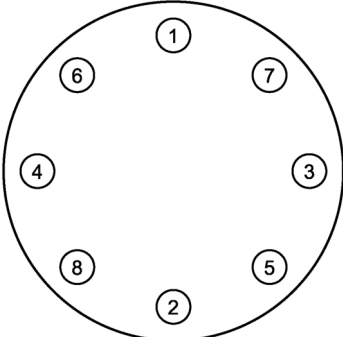
METRIC FASTENERS						
CAPSCREW OR NUT THREAD SIZE AND PITCH	NOMINAL DESIGN TORQUE					
	PROPERTY GRADE 8.8 (HEAD MARKING)		PROPERTY GRADE 10.9 (HEAD MARKING)		PROPERTY GRADE 12.9 (HEAD MARKING)	
						
						
						
	(Nm.)	(FT-LBF)	(Nm.)	(FT-LBF)	(Nm.)	(FT-LBF)
M6 X 1.0	11	8	15	11	18	13
M8 X 1.25	26	19	36	27	43	31
M10 X 1.5	52	38	72	53	84	62
M12 X 1.75	91	67	126	93	147	109
M14 X 2	145	107	200	148	234	173
M16 X 2	226	166	313	231	365	270
M20 X 2.5	441	325	610	450	713	526



TYPICAL RECTANGULAR TORQUE PATTERN

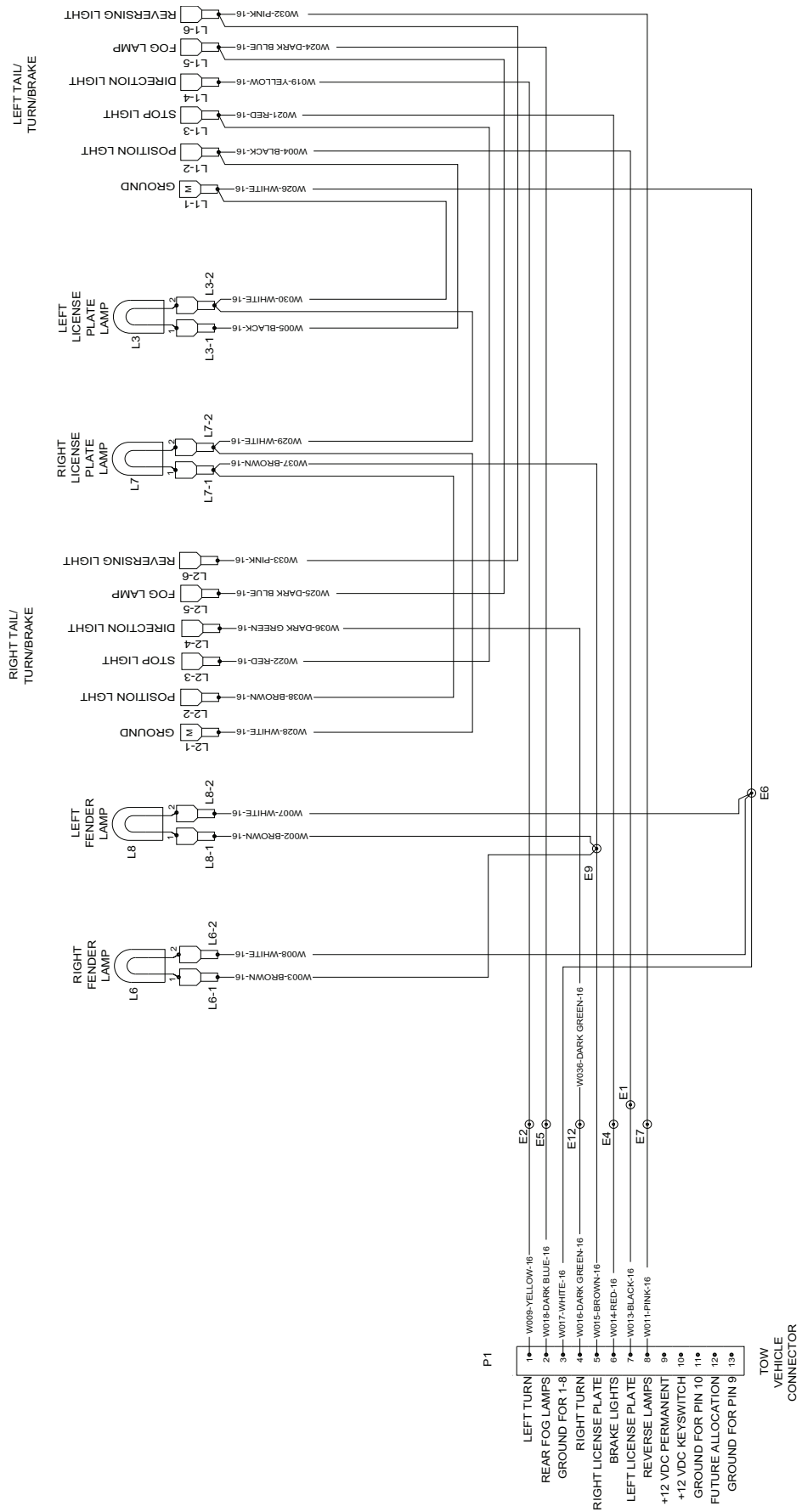


TYPICAL SQUARE TORQUE PATTERN



TYPICAL CIRCULAR TORQUE PATTERN





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**KEY**

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<b>L1</b>	Left Tail/Turn/Brake
<b>L2</b>	Right Tail/Turn/Brake
<b>L3</b>	Left License Plate Lamp
<b>L6</b>	Right Fender Lamp
<b>L7</b>	Right License Plate Lamp
<b>L8</b>	Left Fender Lamp
<b>P1</b>	Tow Vehicle Connector

## GENERAL

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This publication, which contains an illustrated parts breakdown, has been prepared as an aid in locating those parts which may be required in the maintenance of the unit. All of the compressor parts, listed in the parts breakdown, are manufactured with the same precision as the original equipment. For the greatest protection always insist on genuine Bobcat parts for your compressor.

### NOTICE

Bobcat can bear no responsibility for injury or damages resulting directly from the use of non-approved repair parts.

Bobcat service facilities and parts are available worldwide.

There are Authorised Distributors or Company Sales offices in principal cities of many countries.

Special order parts may not be included in the manual. Contact Bobcat Parts Department with the unit serial number for assistance with these special parts.

## DESCRIPTION

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The illustrated parts breakdown illustrates and lists the various assemblies, sub-assemblies and detailed parts which make up this particular machine. This covers the standard models and the more popular options that are available.

A series of illustrations show each part distinctly and in location relative to the other parts in the assembly. The part number, the description of the part and the quantity of parts required are shown on each illustration or on adjacent page. The quantities specified are the number of parts used per one assembly and are not necessarily the total number of parts used in the machine. Where no quantity is specified the quantity is assumed to be one.

Each description of a part is based upon the "noun first" method, i.e., the identifying noun or item name is always the first part of the description. The noun name is generally followed by a single descriptive modifier. The descriptive modifier may be followed by words or abbreviations such as upper, lower, inner, outer, front, rear, RH, LH, etc. when they are essential.

In referring to the rear, the front or to either side of the unit, always consider the **drawbar end** of the unit as the **front**. Standing at the rear of the unit facing the drawbar (front) will determine the right and left sides.

## FASTENERS

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Both SAE/inch, ISO/metric hardware have been used in the design and assembly of these units. In the disassembly and reassembly of parts, extreme care must be taken to avoid damaging threads by the use of wrong fasteners. In order to clarify the proper usage and for exact replacement parts, all standard fasteners have been identified by part number, size and description. This will enable a customer to obtain fasteners locally rather than ordering from the factory. These parts are identified in tables that will be found at the rear of the parts illustrations. Any fastener that has not been identified by both part number and size is a specially engineered part that must be ordered by part number to obtain the exact replacement part.

## MARKINGS AND DECALS

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### NOTICE

**Do not paint over safety warnings or instructional decals. If safety warning decals become illegible, immediately order replacements from the factory.**

**Part numbers for original individual decals and their mounting locations are shown within Parts List Section. These are available as long as a particular model is in production.**

## HOW TO USE PARTS LIST

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- a. Turn to Parts List.
- b. Locate the area or system of the compressor in which the desired part is used and find illustration page number.
- c. Locate the desired part on the illustration by visual identification and make note of part number and description.

## HOW TO ORDER

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The satisfactory ordering of parts by a purchaser is greatly dependent upon the proper use of all available information. By supplying your nearest sales office, autonomous company or authorised distributor, with complete information, you will enable them to fill your order correctly and to avoid any unnecessary delays.

In order that all avoidable errors may be eliminated, the following instructions are offered as a guide to the purchaser when ordering replacement parts:

- a. Always specify the model number of the unit as shown on the general data decal attached to the unit.
- b. Always specify the serial number of the unit. **THIS IS IMPORTANT.** The serial number of the unit will be found stamped on a plate attached to the unit. (The serial number on the unit is also permanently stamped in the metal of the frame side rail.)
- c. Always specify the number of the parts list publication.
- d. Always specify the quantity of parts required.
- e. Always specify the part number, as well as the description of the part, or parts, exactly as it is given on the parts list illustration.

In the event parts are being returned to your nearest sales office, autonomous company or authorised distributor, for inspection or repair, it is important to include the serial number of the unit from which the parts were removed.

## **TERMS AND CONDITIONS ON PARTS ORDERS**

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**Acceptance:** Acceptance of an offer is expressly limited to the exact terms contained herein. If purchaser's order form is used for acceptance of an offer, it is expressly understood and agreed that the terms and conditions of such order form shall not apply unless expressly agreed to by Bobcat Company ("Company") in writing. No additional or contrary terms will be binding upon the Company unless expressly agreed to in writing.

**Taxes:** Any tax or other governmental charge now or hereafter levied upon the production, sale, use or shipment of material and equipment ordered or sold is not included in the Company's price and will be charged to and paid for by the Purchaser.

Shipping dates shall be extended for delays due to acts of God, acts of Purchaser, acts of Government, fires, floods, strikes, riot, war, embargo, transportation shortages, delay or default on the part of the Company's vendors, or any other cause beyond the Company's reasonable control.

Should Purchaser request special shipping instruction, such as exclusive use of shipping facilities, including air freight when common carrier has been quoted and before change order to purchase order can be received by the Company, the additional charges will be honoured by the Purchaser.

**Warranty:** The Company warrants that parts manufactured by it will be as specified and will be free from defects in materials and workmanship. The Company's liability under this warranty shall be limited to the repair or replacement of any part which was defective at the time of shipment provided Purchaser notifies the Company of any such defect promptly upon discovery, but in no event later than three (3) months from the date of shipment of such part by the Company. The only exception to the previous statement is the extended warranty as it applies to the special airend exchange program.

Repairs and replacements shall be made by the Company F.O.B. point of shipment. The Company shall not be responsible for costs of transportation, removal or installation.

Warranties applicable to material and equipment supplied by the Company but wholly manufactured by others shall be limited to the warranties extended to the Company by the manufacturer which are able to be conveyed to the Purchaser.

**Delivery:** Shipping dates are approximate. The Company will use best efforts to ship by the dates specified; however, the Company shall not be liable for any delay or failure in the estimated delivery or shipment of material and equipment or for any damages suffered by reason thereof.

The company makes no other warranty or representation of any kind whatsoever, expressed or implied, except that of title, and all implied warranties, including any warranty of merchantability and fitness for a particular purpose, are hereby disclaimed.

### **Limitation of Liability:**

The remedies of the Purchaser set forth herein are exclusive, and the total liability of the Company with respect to this order whether based on contract, warranty, negligence, indemnity, strict liability or otherwise, shall not exceed the purchase price of the part upon which such liability is based.

The Company shall in no event be liable to the Purchaser, any successors in interest or any beneficiary of this order for any consequential, incidental, indirect, special or punitive damages arising out of this order or any breach thereof, or any defect in, or failure of, or malfunction of the parts hereunder, whether based upon loss of use, lost profits or revenue, interest, lost goodwill, work stoppage, impairment of other goods, loss by reason of shutdown or non-operation, increased expenses of operation or claims of customers of Purchaser for service interruption whether or not such loss or damage is based on contract, warranty, negligence, indemnity, strict liability or otherwise.

## **AIREND EXCHANGE PROGRAM**

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Bobcat offers an airend exchange program to benefit portable compressor users.

Your nearest sales office, autonomous company or authorised distributor must first contact the Parts Service Department at the factory at which your portable air compressor was manufactured for further instructions.

