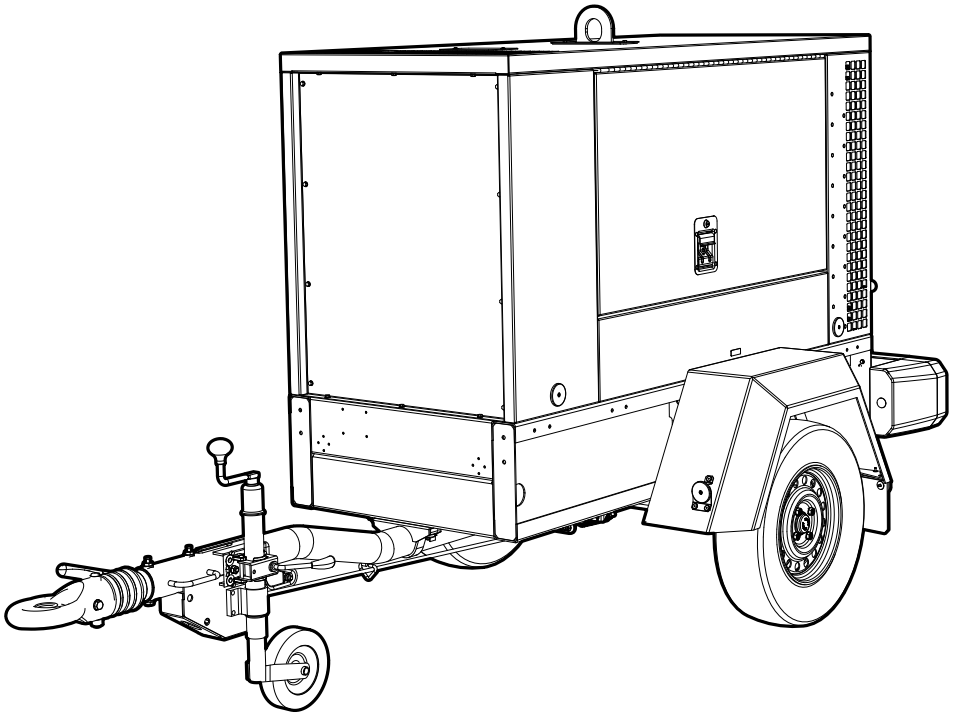
REPAIR AND MAINTENANCE INFORMATION (RMI)
Generator

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.



PG20

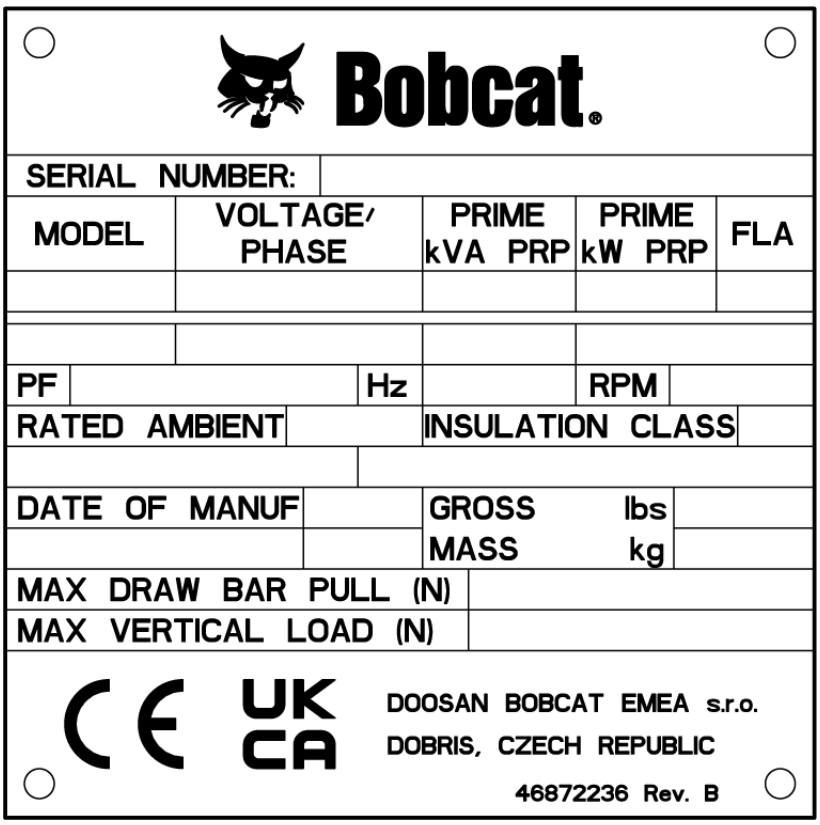
This manual contains important safety information and must be made available to personnel who operate and maintain this machine. If the required repair and maintenance information is not detailed in this manual then contact your local dealer.

This manual is applicable for trailers under the following Type Approval numbers:
e1*2018/858*00475*01

Serial No: PG02050001->

46964452_A_05/25

MODEL SERIAL CODES



Bobcat®

SERIAL NUMBER:				
MODEL	VOLTAGE/ PHASE	PRIME kVA PRP	PRIME kW PRP	FLA
PF		Hz	RPM	
RATED AMBIENT		INSULATION CLASS		
DATE OF MANUF		GROSS MASS	lbs	
			kg	
MAX DRAW BAR PULL (N)				
MAX VERTICAL LOAD (N)				

CE UKCA

DOOSAN BOBCAT EMEA s.r.o.
DOBRIS, CZECH REPUBLIC

46872236 Rev. B

CONTENTS

REFERENCE INFORMATION

Write the correct information for your Bobcat generator in the spaces below. Always use these numbers when referring to your Bobcat generator.

Generator Serial Number: _____

Engine Serial Number: _____

NOTES:

_____

_____

_____

_____

YOUR BOBCAT DEALER:

_____

ADDRESS:

_____

PHONE:

_____

CE

Doosan Bobcat EMEA s.r.o
U Kodetky 1810
263 12 Dobříš
Czech Republic


Bobcat

FOREWORD

CONTENTS

FOREWORD

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

Nothing contained within 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 & 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.

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:

- Operation within the ambient temperature range specified in the *GENERAL INFORMATION* section of this manual.

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 outside the ambient temperature range specified in the *GENERAL INFORMATION SECTION* 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.

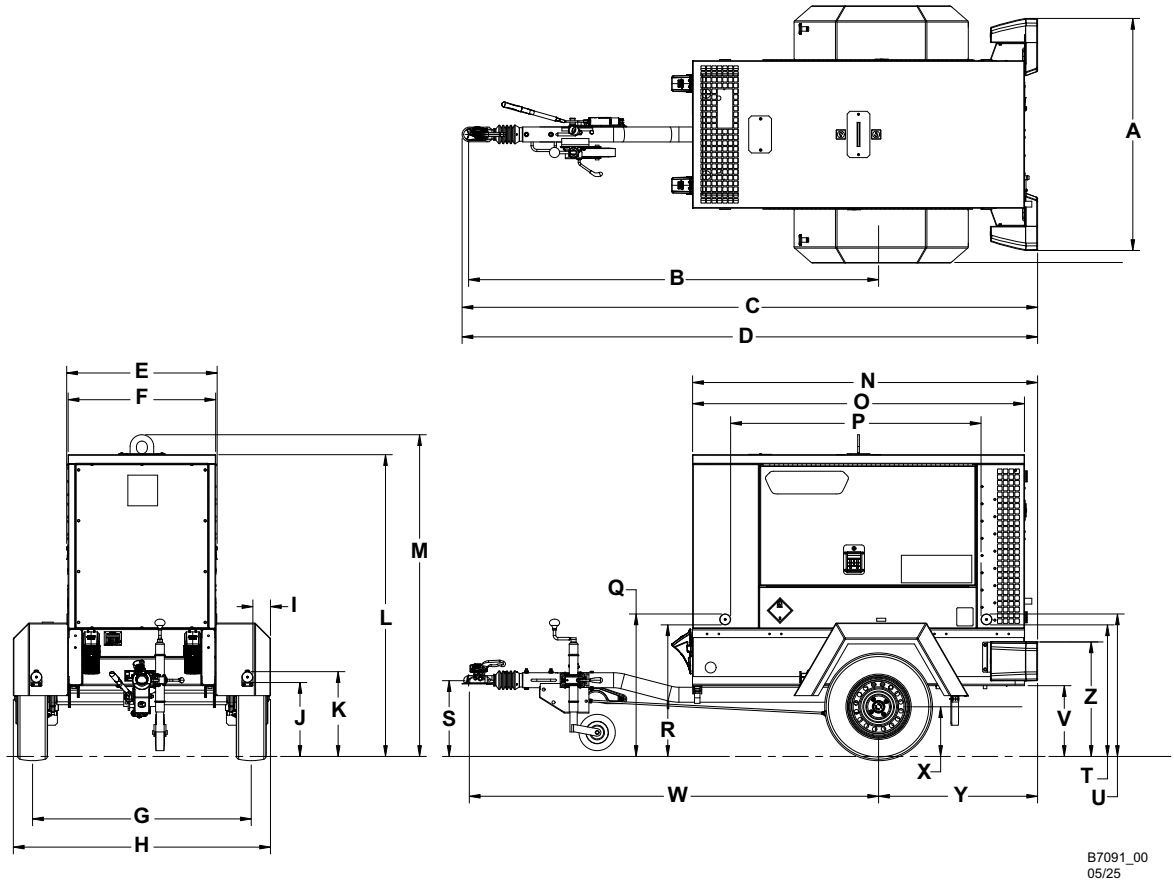
The company accepts no responsibility for errors in translation of this manual from the original English version.

GENERAL DATA

CONTENTS

GENERAL ASSEMBLY

Fixed Height Running Gear



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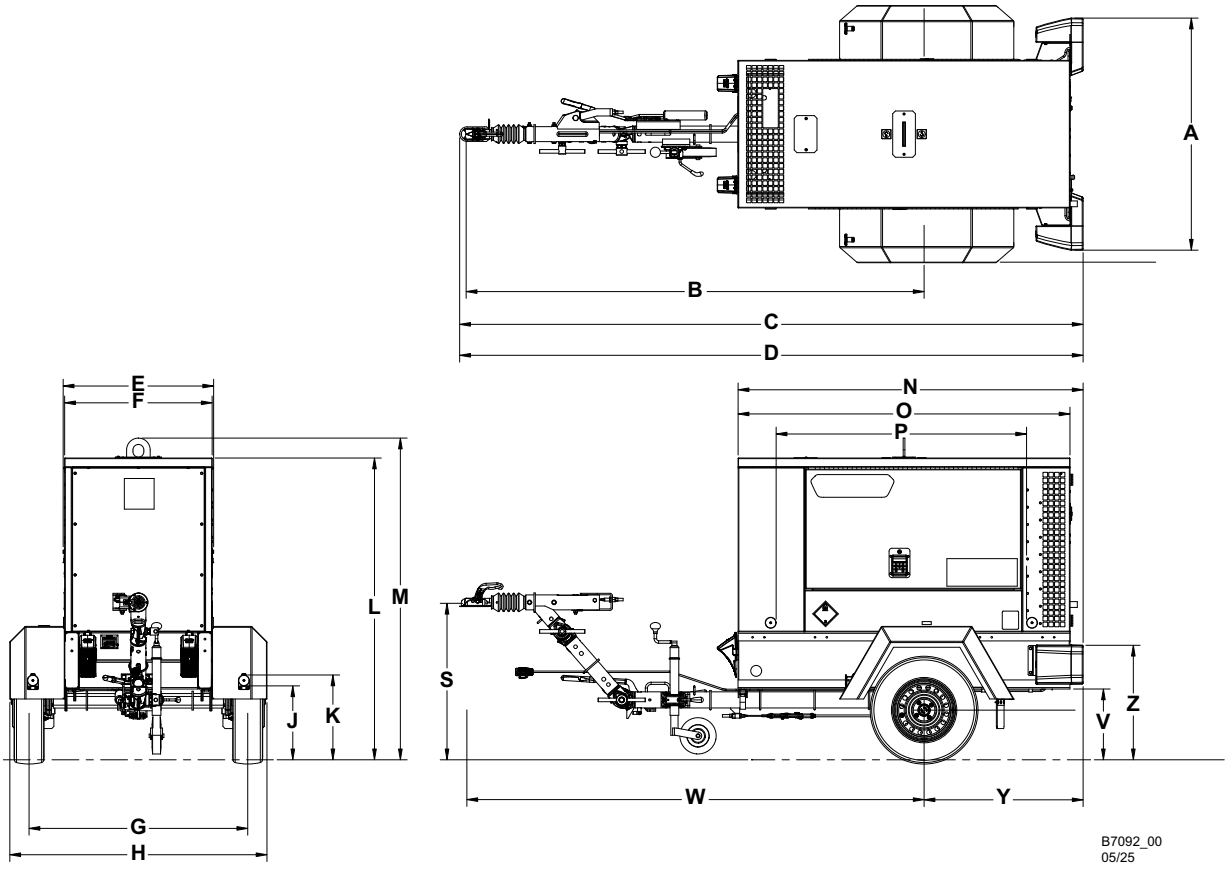
Variable Height Running Gear



