

CARGO FLOOR USER MANUAL

We would like to introduce to you the right operation of our Cargo Floor system with the help of the following data and we also want to point out to you the steps that you can take to solve malfunctions.

Please read and follow our instructions carefully so that the Cargo Floor system will give you reliable and trouble free service for many years and **health and safety** is secured.

If the Cargo Floor system does not operate at all (or properly) after following the instructions, please do not hesitate to contact your nearest agent, who will with no doubt assist you in solving the problem.

Please pay particular attention to the contents of the "Important recommendations and guidelines" on page 2 and further!

The measurements given in this instruction start with the metric system after which between brackets [0] the US/imperial measurement is mentioned.

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IMPORTANT RECOMMENDATIONS AND GUIDELINES

Before putting the Cargo Floor loading and unloading system into operation, follow the recommendations provided below and check the specified checkpoints to avoid damage to the Cargo Floor system and the vehicle.

Please review the important instructions before operating the Cargo Floor system and loading cargo into the vehicle. Likewise, before loading cargo, check the operation of the various control switches/valves to familiarise yourself with how the system works. We strongly recommend that you perform these checks when picking up the vehicle from the dealer so that your skilled supplier can answer your questions and provide you with any necessary advice or guidance you may require.

Important:

- Always check that the selected loading or unloading direction is actually activated and occurring!!
- If the system fails to start, turn off the Cargo Floor system and the hydraulic pump and follow the recommendations and guidelines provided below. Do not repeatedly try to start the system as this may result in damage to your Cargo Floor system and/or vehicle.
- After use, turn off the Cargo Floor system and hydraulic pump. Set switches to the "0" position and the lever in neutral.

In case of doubt or uncertainty about these recommendations and guidelines, always contact your dealer or an official workshop.

The Cargo Floor system comes standard with an operating manual, but is this has not been supplied, please contact your dealer or download it from the official Cargo Floor website: <u>Cargofloor.com</u>, <u>download</u>.

- A) Always open the vehicle's doors <u>before</u> turning on the hydraulic pump. Note! Build-up of pressure against the doors can open them with force. Also some of the cargo can fall out of the vehicle by itself after opening the doors, therefore KEEP CLEAR AT ALL TIMES, product could fall on top of you! Both could result in damages and/or injuries! It is always advisable to use the pneumatic door lock, if provided.
- B) 1. Check that the vehicle's (quick-detachable) couplings are properly connected to the P (Pressure line) and the T (tank/return line). Also check that the couplings are fully tightened or slid completely into each other.

IMPORTANT: the pressure and return line connectors may not be reversed or exchanged to prevent dirt or water from entering the lines when connecting them!

2. Before connecting, check that the non-return valves can open easily (check: the non-return valves should open easily when pressed with the finger, if not, potential pressure build-up in the hydraulic lines may be preventing the system from starting).

NOTE: Incorrectly connected or unopened hydraulic couplings will cause serious damage to the Cargo Floor system and the vehicle.

- C) The vehicle (pump) must be fitted with a pressure relief valve that is set at the maximum pressure according to the system, see the technical specs. If fitted, check that the dual-function lever (function: tipper/Cargo Floor) is in the Cargo Floor position. Pressure may not exceed the maximum adjusted and allowable operating pressure of the Cargo Floor system. An incorrectly adjusted pressure relief valve can cause damage to the Cargo Floor system and the vehicle.
- D) During operation, the (hand)brake of the vehicle must always be applied. You must, however, move the vehicle forward on time to unload it quickly in order to prevent unnecessary strain and wear to the floor and the vehicle.
- E) Use of a wireless remote control is permitted only if it is fully tested before the start of each loading or unloading operation. Always check if the function you have selected is actually activated and taking place. If, for example, you have accidentally pressed the load function when you actually meant to press the unload function, irreversible damage may occur to the Cargo Floor system and the vehicle.
- F) During operation of the Cargo Floor system, all existing STOP and control knobs/levers must be freely accessible.



- G) The pressure filter element needs to be replaced at least once a year. If the couplings between the vehicle and the Cargo Floor system are regularly removed, it is advisable to check the pressure filter for dirt build-up and replace the pressure filter element more often, if necessary. If provided,
 - also check the return filter (not supplied with the Cargo Floor). Failure to replace a filter element on time may cause damage to or malfunctions in the Cargo Floor system and the vehicle.
- H) Moving parts must be shielded. Always maintain at least 10 meter [30'] distance from the Cargo Floor system when it is in operation.
- In the event of malfunctions/maintenance work, you may approach the Cargo Floor system only if all equipment, including the hydraulic pump, have been shut off, and the Cargo Floor system and the electro-hydraulic aggregate have been disconnected from the power supply and pump.
- J) Regularly check and, if necessary, tighten any loose bolts that secure the aluminium floor profiles to the Cargo Floor system. All such checks can simply be performed inside the vehicle itself by qualified personnel. The Cargo Floor system must, however, be turned on in unloaded condition and the person performing the check must place his finger half on the floor profile and half on the bolt. There should be no appreciable movement/space between the floor profile and bolt. Failure to check these bolts may lead to damage to the Cargo Floor system. During this check, a second person must also be present to switch off the Cargo Floor system.
- K) Check that the minimum required amount of oil is present 150 liter [40 US gallon]. Too little oil in the hydraulic tank will cause damage to both the pump and the Cargo Floor system.
- L) Do not allow the number of strokes to exceed the maximum allowable 16 power strokes per minute. Only a CF500 SLC Power Speed Cargo Floor system may deliver up to 23 beats per minute. A higher number of power strokes can cause damage to the Cargo Floor system and the vehicle.
- M) Hydraulic lines, couplings and hoses with very small diameters will cause damage.
- N) If the Cargo Floor system fails to start or operates incorrectly, the Cargo Floor system and the hydraulic pump must be shut down immediately. Subsequently, check all the checkpoints before switching the pump and the Cargo Floor system back on. To prevent the oil from overheating, regularly check the oil temperature by CAREFULLY and CAUTIOUSLY touching the line and or oil tank. If either is too hot to the touch, stop touching them right away. WARNING: TOUCHING OVERHEATED OIL AND COMPONENTS CAN CAUSE BURNS!
- O) The cause of failure or malfunctioning of the Cargo Floor system may also be due to other hydraulic components that may or may not be connected to the same hydraulic circuit of the Cargo Floor system.
- P) Jamming of the floor profiles caused by the transport of abnormal loads and or the freezing of the floor or of the product to the floor may result in damage to the Cargo Floor system and the vehicle. Recommendation: in the event of freezing, stop the system and try to find a hall (heated area) to allow the product to thaw.
- Q) Because the electrical power supply of the Cargo Floor system is often connected to the lighting circuit of the vehicle, it is advisable to turn on the lighting throughout the operation of the system.
- R) Maintenance and repairs to the Cargo Floor system may be only performed by qualified personnel. Use only original Cargo Floor components to ensure maximum reliability and long service life.
- S) Maximum cargo weight is subject to the limits set by law and applicable regulations. Even if the system can transport heavier loads, the law determines the maximum limit. Excessively heavy cargo can cause damage to the Cargo Floor system and the vehicle.
- T) Check that the correct type and quality of hydraulic oil is used. The use of incorrect oil type may cause damage to the Cargo Floor system and the pump.
- U) Check the vehicle for correct voltage. Make sure there are no open electrical connections. A faulty electrical system can cause damage to the Cargo Floor system and the vehicle.
- V) Check that the bulkhead, if present, is functioning smoothly and properly. A properly functioning bulkhead ensures that the product is unloaded in a clean and quick fashion. A malfunctioning bulkhead may extend the unloading time and cause damage to the vehicle.
- W) Use of the Cargo Floor system by unqualified personnel can cause damage to the Cargo Floor system and the vehicle.
- X) Excessively high oil temperatures will cause damage to the Cargo Floor system and other hydraulic components, such as the pump.