For parts, service or information regarding your local distributor (Europe, Middle East, Africa) please contact:

Facility:

Website:

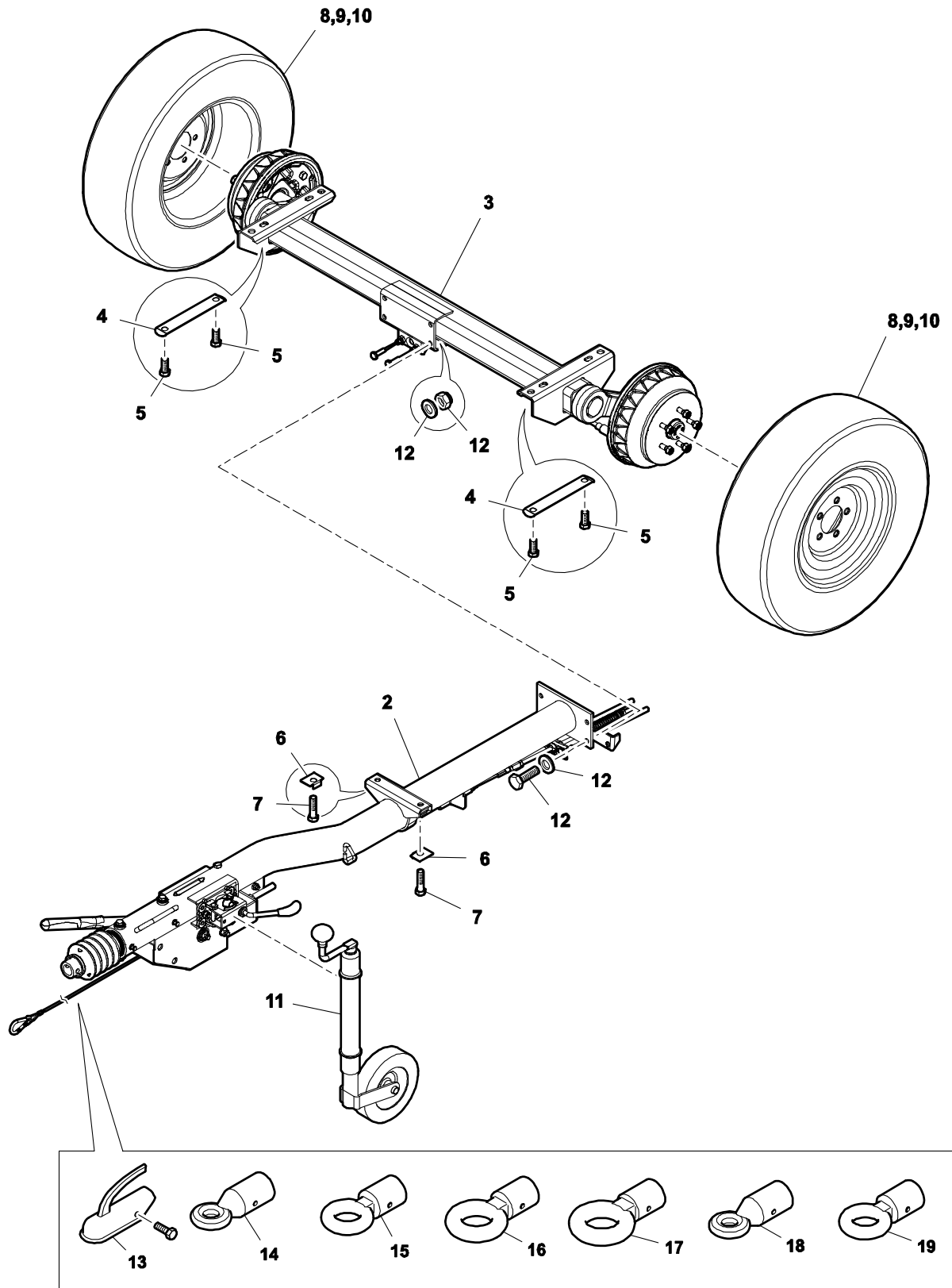
Doosan Bobcat EMEA s.r.o. (DBEM),

<https://www.bobcat.com/eu/>

U Kodetky 1810, 263 12 Dobris,

Czech Republic

**RUNNING GEAR ASSEMBLY  
(Fixed Height Braked)**



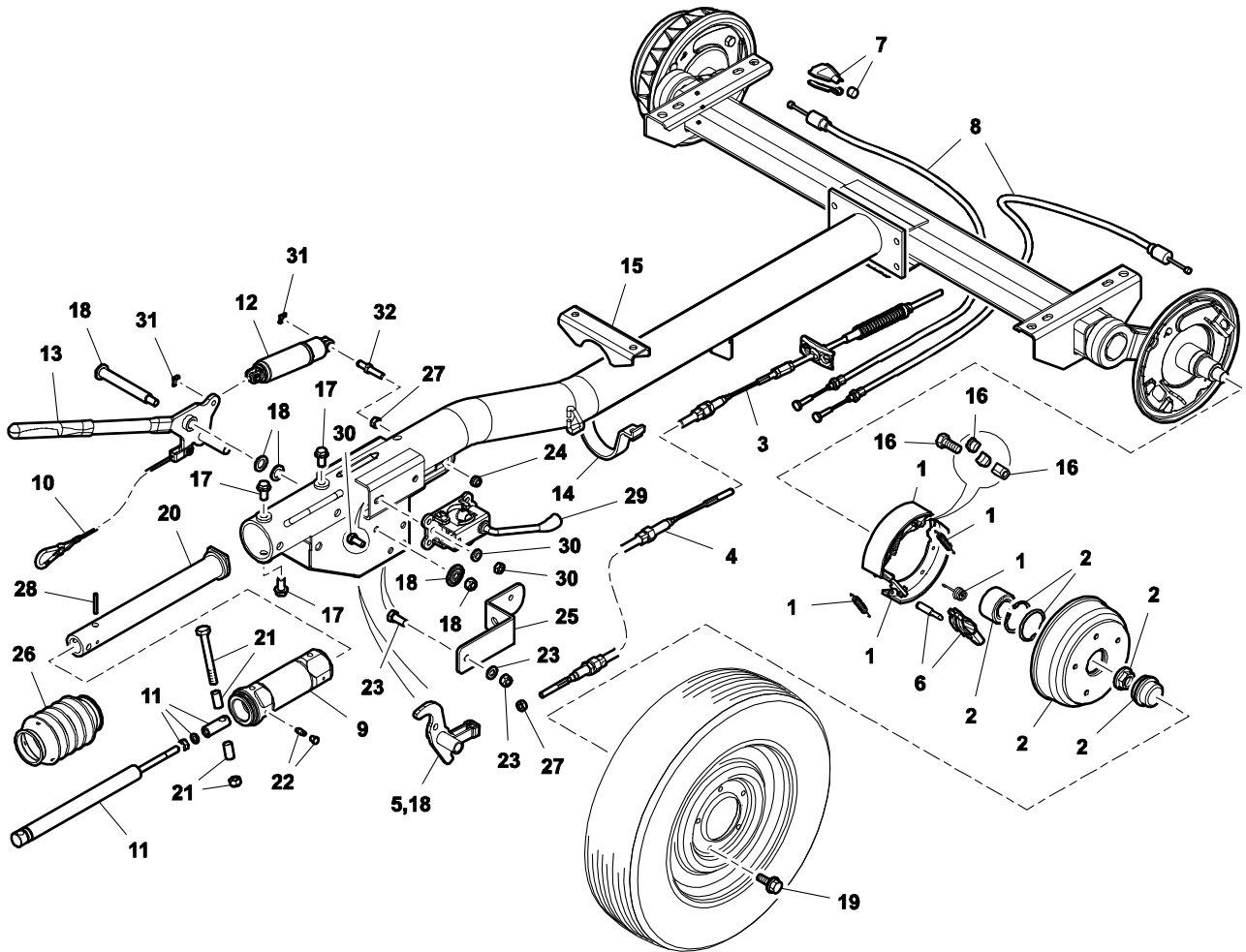
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**RUNNING GEAR ASSEMBLY  
(Fixed Height Braked)**

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46858834	RUNNING GEAR ASSEMBLY	W/Ref. 2-3 - (Fixed Height Braked)		1
2	22444368	DRAWBAR ASSEMBLY	(Fixed Height)		1
3	46859345	AXLE ASSEMBLY	(Braked)		1
4	54772652	WASHER			2
5	46517603	SCREW	(M12 x 30)		4
6	54762901	WASHER			2
7	46551058	SCREW	(M12 x 50)		2
8	46873580	WHEEL AND TYRE ASSEMBLY	W/Ref.9-10		2
9	46873581	WHEEL			1
10	22125595	TYRE	(185R14C 8PR)		1
11	22053763	JOCKEY WHEEL ASSEMBLY			1
12	46656685	KIT, CONNECTING			1
13	46569660	HITCH, BALL	(50 mm)		1
14	54774500	EYE, TOWING	(Ø 40 mm)		1
14	46569699	EYE, TOWING	(Ø 40 mm)		1
15	54774518	EYE, TOWING	(Ø 50 mm)		1
15	46569683	EYE, TOWING	(Ø 50 mm)		1
16	54774534	EYE, TOWING	(Ø 68 mm)		1
16	46569679	EYE, TOWING	(Ø 68 mm)		1
17	54774542	EYE, TOWING	(Ø 76 mm - including bolts)		1
18	54774492	EYE, TOWING	(Ø 28 mm)		1
19	46553655	EYE, TOWING	(Ø 45 mm)		1

**RUNNING GEAR  
(Fixed Height Braked)**

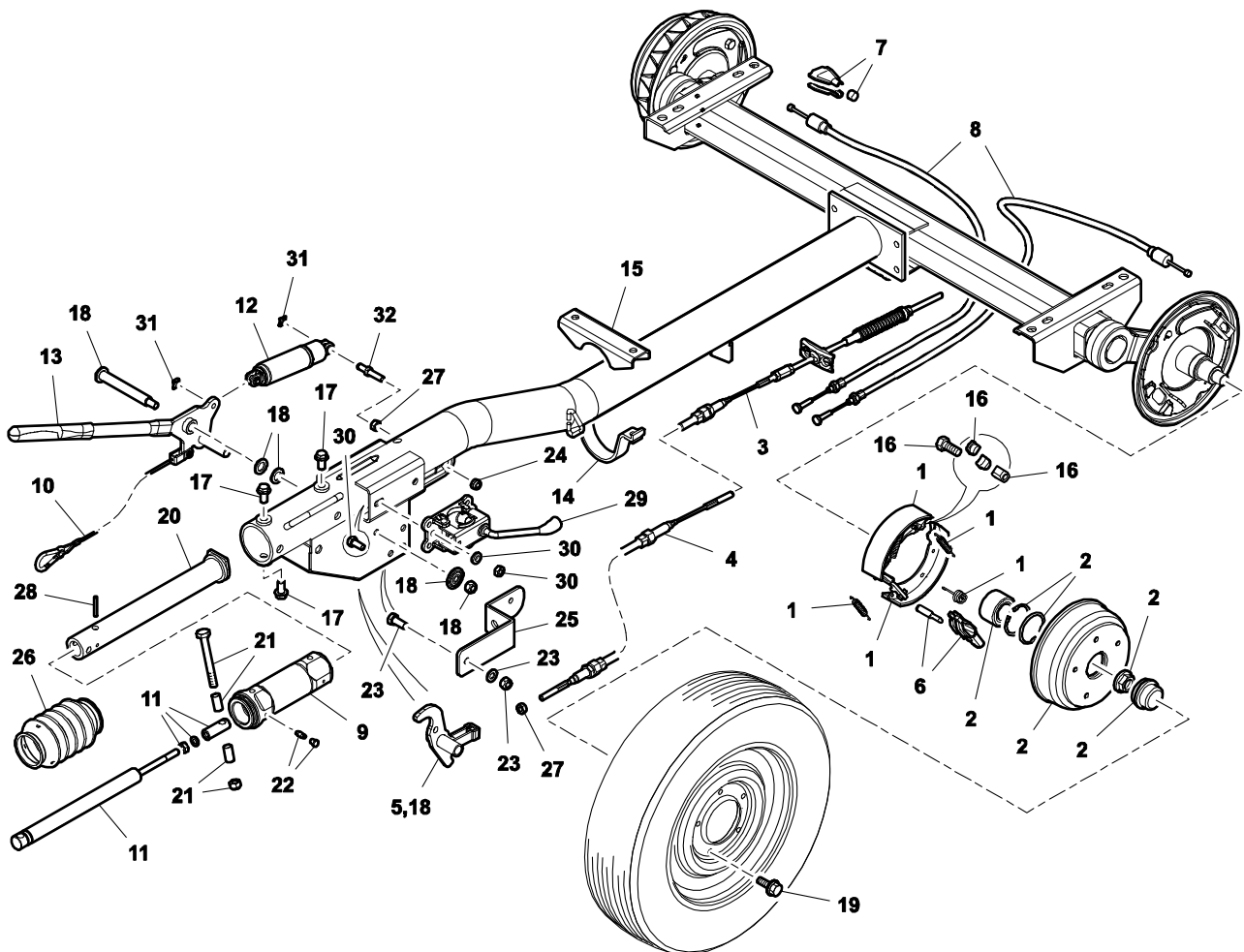


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**RUNNING GEAR  
(Fixed Height Braked)**

Item	Part Number	Description	Remarks	Serial Number	Qty
1	80024565	BRAKE SHOE PACK	(order one per machine)		1
2	46677013	DRUM ASSEMBLY COMPLETE	(order two per machine)		2
3	46656682	BRAKE ROD ASSEMBLY			1
4	18034124	CABLE			1
5	46676995	LEVER ASSEMBLY			1
6	80029218	KIT, EXPANDING KEY	(order one per machine)		1
7	46656681	CABLE COVER ASSEMBLY	(order two per machine)		2
8	46550964	CABLE			2
9	22241129	TUBE	(including grease nipple and cover)		1
10	22051841	CABLE			1
11	46550548	KIT, DAMPER			1
12	46517454	PISTON			1
13	46677015	HANDBRAKE LEVER ASSEMBLY	W/Ref. 10		1
14	46677007	CLAMP			1
15	22241442	CLAMP			1
16	46677016	KIT, ADJUSTER WEDGE	(order two per machine)		2
17	22241368	SCREW			4
18	46676996	KIT, LEVER COMPLETE			1
19	46678556	KIT, CONNECTING			1
20	22051411	SLIDER			1
21	46670267	KIT, CONNECTING			1
22	46551800	KIT, GREASE NIPPLE	(including cover)		2
23	46875883	KIT, CONNECTING			1
24	22392260	NUT	(M10)		1
25	46677017	BRACKET			1
26	22051510	COVER			1
27	22051577	NUT			2
28	22241517	PIN			1
29	22067003	CLAMP ASSEMBLY			1
30	80029069	KIT, CONNECTING			1
31	46517447	CLIP, RETAINING			2