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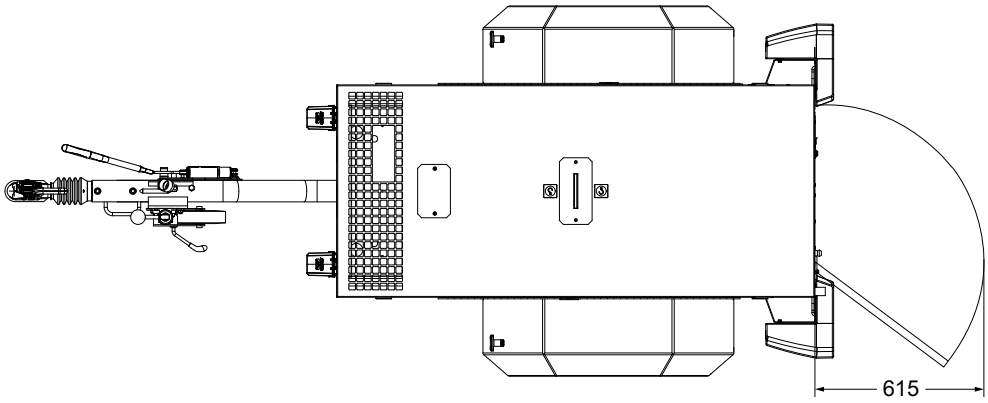
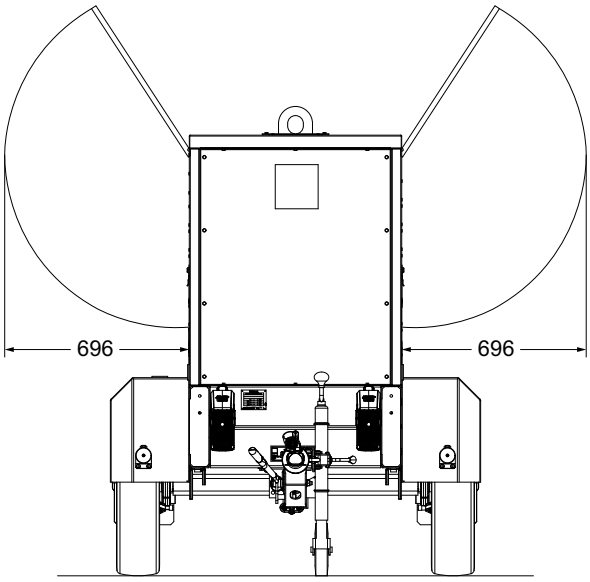
	A	B	C	D	E	F	G	H	I	J	K	L	M
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Fixed Height Running Gear	1280	2274**	3180**	MAX 3234 MIN 3180	829	813	1205*	1417*	MAX 150	MIN 250	MAX 900	1645**	1775**
Variable Height Running Gear	1280	MAX 2673** MIN 2508**	MAX 3579** MIN 3414**	MAX 3633 MIN 3414	829	813	1205*	1417*	MAX 150	MIN 250	MAX 900	1645**	1775**
	in	in	in	in	in	in	in	in	in	in	in	in	in
Fixed Height Running Gear	50.4	89.5**	125.2**	MAX 127.3 MIN 125.2	32.6	32.0	47.4*	55.8*	MAX 5.9	MIN 9.8	MAX 35.4	64.8**	69.9**
Variable Height Running Gear	50.4	MAX 105.2** MIN 98.7**	MAX 140.9** MIN 134.4**	MAX 143.0 MIN 134.4	32.6	32.0	47.4*	55.8*	MAX 5.9	MIN 9.8	MAX 35.4	64.8**	69.9**

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
Fixed Height Running Gear	1901	1829	MAX 3000	MAX 900	MIN 250	405*	MIN 250	MAX 900	370**	MAX 2287** MIN 2270**	274**	870**	610**
Variable Height Running Gear	1901	1829	MAX 3000	MAX 900	MIN 250	MAX 860* MIN 375*	MIN 250	MAX 900	370**	MAX 2686** MIN 2504**	274**	870**	610**
	in	in	in	in	in	in	in	in	in	in	in	in	in
Fixed Height Running Gear	74.8	72.0	MAX 118.1	MAX 35.4	MIN 9.8	15.9*	MIN 9.8	MAX 35.4	14.6**	MAX 90.0** MIN 89.4**	10.8**	34.3**	24.0**
Variable Height Running Gear	74.8	72.0	MAX 118.1	MAX 35.4	MIN 9.8	MAX 33.9* MIN 14.8*	MIN 9.8	MAX 35.4	14.6**	MAX 105.7** MIN 98.6**	10.8**	34.3**	24.0**

* ± 10 mm tolerance

** ± 40 mm tolerance





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GENERAL INFORMATION

WHEELS AND TYRES

Number of wheels	2 x 5J x 13
Tyre size	165 R13 C
Tyre pressure	430 kPa

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

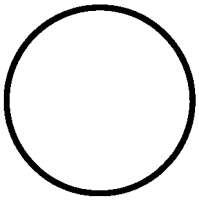
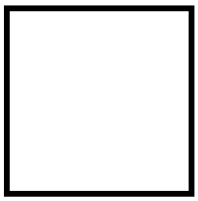
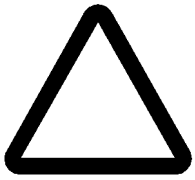
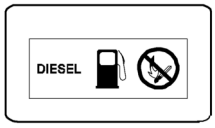
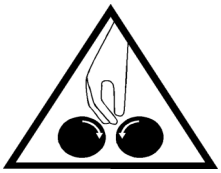
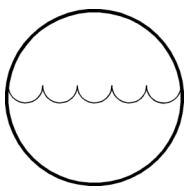

Bobcat

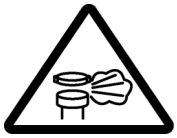
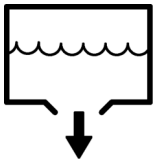
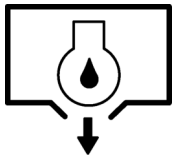
SAFETY

CONTENTS

SAFETY DECALS

GRAPHIC FORM AND MEANING OF ISO SYMBOLS

		
PROHIBITION / MANDATORY	**INFORMATION / INSTRUCTIONS**	**WARNING**
		
WARNING: Electrical shock risk.	WARNING - Hot surface.	Tie down point.
		
Lifting point.	On (power).	Off (power).
		
Read the Operation & Maintenance manual before operation or maintenance of this machine is undertaken.	Diesel fuel No open flame.	Crush Warning.
		
No Water.	Coolant Fill.	Earthing Point.

		
Warning: Hot Liquid.	Coolant Drain.	Engine Oil Drain.

WARNING - Flammable liquid.

SAFETY INSTRUCTIONS

WARNINGS/DANGER

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

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

Ensure that the Operation & 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.

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 arresters, and intake (shut-off) valves may be required, dependent 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.

Electricity

The human body has a low tolerance for electricity and is a very good conductor. Exposure to electrical shock can result in an interruption of normal heart activity, thermal burns, severe muscle contractions and even death.

Never operate the generator without all protections in place. Controller and busbar doors must be closed at all times during operation.

If live testing is necessary, it should only be performed by properly trained people.

While testing on live electrical equipment, rubber soled shoes and adequate rubber gloves must be worn, and all local regulations must be respected.

Materials

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

- 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:

- anti-freeze
- engine lubricant
- preservative grease
- rust preventative
- diesel fuel
- battery electrolyte

AVOID INGESTION, SKIN CONTACT AND INHALATION OF FUMES.

Should engine lubricants or fuel come into contact with the eyes, then irrigate with water for at least 5 minutes.

Should engine lubricants or fuel come into contact with the skin, then wash off immediately.

Consult a doctor if large amounts of engine lubricants or fuel are ingested.

Consult a doctor if engine lubricants or fuel are inhaled.

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

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

Battery

Batteries contain corrosive liquid and produce explosive gas. Do not expose to naked lights. Always wear personal protective clothing when handling. When starting the machine from a slave battery ensure that the correct polarity is observed and that connections are secure.

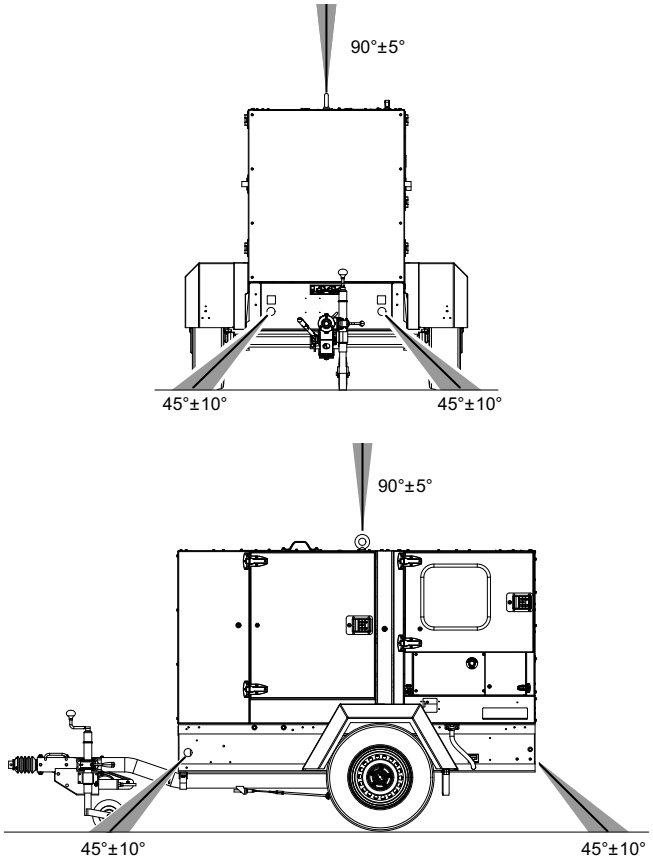
DO NOT ATTEMPT TO SLAVE START A FROZEN BATTERY SINCE THIS MAY CAUSE IT TO EXPLODE.

Radiator

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

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.

NOTE: 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.

Figure 1: Breakaway Cable Location - Units with Towing Eye

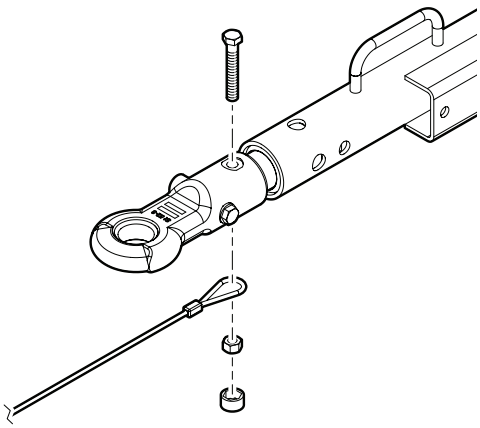


Figure 2: Breakaway Cable Location - units with ball Hitch

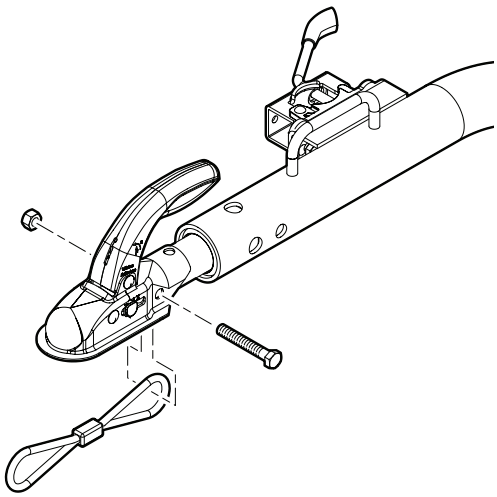
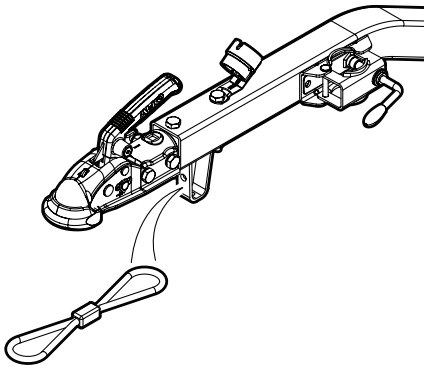


Figure 3: Breakaway Cable Location - Units with Supporting Foot

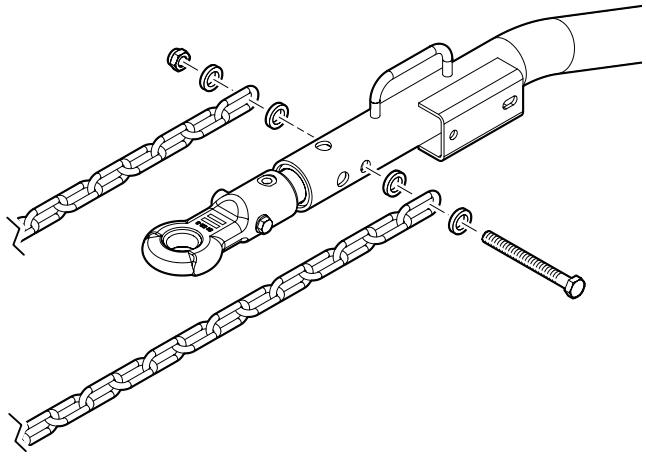


Where safety chains only are fitted:

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.

Figure 4: 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.


Bobcat

RUNNING GEAR OPERATION AND MAINTENANCE

CONTENTS

MAINTENANCE SCHEDULE

	DAILY	WEEKLY	MONTHLY	6 MONTHLY. 500 HOURS	1 YEAR. 1000 HOURS	2 YEARS. 2000 HOURS
Lights (brake, running & turn)	CBT					
Pintle Eye Bolts	CBT					
Brakes	C					
Brake Linkage	C					
Running Gear Linkage & Bolts			G/C			

C = Check and act if required

CBT = Check before towing

G/C = Grease and check

Refer to specific sections of the operator's manual for more information.

NOTE: 500 and 1000 hour intervals are meant to be repeated at every 500 or 1000 hours. Other intervals only to be performed at hours indicated.

TYRES/TYRE PRESSURE

See the *GENERAL DATA* section of this manual.

RUNNING GEAR / WHEELS

Check the wheel nut torque 20 miles (30 kilometers) 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 MAINTENANCE SCHEDULE 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.

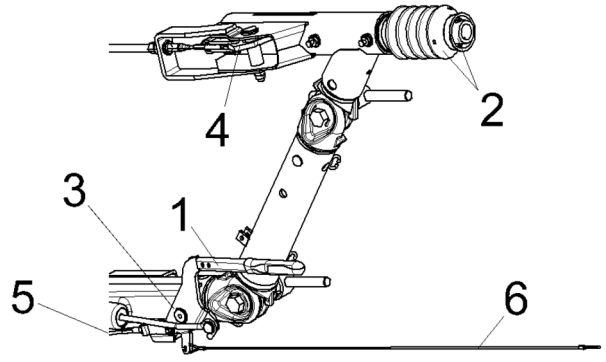
Adjusting the overrun braking system (KNOTT Running Gear)

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.