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- Y) It is at all times advisable to stop the Cargo Floor system when all the piston rods are retracted. This is usually the case when the floor profiles are positioned towards the unloading end (vehicle doors). Unretracted piston rods may cause damage to the Cargo Floor system.
- Z) To prevent damage to the floor profiles, exercise caution and limit the dump height as much as possible. The transport of unauthorised goods, such as aggressive, corrosive, hot, hard, sharp and viscous materials may cause damage to the Cargo Floor system and the vehicle. Avoid loading and unloading sharp objects. Loads that are softer than the hardness of the floor profiles will extend the service life of your system; if in doubt, use a protective cloth or consult your dealer.
- AA) Forklift trafficable. In principle, the floors are completely trafficable and can be driven over by forklifts, but always consult your dealer for advice on the maximum loads allowed on your vehicle. Overloading will cause damage to the Cargo Floor system and the vehicle.
- BB) Always return emergency control(s) to their original non-activated position after use.
- CC) During the operation of the system, test the temperature of the oil by touching the side of the tank. If the oil is so hot that you cannot continue to touch the tank, switch off the pump to allow the oil to cool off and determine what is causing the overheating. Stop loading or unloading if the oil is too hot, as this will irreversibly cause damage to the Cargo Floor system and the other hydraulic components.

WARNING: TOUCHING OVERHEATED OIL AND COMPONENTS CAN CAUSE BURNS AND INJURIES!

Option: your Cargo Floor system could be equipped with an oil temperature safety switch which will switch off the system automatically when it starts to overheat.

- DD) During loading and unloading operations, the load should be spread to give an even weight distribution over the floor area, otherwise the load may stall. Tip: when transporting pallets, place softwood boards of 300 x 18 x 2350 mm. [12" x 0.75" x 92.5"] to distribute the pressure more evenly.
- EE) The constant pressing of the load against the head board or the doors can lead to extra wear of the complete system. Also the construction can be damaged. Please consult your supplier about the optimizing possibilities or in order to prevent problems occurring.
- FF) The user/operator/driver that is operating the Cargo Floor system is compelled to remain a safe distance from the Cargo Floor system at all times, from the time of switching on the hydraulic pump until turning it off. He should ensure that no dangerous situations can occur. When the process malfunctions or if other people are present he should shut down the Cargo Floor system, or hydraulic pump, immediately.
- GG) No unauthorized alterations/modifications/changes/adjustments may be made to any part of the Cargo Floor drive unit and system.

WARRANTY

Warranty is subject to <u>prior</u> approval by Cargo Floor B.V.! To request warranty coverage, visit Cargofloor.com to fill out and submit the warranty application form provided there; do not forget to include your Cargo Floor system number on the form.

HEALTH AND SAFETY SHORT LIST

- 1. During operation, the (hand)brake of the vehicle must always be applied.
- 2. Check surroundings, at all times, that no persons, animals or objects are in the direct vicinity of the vehicle.
- 3. Caution when opening the doors. There could be backpressure from the product to the doors which could force the doors to open themselves and injure you, also product could fall on top of you!
- 4. Do not stand behind the trailer or in the discharge area when the floor is operating
- 5. Do not make adjustments to the unloading mechanism with the floor operating
- 6. Do not operate system when protective covers and screens are not in place
- 7. Do not go underneath the trailer when floor is operating
- 8. Do not leave the trailer unattended while the Cargo Floor system is in operation
- 9. Do not hold the conduits these can could be hot
- 10. Disengage the trailer from the PTO hydraulic power unit before service and maintenance
- 11. Stay away from any oil leaks when hydraulic pressure is high
- 12. Turn off the PTO hydraulic power unit before moving the trailer
- 13. Keep clear at all times.

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EMERGENCY STOP

In the event of an <u>EMERGENCY</u>, operation of the Cargo Floor system can be halted as follows:

- By pressing the red stop button on one of the control switches;
- By turning all switches to position "0";
- By putting the handle of the control valve in the middle "0" position (only B and A control);
- Turning off the PTO pump/engine;
- Turning off the main switch of the power supply;
- Turning off the motor of the electro-hydraulic aggregate.

START UP CHECK LIST BEFORE OPERATION (UNLOADING / LOADING)

- 1. Check surroundings, at all times, that no persons, animals or objects are in the direct vicinity of the vehicle.
- 2. Open doors first.
- CAUTION when opening the doors. There could be backpressure from the product to the doors which could force the doors to open themselves and injure you, also product could fall on top of you!
- 3. Check if hydraulic hoses/couplings are connected correctly and firmly (pressure and return).
- 4. Turn on the lights of the trailer
- 5. Check your type of operation: A, B or E? Make sure that all operation controls are in the nonactivated 0 position.
- 6. Turn on the pump
- 7. Determine/choose your required operation: unloading or loading. CAUTION check immediately if your required operation is working correctly. The loading / unloading direction is determined when all the profiles move in one direction together. (Unloading: toward the doors / loading: toward the head board/truck.)
- 8. During unloading it might be necessary to move the vehicle forward to achieve a faster and cleaner unloading.

