

CARGO FLOOR INSTRUCTIONS FOR USE

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.

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 "WARNINGS" and "IMPORTANT INSTRUCTIONS" sections on pages 2 & 3!

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${\scriptstyle \bigcirc}$ INSTRUCTIONS FOR USE SL-2



WARNINGS

- The Cargo Floor system may only be operated, if there is an user manual present in the local language of the original owner of the Cargo Floor system
- Moving parts must be shielded!
- Verify the loading and unloading directions of the floor before using the system
- All persons must remain at a distance of at least 10 metres whilst the Cargo Floor is in operation
- After use the system must always be returned to the non-energized "0" position
- 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.
- Check the oil level after when the work on the system is done.
- Guarantee shall only be given with the prior consent of Cargo Floor B.V.! With guarantee requests always fill in and send a guarantee request form to Cargo Floor B.V. beforehand. You can simply fill in a request for guarantee on our website: Guarantee form

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

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

The WARNING STICKER is attached to the outside of the control cabinet. See page 4.



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IMPORTANT INSTRUCTIONS

- Avoid letting dirt and water get into the hydraulic system when disconnecting the connectors or when topping up/cleaning the oil tank.
- Adjust the work speed when, for example, heavy massive products are being loaded or unloaded with which the system needs the maximum power, so as to avoid overloading. (See page 17.)
- It is not permitted to exceed the maximum operational pressure (see page 17).
- Avoid loading and unloading sharp objects such as glass without a protective roll-up cover mechanism. This causes unnecessary wear of the seal/floorprofiles. If you would like to transport such materials safely, we advise you to use a protective roll-up cover mechanism.
- Never exceed the maximum number of strokes per minute when using the full stroke (see page 17). A greater number of strokes causes enormous forces in the system and chassis, and causes a lot of heat to be generated in the hydraulic system.
- When loading and unloading packed goods it is important that a good equal weight distribution is realized on the floor. If this is not the case there is the possibility that the goods won't move. When using pallets, if necessary, place a wooden plank (of about 300 x 18 x 2350 mm) multiplex underneath.



IDENTIFICATION TAG





STICKERS "E" - CONTROL

These stickers, which are supplied with the Cargo Floor systems, should be applied to the vehicle, in the neighbourhood of the described operation.





FUNCTION OF "E"-CONTROL SWITCHES

CF 7 SWITCH (EMERGENCY CONTROL)

The CF 7 switch is the permanent switch which is mounted on the frame/vehicle and has 3 switch positions with the following functions:



 \leftarrow (Pos I) = loading

is activated when you turn the rotary switch to the left.

Pos 0 = stop

the rotary switch automatically returns to this position when the switch is released.

 \longrightarrow (Pos II) = unloading

is activated when you turn the rotary switch to the right.

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 CF 8 remote control.

Mounted below the CF 7 switch, is a connector to which the CF 8 switch or the RX RECEIVER can be connected without the need for any adjustments.

Normally, the CF 7 switch should only be used if the CF 8 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 CF 7 switch. Never mount a fuse over 3A, this can cause damage to the electrical installation

CF 8 SWITCH (MAIN CONTROL)

The standard supplied remote control CF 8, with 10 m. of cable, is used for the day-to-day control of the system.



The CF8 switch is fitted with the following control buttons:

Red button: the stop button. Press the button to activate it, and deactivate it by turning it to the right, the button will go back by itself.

Rotary switch. This is a rotary switch with three positions. (Pos I) = loading

is activated when you turn the rotary switch to the left. The button will automatically go back to the middle position when the button is released.

Pos 0 = stop

← (Pos II) = unloading

is activated when you turn the rotary switch to the right to the stop position. This position is provided with a position lock.

The CF 8 switch has a plug connector, which can be inserted into the connector of the CF 7 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.



OPTIONAL

A radio controlled remote control is available as an option.

This incorporates:



<u>**CF RX Receiver**</u> which has a plug connector which can be inserted into the connector of the CF 7 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.