### RUNNING GEAR (CONT'D) (Fixed Height Braked)

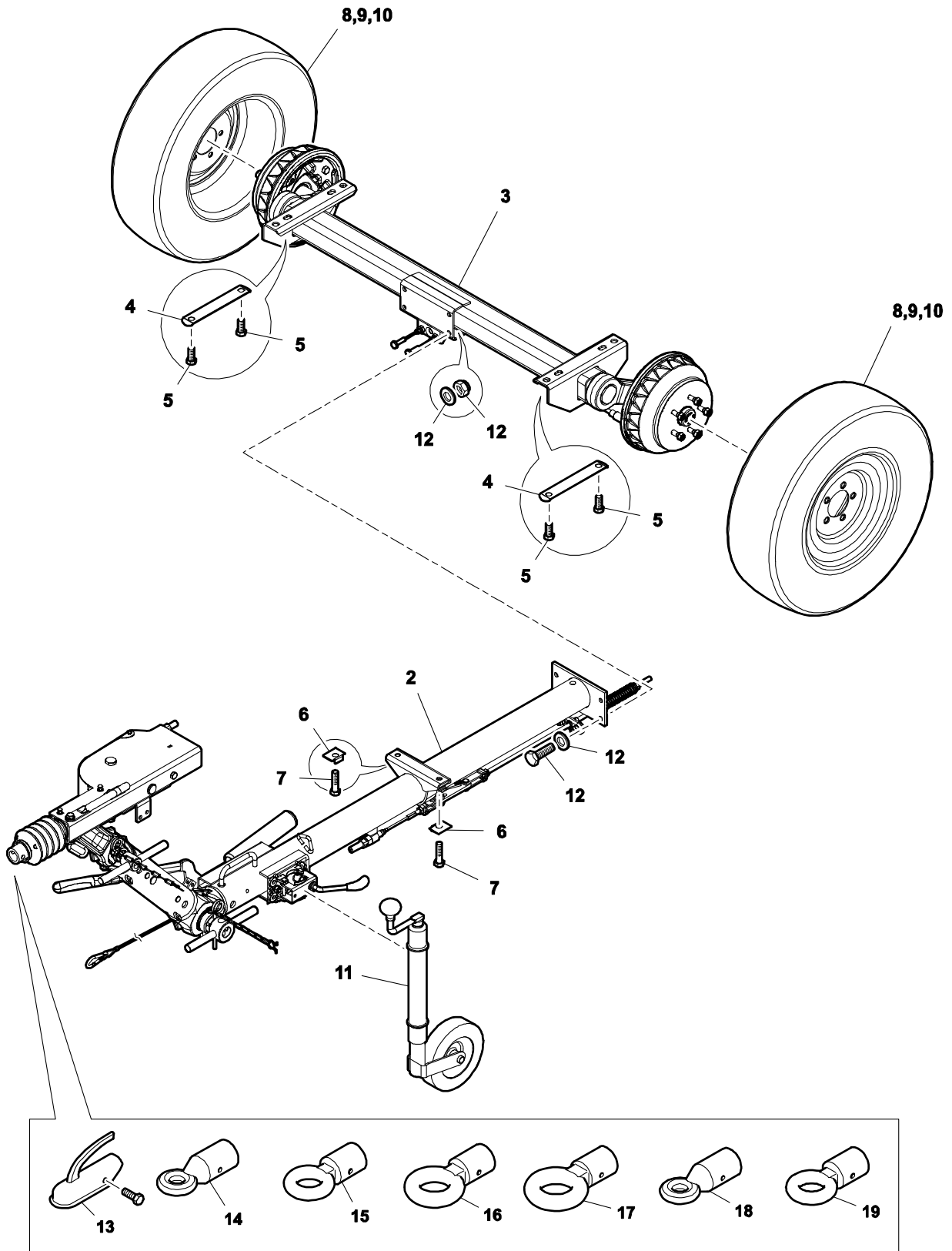


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**RUNNING GEAR (CONT'D)**  
**(Fixed Height Braked)**

Item	Part Number	Description	Remarks	Serial Number	Qty
32	46677018	PIN			1

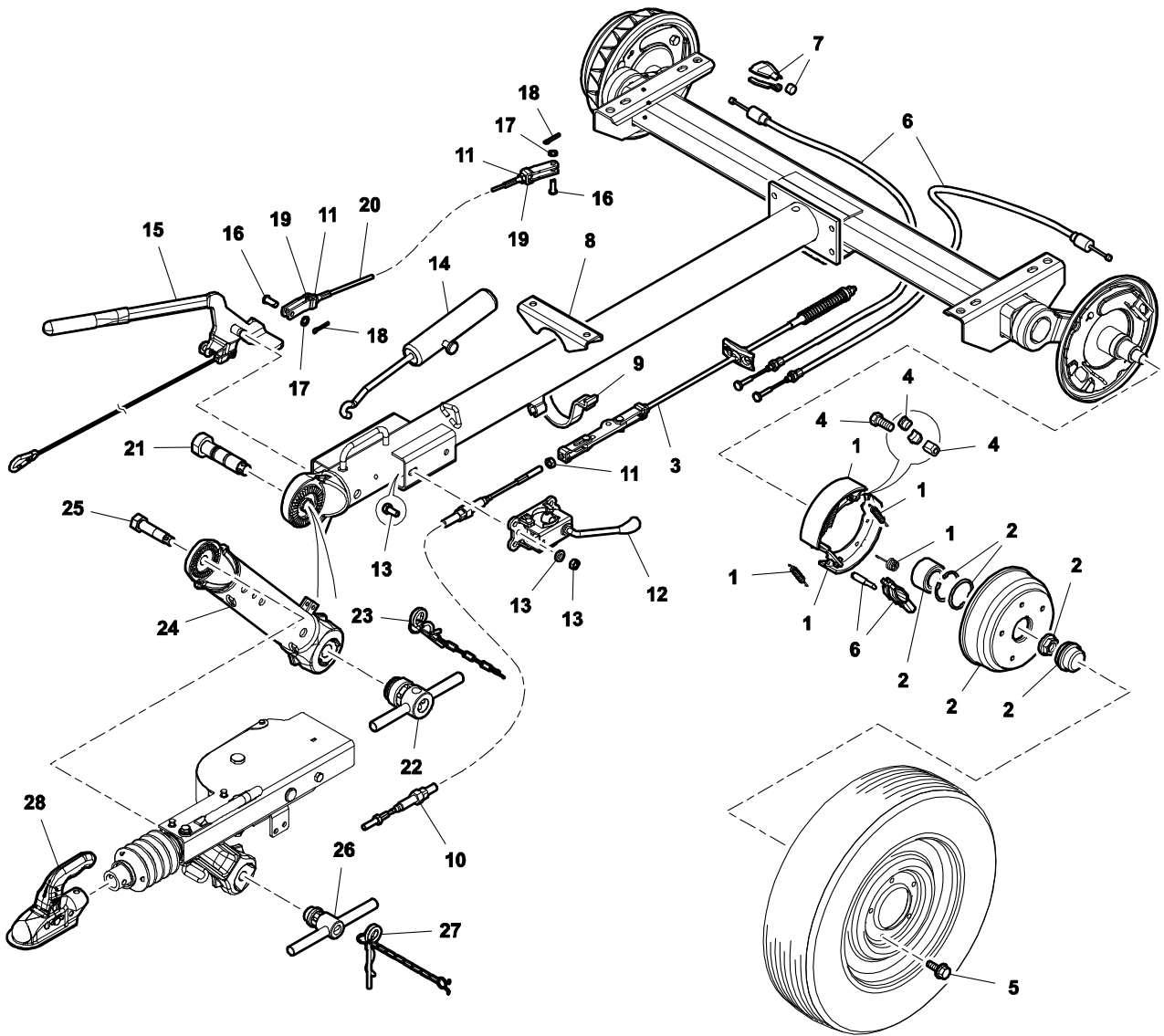
**RUNNING GEAR ASSEMBLY  
(Variable Height Braked)**



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<p align="center"><b>RUNNING GEAR ASSEMBLY (Variable Height Braked)</b></p>					
Item	Part Number	Description	Remarks	Serial Number	Qty
1	46858870	RUNNING GEAR ASSEMBLY	W/Ref. 2-3 - (Variable Height Braked)		1
2	22444350	DRAWBAR ASSEMBLY	(Variable Height)		1
3	46859345	AXLE ASSEMBLY	(Braked)		1
4	54772652	WASHER			2
5	46517603	SCREW	(M12 x 30)		4
6	54762901	WASHER			2
7	46551058	SCREW	(M12 x 50)		2
8	46873580	WHEEL AND TYRE ASSEMBLY	W/Ref. 9-10		2
9	46873581	WHEEL			1
10	22125595	TYRE	(185R14C 8PR)		1
11	22053763	JOCKEY WHEEL ASSEMBLY			1
12	46656685	KIT, CONNECTING			1
13	46569660	HITCH, BALL	(50 mm)		1
14	54774500	EYE, TOWING	(Ø 40 mm)		1
14	46569699	EYE, TOWING	(Ø 40 mm)		1
15	54774518	EYE, TOWING	(Ø 50 mm)		1
15	46569683	EYE, TOWING	(Ø 50 mm)		1
16	54774534	EYE, TOWING	(Ø 68 mm)		1
16	46569679	EYE, TOWING	(Ø 68 mm)		1
17	54774542	EYE, TOWING	(Ø 76 mm - including bolts)		1
18	54774492	EYE, TOWING	(Ø 28 mm)		1
19	46553655	EYE, TOWING	(Ø 45 mm)		1

**RUNNING GEAR  
(Variable Height Braked)**



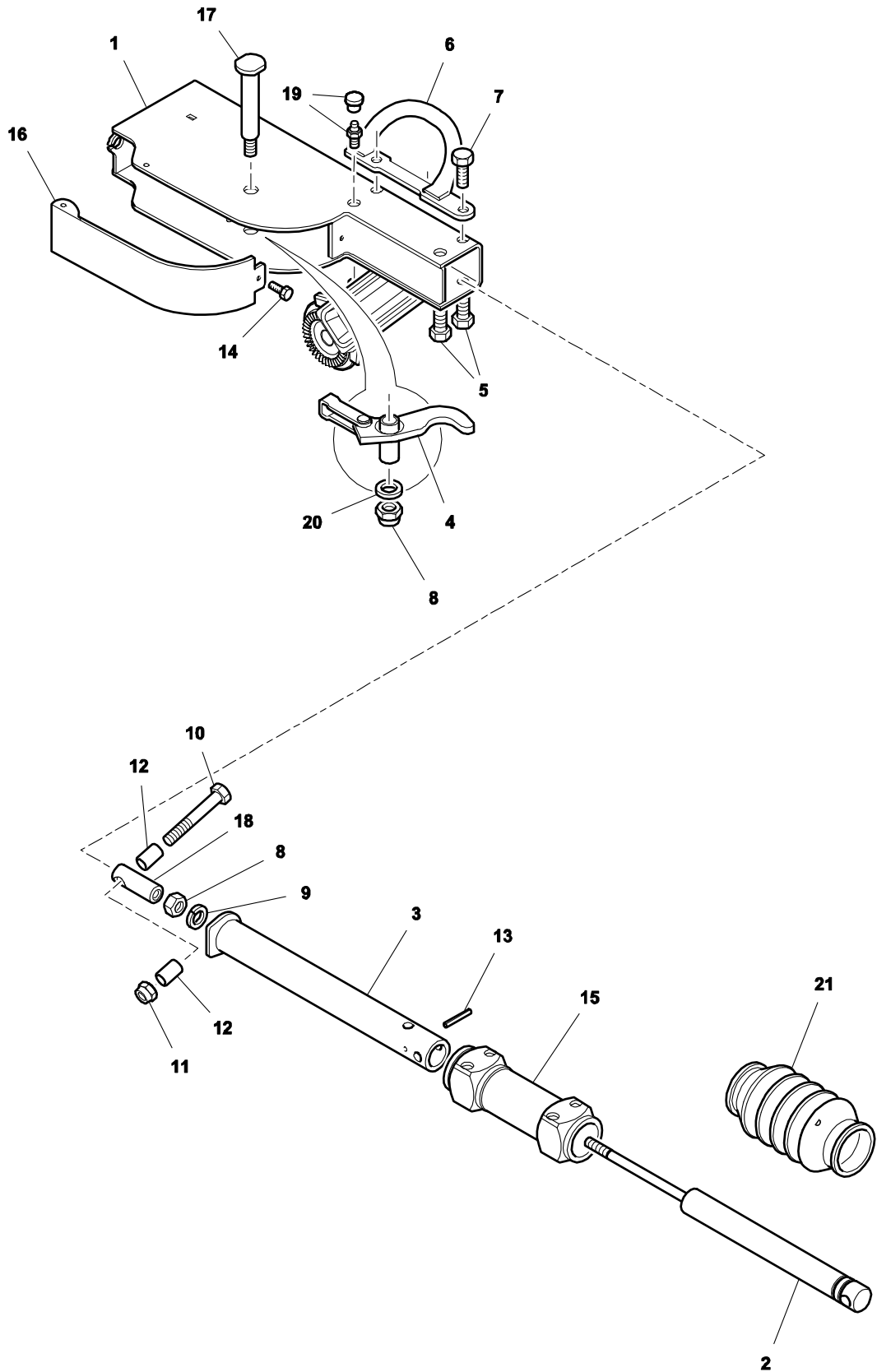
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**RUNNING GEAR  
(Variable Height Braked)**