Remarks!

- Make sure that your unloading / loading spot is long/large enough to move your complete vehicle its full length forward.
- The (hand)brake of the vehicle must always be applied.

General

STICKERS

This WARNING STICKER/DECAL has been supplied with the drive unit in two fold. It should be attached near the control box and on the rear door in such a way that it is easy to read.



STICKERS/DECALS ON THE TRAILER



or

Β

White/transparent

Black/ transparent



HORIZONTAL LOADING-/UNLOADINGSYSTEM Only Quality generates Quality!™

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STICKERS/DECALS ON THE CONTROL BOX, ONLY WITH B- AND E-CONTROL



STICKERS/DECALS ON THE SWITCHES

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<u>D</u>

STICKERS/DECALS ON THE SIDE OF THE TRAILER, NEAR THE DRIVE UNIT



Only A + B-control





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HOW TO CHECK THE CHOSEN LOADING/UNLOADING FUNCTION

UNLOADING

<u>The complete surface</u> of the floor moves simultaneously towards the open rear doors of the trailer. The 3 individual movements go the opposite way (towards the front headboard of the trailer).



LOADING

<u>The complete surface</u> of the floor moves simultaneously towards the front headboard of the trailer (direction of the truck).

The 3 individual movements go the opposite way (towards the open rear doors of the trailer).





MODULAR OPERATING POSSIBILITIES

Thanks to its modular construction, the following operative versions of the Cargo Floor Floor moving floor[®] system are possible (also retrofittable):





A-control with loading / stop / unloading over a manual handle, with unique **"S" detent** mechanism in order to determine loading / stop / unloading position. (Non-electrical.)

B control





B-control with loading / stop / unloading over a manual handle, with unique **"S" detent** mechanism in order to determine loading / stop / unloading position. on / off switching over a switch. As a standard provided with a manual override by means of a unique red "Cargo" rotary switch. (Optional: radio remote control.)

STANDARD

E control



Manual override by means of a unique red "Cargo" rotary switch.

E-control with loading / stop / unloading over a switch

As a standard provided with a manual override by means of a unique red "Cargo" rotary switch. (Optional: radio remote control.)





OPTION





WET KIT INFORMATION

This wet kit is designed to be used with most transmissions. Power Take Off (P.T.O.) specifications may vary with some transmissions. Please check with your supplier for specific applications.

The wet kit used to power the Cargo Floor system must comply with the following specifications:

	CF5	00 SLC	CF1	00 SLC	CF5 Powe	00 SLC er Speed	CF: A	3 LP-2 or B	CF	3 LP-2 E	C	F800
Advised pump capacity (l/min [gpm])	110	[29]	70	[18]	180	[48]	130	[34]	130	[34]	110	[29]
Max. Pump capacity (I/min [gpm])	130	[34]	80	[21]	200	[53]	170	[45]	130	[3]	130	[34]
Max. Pressure relieve valve *bar [psi]	250	[3,625]	200	[2,900]	250	[3,625]	175	[2,538]	175	[2,538]	250	[3,625]

*Pressure relieve valve must have the ability to relieve the full pump flow at the maximum pressure for the system.

PRINCIPLE WET KIT DIAGRAM



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Pump: All gear pumps regardless of make or model should be "run in" as per manufacturer's recommendations before connecting to the trailer for the first time.

Return filter: Filter should be 10 to 30 micron on the return line. Filter should be mounted as close to the reservoir as possible. Return filter elements should be changed after 6 hours initially and every 6 months thereafter.

Hydraulic Reservoir: Should hold approximately 1 liter [1 gallon] of oil for every liter [gallon] per minute of pump output. (110 l/min [29 gpm] pump = minimum 110 liter [29 gal] reservoir)

Suction line: Hydraulic suction line with a 50 mm [2"] inside diameter, not more than 1500 mm [5'] long **Pressure line**: All pressure lines should be minimum diameter of 20x2 mm [3/4"]

Return line: all hoses and lines should be a minimum diameter of 25x2 mm [1"]

Pressure relief valve: Must be pilot operated type, and sized correctly for the system. See wet kit specification.

Hydraulic recommendations

- 1. Use ISO 22 grade oil if the minimum operating temperature is between -25 and 0 °C [-13 and 32 °F].
- 2. Use ISO 32 grade oil if the minimum operating temperature is between -15 and 30 °C [5 and 86 °F].

3. Use ISO 46 grade oil if the operating temperature range is between 15 and 40 °C [59 and 104 °F]. Note: The suggested maximum viscosity value for start-up is 1000 cSt.

Temperature below -25 [-13 °F] degree Celsius

Use the following warm up procedure in temperatures below -25 degrees Celsius [-13°F]:

- 1. Set the operation handle for unload (1) 0 load (2) in the middle 0-position
- 2. Circulate the oil for a few minutes to preheat it and lower its viscosity.

Less than -25 °C [-13°F]	-25 - 0 °C [-13 – 32 °F]	-15 - 30 °C [5 – 86 °F]	15 - 40 °C [59-104 °F]
Warm up	ISO 22	ISO 32	ISO 46

HYDRAULIC START-UP CHECK LIST FOR THE CARGO FLOOR SYSTEM

Before starting your new Cargo Floor (un)loader, a quick start-up check should be made

- 1. Hydraulic: is your entire system plumbed to the plumbing diagram?
- 2. *Pump: Will it pump the advised flow at the maximum pressure according to the system?
- 3. *Relief Valve: is it set at the maximum pressure according to the system?
- 4. **Hydraulic reservoir**: Is it big enough and filled?
- 5. Power Take Off: Is the P.T.O. engaged?
- 6. **Hoses**: Is the pressure line on the trailer attached to the pressure line on the tractor and the return line on the trailer attached to the return line on the tractor?
- 7. Quick Disconnects: are these suitable and connected the right way?
- 8. **Controls Cargo Floor**: Operation handle unload (1) 0 load (2) in position 0?

*If the information about your pump and relief valve is not known, a pressure/flow check will help determine this information. Be sure that your entire wet kit system meets the requirements of the hydraulic wet kit specifications in this manual.



IDENTIFICATION PLATE

Attention! With all communications we will ask for the system number. Fill out your system number here to have it present at all times:.....