Red stop button

On the receiver RX a red stop button is mounted, by pushing this button you can stop the system in case of emergency. By pushing it again the system will be activated again. Do take care, with reference to the accessibility, that when using a remote control, the door of the switching box CF7 is opened so the red stop button can be operated.

CF TX Remote Control, this has 3 buttons, which work as follows:



Button one (loading). By pushing this button the system will load, by releasing it the system will stop (or you push to stop the big stop button).

Button two (unloading). By pushing this button the system will unload, by pushing it again the system will stop (or you push to stop the red marked stop button).

Button three (stop). With this button you stop the system.

The switching positions I-0-II (applicable to all switches) energize the following solenoids (provided that they have been connected correctly):

- **Position II (unloading):** only the solenoid of valve A (GS02) is energized. A voltage of 24 VDC (12 VDC) is supplied to the solenoid
- **Position I (loading):** the solenoids of both valve A (GS02) and valve B (G02) are energized. A voltage of 24 VDC (12 VDC) is supplied to both solenoids
- **Position 0:** stop, the solenoids are not energized

IMPORTANT

Before starting to load or unload you must check the following:

- there must be no people in the vicinity of the system;
- there must not be anything to obstruct the transport of the product (are the doors open?);
- bear in mind which action you want the system to carry out: <u>Loading or Unloading?</u> Immediately check, and continue to check, whether the system is transporting the product in the correct direction. When loading pay special attention to ensure that the product is not pressed up against the bulkhead.
- Turn on the pump;
- Turn on the light and check that there is a supply of power.
- Keep your distance from the vehicle and operate it by means of the remote control CF 8 or the CF RX.

In the event of malfunctions in the electrical system, the standard manual operation mode can be used to activate the On/Off functions. See page 21. When using this manual control you must always ensure that it is switched back to the original NON-ACTIVATED condition after use.







HYDRAULIC CIRCUIT DIAGRAM "E"-CONTROL





STICKERS "B"-CONTROL

These stickers, which are supplied with the Cargo Floor systems, should be applied to the vehicle, in the neighbourhood of the described operation.





FUNCTION OF "B"-CONTROL SWITCHES

CF 3 SWITCH (EMERGENCY CONTROL)

The CF 3 switch is the permanent switch which is mounted on the frame/vehicle and has 2 switch positions with the following functions:



Middle position= **STOP**

The rotary switch automatically returns to this position when the switch is released.



From this position the switch will go back to the stop position when released. ON

From this position the switch will go back to the stop position when released.

In the interest of safety this switch is fitted with an automatic spring-back for position I, so that it always returns to "0" position. This is necessary to prevent conflict situations arising when using the CF 4 remote control.

Mounted below the CF 3 switch, is a connector to which the CF 4 switch or the RX RECEIVER can be connected without the need for any adjustments.

Normally, the CF 3 switch should only be used if the CF 4 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 CF 3 switch. Never mount a fuse over 3A, this can cause damage to the electrical installation

CF 4 SWITCH (MAIN CONTROL)



The standard supplied remote control CF 4, with 10 m. of cable, is used for the day-to-day control of the system.

The CF 4 switch has the following buttons:

STOP

Red button: the stop button. This is activated by pushing it in and deactivated by turning it;



Rotary switch. This is a rotary switch with three positions. Activating this switch the system will, depending on the position of the operational lever, start loading or unloading. When this switch is deactivated the system stops.

Middle position = **STOP**



In this position the switch will stay in the position (position lock).

CF 4 Art. nr. 6104010

From this position the switch will go back to the stop position when released.

The CF 4 switch has a plug connector, which can be inserted into the connector of the CF 3 switch and screwed tight.

ON

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.

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OPTIONAL

A radio controlled remote control is available as an option.



This incorporates:

<u>**CF RX Receiver**</u> which has a plug connector which can be inserted into the connector of the CF 3 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.

CF TX Remote Control



Fitted with three control buttons with the following functions:

Button one (on ON PULSE as pulse contact). By pushing this button the system will be activated, by releasing it the system will deactivate (or you push to stop the stop button).