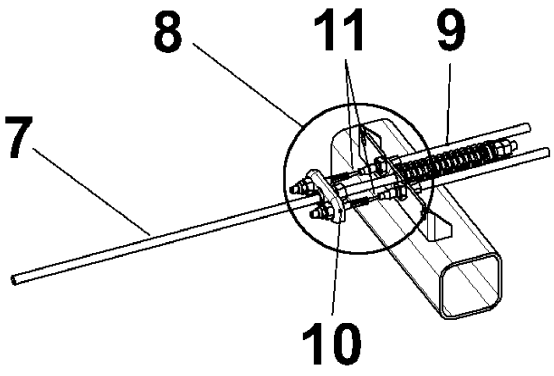
Always rotate the wheel in the direction of forward movement.

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.



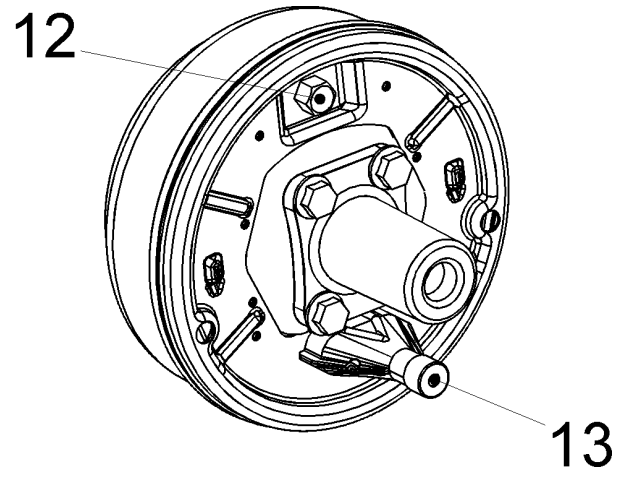
7. Brake linkage
8. Equalisation assembly
9. Compression spring
10. Equaliser plate
11. Cable

⚠ 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. ½ 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].

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).

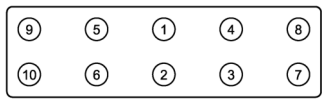
Check the compression spring [9] for slight pre-tensioning.

⚠ CAUTION

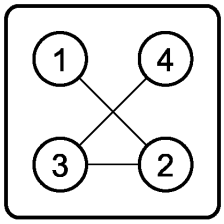
Check the wheel nut torque 20 miles (30 kilometers) after refitting the wheels (Refer to the *TORQUE SETTING TABLE*.

TORQUE SETTING TABLE

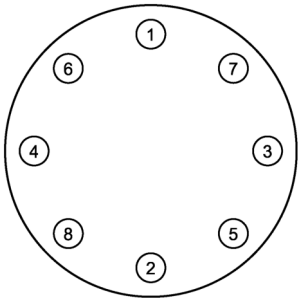
METRIC FASTENERS						
CAPSCREW OR NUT THREAD SIZE AND PITCH	**NOMINAL DESIGN TORQUE**					
	PROPERTY GRADE 8.8 (HEAD MARKING)		PROPERTY GRADE 10.9 (HEAD MARKING)		PROPERTY GRADE 12.9 (HEAD MARKING)	
	(Nm.)	(FT-LBF)	(Nm.)	(FT-LBF)	(Nm.)	(FT-LBF)
M6 X 1.0	11	8	15	11	18	13
M8 X 1.25	26	19	36	27	43	31
M10 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 TORQUE RECTANGULAR PATTERN



TYPICAL TORQUE SQUARE PATTERN



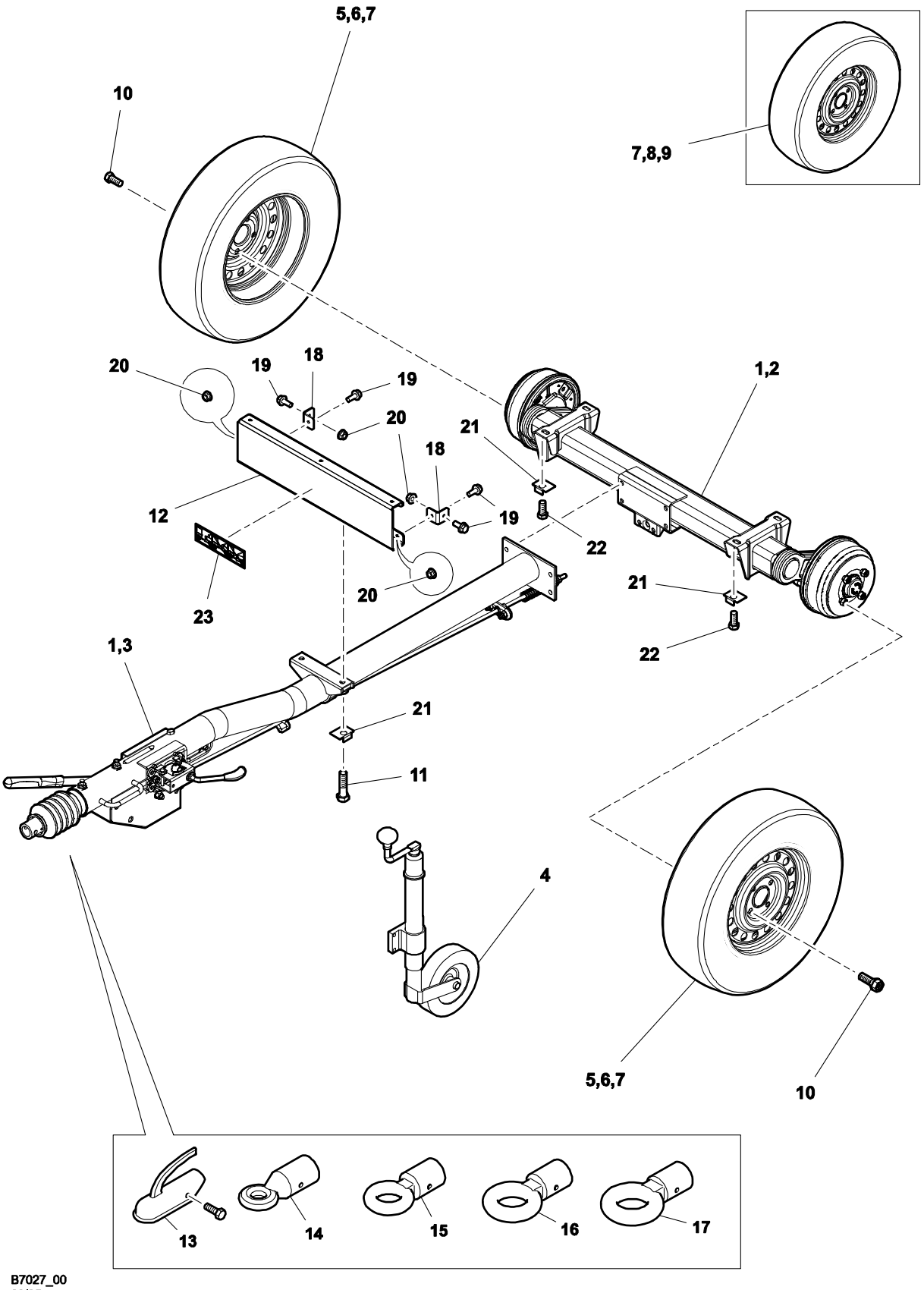
TYPICAL TORQUE CIRCULAR PATTERN


Bobcat

PARTS LISTS

CONTENTS

RUNNING GEAR ASSEMBLY
(Fixed Height Braked)
(#### ->)



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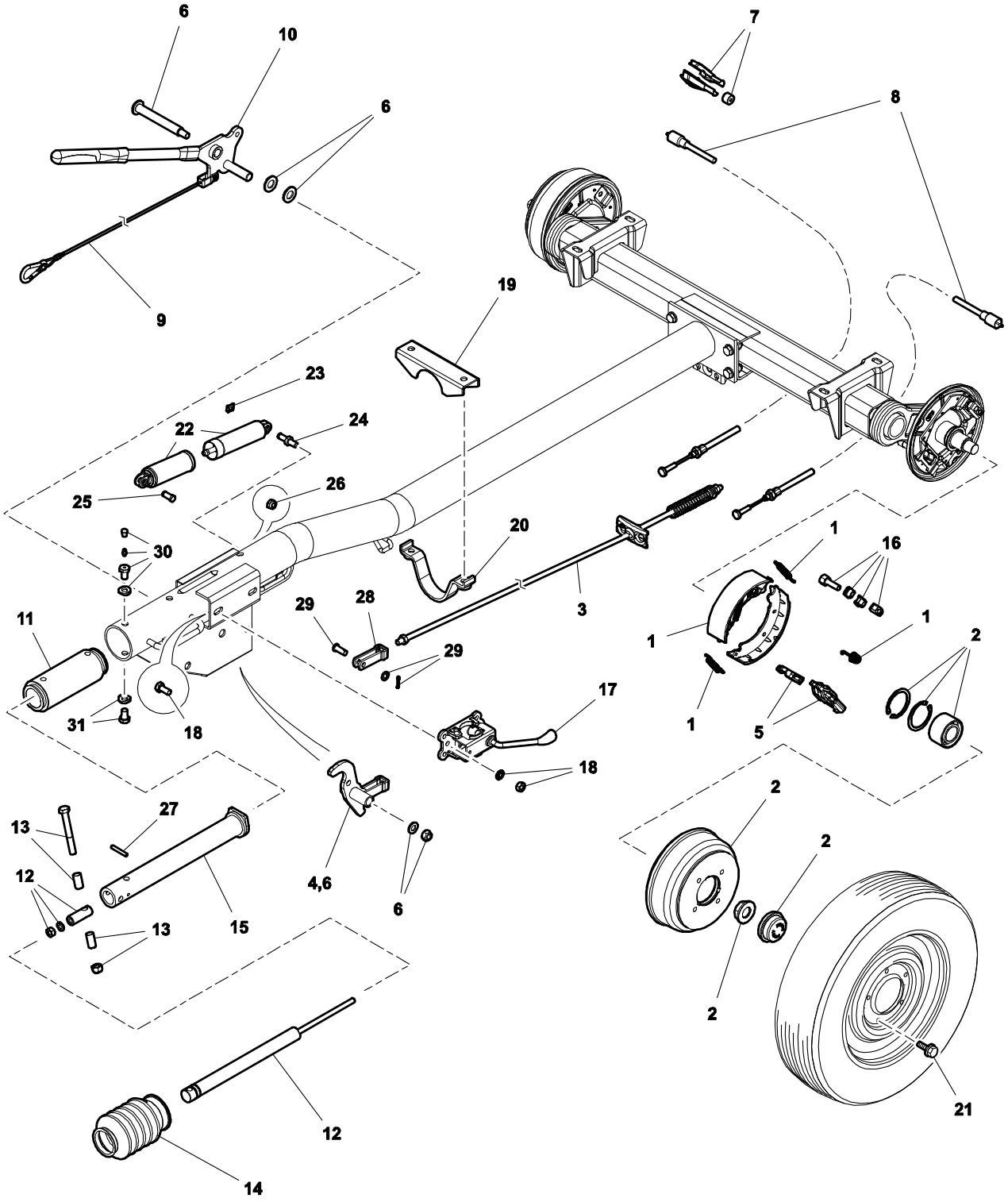
RUNNING GEAR ASSEMBLY
(Fixed Height Braked)
(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46925250	RUNNING GEAR ASSEMBLY	W/Ref. 2-3 - (fixed height)		1
2	46925255	AXLE ASSEMBLY			1
3	46925256	DRAWBAR ASSEMBLY			1
4	22053763	JOCKEY WHEEL ASSEMBLY			1
5	46927359	WHEEL AND TYRE ASSEMBLY	W/Ref. 6-7		2
6	46927358	WHEEL			1
7	46940041	TYRE			1
8	46940050	WHEEL AND TYRE ASSEMBLY	W/Ref. 7,9 (Optional)		2
9	23339765	WHEEL, SILVER			1
10	22051080	BOLT			8
11	96730395	SCREW	(M12 x 50)		2
12	46927460SZ	CROSSMEMBER			1
13	46569660	HITCH, BALL	(50 mm)		1
14	54774500	EYE, TOWING	(Ø 40 mm)		1
15	54774518	EYE, TOWING	(Ø 50 mm)		1
16	46569679	EYE, TOWING	(Ø 68 mm)		1
17	54774542	EYE, TOWING	(Ø 76 mm - including bolts)		1
18	46927461SZ	BRACKET			2
19	96704408	SCREW	(M8 x 20)		7
20	36881886	NUT	(M8)		4
21	46960376	WASHER			6
22	96702311	SCREW	(M12 x 30)		4
23	46627615	DECAL, HORIZONTAL POSITION			1