CARGO FLOOR TECHNICAL SPECIFICATIONS

	CI	F500 SLC	CI S	=100 SLL	CI Powe	=500 er speed	CF3 (Leal	B LP-2 k Proof) of B	CF3 (Lea	B LP-2 k Proof) E	C F	F800 ID-6
Bore (mm [inch])	100	[3.9]	80	[3.15]	100	[4]	125	[4.9]	125	[4.9]	100	[3.9]
Piston rod diameter (mm [inch])	45	[1.77]	35	[1.38]	45	[1.77]	60	[2.35]	60	[2.35]	50	[2]
Stroke (mm [inch])	200	[8]	150	[5.9]	200	[8]	150	[5.9]	150	[5.9]	200	[8]
Cylinder volume ltr. [gallon]	2,82	[0.7]	1,36	[0.4]	2,82	[0.75]	3,26	[0.9]	3,26	[0.9]	5,5	[1.5]
Oil volume per cycle (ltr. [gallon])	8,5	[2.2]	4,09	[1.1]	8,46	[2.25]	9,77	[2.6]	9,77	[2.6]	16,5	[4.4]
Pressure relief valve setting, max. pressure (bar [psi])	225	[3,263]	175	[2,538]	225	[3,300]	150	[2,175]	150	[2,175]	225	[3,300]
Strokes per minute with advised pump capacity		13		17		21		11		11		6,6
Speed (mtr. / min [ft./min]) with advised pump capacity	2,6	[8.5]	2,6	[8.5]	4,2	[13.8]	1,7	[5.6]	1,7	[5.6]	1,3	[10]
Advised pump capacity:												
Flow (Itr./min [gpm]	110	[29]	70	[18.5]	180	[47.6]	130	[34]	130	[34]	110	[29]
Pressure (bar [psi])	250	[3,625]	200	[2,900]	250	[3,625]	175	[2,538]	175	[2,538]	250	[3,625]
Max. pump capacity:												
Flow (ltr./min [gpm])	130	[34.5]	80	[21]	200	[52.8]	170	[45]	130	[34]	130	[34.5]
Pressure (bar [psi])	250	[3,625]	200	[2,900]	250	[3,625]	175	[2,538]	175	[2,538]	250	[3,625]
Speed at maximum												
pump capacity	3,1	[10]	2,9	[9.5]	4,7	[15.4]	2,6	[8.5]	2,1	[9.8]	1,6	[5.2]
(mtr. / min. [ft./min])												

Solenoid/coil; 24V DC only E and B control (optional available 12 V DC) Pressure filter type; high-pressure 10 micron

ESTIMATED UNLOADING TABLE

Specifications for a Cargo Floor CF500 drive unit with 100 mm [3.9"] bore cylinders.

Engine	Pump output	speed*	Unloading time 13.6 mtr [45 ft] trailer
550 RPM/m [rpm]	60 l/m [15 g/min]	1.4 m/min [4.6 ft/min]	9-10 minutes
750 RPM/m [rpm]	80 l/m [21 g/min]	1.9 m/min [5.9 ft/min]	7-8 minutes
1000 RPM/m [rpm]	110 l/m [29 g/min]	2.6 m/min [8.5 ft/min]	5-6 minutes

These only are approximate meters per minute and should strictly be used as a reference!

MAINTENANCE INSTRUCTIONS

When works require turning on the floor you should take care of that the floor can be shut down immediately at any time. Places where clamping/clasping of body parts is possible may not be approached when the system is moving.

For more detailed explanation of the execution of the works we would like to refer you to our website: <u>www.cargofloor.com</u>.

Check for the end user / owner after receipt of the new Cargo Floor trailer

Check a couple of days after receipt of the new trailer and / or after 10 loads / unloads and after one month the connection between the aluminium floor profiles and the Cargo Floor system. You do this by placing your finger half on the screw and half on the floor profile when the floor is operating. Important: if you feel a difference in movement between the screw and the floor profile it means the floor profile is not fastened enough. The screw connection of the whole profile group this concerns needs to be renewed with new screws in accordance to the fastenings guidelines mentioned in the assembly instructions (see www.cargofloor.com, downloads). Also the countersunk hole needs to be cleaned properly. Do not check the screw connections with the help of an Allen key and do not simply just tighten the screws, the Loctite connection will be broken.

M12 x 30 countersunk screws with hexagon socket, class 10.9 galvanized. DIN 7991 (dacromet) The torque is 100 - 140 Nm [72-105 lbf.ft.]

Regular checks and preventive maintenance

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To ensure that your Cargo Floor system operates reliably and has a long life, it is important that you regularly perform careful checks on the following aspects:

- Replace the filter element every year, or more often if needed. By removing the filter lid/chamber you can check the filter element,
- Change the oil every 2 years, or more frequently if required;
- The level of oil in the tank. See for oil levels and the oil specifications the technical specifications.
- Floor profiles: are they still fixed, replace screws if necessary!
- Check the guide blocks for the 3 piston rods for wear
- Check the coupling nuts and couplings of all hydraulic components, and adjust if necessary!
- Oil tank: by taking the lid off the tank, you can remove any remains (condensation, dirt etc.) from the bottom.
- Check the seal between the two fixated floor profiles and the moving profiles. If a margin exists inbetween, then adjust the fixated floor profiles, in order for the sealing to be optimal and leakage via the side walls is prevented
- Clean the floor.

This is all necessary to avoid internal wear (of the pump/cylinders etc., for example).

New filter parts are available at your system builder. For the right type we refer you to our "exploded views" which you can find on our website: <u>www.cargofloor.com</u>, downloads.

We want to emphasize that the minimal costs of replacing dirty parts or oil do not match the costs and discomfort that can arise.



ADJUSTMENT OF THE THREADED ROD OF THE CONTROL VALVE

Front side trailer

Rear side trailer



All Cargo Floor systems have the threaded rod set and are fully tested. You therefore do <u>not</u> need to adjust the threaded rod, but in certain circumstances (f.e. certain repairs) it may be necessary to check or adjust the setting of the threaded rod. If switching spontaneously doesn't go normally anymore, then please make a good assessment first why this has happened.

Attention:

The pump and electrical installation must always be switched-off when working on the system; in addition, the hoses and/or pipelines between the pump and the Cargo Floor should also be disconnected.

If not the risk of entrapment arises!!!

Necessary tools:

2x spanner 17; High viscosity oil; Copper grease; Steel brush.

Check that the threaded rod (1) is fastened securely to the switching valve, with pressing and pulling the stroke is exactly 12 mm. [0.5"].