Item	Part Number	Description	Remarks	Serial Number	Qty
1	80024565	BRAKE SHOE PACK	(order one per machine)		1
2	46677013	DRUM ASSEMBLY COMPLETE	(order two per machine)		2
3	46875884	BRAKE ROD ASSEMBLY			1
4	46677016	KIT, ADJUSTER WEDGE	(order two per machine)		2
5	46678556	KIT, CONNECTING			1
6	46550964	CABLE			2
7	46656681	CABLE COVER ASSEMBLY	(order two per machine)		2
8	22241442	CLAMP			1
9	46677007	CLAMP			1
10	46517439	CABLE			1
11	22051577	NUT			2
12	46656698	CLAMP			1
13	80029069	KIT, CONNECTING			1
14	22250765	SPRING			1
15	22066823	LEVER, HANDBRAKE			1
16	22241160	PIN			2
17	22241491	WASHER			2
18	22357693	PIN			2
19	22241483	CLEVIS			2
20	22241152	CABLE			1
21	22241178	BOLT			1
22	22051718	HANDLE			1
23	22051734	CLIP ASSEMBLY			1
24	46550607	LINK			1
25	22051700	BOLT			1
26	22051692	HANDLE			1
27	22051759	CLIP ASSEMBLY			1
28	46569660	HITCH, BALL	(optional) - (50 mm)		1

### RUNNING GEAR (Variable Height Braked) (Coupling Head Assembly)

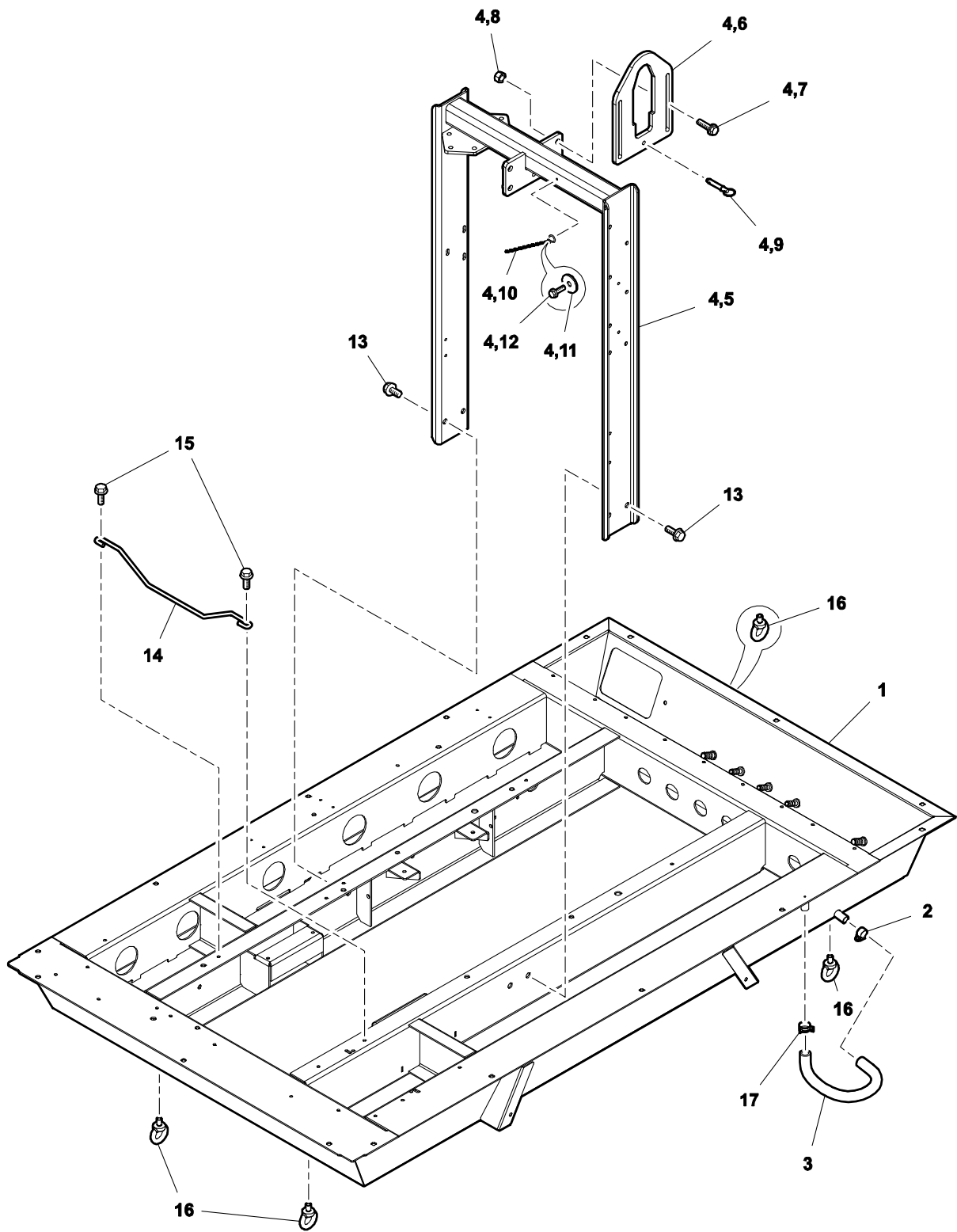


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<p><b>RUNNING GEAR</b>  <b>(Variable Height Braked)</b>  <b>(Coupling Head Assembly)</b></p>					
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Item	Part Number	Description	Remarks	Serial Number	Qty
1	22241079	HOUSING			1
2	22241475	ABSORBER, SHOCK			1
3	22051411	SLIDER			1
4	22066914	LEVER, TRANSMISSION			1
5	22241343	SCREW			4
6	22241434	HANDLE			1
7	22241350	BOLT			2
8	22051577	NUT			1
9	22051585	RING			1
10	22241541	BOLT			1
11	22051494	NUT			2
12	22051551	BUSH			2
13	22241517	PIN			1
14	22241533	SCREW			3
15	22250427	TUBE			1
16	22241046	COVER			1
17	22241053	BOLT			1
18	22051544	JOINT			1
19	46551800	KIT, GREASE NIPPLE	(including cover)		2
20	22104806	WASHER			1
21	22051510	COVER			1

## MAIN FRAME

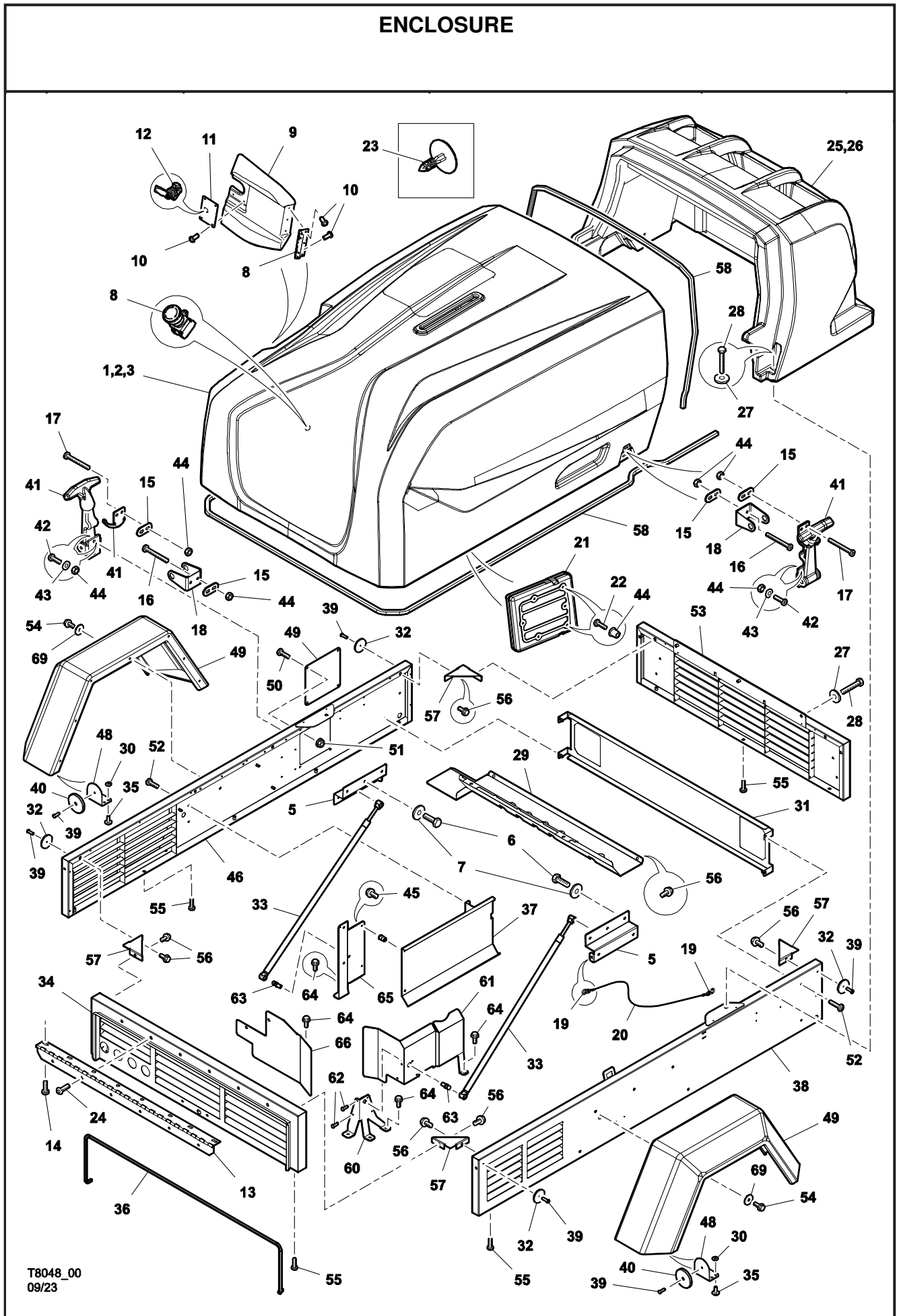


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**MAIN FRAME**

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46857277SZ	FRAME			1
2	95220844	CLAMP			1
3	46859990	HOSE	(0,34 m long)		1
4	46861700	LIFT BAIL ASSEMBLY	W/Ref. 5-12		1
5	46861698SZ	LIFT BAIL			1
6	46861699	EYE, LIFTING			1
7	96727664	SCREW	(M12 x 45)		4
8	96701743	NUT	(M12)		4
9	46654913	PIN			1
10	46678331	CHAIN			1
11	23076656	WASHER	(M6 x 25)		1
12	35300771	SCREW	(M6 x 20)		1
13	36879492	SCREW	(M12 x 25)		4
14	46702196SZ	ROD, HARNESS			1
15	35279025	SCREW	(M8 x 20)		2
16	46692700	EYEBOLT	(M12 x 20)		4
17	46502795	CLAMP			1
18	92949742	FOAM FIELD KIT (with adhesive)	1,9 m x 1,5 m x 25 mm (7' x 5' x 1")		1
19	92949767	FOAM FIELD KIT (with adhesive)	1,9 m x 1,5 m x 50 mm (7' x 5' x 2")		1
20	92949759	FOAM FIELD KIT (with adhesive)	0,95 m x 1,5 m x 25 mm (3' x 5' x 1")		1
21	92949775	FOAM FIELD KIT (with adhesive)	0,95 m x 1,5 m x 50 mm (3' x 5' x 2")		1
22	46592579	FOAM FIELD KIT (no adhesive)	1,9 m x 1,5 m x 50 mm (7' x 5' x 2")		1
23	46592580	FOAM FIELD KIT (no adhesive)	0,95 m x 1,5 m x 50 mm (3' x 5' x 2")		1