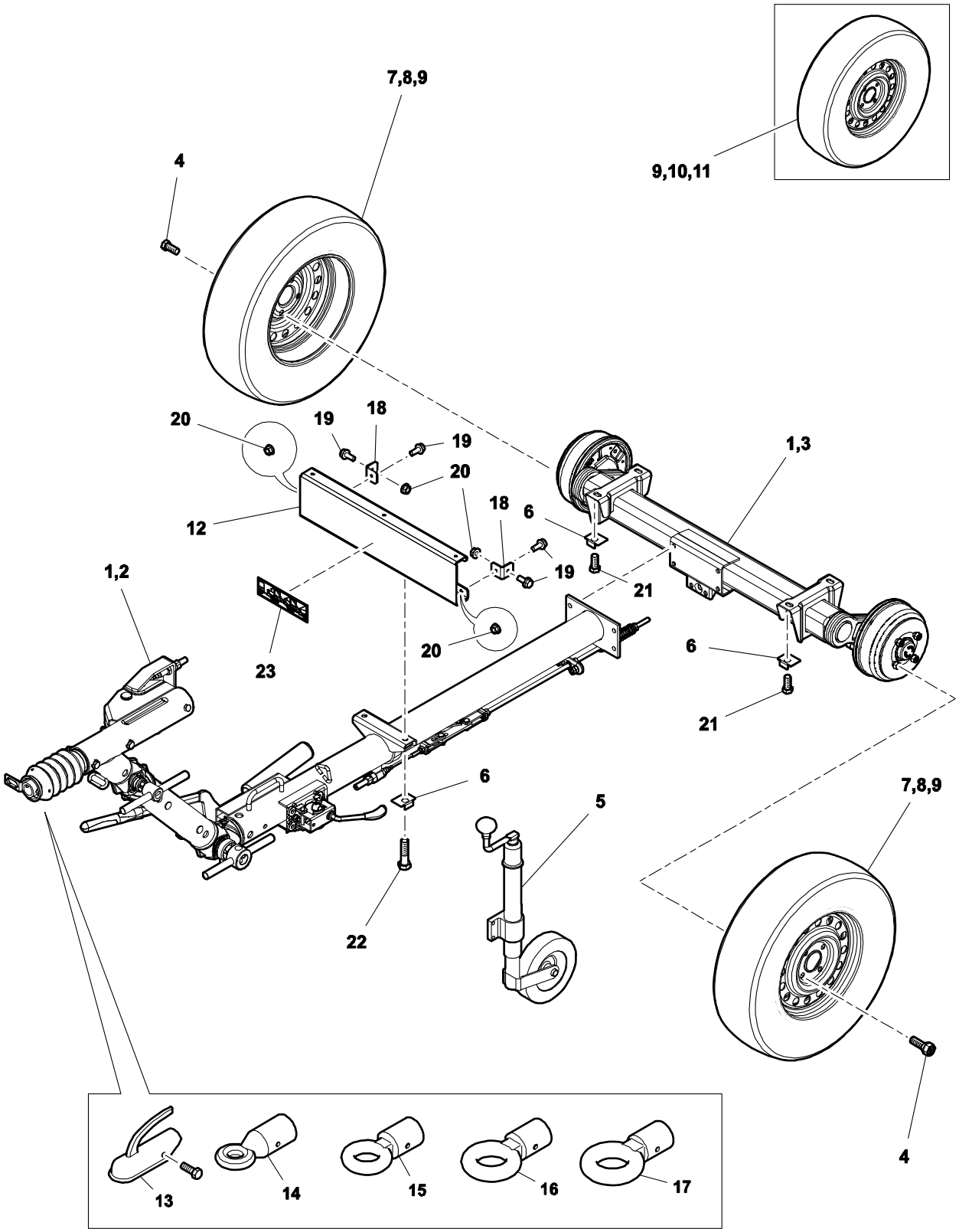
RUNNING GEAR
(Fixed Height Braked)
(#### ->)



RUNNING GEAR
(Fixed Height Braked)
(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46960377	BRAKE SHOE PACK	(order one per machine)		1
2	46960378	DRUM ASSEMBLY COMPLETE	(order two per machine)		2
3	46960379	ROD, BRAKE			1
4	46676995	LEVER ASSEMBLY			1
5	46957376	KIT, EXPANDING KEY	(order one per machine)		1
6	46676996	KIT, LEVER COMPLETE			1
7	46656681	CABLE COVER ASSEMBLY	(order two per machine)		2
8	46550963	CABLE			2
9	46517702	CABLE, HANDBRAKE			1
10	46651463	HANDBRAKE LEVER ASSEMBLY	W/Ref. 9		1
11	22051395	TUBE			1
12	46517827	KIT, DAMPER			1
13	46960380	KIT, CONNECTING			1
14	22051510	COVER			1
15	46957380	SLIDER			1
16	46656686	KIT, BRAKE OVERHAUL	(order two per machine)		1
17	22067003	CLAMP ASSEMBLY			1
18	80029069	KIT, CONNECTING			1
19	22066773	PAD			1
20	22051908	CLAMP			1
21	46656688	KIT, CONNECTING	(order one per machine)		1
22	46517454	PISTON			1
23	46517447	CLIP, RETAINING			1
24	46677005	PIN			1
25	46960384	PIN			1
26	22392260	NUT	(M10)		1
27	22241517	PIN			1
28	22392039	CLEVIS			1
29	46743861	KIT, CONNECTING			1
30	46960381	KIT, CONNECTING			1
31	46960382	KIT, CONNECTING			1

RUNNING GEAR ASSEMBLY
(Variable Height Braked)
(#### ->)



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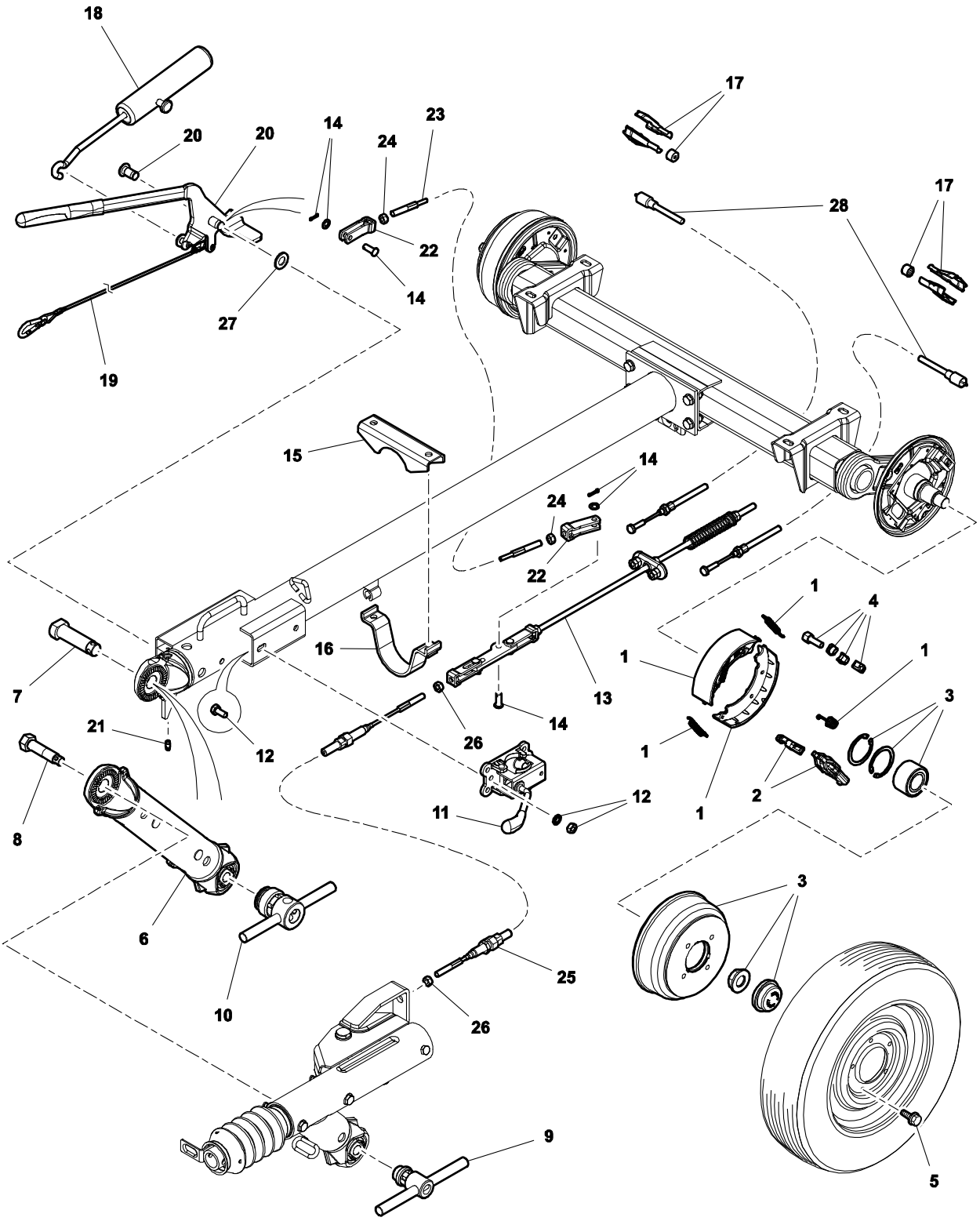
RUNNING GEAR ASSEMBLY
(Variable Height Braked)
(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46927457	RUNNING GEAR ASSEMBLY	W/Ref. 2-3		1
2	46927459	DRAWBAR ASSEMBLY			1
3	46925255	AXLE ASSEMBLY			1
4	22051080	BOLT			8
5	22053763	JOCKEY WHEEL ASSEMBLY			1
6	46960376	WASHER			6
7	46927359	WHEEL AND TYRE ASSEMBLY	W/Ref. 8-9		2
8	46927358	WHEEL			1
9	46940041	TYRE			1
10	46940050	WHEEL AND TYRE ASSEMBLY	W/Ref. 9,11 (Optional)		2
11	23339765	WHEEL, SILVER			1
12	46927460SZ	CROSSMEMBER			1
13	46569660	HITCH, BALL	(50 mm)		1
14	54774500	EYE, TOWING	(Ø 40 mm)		1
15	54774518	EYE, TOWING	(Ø 50 mm)		1
16	46569679	EYE, TOWING	(Ø 68 mm)		1
17	54774542	EYE, TOWING	(Ø 76 mm - including bolts)		1
18	46927461SZ	BRACKET			2
19	96704408	SCREW	(M8 x 20)		7
20	36881886	NUT	(M8)		4
21	96702311	SCREW	(M12 x 30)		4
22	96730395	SCREW	(M12 x 50)		2
23	46627615	DECAL, HORIZONTAL POSITION			1

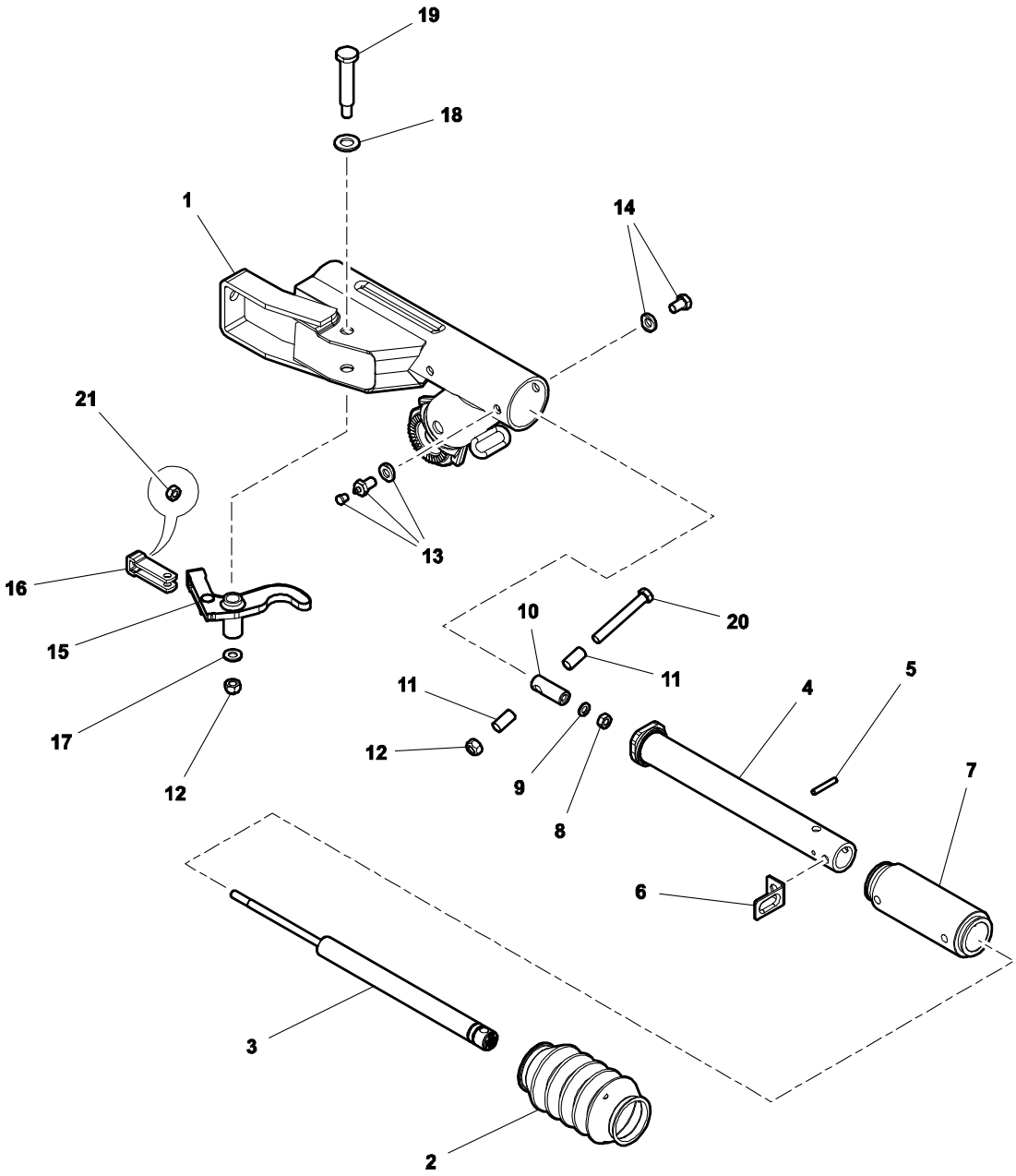
RUNNING GEAR
(Variable Height Braked)
(#### ->)