If not, then screw the threaded rod (1) as far as possible into the plunger and secure this with the contra nut (2) (spanner size 17). Loosen nuts (3 and 4, spanner size 17) and move these about 3 cm [1.25"] in the direction of the rear of the trailer.

Now switch the pump on while you are at a safe distance. The system will start to move and stops automatically at the point where the command lip (7) no longer operates the switching valve, because the spring (8) is no longer pushed. Switch off the pump immediately.

Now push the threaded rod (1) in the direction of the rear of the trailer until the spacer ring (9) touches the control valve.

Tighten nuts (3 and 4) so far in the direction of the front side of the trailer that the spring is fully pushed in, and secure them by tightening them against one another. Repeat this procedure for the other side (nuts 5 and 6) by doing everything in opposite directions.

N.B. It is worthwhile spreading some copper grease on the threaded rod (1).

Unly Quality generates Quality! WARRANTY CONDITIONS

Warranty shall only be given with the prior consent of Cargo Floor B.V.! With warranty requests always fill in and send a warranty request form to Cargo Floor B.V. beforehand. You can fill in a request for warranty simply on our website: <u>www.cargofloor.com</u>, <u>service</u>.

The warranty conditions, as specified in the most recent "Metaalunie" conditions, filed with the registrar of the District Court of Rotterdam, are applicable in unabbreviated form. On request available.

A short extract of these conditions follows:

E CARGO FLOOR

A warranty period of 12 months (starting directly after installation) applies for all Cargo Floor system materials supplied by us. In the case of malfunction and/or manufacturing faults we are only responsible for the costless supply of replacement parts, if:

The warranty period is for the first equipment owner only

The Cargo Floor system is installed by your trailer builder according to our installation procedures Our maintenance and control procedures have been followed

In the case of a malfunction, the system builder, or Cargo Floor have been informed

The following components are not covered by the warranty:

- Malfunction of equipment, or caused by equipment, which was not supplied by Cargo Floor B.V.
- Malfunction caused by the use of dirty oil, or oil of the wrong type
- Malfunction caused by overheated oil, T. max. \leq 100 °C [212 °F]
- Malfunction caused by overloading or injudicious use
- Malfunction caused by improper repair work, or repair work which is carried out by third parties
- Malfunction caused by corrosive materials
- Filter elements and components, which are subject to normal wear-and-tear and are not warranty items
- Defects in electrical components due to incorrect connection and/or incorrect voltage levels
- Consequential damages

The warranty is void if:

- The system is used for purposes, which have not been recommended Cargo Floor B.V.
- The wet kit is not as recommend in the Cargo Floor manuals
- The Cargo Floor system is not installed properly
- Load in excess of legal limit are moved as defined in Cargo Floor manuals and operating instructions.
- The Cargo Floor system has not constructed correctly by your trailer builder, insofar as this has a negative influence on the operation of the system.

Cargo Floor B.V. hereby warrants, only to the first owner of a new Cargo Floor unloader from the factory or selling distributor, that the Cargo Floor hydraulic parts and hydraulic components shall be warranted as free from defects in material and workmanship for a period of 12 months year to the first registered owner from the date of the sale.

This warranty does not cover normal wear and tear, maintenance, or heat damage. It is not to be construed as a service contract.

Note: Prevention of excessive heat in the hydraulic system is the single most important factor for long system life. Bad pumps, improper wet kits and hydraulic restrictions cause excessive heat and will damage the hydraulic system. Heat damage will void the warranty.



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Definition of normal use and service:

Normal use and service means the loading and/or unloading of uniformly distributed, non-corrosive material, properly restrained and secured, on properly maintained public roads, with gross vehicle weights not in excess of factory rated capacity.

Sole and exclusive remedy:

If the product covered hereby fails to conform to the above stated warranty, Cargo Floor B.V. sole liability under this warranty and the owner's sole and exclusive remedy is limited to repair or replacement of the defective part(s) at a facility authorized by your dealer or Cargo Floor B.V.. This is the owner's sole and exclusive remedy for all contract claims, and all tort claims including those based on the strict liability in tort and negligence. Any defective part(s) must be shipped freight prepaid to your dealer who will contact Cargo Floor B.V.

Except as expressly set forth above, Cargo Floor B.V. makes no warranties:

Express, implied or statutory, specifically: No warranties of fitness for a particular purpose or warranties of merchantability are made. Further, Cargo Floor B.V. will not be liable for incidental damages or consequential damages such as, but not limited to, loss of use of the product, damage to the product, towing expenses, attorney's fees and the liability you may have in respect to any other reason.

Tort disclaimer:

Cargo Floor B.V. shall not have any liability in tort with respect to the products, including any liability based on strict liability in tort and negligence.

If this warranty violates law:

To the extent any provision of this warranty, contravenes the law of any jurisdiction, that provision shall be inapplicable in such jurisdiction and the remainder of the warranty shall not be affected thereby.



Technical user manual

A-CONTROL

Control with loading / stop / unloading over a manual handle, with unique "S" detent mechanism in order to determine loading/stop/unloading position. <u>Non electrical.</u>



Systems fitted with A-control do <u>not</u> include any electrical operation. The system will begin to move depending on the position of the operation handle on the control valve. The handle should be positioned, before and after using the Cargo Floor, in the position stop (0) if the handle is in the position 1 or 2 the system immediately starts to move when the pump/ PTO is activated.

LOADING – UNLOADING FUNCTION

PRECHECK! BE CAREFUL

BE CAREFUL: when starting the pump/pto the floor could start moving immediately!

In certain configurations the functions can be different from the standard situation as described below. It is therefore very important to always test your configuration first without a load. After use always return the controls to the non-activated 0 position.