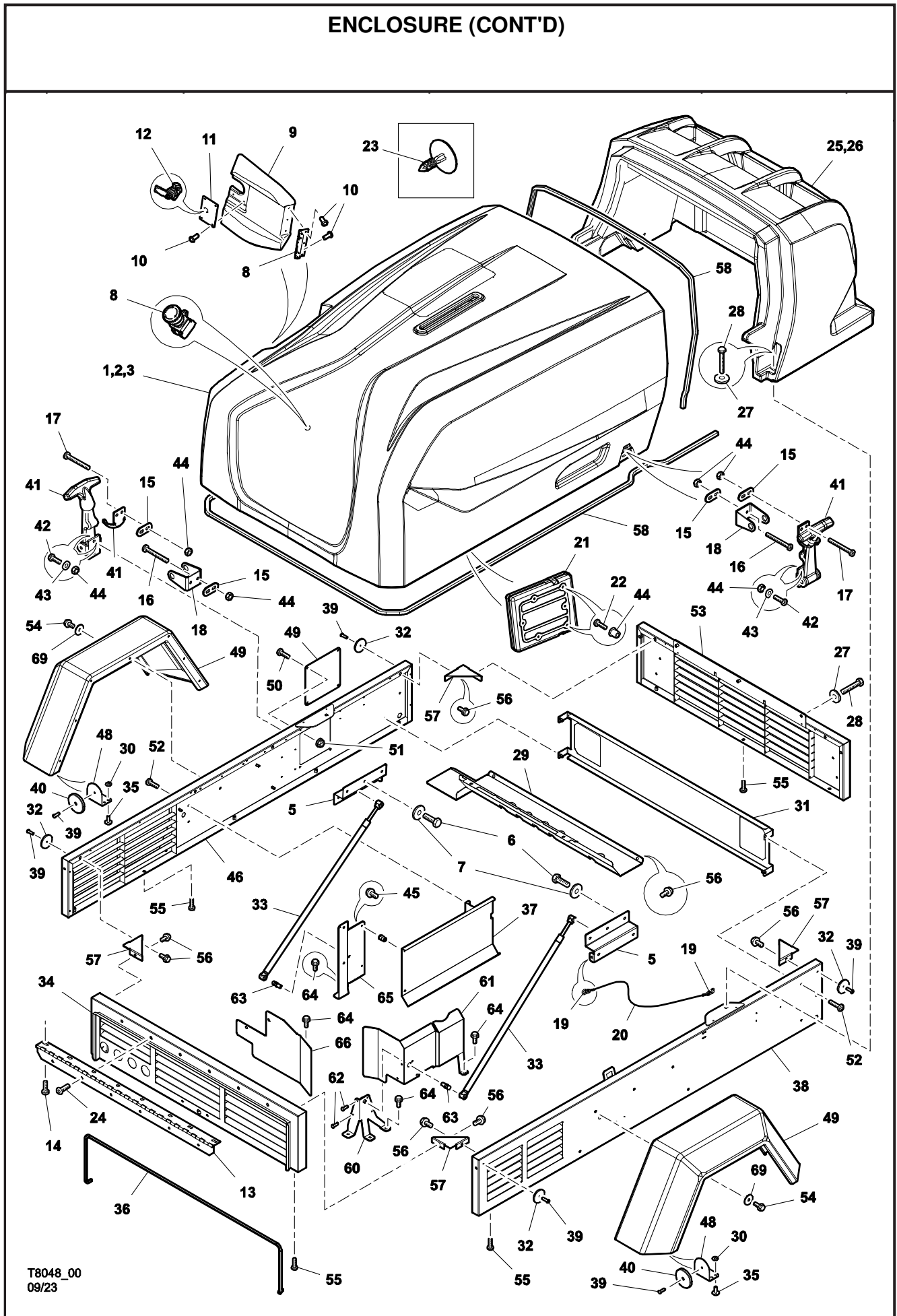
ENCLOSURE



## ENCLOSURE

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46870680	CANOPY, ASSEMBLY	W/Ref. 2-24		1
2	46857925	CANOPY, ASSEMBLY	W/Ref. 3-14		1
3	46857847	CANOPY			1
4	23182470	NUT	(M5)		4
5	46859141SZ	BRACKET, GAS SPRING MOUNT			2
6	96716105	SCREW	(M6 x 12)		10
7	96704663	WASHER	(M6)		10
8	46729105	HINGE			1
9	46863837	DOOR			1
10	54721220	RIVET			11
11	46736146GZ	PLATE, LATCH			1
12	46729107	LATCH			1
13	46702120	HINGE			1
14	46876106	SCREW			8
15	46706605ZR	PLATE			4
16	46876337	SCREW			4
17	46876338	SCREW			4
18	46730405GZ	BRACKET, T-HANDLE LOCK			2
19	46673139	HOOK, SNAP			2
20	46859169	CABLE			1
21	22990816	POUCH, LITERATURE			1
22	46876106	SCREW			6
23	46871242	RIVET			5
24	46859292	SCREW	(M8 x 20)		6
25	46870681	CANOPY, ASSEMBLY REAR	W/Ref. 26		1
26	46857848	CANOPY, REAR			1
27	23192651	WASHER	(M8)		5
28	92472109	SCREW	(M8 x 50)		5
29	46858619SZ	BAFFLE, REAR BOTTOM			1
30	92304583	WASHER	(M5)		4
31	46858620SZ	BAFFLE, BOTTOM			1

ENCLOSURE (CONT'D)



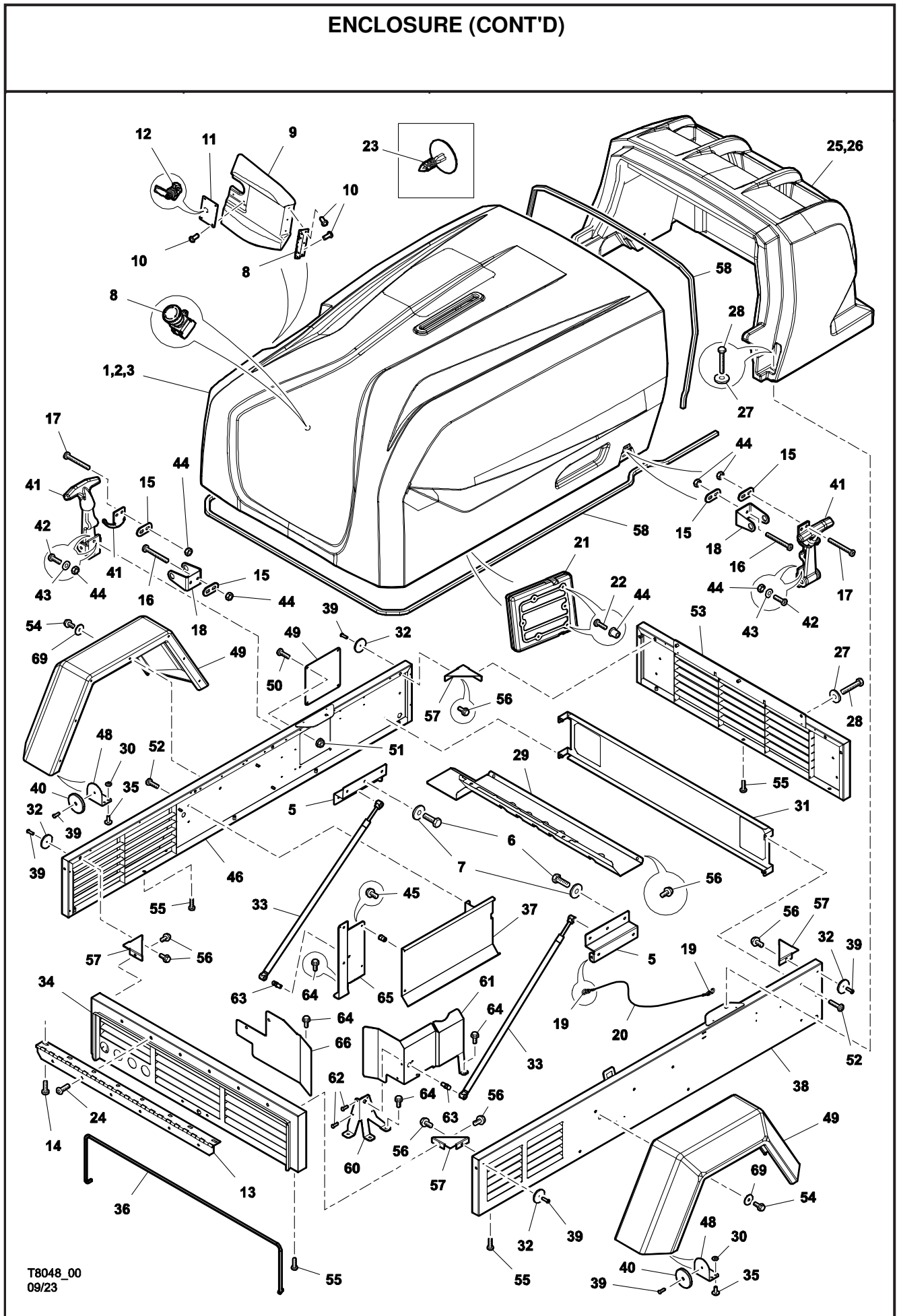
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## ENCLOSURE (CONT'D)

Item	Part Number	Description	Remarks	Serial Number	Qty
32	92121243	REFLECTOR, AMBER			4
33	46769886	STRUT, GAS SPRING			2
34	46857483SZ	PANEL			1
35	46560699	RIVET			4
36	22293419	SEAL, U-PROFILE	(1,73 m long)		1
37	46858903	BAFFLE			1
38	46857486SZ	PANEL			1
39	92271923	RIVET	3/16" x 5/8"		6
40	92085729	REFLECTOR, WHITE			2
41	46735167	LATCH			2
42	96743653	SCREW	(M4 x 12)		4
43	92340439	WASHER	(M4)		4
44	46541223	NUT	(M4)		12
45	92096015	SCREW	(M6 x 16)		2
46	46857484SZ	PANEL			1
48	46820706SZ	BRACKET			2
49	46860515SZ	COVER			1
49	92816974	MUDGUARD			2
50	46837954	SCREW	(M6 x 30)		4
51	96704176	NUT	(M6)		4
52	46672836	SCREW	(M6 x 20)		6
53	46857485SZ	PANEL, REAR			1
54	92096015	SCREW	(M6 x 16)		14
55	92101112	SCREW	(M8 x 25)		16
56	96704408	SCREW	(M8 x 20)		14
57	46857599SZ	BRACKET, CORNER			4
58	46868036	SEAL	(7,26 m long)		1
59	46838377	BUTTON, EMERGENCY STOP			1
60	46858946SZ	BRACKET, GAS SPRING	(LH)		1
61	46858945	BAFFLE			1
62	54721220	RIVET			4

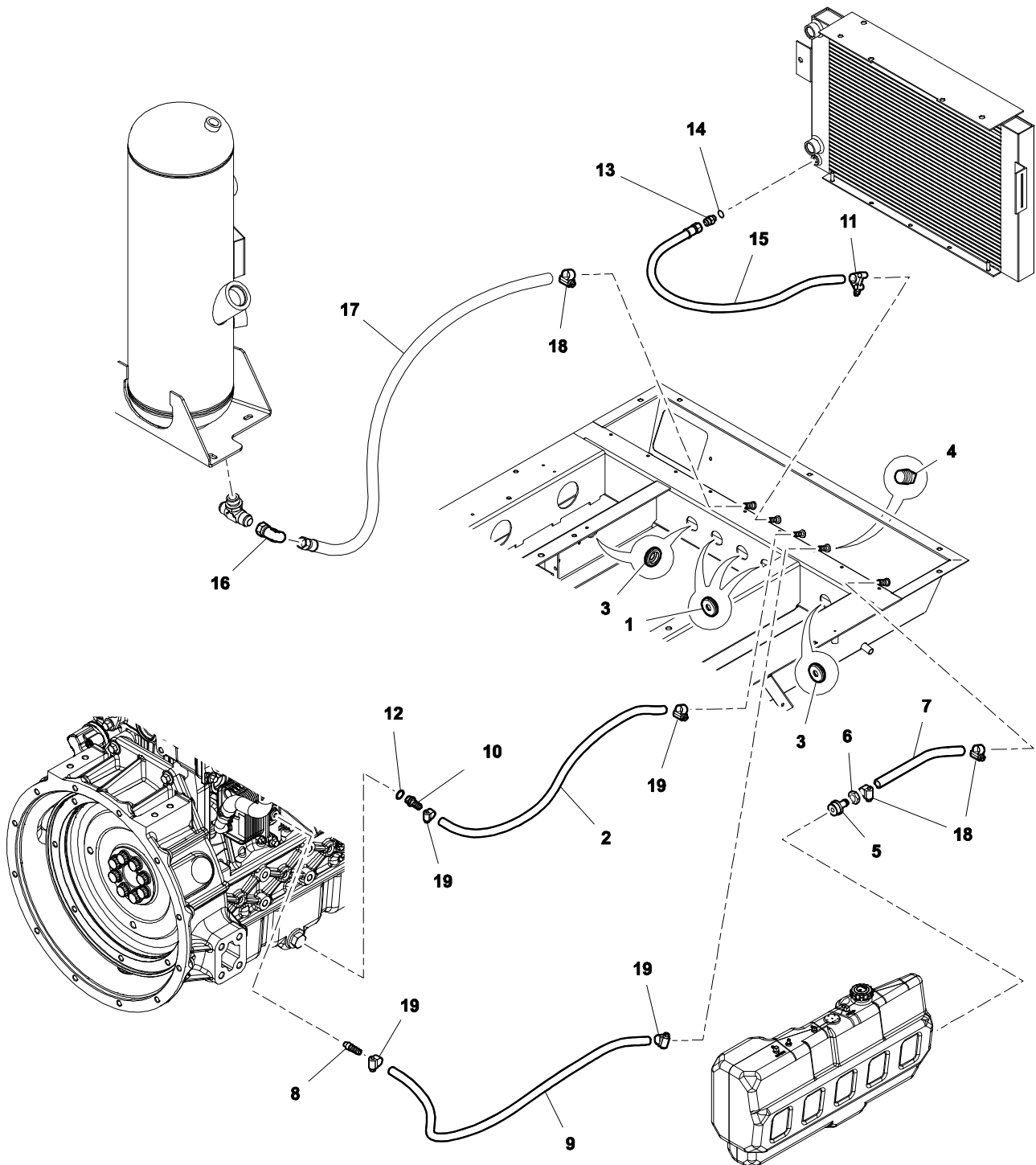
ENCLOSURE (CONT'D)