RUNNING GEAR
(Variable Height Braked)
(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46960377	BRAKE SHOE PACK	(order one per machine)		1
2	46957376	KIT, EXPANDING KEY	(order one per machine)		1
3	46960378	DRUM ASSEMBLY COMPLETE	(order two per machine)		2
4	46656686	KIT, BRAKE OVERHAUL	(order two per machine)		2
5	46656688	KIT, CONNECTING	(order one per machine)		1
6	22104863	LINK, ADJUSTABLE			1
7	22051726	BOLT			1
8	22051700	BOLT			1
9	46743863	KIT, PIVOT			1
10	22251250	HANDLE			1
11	22067003	CLAMP ASSEMBLY			1
12	80029069	KIT, CONNECTING			1
13	22126395	COMPENSATOR			1
14	46743861	KIT, CONNECTING			1
15	46957378	CLAMP			1
16	46677007	CLAMP			1
17	46656681	CABLE COVER ASSEMBLY	(order two per machine)		2
18	22051619	SPRING			1
19	46960385	CABLE			1
20	22066823	LEVER, HANDBRAKE	W/Ref. 19		1
21	22241400	NIPPLE			1
22	22241483	CLEVIS			2
23	22241152	CABLE			1
24	46960383	NUT			2
25	22251268	CABLE			1
26	22051577	NUT			2
27	22051643	WASHER			1
28	46550963	CABLE			2

RUNNING GEAR
(Variable Height Braked)
(#### ->)



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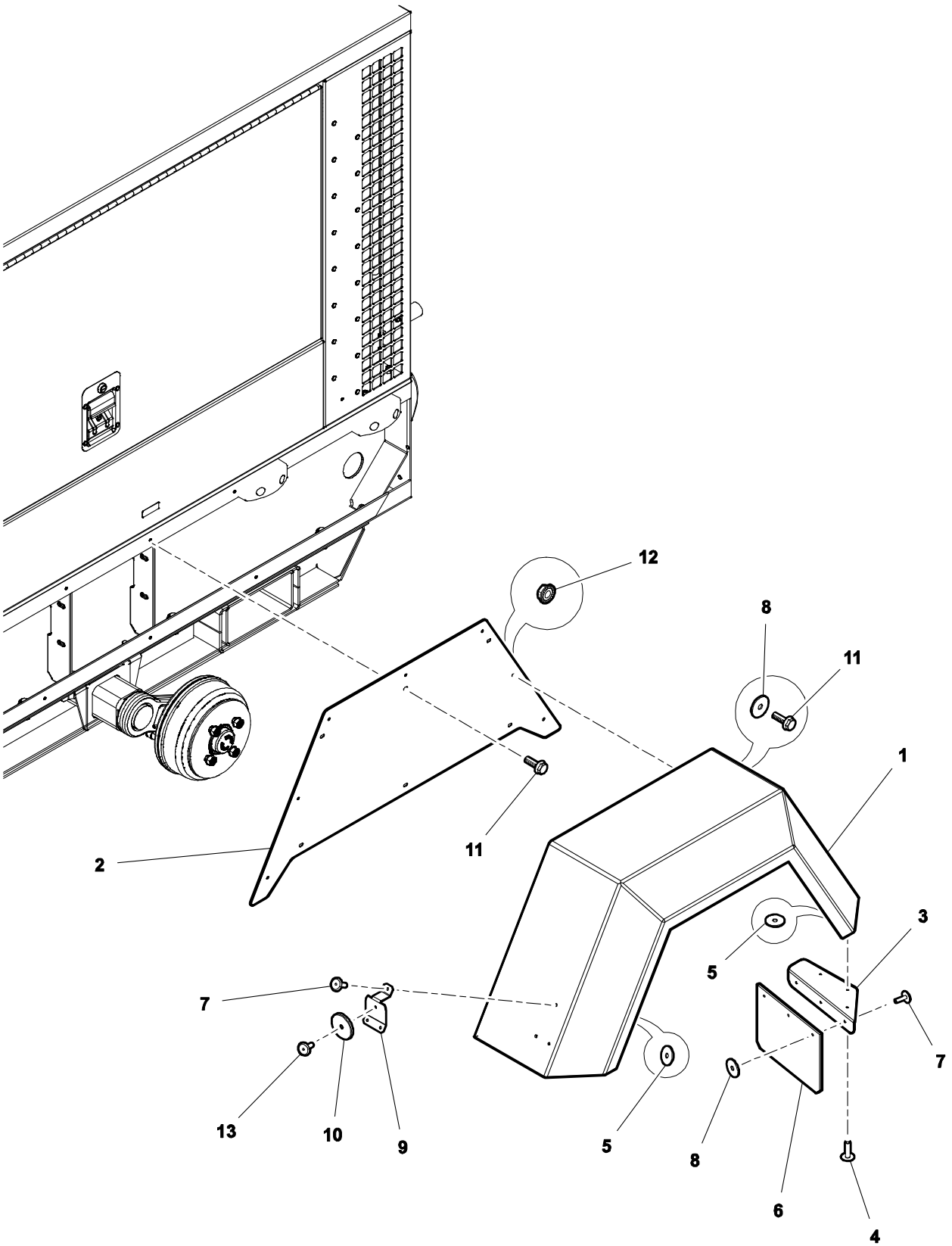
RUNNING GEAR
(Variable Height Braked)
(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	22066906	HOUSING			1
2	22051510	COVER			1
3	22105035	DAMPER			1
4	46957380	SLIDER			1
5	22241517	PIN			1
6	46960386	BRACKET			1
7	22051395	TUBE			1
8	22051577	NUT			1
9	22051585	RING			1
10	22051544	JOINT			1
11	46960387	SLEEVE			2
12	22051494	NUT			2
13	80029275	KIT, CONNECTING			2
14	80029267	KIT, CONNECTING			3
15	22066914	LEVER, TRANSMISSION			1
16	22392039	CLEVIS			1
17	22104806	WASHER			1
18	22051643	WASHER			1
19	22051635	BOLT			1
20	22051569	BOLT			1
21	22051577	NUT			1

FENDERS AND MUD GUARDS

(#### ->)



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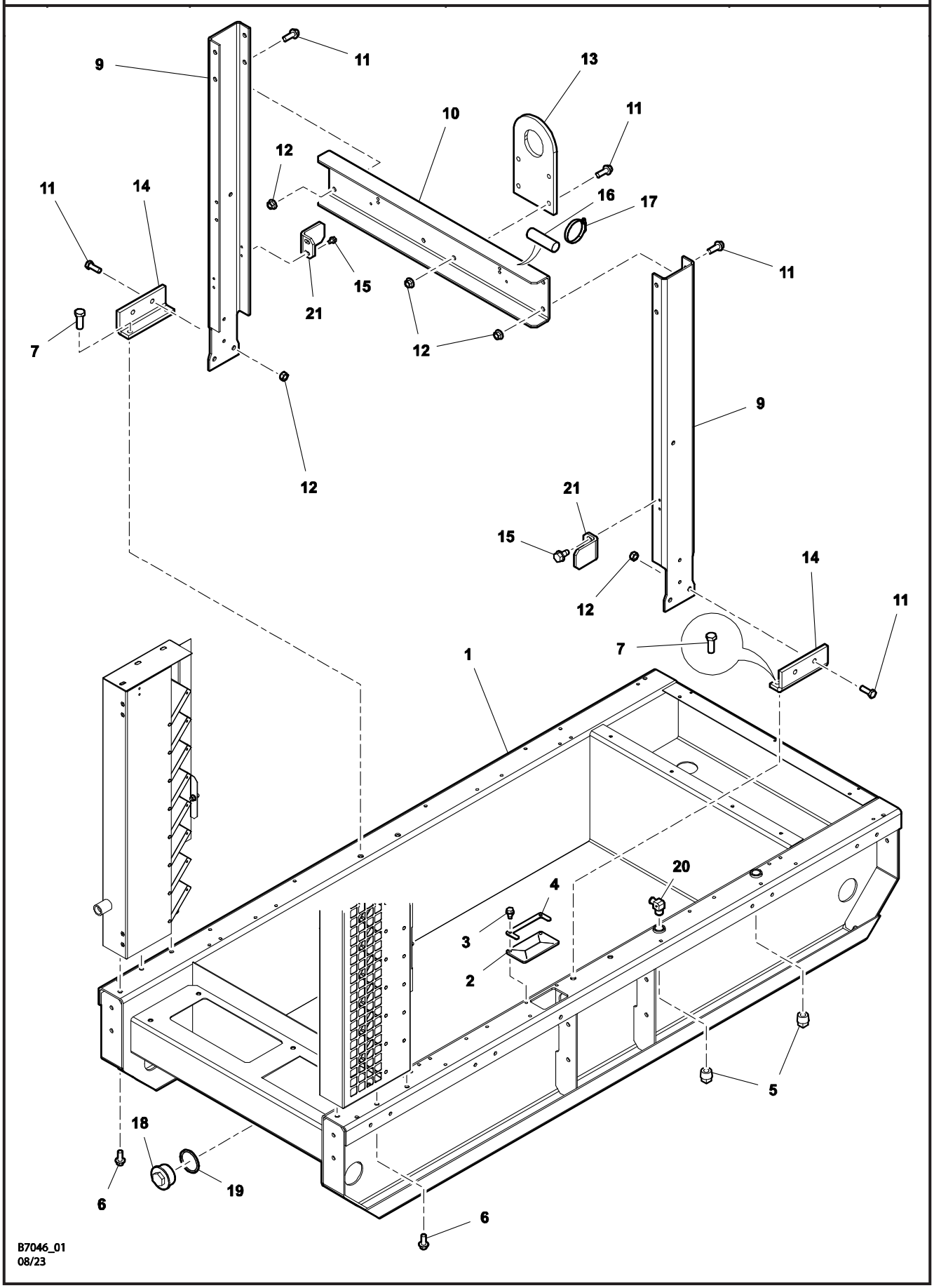
FENDERS AND MUD GUARDS

(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46932984	FENDER	(RH)		1
1	46932985	FENDER	(LH)		1
2	46933014SZ	BRACKET, FENDER			2
3	46862504SZ	BRACKET, FENDER EXTENSION	(RH)		1
3	46862505SZ	BRACKET, FENDER EXTENSION	(LH)		1
4	22855258	RIVET			6
5	92304583	WASHER	(M5)		12
6	46865696	FLAP, SPLASHGUARD			2
7	46560699	RIVET			12
8	23076656	WASHER	(M6 x 25)		18
9	46932983SZ	BRACKET, SIDE REFLECTOR			2
10	92085729	REFLECTOR, WHITE			2
11	92096015	SCREW	(M6 x 16)		20
12	96704176	NUT	(M6)		8
13	22054498	RIVET			2

FRAME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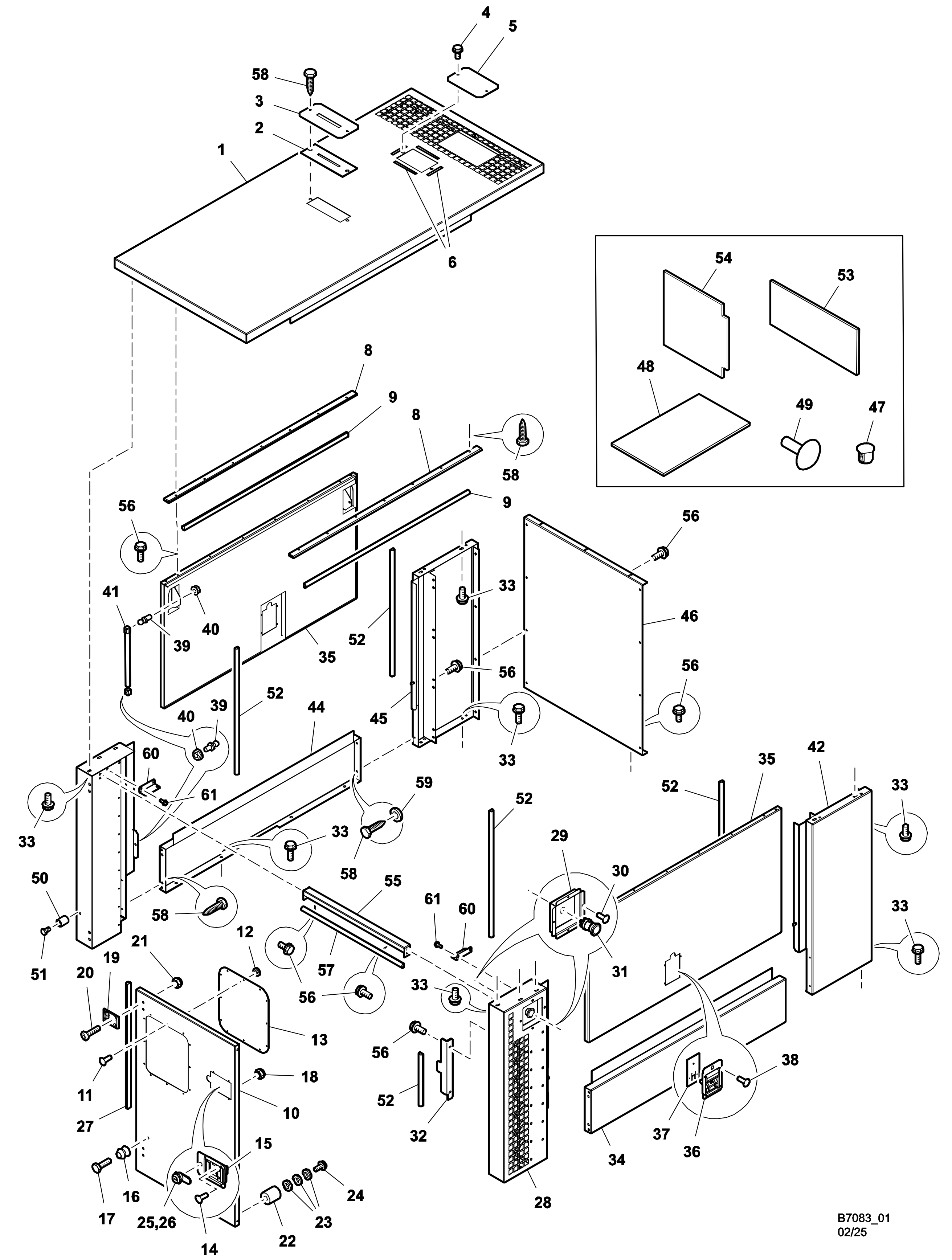
FRAME