The position of the handle:

1 handle pushed in; floor will unload

- **0** handle in the middle position; floor stops
- 2 handle pulled out; floor will load





HYDRAULIC CIRCUIT DIAGRAM A-CONTROL





TROUBLESHOOTING A-CONTROL VALVE

In the event of the failure of the Cargo Floor system to operate (in the correct manner) when used in accordance with the operating instructions carry out the following checks:

Malfunction system	Concerns part	Cause	Solution
1.Does not operate	PTO	Not switched on	Switch on PTO
No oil flow control	Quick coupling	Blockade	Check couplings / mount
valve			correctly
2. Does not operate	Pressure control	Polluted	Clean / replace, attention:
There is oil flow	valve		do not open the pressure
control valve			control valve in parts
	Operating handle	Is in the middle position	Move the handle in the
			direction of
			loading/unloading
3. Individual	Pressure control	Tipper valve	Turn tipper valve in correct
movement is	valve		position
difficult and/or		Pressure control valve	Measure max. pressure/
incorrect with a full		pulling vehicle max.	adjust pulling vehicle
trailer		pressure too low	
		Return oil has	Measure pressure M2,
		restrictions	remove restrictions
	Capacity of the	Too much load	Unload part of load with
	system is		crane
	insufficient.	Pollution between the	Clean
		Floor profiles	- -
		Frost	Thaw
4. Individual	Valve in cylinder	Pollution prevents a	Remove pollution
movement is	nead 1 or 2		Deplese environ
Incorrect when	Value east in	Broken valve spring	Replace spring
With a full and empty	valve seat in	valve seat has loosened	Replace / fasten valve seat
trailor			
trailer	Common rail	Stop in the common rail	Fasten ston / replace
	cylinder rod side	has loosened	common rail
		Common rail mounted	Mount common rail
		the wrong way around	correctly
5. Switching is	a. Threaded rod	Adjustment incorrect	Adjust correctly, attention:
difficult or goes not			determine cause. See: b.
at all. 3 Cylinders			and c.
are fully retracted or		Switching spring broken	Replace spring, attention:
fully out.			determine cause. See: b.
			and c.
	b. Switching	Stroke > 12 mm. [0.5"] -	Screw in threaded rod / bolt
	plunger	> threaded rod loose,	fully.
		spacer loose	
	c. moving cross	Slanting caused by loose	*Replace screws and
	member	profiles	provide them with a thread
			locking product and check
			the rod bearing.
	d. Switching choke	Polluted	* Clean choke
6. Other	Please contact your	trailer builder or Cargo Floo	r, keep the system number at
malfunctions	hand.		

*Contact your trailer builder or Cargo Floor B.V. for a repair advise.



Technical user manual

B-CONTROL

Control with loading / stop / unloading with a manual handle, with unique "S" detent mechanism in order to determine loading / stop / unloading position. On / off switching with a switch.

As a standard provided with a manual override by means of a unique red "Cargo" rotary switch.



LOADING – UNLOADING FUNCTION



PRECHECK!

BE CAREFUL: when starting the pump/pto the floor could start moving immediately!

In certain configurations the functions can be different from the standard situation as described below. It is therefore very important to always test your configuration first without a load. After use always return the controls to the non-activated 0 position.

The position of the handle:

- 1 handle pushed in: floor will unload
- **0** handle in the middle position; floor stops
- **2** handle pulled out; floor will load





FUNCTION OF B-CONTROL SWITCHES

CF 4 SWITCH (MAIN CONTROL)

The standard supplied remote control CF4, with 10 meter [30'] of cable, is used for the day-to-day control of the system. After you have manually put the handle in the loading / unloading function, the moving floor system can turned on / off by using the electrical switch. The CF4 switch has the following functions:

Red STOP button

Push in for an immediate STOP. Deactivate by turning.



The CF4 switch has a plug connector, which can be inserted into the connector of the CF3 switch and screwed tight.

To disconnect this, the duct must be unscrewed, after which the plug can be pulled out. Normally, this plug should always be connected to the connector.

CF3 SWITCH

The CF3 switch is the permanent switch which is mounted in the control box and has 3 switch positions with the following functions:







When turned left or right, it will start the floor and when released it will automatically return to the 0 position

In the interest of safety this switch is fitted with an automatic spring-back for position I and II, so that it always returns to "0" position. This is necessary to prevent conflict situations arising when using the CF4 remote control.

Mounted below the CF3 switch, is a connector to which the CF4 switch or the RX RECEIVER can be connected without the need for any adjustments. Normally, the CF3 switch should only be used if the CF4 switch is defective.

If, after the initial assembly, the switch does not work it is probably because the connections for the + (brown) and the – (blue) have been swapped around. The supply cable contains a blocking diode which prevents damages arising from the + and - from being connected in reverse.

A 2 Amp fuse has been mounted in the CF3 switch. Never mount a fuse over 3A, this can cause damage to the electrical installation.



A wireless remote control set (TX RX) is available as an option for the E- and B-controlled moving floor systems. The remote control can easily be built into new and existing Cargo Floor systems afterwards. This set is supplied plug and play.

In a B-controlled system, the wireless remote control replaces the CF4 wired remote control.

Optionally, a radio remote control is available, which is provided with:

RECEIVER

The receiver is equipped with a connecting cable with a 4-pole plug for the Cargo Floor system. This plug fits in the 4-pole socket CF3 / CF7.

REMOTE CONTROL (CF TX) TRANSMITTER

Switching the remote control on/off The I/O switch on the back of the remote control interrupts the power supply from the battery. This switch must be turned on only <u>once</u>.

The remote control for B-controlled Cargo Floor systems.

If you have a Cargo Floor system with B-control, you can remove the E sticker from the control and replace it with the B sticker.

CF-TX It is has three buttons, which work as follows:

Button 1 (ON PULSE as pulse contact). By pressing this button the system will switch on, by releasing it the system will switch off.

Button 2 (ON HOLD as hold contact). By pressing this button the system will switch on, by pressing it again will deactivate the system (or press the stop button 3 to stop).

Button 3 (Stop). Stops the system.

REPLACING REMOTE CONTROL BATTERIES

Remove the back of the remote control by unscrewing the 5 screws. Replace the 2x 1.5 V AAA batteries. Use alkaline batteries for optimal performance. Screw the back of the remote control back into place.



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MANUAL OVERRIDE

In the event of a <u>malfunction in the electrical</u> system the electric valve can still be operated by activating the manual override fitted for that purpose.

MAKE SURE THAT THE DOORS ARE OPEN!

When using this manual override you must always ensure that it is after use always deactivated to the original non-activated position.

Activation of the manual override: ON

Remove the yellow security clip and turn in (clockwise) the red button on top of the on/off GS02 solenoid till the stop. The system will switch "on" when the operation handle is in the load or unload position.

Deactivation of the emergency controls: ON

Turn out (counter clockwise) the red button on top of the GS02 solenoid until the click and place back the yellow security clip. The system switches "off".