Button two (aan/ON HOLD as hold contact). By pushing this button the system will be activated, by pushing it again the system will deactivate (or you push to stop the stop button).

Button three. With this button you stop the system.

The switching positions 0-II (applicable to all switches) energize the following solenoid (provided that they have been connected correctly):

- Position I (On): only the solenoid of valve A (GS02) is energized.
- **Position 0 (Stop):** no solenoids may be energized.

LOADING – UNLOADING FUNCTION

The loading or unloading modes can be selected using the handle located under the trailer, see the illustration.

The position of the handle:

0 handle in the middle position; floor is stationary

1 handle pushed in; floor will unload

2 handle pulled out; floor will load









HYDRAULIC CIRCUIT DIAGRAM "B"-CONTROL





CONTROL OPTIONS "A"-CONTROL

Units fitted with A-controls do <u>not</u> include a separate on/off switch for the Cargo Floor system; the floor will begin to move once the Pump/PTO is switched on. The direction in which the floor moves will depend on the position of the operation valve mounted under the trailer.

LOADING – UNLOADING FUNCTION

The loading or unloading modes can be selected using the handle located under the trailer, see the illustration.

The position of the handle:

0 handle in the middle position; floor is stationary

1 handle pushed in; floor will unload

2 handle pulled out; floor will load



WARNING ! SWITCHING ON THE PUMP/PTO WILL START THE FLOOR MOVING!

CONTROL VALVE "A"-CONTROL





HYDRAULIC CIRCUIT DIAGRAM "A"-CONTROL





CARGO FLOOR TECHNICAL SPECIFICATIONS

System operation	:	completely hydraulic, with three double-action cylinders.
System control	:	completely hydraulic mechanical.
Operation control	:	fully automatic loading – stop – unloading or
		manually loading – unloading electrically on – off
		(option A/B control)

	CF500	CF100	CF500 SL-2	CF3 LP-2
	SL-2(i)	SL-2(i)	Power Speed	(leak proof)
Bore (mm)	100	80	100	125
Piston rod diameter (mm)	45	35	45	60
Stroke (mm)	200	150	200	150
Cylinder volume (ltr.)	2.82	1.36	2.82	3.26
Oil volume per cycle (ltr.)	8.46	4.09	8.46	9.77
Over pressure valve threshold, max.	225	175	225	150
operational pressure (bar)				
Strokes per minute with advised pump	13	17	21	11
capacity				
Speed (mtr. / min) with advised pump	2.6	2.6	4.2	1.7
capacity				
Advised pump capacity:				
Flow (ltr./min)	110	70	180	110
Pressure (bar)	250	200	250	175
Max. pump capacity:				
Flow (ltr./min)	130	80	200	170
Pressure (bar)	250	200	250	175
Speed at maximum pump capacity	3.1	2.9	4.7	2.6
(mtr. / min.)				

Control valves Throughput variation	:	24V DC (Applies only to E and B control.) Completely variable speed by use of oil flow determined by the revs of the motor or by various pumps. Pay attention to the diameter of the choke, see page 20.
<u>Drive</u>	:	use of the PTO/pump on the truck; an electro-hydraulic aggregate or an hydraulic aggregate with an external combustion engine.
Filter	:	pressure filter type: high-pressure 10 micron (part number7372005).
Pressure piping	:	Ø 20 x 2 feed through 16 mm
Return piping	:	Ø 25 x 2,5 feed through 20 mm
Oil ISO VG 32 b.v.	:	Shell Tellus T32 or ESSO Univis 32 (or equivalent).
		Only use biological oil after agreement by Cargo Floor
Biological oil	:	A biological oil of the type synthetic ester (HEES) can be used as standard with the Cargo Floor system. We advise you not to use other types of biological oil.
Oil temperature	:	max. 70 ° C