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46696104SZ	FRAME	(-> ####)		1
1	46925245SZ	FRAME	(#### ->)		1
2	46612179	COVER			1
3	46612180SZ	HOLDER, COVER			1
4	36797652	SCREW	(M6 x 12)		2
5	93502128	PLUG	1/2" BSP		2
6	96704408	SCREW	(M8 x 20)		6
7	36880995	SCREW	(M10 x 30)		4
8	46696386	LIFTING BAIL ASSEMBLY	W/Ref. 9-14		1
9	46696385SZ	CHANNEL, VERTICAL			2
10	22799936SZ	CHANNEL, HORIZONTAL			1
11	92280981	SCREW	(M10 x 30)		12
12	96735550	NUT	(M10)		12
13	22577100SZ	PLATE, LIFTING EYE			1
14	22577076SZ	ANGLE, MOUNTING			2
15	36797652	SCREW	(M6 x 12)		4
16	46698343	TUBE, DRAIN			1
17	92861640	TIE, CABLE	(350 mm)		1
18	46562519	PLUG	2"		1
19	46562520	RING, SEALING			1
20	46750606	ELBOW	1/2" BSPT - 5/8" - 90 DEG		1
21	22877088SZ	BRACKET, STRIKER			2

ENCLOSURE



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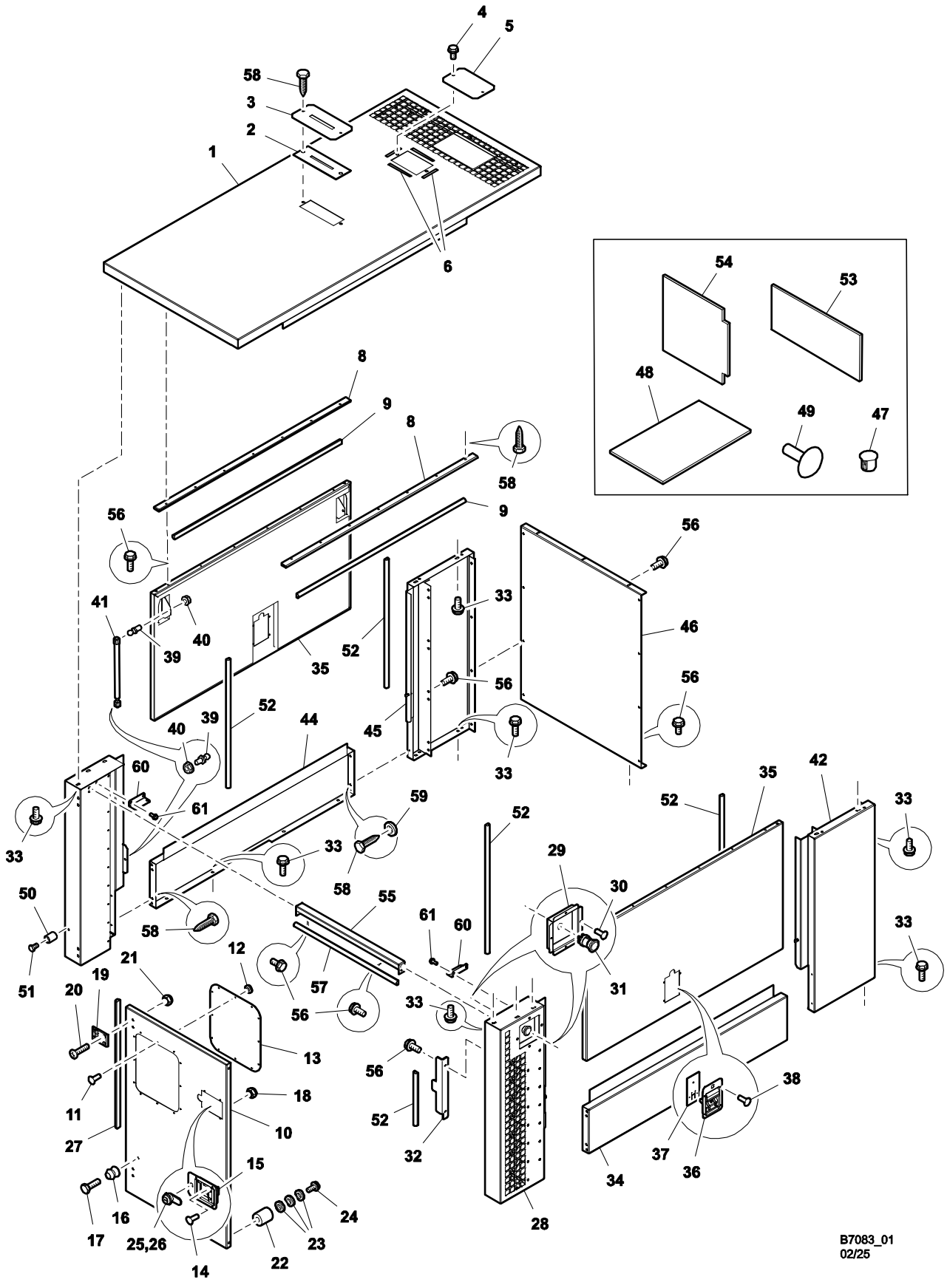
ENCLOSURE

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46696181	PANEL ASSEMBLY			1
1	46696182SM	PANEL, PAINTED			1
2	22896666	SEAL, COVER			1
3	22682488SM	COVER			1
4	23330491	SCREW			2
5	22312409GM	COVER			1
6	22617666	SEAL			4
8	22513840	HINGE			2
9	22617674	STRIP, RUBBER SEAL			2
10	46696189	DOOR ASSEMBLY	W/Ref. 11-27		1
10	46696190SP	DOOR, PAINTED			1
11	46803405	RIVET			12
12	92304583	WASHER	(M5)		12
13	46697901	PLEXIGLASS			1
14	22684971	RIVET			4
15	22788673	LATCH, DOOR			1
16	92922863	CATCH			1
17	96701461	SCREW	(M6 x 25)		1
18	96703806	NUT	(M6)		1
19	46556610	HINGE			2
20	46561404	SCREW	(M8 x 25)		8
21	35278530	NUT	(M8)		4
22	92922855	CATCH			1
23	96727581	WASHER	(M6)		3
24	36797652	SCREW	(M6 x 12)		1
25		KEY, REPLACEMENT	NAP		1
26	36794345	CYLINDER, KEY			1
27	22617674	STRIP, RUBBER SEAL	0,9 m long		1
28	46696154	PANEL	W/Ref. 28-32		1
28	46696155SM	PANEL, PAINTED			1
29	22682512SM	BOX, E-STOP			1

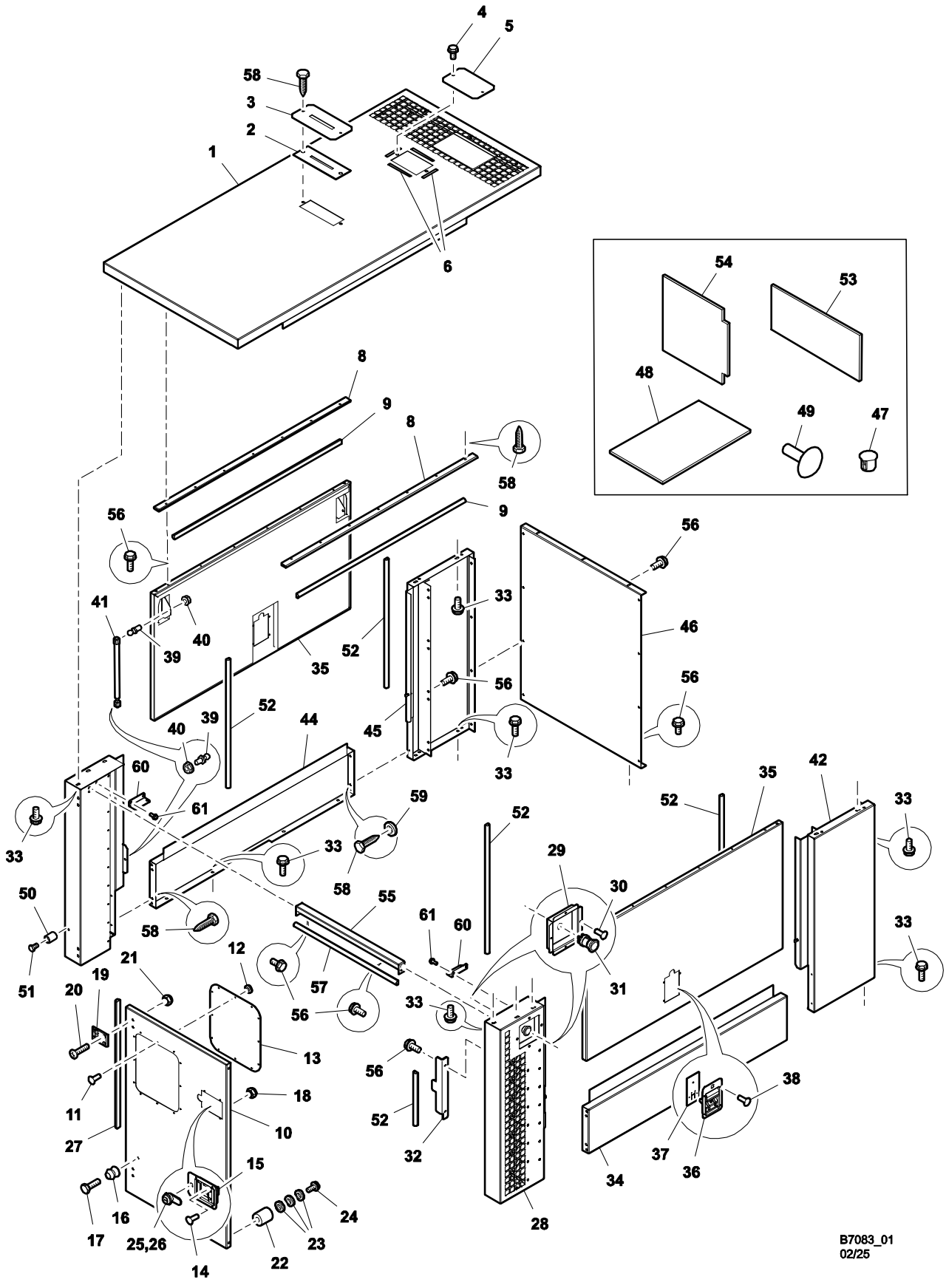
ENCLOSURE (CONT'D)



ENCLOSURE (CONT'D)

Item	Part Number	Description	Remarks	Serial Number	Qty
30	22684971	RIVET			4
31	22503692	SWITCH, EMERGENCY STOP			1
32	22628770SZ	SUPPORT			1
33	22959936	SCREW	(M8 x 20)		16
34	46696391SM	PANEL			1
35	46696183	DOOR ASSEMBLY	W/Ref. 35-40		2
35	46696184SM	DOOR, PAINTED			1
36	22375877	LATCH			1
37	22869937	SEAL			1
38	22684971	RIVET			4
39	35337328	STUD, BALL	(M8)		2
40	36881886	NUT	(M8)		2
41	35600261	SPRING			4
42	46696217	PANEL ASSEMBLY			1
42	22874754SM	PANEL			1
43	46696152	PANEL ASSEMBLY			1
43	46696153SM	PANEL, PAINTED			1
44	46696392SM	PANEL			1
45	46696216	PANEL ASSEMBLY			1
45	22874762SM	PANEL			1
46	22610562GM	PANEL			1
47	36896462	PLUG			2
48	92949742	FOAM FIELD KIT (with adhesive)	1,9 m x 1,5 m x 25 mm (7' x 5' x 1")		1
48	92949767	FOAM FIELD KIT (with adhesive)	1,9 m x 1,5 m x 50 mm (7' x 5' x 2")		1
48	92949759	FOAM FIELD KIT (with adhesive)	0,95 m x 1,5 m x 25 mm (3' x 5' x 1")		1
48	92949775	FOAM FIELD KIT (with adhesive)	0,95 m x 1,5 m x 50 mm (3' x 5' x 2")		1
48	46592579	FOAM FIELD KIT (no adhesive)	1,9 m x 1,5 m x 50 mm (7' x 5' x 2")		1
48	46592580	FOAM FIELD KIT (no adhesive)	0,95 m x 1,5 m x 50 mm (3' x 5' x 2")		1
49	46570819	RETAINER	order as required		x
50	92922855	CATCH			1
51	96701461	SCREW	(M6 x 25)		1