ELECTRICAL CIRCUIT DIAGRAM B-CONTROL



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HYDRAULIC CIRCUIT DIAGRAM





TROUBLESHOOTING B-CONTROL

In the event of the failure of the Cargo Floor system to operate (in the correct manner) when used in accordance with the operating instructions carry out the following checks:

Malfunction system	Concerns part	Cause	Solution
1.Does not operate	PTO	Not switched on	Switch on PTO
No oil flow control	Quick coupling	Blockade	Check couplings / mount
valve			correctly
2. Does not operate	Switch	Stop operated	De-activate stop
There is oil flow control	Solenoid valve GS02	Interruption wiring	Activate override GS02
valve	on/off	Interruption in coil	temporarily and/or repair power
			supply
	Oil temperature	Interruption solenoid due	Let the oil cool down.
	switch	to overheating	
	Pressure control	Polluted	Clean / replace the pressure
	valve		control valve. Attention: do not
			open the pressure control valve
			in parts
	Operating handle	Is in the middle position	Move the handle in the direction
			of loading/unloading
3.Starts immediately	Switch CF3	Switch movement blocked	Remove blockade
after switching on the		in the on position	
РТО	GS02 on/of	Manual override activated	De-activate manual override, put
			yellow security clip back in place
	Hoses connected	Pressure and return	Check filter first, then connect
	reversed	hoses where swapped	pressure and return correctly.
4. Individual	Pressure control	Tipper valve	Turn tipper valve in correct
movement is difficult	valve		position
and/or incorrect with		Pressure control valve	Measure max. pressure/ adjust
a full trailer		pulling vehicle max.	pulling vehicle
		pressure too low	
		Return oil has restrictions	Measure pressure M2, remove
		· · · ·	restrictions
	Capacity of the	I oo much load	Unload part of load with crane
	system is insufficient.	Pollution between the	Clean
		floor profiles	T
		Frost	Thaw Development of the
5. Individual	valve in cylinder	Pollution prevents a good	Remove pollution
movement is	nead 1 or 2		Dealace enrice
Incorrect when	Makin anat in	Broken valve spring	Replace spring
	valve seat in	valve seat has loosened	"Replace / fasten valve seat
trailer	Cylinder nead 1 of 2	Stop in the common roll	Fastan atan / rankasa samman
	common rail cylinder	Stop in the common rall	rasten stop / replace common
		Common roll mounted the	Mount common roll correctly
		wrong way around	Mount common rail correctly
6 Switching is	a Threaded rod	Adjustment incorrect	Adjust correctly attention:
difficult or goes not	a. Threaded fou	Adjustment incorrect	determine cause. See: h and c
at all 3 Cylinders are		Switching spring broken	Replace spring, attention:
fully retracted or fully		Switching spring broken	determine cause. See: b and c
out.	b. Switching plunger	Stroke > 12 mm [0.5"] ->	Screw in threaded rod / bolt
		threaded rod loose.	fully.
		spacer loose	
	c. moving cross	Slanting caused by loose	*Replace screws and provide
	member	profiles	them with a thread locking
		.	product and check the rod
			bearing.
	d. Switching choke	Polluted	* Clean choke
7. Other	Please contact your tra	ailer builder or Cargo Floor, k	eep the system number at hand.
malfunctions			

*Contact your trailer builder or Cargo Floor for a repair advise.



E-CONTROL

Control with loading / stop / unloading over a switch. As a standard provided with a manual override by means of a unique red "Cargo" rotary switch.

CONTROL VALVE





PRECHECK!

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BE CAREFUL: when starting the pump/pto the floor could start moving immediately!

In certain configurations the functions can be different from the standard situation as described below. It is therefore very important to always test your configuration first without a load. After use always return the controls to the non-activated 0 position.

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CF8 SWITCH (MAIN CONTROL)

The standard supplied remote control CF8, with 10 meter [30'] of cable, is used for the day-to-day control of the system. The CF8 switch is fitted with the following functions:



The CF8 switch has a plug connector, which can be inserted into the connector of the CF7 switch and screwed tight.

To disconnect this, the duct must be unscrewed, after which the plug can be pulled out. Normally, this plug should always be connected to the connector.

CF7 SWITCH

The CF7 switch is the permanent switch which is mounted in the control box and has 3 switch positions with the following functions:



When turned left or right, it will start the floor and when released it will automatically return to the 0 position

In the interest of safety this switch is fitted with an automatic spring-back for positions I and II, so that it always returns to the central "0" position. This is necessary to prevent conflict situations arising when using the CF8 remote control. Mounted below the CF7 switch, is a connector to which the CF8 switch or the RX RECEIVER can be connected without the need for any adjustments. Normally, the CF7 switch should only be used if the CF8 switch is defective. If, after the initial assembly, the switch does not work it is probably because the connections for the + (brown) and the – (blue) have been swapped around. The supply cable contains a blocking diode which prevents damages arising from the + and - from being connected in reverse.

A 2 Amp fuse has been mounted in the CF7 switch. Never mount a fuse over 3A, this can cause damage to the electrical installation

A wireless remote control set (TX RX) is available as an option for the E- and B-controlled moving floor systems. The remote control can easily be built into new and existing Cargo Floor systems afterwards. This set is supplied plug and play.

In a E-controlled system, the wireless remote control replaces the CF8 wired remote control.

Optionally, a radio remote control is available, which is provided with:

RECEIVER

The receiver is equipped with a connecting cable with a 4-pole plug for the Cargo Floor system. This plug fits in the 4-pole socket CF3 / CF7.

REMOTE CONTROL (CF TX) TRANSMITTER

Switching the remote control on/off

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The I/O switch on the back of the remote control interrupts the power supply from the battery. This switch must be turned on only <u>once</u>.

The remote control for E-controlled Cargo Floor systems.

It is has three buttons, which work as follows:

Button 1 (load). By pressing this button the system will load, by releasing it the system will stop.

Button 2 (unload). By pressing this button the system will unload. Pressing this button again will stop the system (or pressing button 3, stop).

Button 3 (stop). Stops the system.

REPLACING REMOTE CONTROL BATTERIES

Remove the back of the remote control by unscrewing the 5 screws. Replace the 2x 1.5 V AAA batteries. Use alkaline batteries for optimal performance. Screw the back of the remote control back into place.



I/O switch







MANUAL OVERRIDE

In the event of <u>a malfunction in the electrical</u> system the electric valve can still be operated by activating the manual control fitted for that purpose.

MAKE SURE THAT THE DOORS ARE OPEN!

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When using this manual override you must always ensure that it switched back to the original, NON-ACTIVATED condition after use.

Activation of the manual override: ON

🗄 CARGO FLOOR

Remove the yellow security clip and turn in (clockwise) the red button on top of the on/off GS02 solenoid till the stop.