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ENCLOSURE (CONT'D)					
Item	Part Number	Description	Remarks	Serial Number	Qty
63	35337328	STUD, BALL	(M8)		2
64	35279025	SCREW	(M8 x 20)		6
65	46858947SZ	BRACKET, GAS SPRING	(RH)		1
66	46858942	BAFFLE			1
69	23076656	WASHER	(M6 x 25)		14

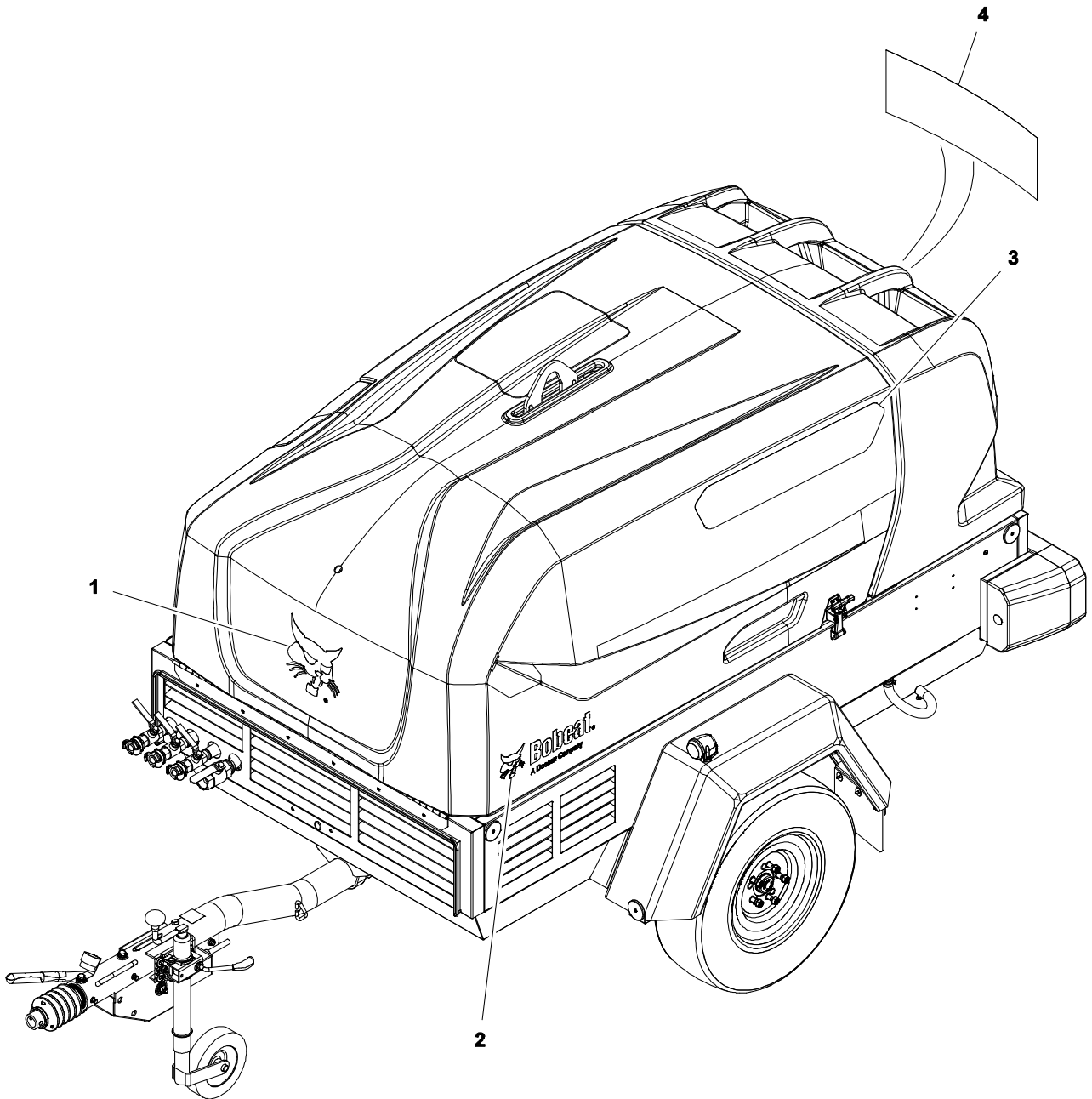
## CENTRAL DRAINS



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<b>CENTRAL DRAINS</b>					
Item	Part Number	Description	Remarks	Serial Number	Qty
1	46871337	GROMMET			3
2	46871776	HOSE	(1,1 m long)		1
3	46871338	GROMMET			3
4	92354661	PLUG	1/4" BSPT		5
5	46858102	ADAPTOR	W/Ref. 6		1
6	46700576	NUT	(M24 x 1.5)		1
7	46867937	HOSE	(0,35 m long)		1
8	46859014	CONNECTOR			1
9	46833149	HOSE	(1,4 m long)		1
10	46862698	CONNECTOR	W/Ref. 12		1
11	46866896	CLAMP			1
12	46862676	O-RING			1
13	35287895	CONNECTOR	W/Ref. 14 - 8 JIC - 9/16" - 18 UNF		1
14	35278571	O-RING			1
15	46863477	HOSE ASSEMBLY			1
16	35301506	ELBOW	12 JIC - 90 DEG		1
17	46863478	HOSE ASSEMBLY			1
18	23305279	CLAMP, T-BOLT			3
19	95264776	CLAMP			4

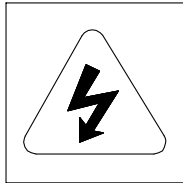
## DECALS AND DOCUMENTATION



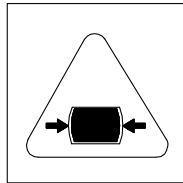
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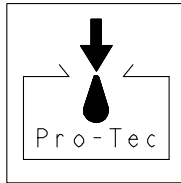
DECALS AND DOCUMENTATION



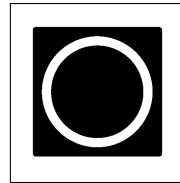
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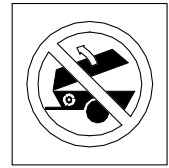
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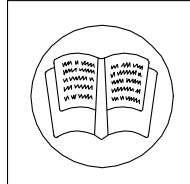
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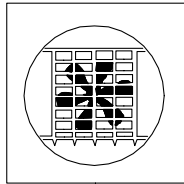
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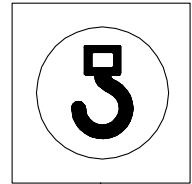
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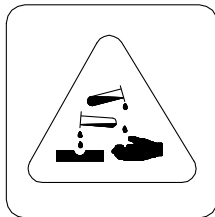
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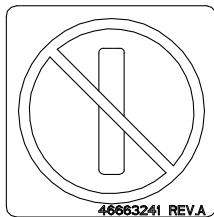
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11



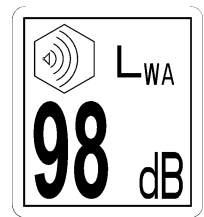
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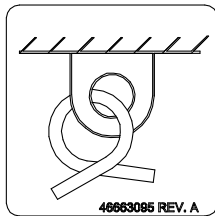
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14



15



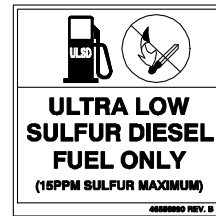
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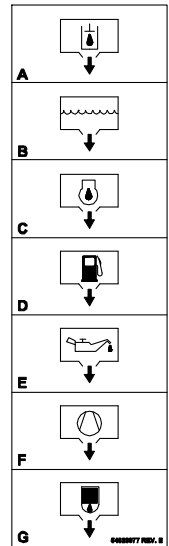
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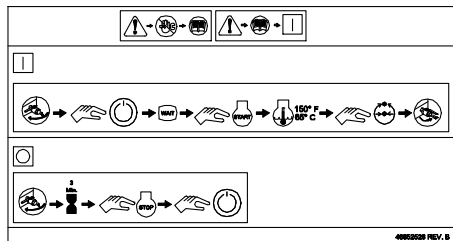
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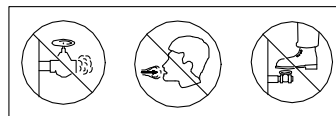
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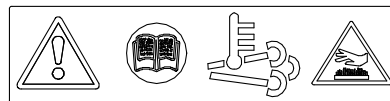
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20