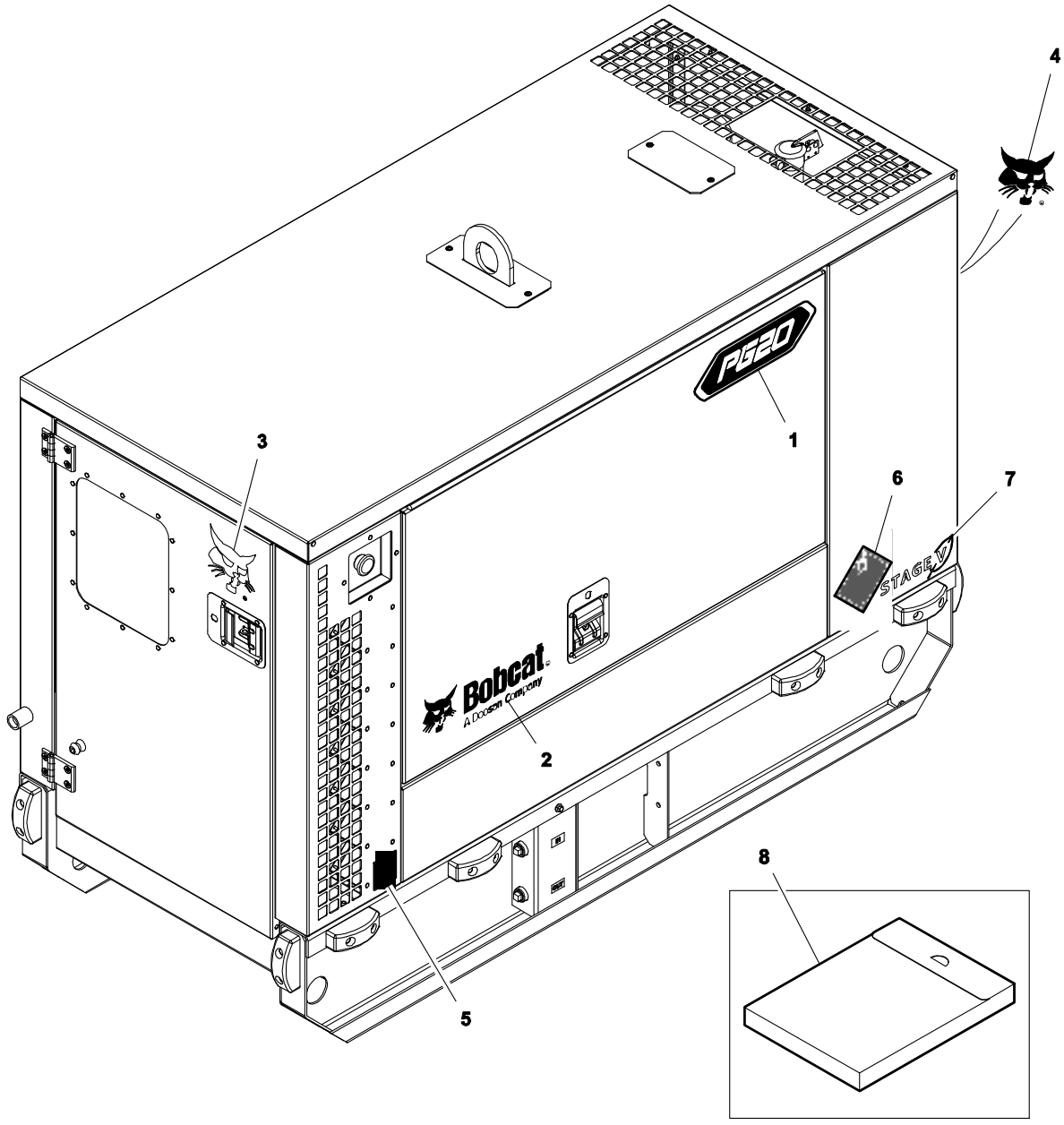
ENCLOSURE (CONT'D)



ENCLOSURE (CONT'D)

Item	Part Number	Description	Remarks	Serial Number	Qty
52	22617674	STRIP, RUBBER SEAL			5
53	22559033	FIBREGLASS, SIDE			2
54	22800460	FIBREGLASS, FRONT PANEL			1
55	22638282SZ	SUPPORT			1
56	36797652	SCREW	(M6 x 12)		34
57	22617674	STRIP, RUBBER SEAL			1
58	46700609	SCREW	(M6.3 x 13)		50
59	95935029	WASHER	1/4"		4
60	46943253SZ	BRACKET			2
61	92096015	SCREW	(M6 x 16)		4

DECALS AND DOCUMENTATION



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08/23

DECALS AND DOCUMENTATION

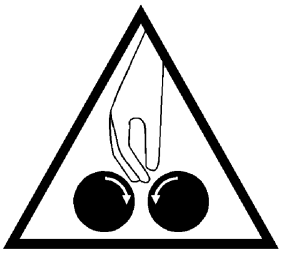
Item	Part Number	Description	Remarks	Serial Number	Qty
1	46881916	DECAL, MODEL			2
2	46881162	DECAL, BOBCAT LOGO			2
3	46882505	DECAL, BOBCAT HEAD LOGO	(white)		1
4	46882500	DECAL, BOBCAT HEAD LOGO	(black)		1
5	46623539	DECAL, 89DB SOUND POWER			2
6	46655654	DECAL, FLAMMABLE LIQUID			2
7	46777685	DECAL, STAGE 5			2
8	92861509	BOX, MANUAL			1

DECALS AND DOCUMENTATION

1

2

3



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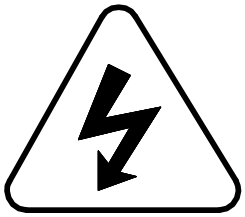

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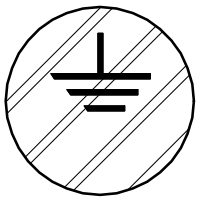

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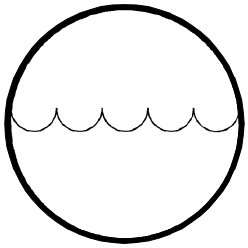

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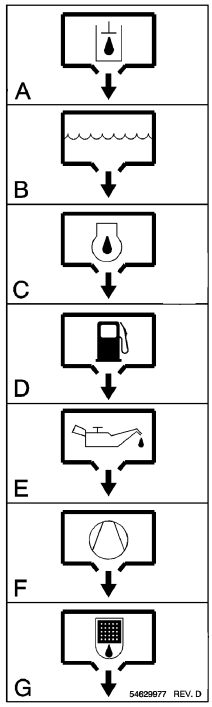

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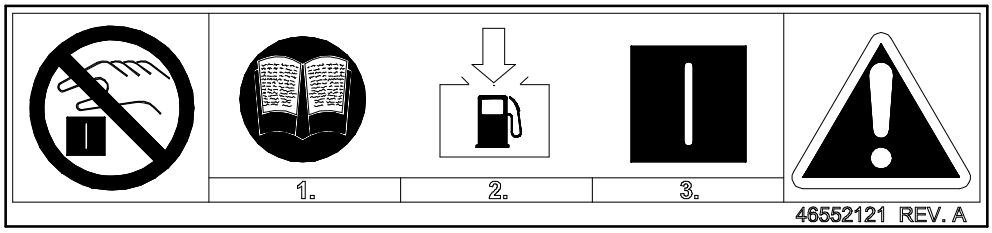

10

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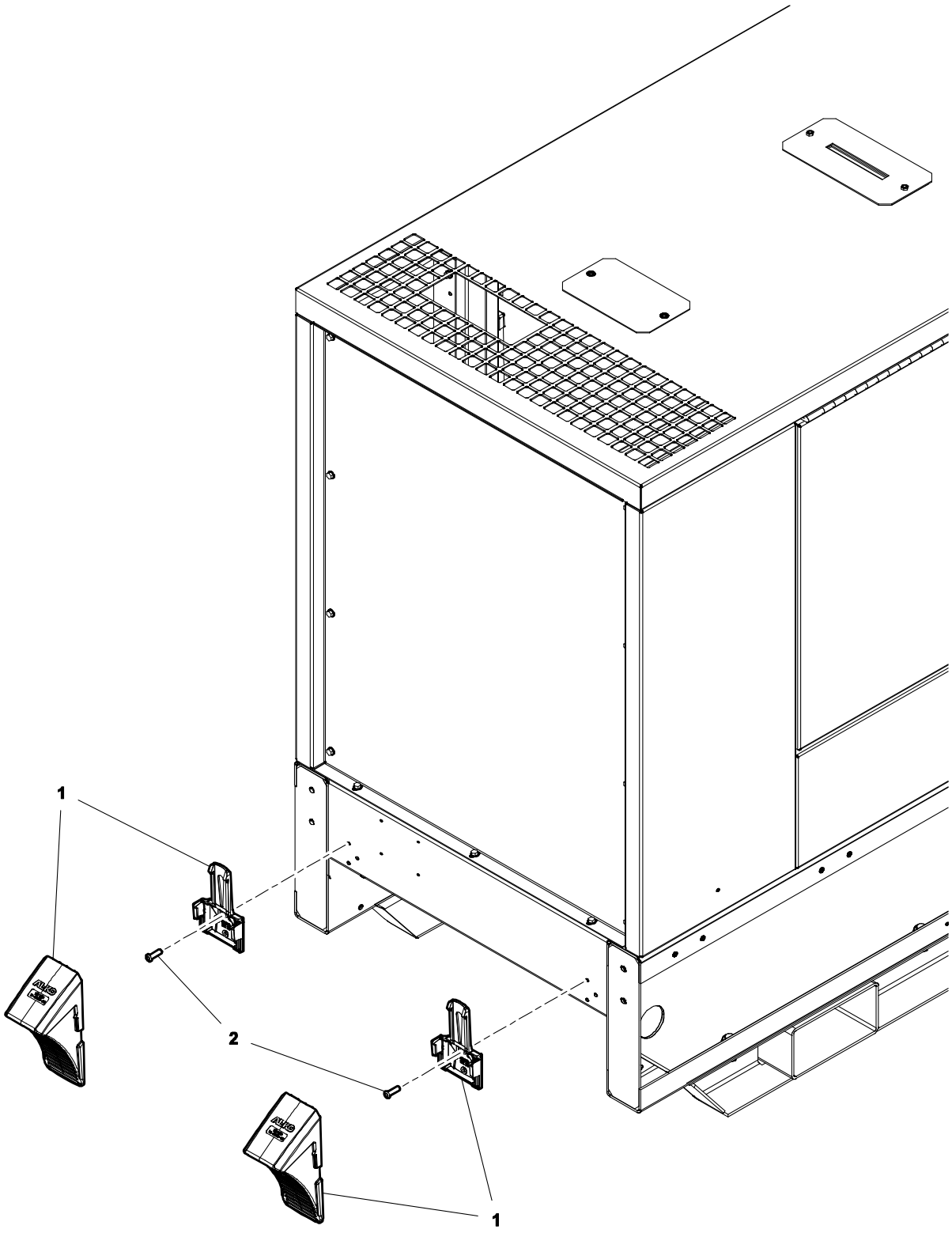
08/23

DECALS AND DOCUMENTATION

Item	Part Number	Description	Remarks	Serial Number	Qty
1	93171254	DECAL, DIESEL FUEL			1
2	93171262	DECAL, LIFT/TIE POINT			2
3	22644082	PLATE			1
4	23047582	DECAL, CRUSH HAZARD			2
5	92930593	DECAL, ELECTRIC SHOCK			2
6	92912559	DECAL, EARTH WARNING			1
7	23047566	DECAL, NO WATER			2
8	92867449	DECAL, REFER TO HANDBOOK			1
9	23047624	DECAL, COOLANT LEVEL			1
10	46552121	DECAL, WARNING-NO FUEL			1
11	54629977	DECAL, ISO CENTRAL DRAIN			2

OPTION - WHEEL CHOCKS

(#### ->)



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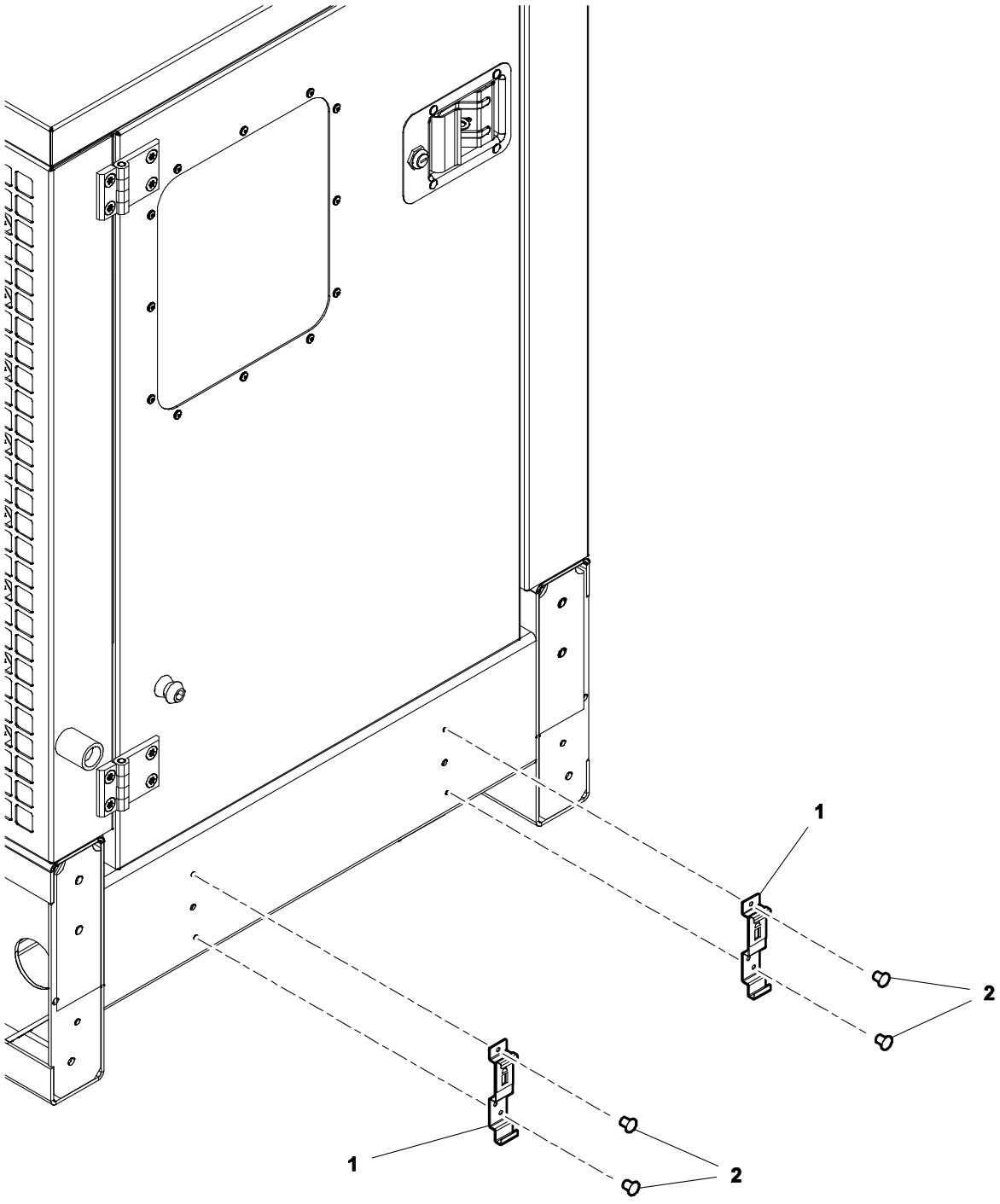
OPTION - WHEEL CHOCKS