Deactivation of the manual override: ON

Turn out (counter clockwise) the red button on top of the GS02 solenoid until the click and place back the yellow security clip. The system switch "off".



Activate

Activation of the manual override control loading (floor will only be able to load):

Screw the black cap off (pay attention to the O ring). Turn out (counter clockwise) the screw under the cap of the load / unload G02 till the stop.

Deactivation of the manual override loading:

Turn <u>in</u> (clockwise) the screw under the cap of the load / unload G02 till the stop. Screw the black cap back on (pay attention to mounting the O ring).



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E-control

HYDRAULIC CIRCUIT DIAGRAM



<u>CHOKE</u>

If the E-controlled Cargo Floor system will be operated by different types of pumps or a pump with a low oil flow, it could be that you have to pay attention to mount another type of choke.



The shading points out the reach of the standard choke.

<u>Choke</u>

There is a standard 6,5 mm [0.26"] choke mounted as standard in the PB channel of the E control valve. This allows the E control valve to function correctly. This standard choke is suitable for an oil flow level of 60 to 110 litres per minute [16 to 29 gpm]. The function of the control valve can be affected by a deviation from this oil flow level. The oil flow diagram shows which level of oil flow is required by which opening. Adjustment of this is possible by simply changing the diameter of the choke. Known consequences of a wrong choke diameter are:

- Oil flow too low: load/unload operational plunger is not switching, system gets pressure less;
- Oil flow too high: noise in system, high heat dissipation and capacity loss.

Flow independent choke

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As an option a flow independent choke can be supplied (variable choke article number 7370106). The standard mounted choke can simply be changed with these. You remove the socket plug out of channel PB (Allen key 12 mm). After this you screw the choke out of the channel with Allen key 12 mm Screw the new variable choke in the channel and fasten these by hand (about 15 Nm [11 lbf/ft.]). Screw the socket plug back into channel PB (Allen key 12 mm) and fasten these by hand (about 15 Nm [11 lbf/ft.]). Let the floor run (loading and unloading) in order to check if everything is functioning well and no leakage occur. The variable choke has a flow range of 20-120 ltr./min [5-31 gpm] $\pm 10\%$ using a VG32 and is suitable for a maximal work pressure of 225 bar [3300 psi].

Important!

Connecting pressure and return wrongly will cause a malfunction, and damage to, the system.

B-control

Another possibility to be independent from a variable oil flow is using a B-control. With this the loading/unloading direction is determined by a handle.

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TROUBLESHOOTING E-CONTROL

In the event of the failure of the Cargo Floor system to operate (in the correct manner) when used in accordance with the operating instructions carry out the following checks:

Malfunction system	Concerns part	Cause	Solution
1.Does not operate	PTO	Not switched on	Switch on PTO
No oil flow control	Quick coupling	Blockade	Check couplings / mount
valve		-	correctly
2. Does not	Switch	Stop operated	De-activate stop
operate	Solenoid valve	Interruption wiring	Activate manual override
I here is oil flow	GS02 on/off	Interruption in coll	GS02 temporarily and/or
control valve	Dragouro control	Delluted	Clean (replace pressure
	Pressure control	Polluted	clean / replace pressure
	valve		not open the pressure
			control valve in parts
	Oil temperature	Interruption solenoid due to	Let the oil cool down
	switch	overheating	
	Operation plunger in	Flow <60 l/m [16 US gpm]	Increase pump rpm
	the middle position	See chapter: choke	Install another pump
		·	Adjust choke
		Hoses connected reversed	Check filter first, then
			connect pressure and return
			correctly.
		Plunger moves with difficulty	Replace seals operation
		due to molten seal	plunger
3 Starts	Switch CE7	Switch movement blocked in	Remove blockade
immediately after	Owner Or 7	the on position	Keniove blockade
switching on the	GS02 on/of	Manual override activated	De-activate manual override.
PTO			put yellow security clip back
			in place
	Hoses connected	Pressure and return hoses	Check filter first, then
	reversed	are swapped	connect pressure and return
			correctly.
4. Individual	Pressure control	Tipper valve	Turn tipper valve in correct
movement is	valve		position
difficult and/or		Pressure control valve pulling	Measure max. pressure/
full trailer		Venicle max. pressure to low	adjust pulling venicle
		Return oil has restrictions	Measure pressure M2,
	Capacity of the	Too much load	Unload part of load with
	system is		crane
	insufficient.	Pollution between the profiles	Clean
		Frost	Thaw
5. Individual	Valve in cylinder	Pollution prevents a good	Remove pollution
movement is	head 1 or 2	closure	
incorrect when		Broken valve spring	Replace spring
	Valve seat in	Valve seat has loosened	*Replace / fasten valve seat
vvith a full and	cylinder head 1 or 2		
	Common rail	Stop in the common rail has	Fasten stop / replace
	cylinder rod side	Common roll mounts of the	
		wrong way around	



CARGO FLOOR

E-control

Malfunction system	Concerns part	Cause	Solution
6. Switching is difficult or goes not at all. 3	a. Threaded rod	Adjustment incorrect	Adjust correctly, attention: determine cause. See: b. and c.
Cylinders are fully retracted or fully out.		Switching spring broken	Replace spring, attention: determine cause. See: b. and c
	b. Switching plunger	Stroke > 12 mm. [0.5 inch] - > threaded rod loose, spacer loose	Screw in Threaded rod / bolt fully.
	c. Moving cross member	Slanting caused by loose profiles	*Replace screws and provide them with a thread locking product and check the rod bearing.
	d. Switching choke	Polluted	* Clean choke
7. Floor unloads when choosing loading and unloading	Solenoid valve G02 loading / unloading	Interruption wiring Interruption in coil	Activate manual override G02 temporarily and/or repair power supply
8. Floor loads when choosing loading and unloading	Solenoid valve G02 loading / unloading	Manual override G02 is activated	De-activate emergency control
9. Other malfunctions	Please contact your tr hand.	ailer builder or Cargo Floor B.V.	, keep the system number at

Contact us for the right repair advice.

CONTACT DATA

Postal and visiting address:

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Phone number:	+31 524 593 900
E-mail:	info@cargofloor.com
Website:	Cargofloor.com

Order spare parts:

E-mail address:	sales2@cargofloor.com
DID number:	+31 524 593 922

After Sales (technical questions and malfunctions)

E-mail address:	as@cargofloor.com
DID number:	+31 524 593 981 / +31 524 593 991

Coevorden, The Netherlands

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