21



22



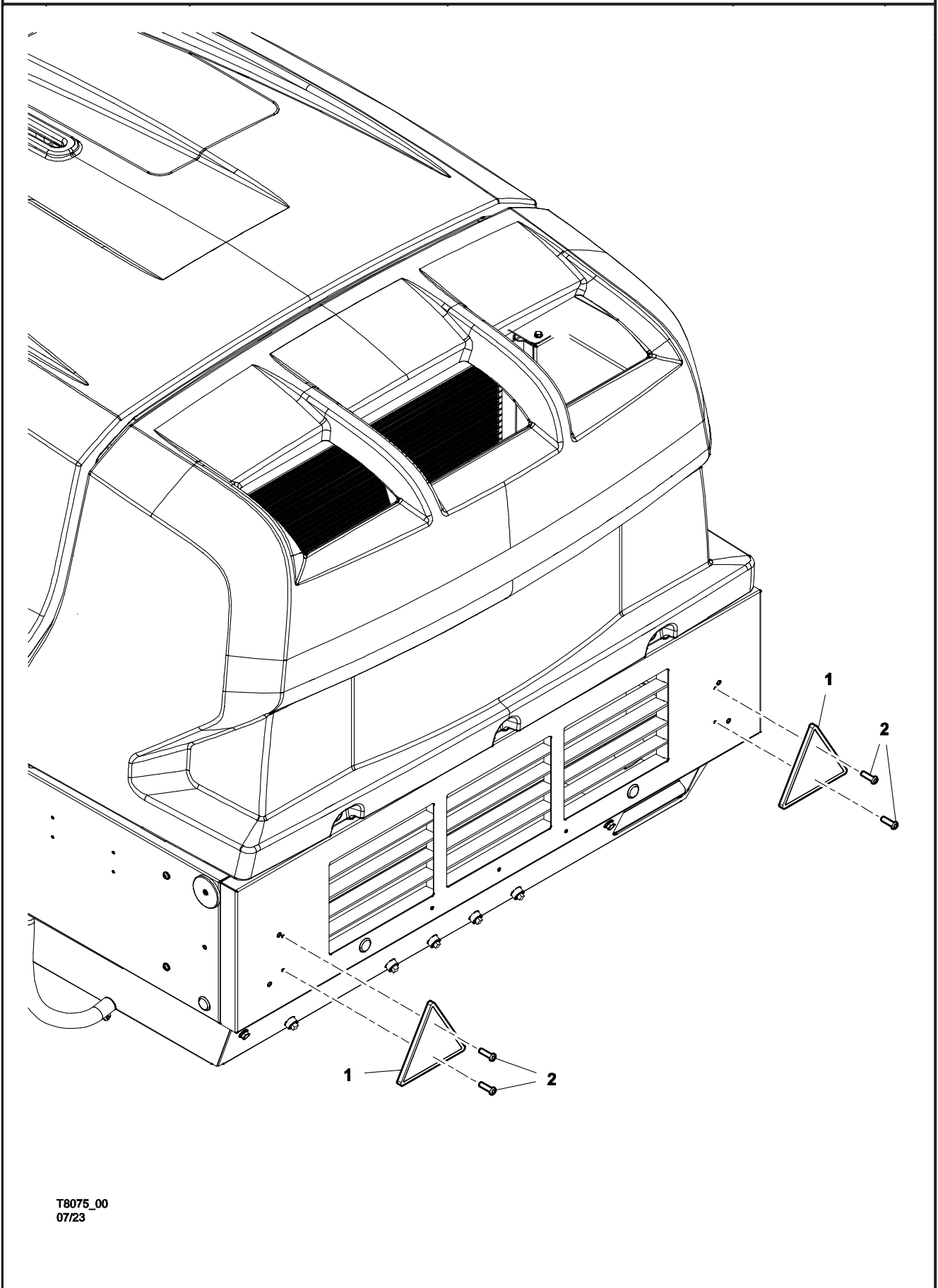
24



### DECALS AND DOCUMENTATION

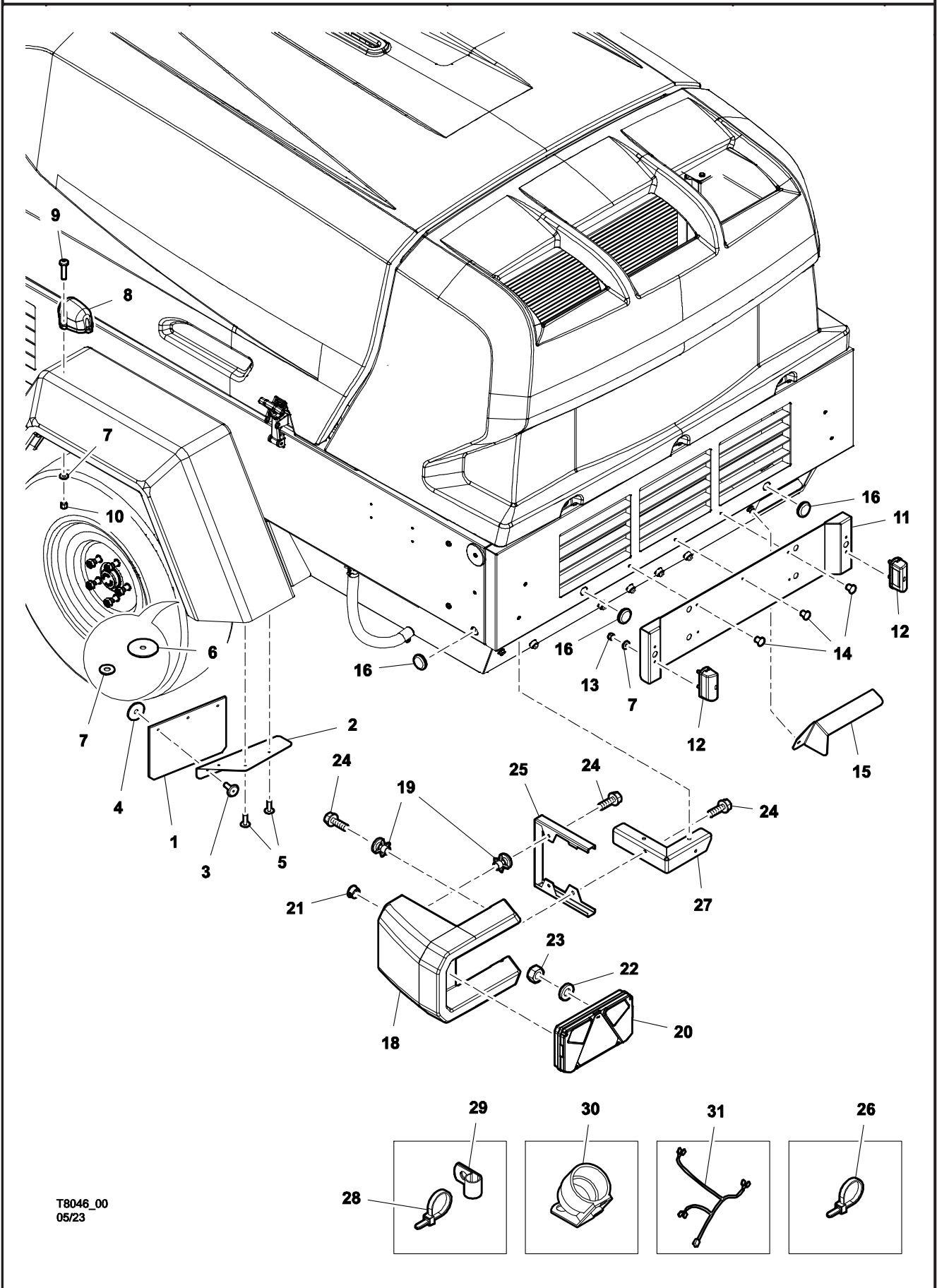
Item	Part Number	Description	Remarks	Serial Number	Qty
1	92930593	DECAL, ELECTRIC SHOCK			2
2	92930585	DECAL, PRESSURISED VESSEL			2
3	89298491	DECAL, PROTEC OIL			1
4	92930650	DECAL, EMERGENCY STOP			2
5	92867415	DECAL, CLOSE DOORS			1
6	92976042	DECAL, EXHAUST GAS DISCHARGE			1
7	92867449	DECAL, REFER TO HANDBOOK			6
8	93165959	DECAL, ROTATING FAN			4
9	92867530	DECAL, HOT SURFACE			2
10	93171262	DECAL, LIFT/TIE POINT			1
11	92930601	DECAL, CORROSIVE SUBSTANCE			1
12	46663242	DECAL, MAINTENANCE IN PROGRESS			1
13	46663241	DECAL, DO NOT START			1
14	46663244	DECAL, HEARING PROTECTION			1
15	22664494	DECAL, SOUND POWER	(98 dB)		2
16	46663095	DECAL, TIE DOWN			4
17	46553802	DECAL, DO NOT USE AS STEP			2
18	54568761	DECAL, ISO HOT PRESS			1
19	46556990	DECAL, ULTRA LOW SULFUR DIESEL FUEL			1
20	46652528	DECAL, OPERATING INSTRUCTIONS			1
21	93465383	DECAL, SERVICE VALVE			1
22	46595939	DECAL, EXHAUST GAS WARNING			1
23	54629977	DECAL, ISO CENTRAL DRAIN			1
24	46843476	DECAL, STAGE V			2

## OPTION - NO LIGHTS



OPTION - NO LIGHTS					
Item	Part Number	Description	Remarks	Serial Number	Qty
1	92721331	REFLECTOR, RED			2
2	92271923	RIVET	3/16" x 5/8"		4

OPTION - LED ROAD LIGHTS

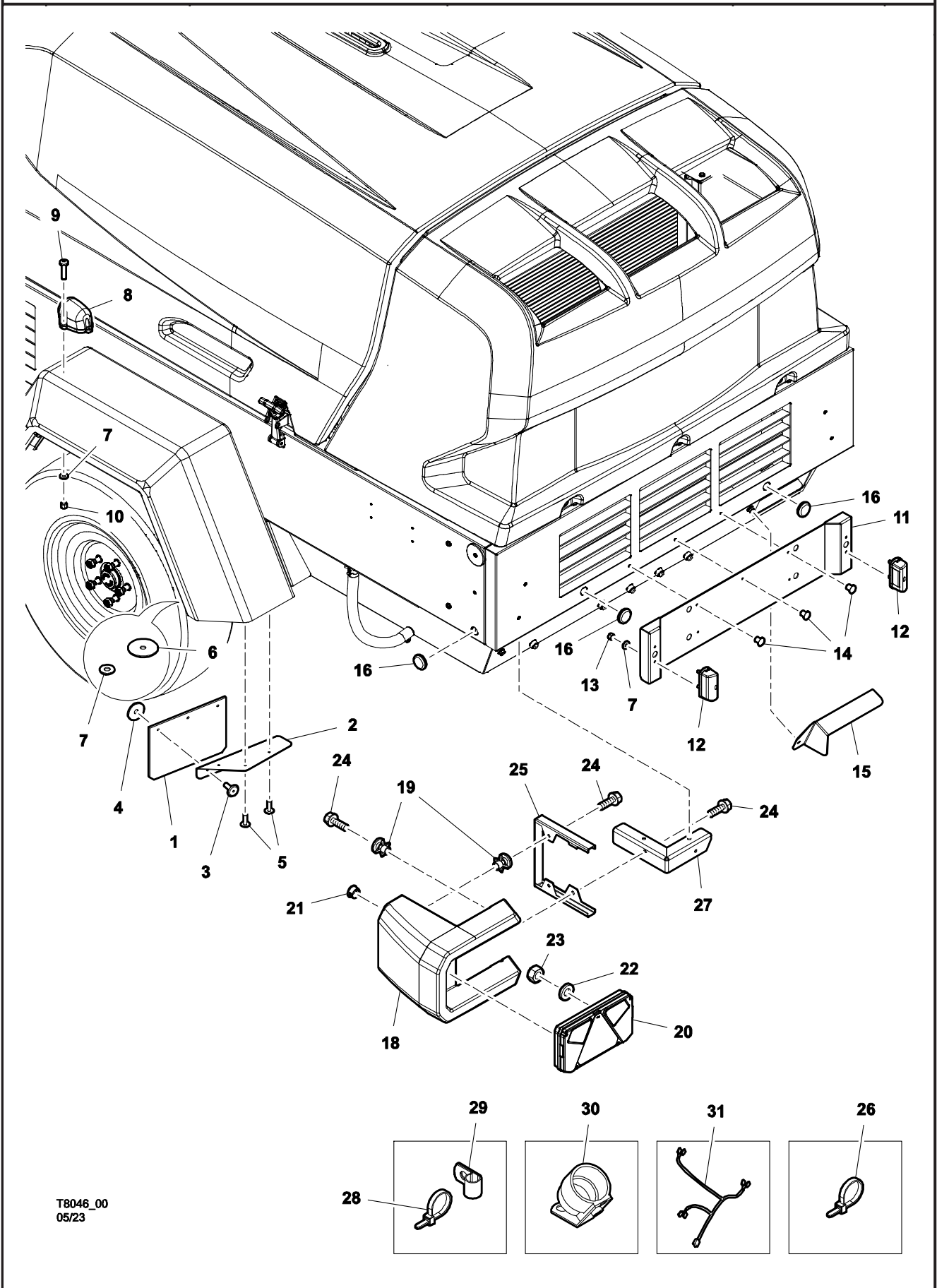


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### OPTION - LED ROAD LIGHTS

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46865696	FLAP, SPLASHGUARD			2
2	46862505SZ	BRACKET, FENDER EXTENSION	(LH)		1
2	46862504SZ	BRACKET, FENDER EXTENSION	(RH)		1
3	46560699	RIVET			6
4	23076656	WASHER	(M6 x 25)		6
5	22855258	RIVET			6
6	88111091	WASHER			4
7	92304583	WASHER	(M5)		12
8	46859571	LIGHT, POSITION FRONT			2
9	46733305	SCREW	(M5 x 25)		6
10	96704580	NUT	(M5)		6
11	46859285SZ	BRACKET, LICENCE PLATE			1
12	46859574	LIGHT, LICENCE PLATE ASSEMBLY			2
13	92304492	NUT	(M5)		4
14	36794816	RIVET			3
15	46862506SZ	SHIELD, HEAT			1
16	46830565	GROMMET			7
17	46827125	BUMPER CORNER ASSEMBLY	W/Ref. 18-19		2
18	46826606	BUMPER			1
19	46827345	NUT, JACK	(M6)		4
20	46859573	LAMP, REAR LED ASSEMBLY	(LH)		1
20	46859572	LAMP, REAR LED ASSEMBLY	(RH)		1
21	23102387	PLUG			2
22	96727581	WASHER	(M6)		4
23	96704234	NUT			4
24	36898096	SCREW	(M6 x 20)		12
25	46859127SZ	SPACER, REAR LIGHTS			2
26	92281427	TIE, CABLE			30
27	46862508SZ	BRACKET, LEFT BUMPER			1
27	46862507SZ	BRACKET, RIGHT BUMPER			1
28	46651840	TIE, CABLE			2

OPTION - LED ROAD LIGHTS (CONT'D)

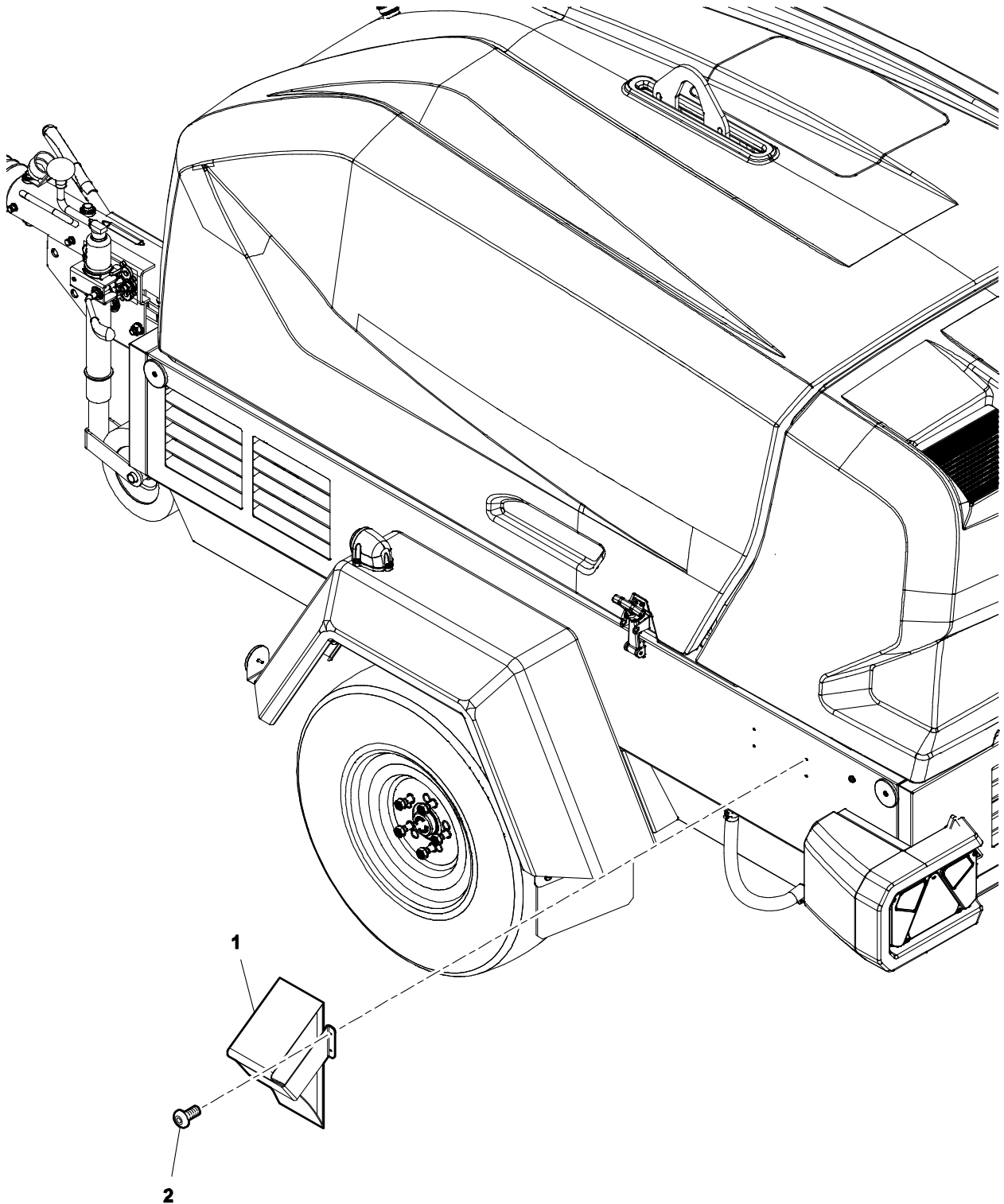


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OPTION - LED ROAD LIGHTS (CONT'D)