<u>Floor</u> Aluminium floor profile	es	 plank length negotiable floor thickness 3, 6, 8, 10, HDI 8/18 mm. HD 8/20 mm; Semi Leak Proof. profile width 111,9 mm / double seal profile 114,8 mm moving floor width standard 2.355 mm for an inner width of 2.500 mm
Extrusion alloy	:	high quality Aluminium-alloy, weldable, very wear-proof and tensile
Guiding	:	The aluminium floor profiles are borne by wear-free plastic guides (TWISTER) or by plastic guide cams.
Guide bearing surface	:	the total bearing surface of each guide (TWISTER) is 87 cm^2 Total bearing surface of each guiding block of the plastic cam guide is 60 cm ² . Total guide surface area is determined by the total number of guides, which can be varied as required.
<u>Under floor</u>	:	Steel as well as aluminium. The plastic guiding can be provided with square tubes 25x25x2 or the plastic cam guides can be mounted directly on the under floor.

OPTIONS:

- (i) module for connecting to Blackbox
- Variable stroke from 10 mm to 200 mm
- Can be connected to PLC
- Soleniods 12 V or 220 V (24 V=standard)
- Steel floor parts, steel clad floor parts
- Floor width and length in consultation, can be any width required
- Aluminium end caps for floor profiles
- Completely smooth profiles are available for special products. Floor thickness 6, 8 and 10 mm.
- Protective roll-up cover;
- Wireless remote control with on/off and/or loading/unloading functions (part number 6104006);
- Cargo Floor in combination with other loading/unloading systems
- Stationary applications in all versions
- Extra plastic guides.
- Electro- / hydraulic aggregates
- Diesel hydraulic aggregates
- Multiple bulkheads for partial loads
- Termically zinced subframe
- Lacquered preserved moving cross members



PUMP SPECIFICATIONS

The pump unit used to power the Cargo Floor system must comply with the following specifications:

NOTE! Verify which unit is fitted!

	CF500 SL-2	CF100 SL-2	CF500 SL-2 Power Speed	CF3 LP-2
Pump capacity (in ltr./min)	110	70	180	110
Max. pressure (bar)	250	200	250	175

Oil tank, contents of min. 150 ltr. provided with:

- return filter (30 micron) 300 ltr/min.
- tank cover
- oil level glass
- draining tap
- filling cap

Pipes complying with the following requirements:

- pressure line min. 20 x 2 mm
- return line min. 25 x 2,5 mm
- quick-detachable couplings (suitable for 110 l/min.).

The pump volume determines the transport speed; The pressure determines the force applied to the system.





Choke:

There is a choke mounted as standard in the PB channel of the control valve. This allows the control valve to function correctly. This choke is suitable for an oil flow level of 80 to 110 litres per minute. The function of the control block 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 valve not switching, floor does not get into loading state, or will not leave loading state;
- Oil flow too high: noise in system, high heat dissipation and capacity loss.



Flow independent choke

As an option a flow independent choke can be supplied (Article number 7370106). The standard mounted choke can simply be changed with these. You remove the cap out of channel PB (Allen key 12 mm) at the bottom of the control valve. After this you screw the choke out of the channel with allen key 12 mm. Screw the new (flow independent) choke in the channel and fasten these by hand (about 50 Nm.). Screw the cap back into channel PB (allen key 12 mm.) and fasten these by hand (about 50 Nm.). Let the floor run (loading and unloading) in order to check if everything is functioning well and no leakage occurs. The flow independent choke has a flow range of 20-110 ltr./min. and is suitable for a maximal work pressure of 225 bar.

PR

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For both types of chokes applies: connecting the pressure and return wrongly will result in a malfunctioning of the system.

B- control

An other 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.

Transforming the E control to a B control (or the other way around) can simply be done with a so called transformation set (set from E to B: part number 7170039).



EMERGENCY CONTROL

In the event of a malfunction in the electrical system the electric valve can still be operated by activating the cartridge fitted for that purpose (manual control, see photo).

MAKE SURE THAT THE DOORS ARE OPEN!

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

Activation of the emergency control on:

Remove the yellow security clip and turn in (clockwise) the red button on top of the GS02 solenoid till the stop (first remove the yellow security clip and put it back in place after the action).