(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	92905942	KIT, WHEEL CHOCK			2
2	92271923	RIVET	(3/16" x 5/8")		8

OPTION - NUMBER PLATE CLIPS

(#### ->)



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02/25

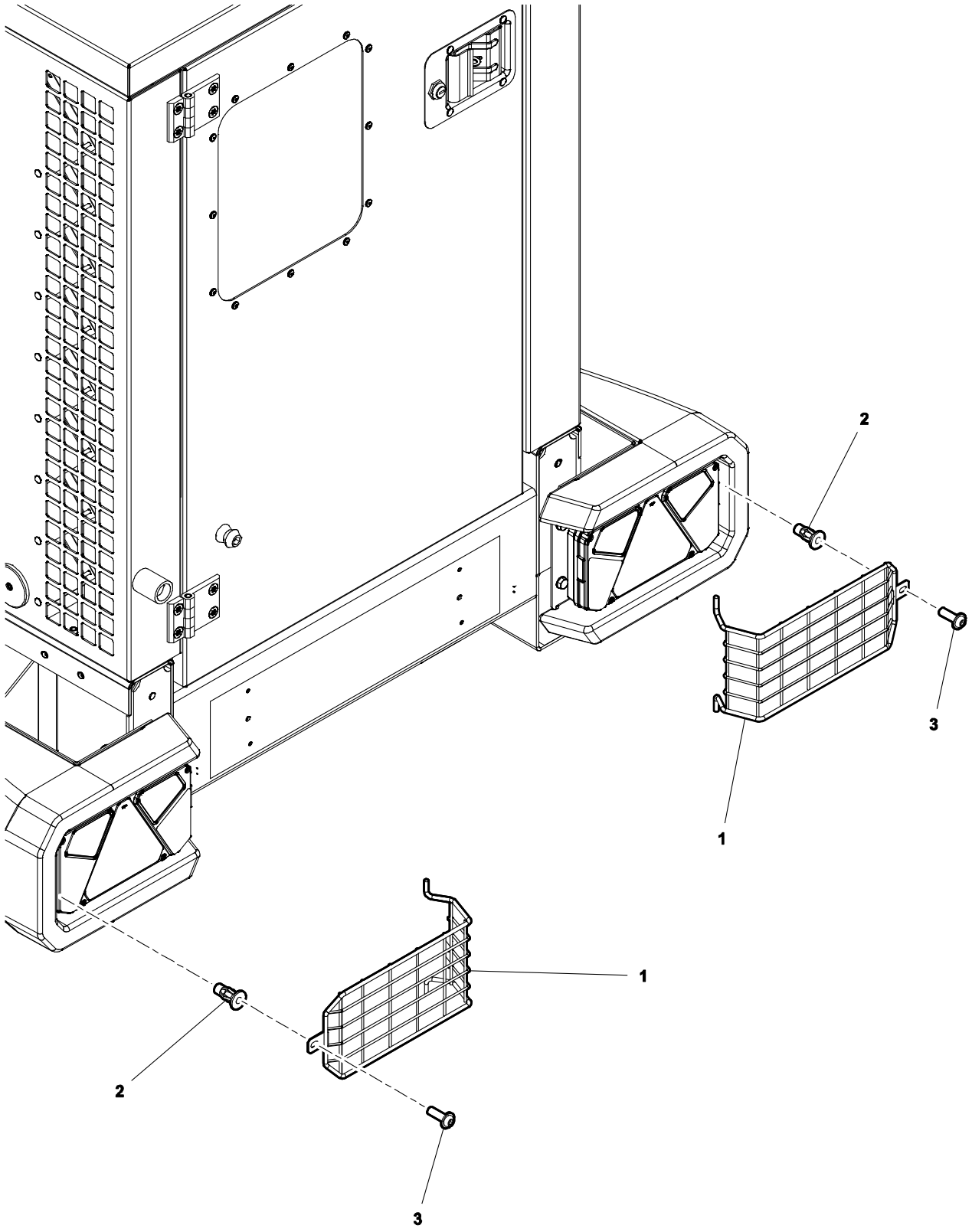
OPTION - NUMBER PLATE CLIPS

(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	92962547	CLIP, NUMBER PLATE			2
2	36794816	RIVET			4

OPTION - REAR LAMPS GRID

(#### ->)



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02/25

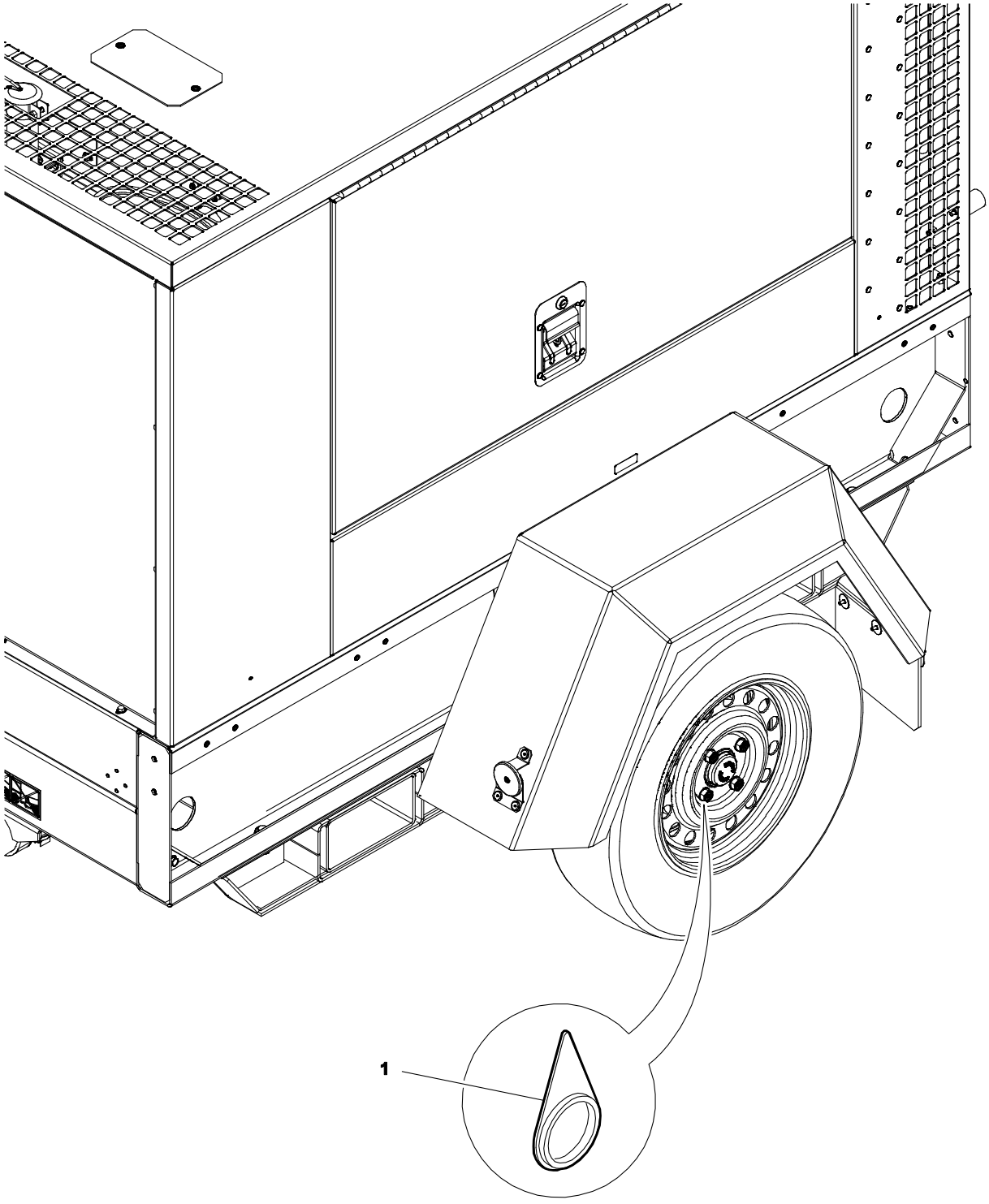
OPTION - REAR LAMPS GRID

(#### ->)

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 - WHEEL NUT INDICATORS

(#### ->)



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02/25

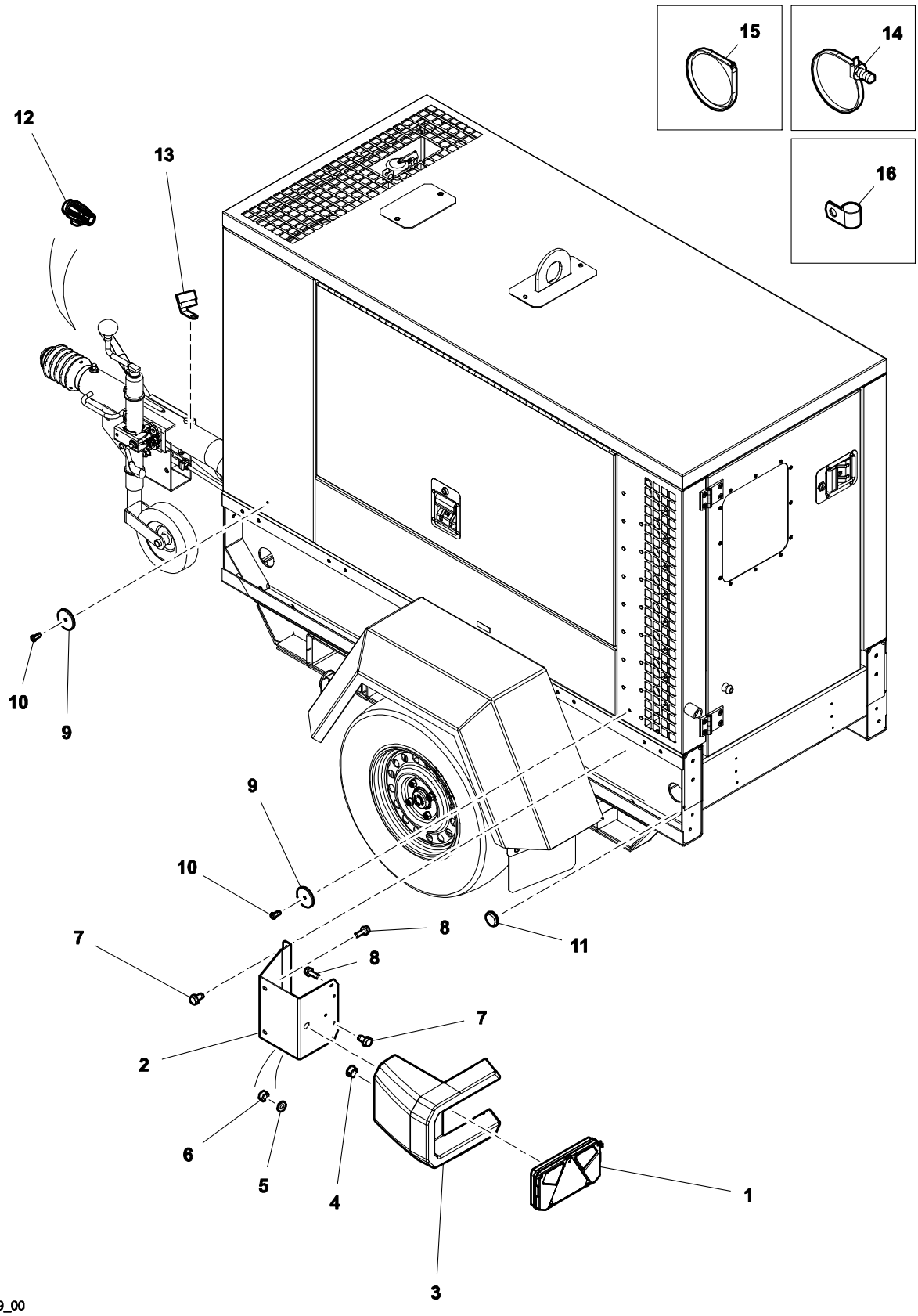
OPTION - WHEEL NUT INDICATORS

(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	23128507	INDICATOR, WHEEL NUT			8

OPTION - ROAD LIGHTS AND BUMPER

(#### ->)



OPTION - ROAD LIGHTS AND BUMPER

(#### ->)

Item	Part Number	Description	Remarks	Serial Number	Qty
1	46826826	LEFT LAMP, REAR			1
1	46826827	RIGHT LAMP, REAR			1
2	46927556	BRACKET, BUMPER	(LH)		1
2	46927557	BRACKET, BUMPER	(RH)		1
3	46827125	BUMPER CORNER ASSEMBLY			2
4	23102387	PLUG			2
5	96727581	WASHER	(M6)		4
6	96704234	NUT			4
7	92972140	SCREW	(M8 x 16)		12
8	36898096	SCREW	(M6 x 20)		8
9	92121243	REFLECTOR, AMBER			4
10	22054498	RIVET			4
11	46830565	GROMMET			2
12	46830028	PLUG, 13-PIN			1
13	46556766	HOLDER, PLUG			1
14	92281427	TIE, CABLE			4
15	35356591	TIE, CABLE			10
16	35222538	CLIP, RETAINING			4


Bobcat

Revision History

Rev.	EC Number	Comments
A	-	Original release

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Czech Republic

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