Item	Part Number	Description	Remarks	Serial Number	Qty
29	35222538	CLIP, RETAINING			2
30	46556766	HOLDER, PLUG			1
31	46859569	HARNESS, LED ROAD LIGHTS			1

## OPTION - WHEEL CHOCKS

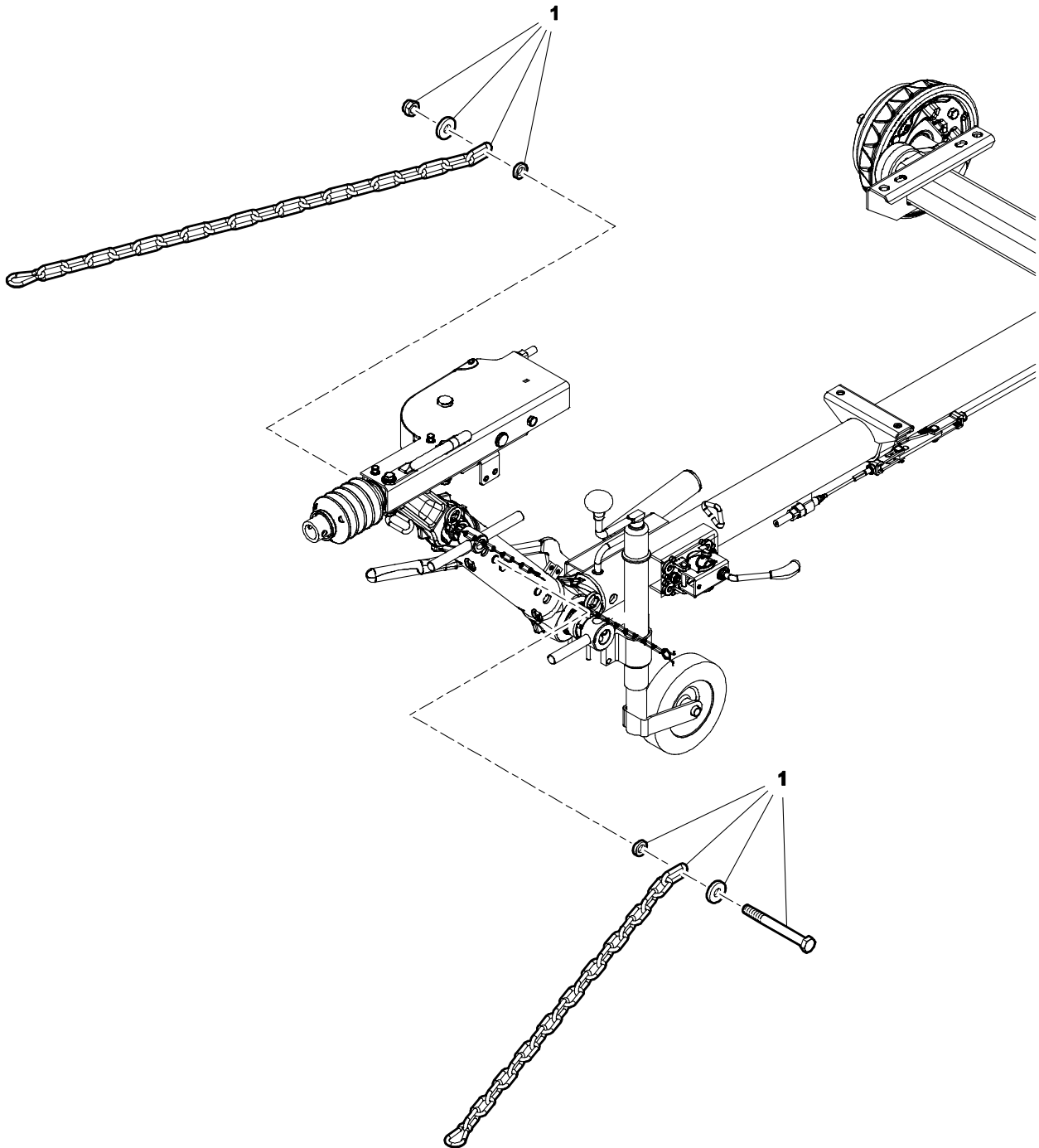


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**OPTION - WHEEL CHOCKS**

Item	Part Number	Description	Remarks	Serial Number	Qty
1	92899293	WHEEL CHOCK AND HOLDER ASSEMBLY			2
2	92766690	RIVET			8

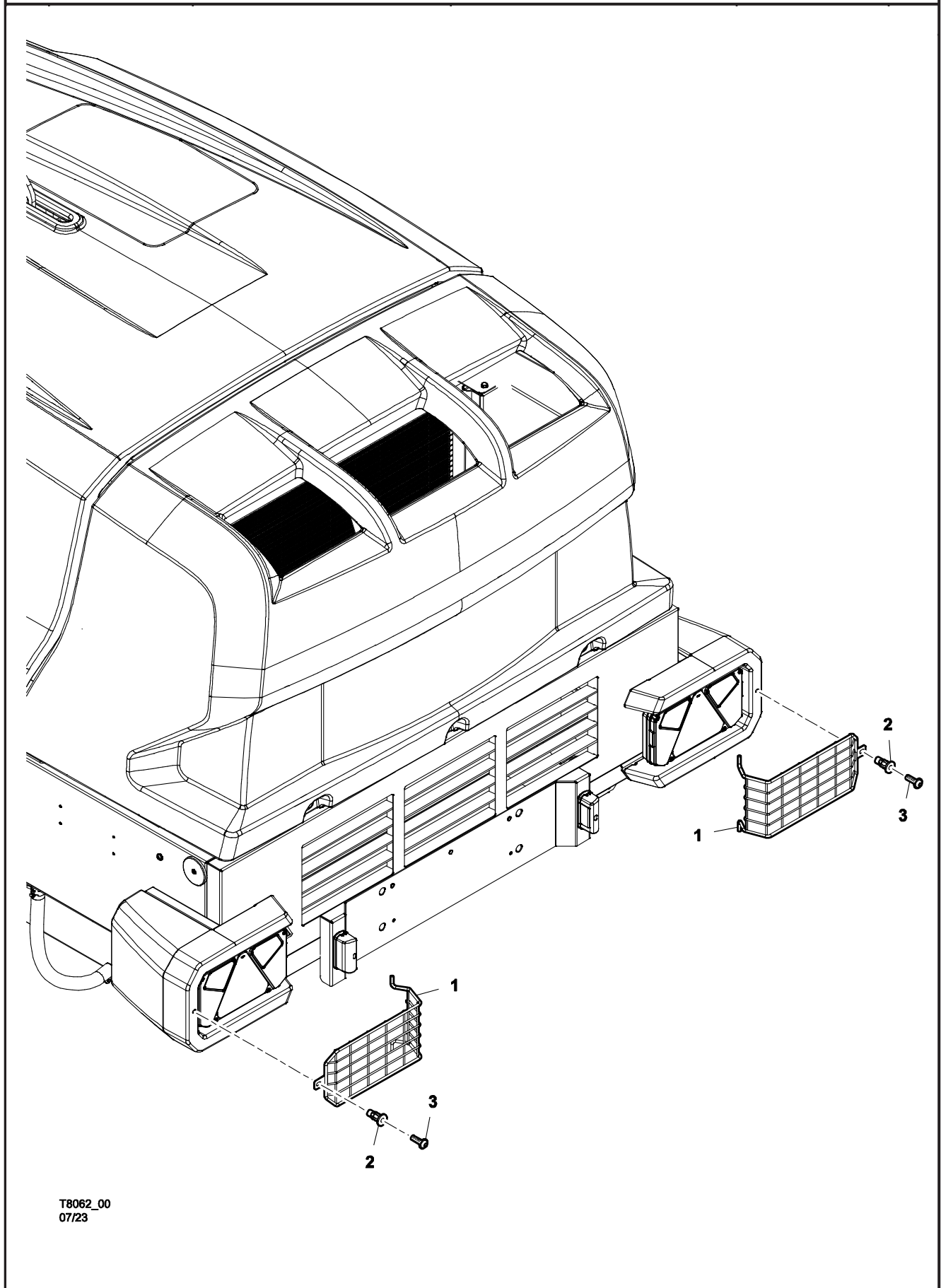
**OPTION - SAFETY CHAIN  
(Variable Height)**

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**OPTION - SAFETY CHAIN  
(Variable Height)**

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46558960	KIT, SAFETY CHAINS			1

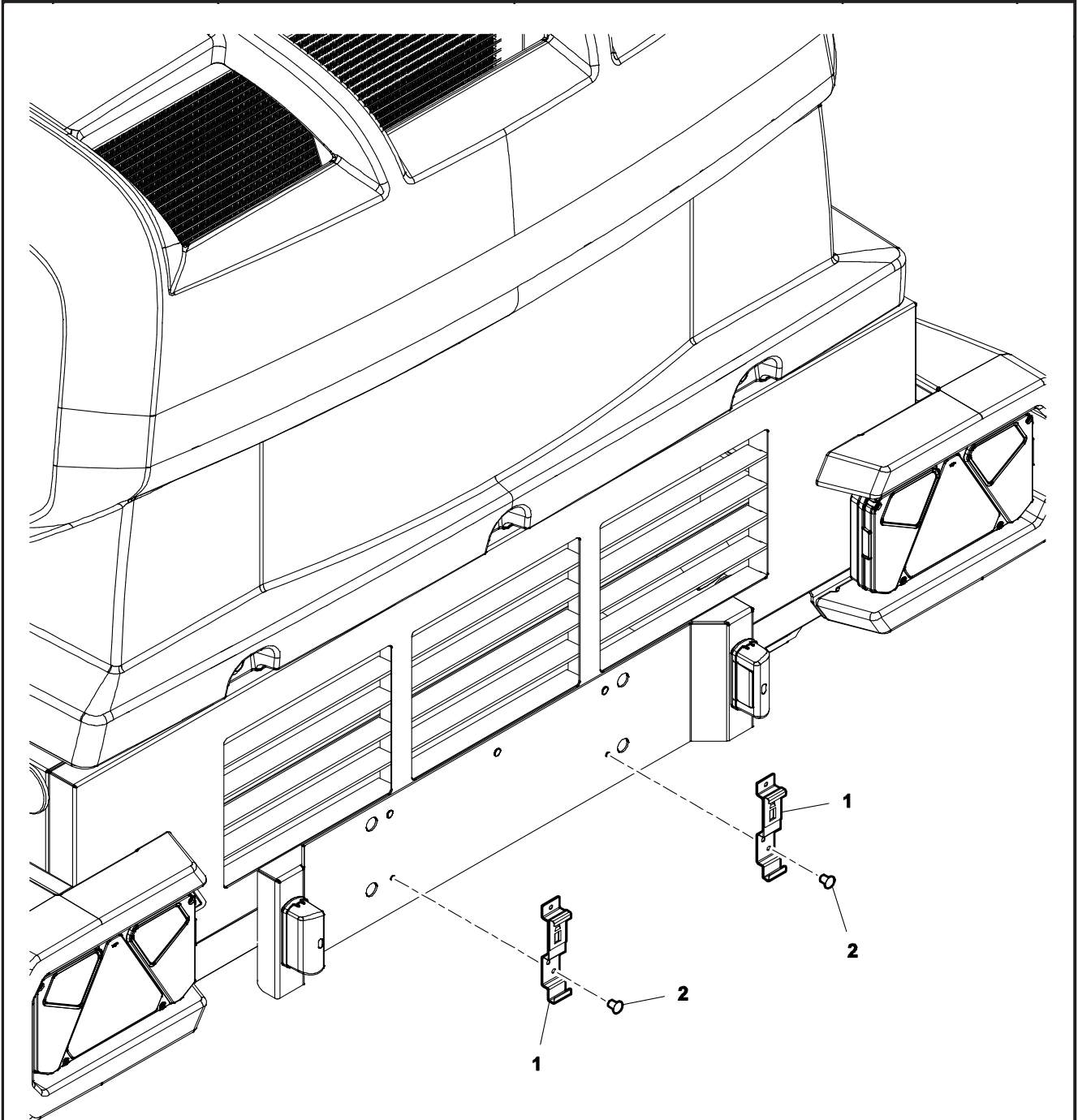
## OPTION - ROAD LIGHT GRILLES



### OPTION - ROAD LIGHT GRILLES

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46830285	GRID, LAMP			2
2	46827345	NUT, JACK	(M6)		2
3	46672836	SCREW	(M6 x 20)		2

OPTION - NUMBER PLATE CLIPS



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