Deactivation of the emergency controls:

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





Activation of the emergency 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 G02 till the stop.

Deactivation of the emergency control loading:

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







ADJUSTMENT OF THE THREADED ROD OF THE STEERING VALVE



The Cargo Floor systems are already adjusted and tested when you take them over. You therefore do not need to adjust them anymore, but in certain circumstances (moved combination valve) it may be necessary to check the adjustment.

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. Check the oil level after when the work on the system is done.

Necessary tools:

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

Check that the wire rod is fastened securely to the steering valve, stroke exactly 12 mm. If not, then screw the wire 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 in the direction of the steering valve. Now switch the pump on. The system will stop now at the point where the command lip no longer operates the switchover valve. Switch off the pump.

Now push the wire rod (1) in until the spacer ring touches the switchover valve. Tighten nuts (3 and 4) so that the spring is fully pushed in, and secure them by tightening them against one another. Repeat this procedure for the other side.

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



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.nl</u> \rightarrow DOWNLOADS

Check for the end user after receipt of the new trailer:

Check the join between the aluminium floor profiles and the Cargo Floor-system. You do this by placing your finger half on the bolt and half on the floor profile when the floor is operating. If you feel movement in the bolt connection then the bolt should be removed, cleaned, fitted with Loctite and mounted again, or be replaced. Do not simply just tighten the bolts, the Loctite connection will be broken. If bolts are loose, we would like to refer you to our website:

<u>www.cargofloor.nl</u> rightarrow > DOWNLOADS. Check this a couple of days after receipt of the trailer, after 10 loads / unloads and after one month.

Specifications of the screws: M12 x 30 countersunk screws with hexagon socket, class 10.9, galvanized. DIN 7991. (dacromet). The torque is 100 - 140 Nm.

Regular checks:

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:

- The quality of the oil; this must be cleaned regularly (check every $\frac{1}{2}$ year)
- Replace the filter element every year;
- Change the oil every 2 years, or more frequently if required;
- The level of oil in the tank. In order to prevent heat developing it is required to have at least 100 liters of oil in the tank. Out of practical experiences (high flow, frequently loading and unloading) we advise you to have at least 150 liters of oil available. Use a good quality, hydraulic oil in accordance with the ISO VG 32 norm.

Check and, if necessary clean the following components:

- Floor profiles: are they still fixed, replace screws/bolts if necessary!
- Check the ducts and joints 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.
- Return-/pressure filter: by removing the filter lid/ chamber you can check the filter element, or after about one year replace it.
- Check the seal between the two fixated floor profiles and the moving profiles. If a margin exist in between, then adjust the fixated floor profiles, in order for the sealing to be optimal and leakage via the side walls is prevented.

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:

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

- Adjusting the threaded rod of the steering valve; It is important that the steering valve is correctly adjusted and that the switchover moment occurs according to the procedures. See page 22.

Cleaning the floor parts with a steam cleaner is also part of the regular preventative maintenance, especially with the so called SLP profiles this is mandatory to clean the large gulley regularly.



TROUBLESHOOTING

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	cause	remedy
1. floor does not move in either	No hydraulic pressure	1. Switch on PTO / pump
the loading or unloading direction		2. Check quick-detachable
		couplings between tractor unit
		and trailer; where relevant, lock
		in position
2. floor does not move in either	No power supply	1. Switch on lights
the loading or unloading		2. Switch on control cabinet
direction; the hydraulic system is		3. Measure power supply to control
at working pressure		cabinet
3. no power supply to the control	Break in cable, contact	Trace the cause of the electrical
cabinet; the lights are switched on	points corroded, system	malfunction in the circuit between
	connected wrongly	the control cabinet and the trailer
		lighting. See 6 and 7 also.
4. floor does not move in either	Blocked quick-	Check the quick-detachable
the loading or unloading	detachable coupling –	couplings, and unblock if necessary
direction; the hydraulic system is	note, also the return line!	
at working pressure, and power is		
supplied to the control cabinet		
4a. floor does not move in either	Hydraulic oil released	Check whether oil is released via the
the loading or unloading	via the pressure relief	pressure relief valve fitted to either
direction; the hydraulic system is	valve fitted to either the	the tractor unit or the trailer. This can
at working pressure, and power is	tractor unit or the system	be determined from the hissing sound
supplied to the control cabinet		made by the valve.
4b. pressure relief valve on the	System does not achieve	1. If a tipping valve is fitted, is it in
tractor unit is activated	working pressure	the correct position?
		2. Measure the pressure at the
		pump, have the pressure
		adjusted if necessary.
4c. pressure relief valve on the	Measure the pressure at	1. Check the setting of the threaded
semi-trailer switches	measurement point M1,	rod
	pressure (above) 225 bar	2. Capacity of the system is
	1.0	insufficient to move the load.
4d. capacity of the system is	1 frost	1. Thaw
insufficient to move the load	2 overloaded	2. Remove part of the load
	3 floor is dirty	3. Clean the floor once the load has
		been removed
5. floor does not move in either	Measure pressure at M1	1. Move threaded rod backwards
the loading or unloading	Pressure = $0-10$ bar	and forwards
direction; the hydraulic system is		2. GS02 on/off cartridge does not
at working pressure		switch
		Activate the emergency control.



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malfunction	cause	remedy
6. GS02 on/off cartridge	No power	1. Check power supply
does not switch	-	2. Check voltage across solenoid
		Activate the emergency control.
7. GS02 on/off cartridge	Solenoid inoperable	1. Clean contacts
does not switch	1. Corroded contacts	2. Use emergency control, see
	2. Solenoid defective	Emergency control section
	3. Breach in the cable	3. If the loading function is not
		used, then swap the solenoids for
		GS02 and G02; note the plugs
		must also be swapped
8. floor moves in loading direction	Emergency control G02	Deactivate the emergency control.
when either loading or unloading	is in the loading position,	
is selected	the extreme position	
9. floor moves in the loading	Plugs are connected the	Reverse the plugs
direction when loading is selected,	wrong way round on the	
but does not move when	solenoids	
unloading is selected		
10. floor does not move when	See point 6 or point 7	See point 6 or point 7.
loading is selected, but does move		1. Check the flow, see page 19.
when unloading is selected		
11. all three floor groups	Capacity of the system is	See point 4d
simultaneously move backwards	insufficient to move the	1. Thaw
and forwards under high pressure	load.	2. Remove part of the load
when unloading is selected		3. Clean the floor once the load has
		been removed
12. all three floor groups move	Capacity of the system is	See point 4d
correctly when unloading is	insufficient to move the	1. Thaw
selected, the individual groups	load.	2. Remove part of the load
move slowly whereby group 2 and		3. Clean the floor once the load has
3 move together		been removed
13. other malfunction	-	Contact your body builder; make sure
		you have the system number
		available when you do so



GUARANTEE CONDITIONS

Guarantee shall only be given with the prior consent of Cargo Floor B.V.! With guarantee requests always fill in and send a guarantee request form to Cargo Floor B.V. beforehand. You can fill in a request for guarantee simply on our website: <u>www.cargofloor.nl</u> \Rightarrow <u>DOWNLOADS</u> \Rightarrow <u>Guarantee form</u>

The guarantee 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:

A guarantee 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 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 guarantee:

- Malfunction of equipment, or caused by equipment, which was not supplied by Cargo Floor.
- Malfunction caused by the use of dirty oil, or oil of the wrong type.
- Malfunction caused by overheated oil, T. max. \leq 70 °C.
- Malfunction caused by overloading or injudicious use.
- Malfunction caused by repair work, which is carried out by third parties.
- Filter elements and components, which are subject to wear-and-tear.
- Defects in electrical components due to incorrect connection and/or incorrect voltage levels.
- Resulting damages

The guarantee is void if:

- The system is used for purposes, which have not been recommended by Cargo Floor
- 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.



CF500 SL-2







CF100 SL-2



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CF3 LP-2 15/160











ATTACHMENT OF FLOOR PROFILES, SEALS AND END CAPS

