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Crane emergency override

Product:	All	**Document No.**	TB-031-A
Revision Date:	24/6/2026	**Revision No.**	A

These procedures should only be used if there is a failure with an electrical component or the remote control becomes faulty.

After following this procedure, the crane will be operating without any electronic safeguards.

This can be very dangerous if appropriate care is not taken.

After recovering the crane, the hydraulic overrides **must** be returned to their original positions.

Leaving the crane in override may tempt the operator to “finish their day’s work” with no electronic safeguards working. If an accident should happen, the person who left the crane in the overridden state could be liable.

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ECI

There is no electronic shut off on these cranes. Ensure the E-stop is no depressed and the crane should be functional. The overcentre valve will cause the crane to slowly lower if load is lifted above calibrated capacity.

LLC

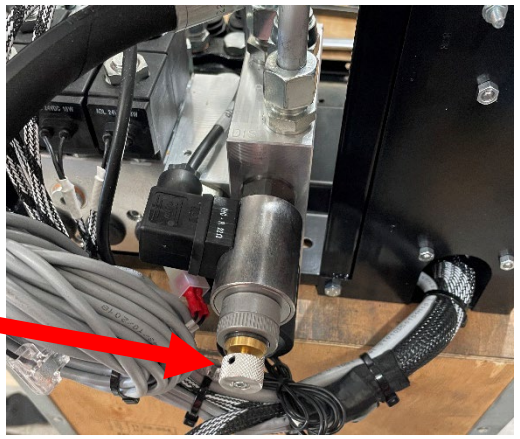
Similar to the ECI, however there is a dump valve which is activated when a load higher than 1000kg is lifted. To over-ride, wind in the red knob on the top of the dump valve stem on the left-hand side of the valve bank. See image below.

Main dump valve, found on cranes with the LLC, LME03 and LME04 system.

LME03/LME04

These cranes can have many functions that utilise the dump valve as a fail-safe, including lifting above the calibrate tonne meter of the crane capacity. As with the LLC system, wind in the red know on the top of the dump valve. If the crane is fitted with a remote control. The proportional valve (rear side top valve) will also need to have the knob wound in. the colour of this knob is silver, as seen in the picture.

Proportional valve for the remote, wind this knob in, in addition to the main valve on cranes with remote control



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Cobra

The instructions below apply to the current range of Cobra.

A Cobra crane is a remote-control crane only. No manual controls or levers can be fitted to give manual operation. We can operate the crane with the serial cable plugged in if the batteries are flat. When an electronic failure occurs, we have to gain access to the valve block. This is situated under the main black cover, below the winch.

Remove the 4 bolts securing the cover, 2 on each side. This will expose the valve block.

Cover Bolts on receiver side

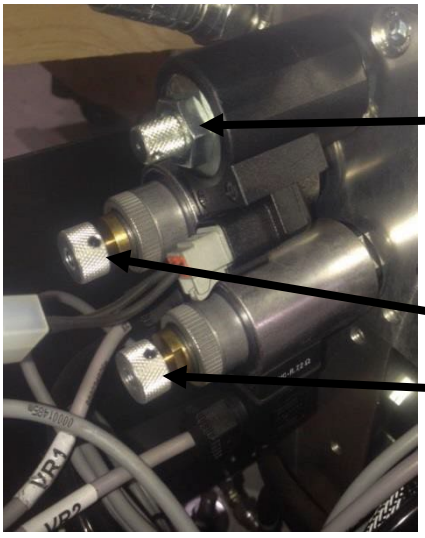
Oil Flow

Functions

The valve block is split into two halves. The top section controls oil flow. The bottom section controls the functions.

Each valve has a knurled end that screws out or in.

On older models, not all functions were selectable.



- Wind out the main dump valve. This is the top valve with a black solenoid.
- Select the function that you wish to move. Details of the coils for each movement are shown below.
- Wind in the relevant proportional valve to move the function. Wind out to stop.
- VR1 for slew and boom extension/retraction
- VR2 for winch and boom up/down
- After packing the crane up, return all the valves to their original positions and replace the cover.

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Solenoid function wires are labelled A and B for easy identification.

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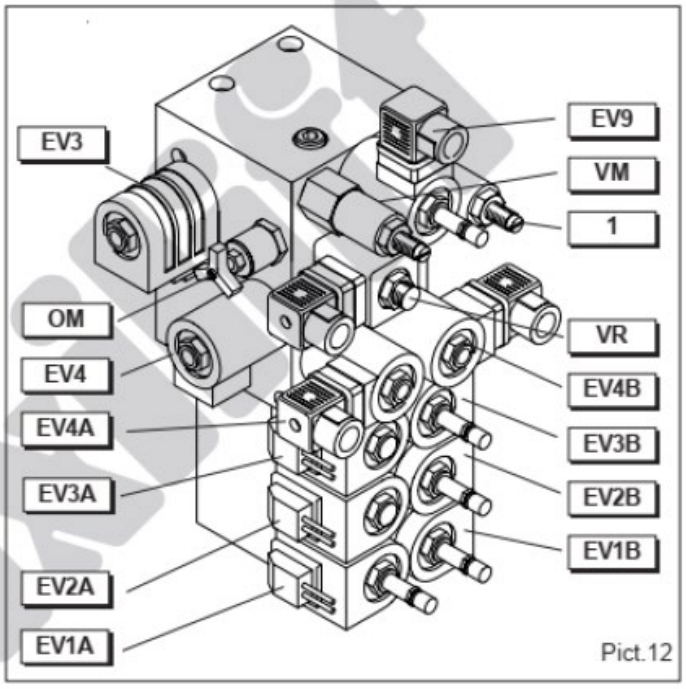
Overriding A Maxilift Cobra – Older models

The unit is consisting of two separate aluminium blocks.
The upper section includes the proportional adjusting valve (**VR**), the manual bypass control valve (**OM**) of the proportional regulator, the main relief valve (**VM**), the winch operating solenoid valves (**EV4A** – **EV4B**), the dump valve (**EV9**) and the solenoid valves (**EV3** – **EV4**) required to operate the winch and another function at the same time.
The lower section includes the control solenoid valves (**EV**...**A** – **EV**...**B**), two for each movement.
The solenoid valves: **EV9** – **EV3B** – **EV2B** – **EV1B** – **EV1A** are equipped with a manual override, to be used only for emergency (failure of the electronic control unit or the button strip, lack of power supply).
In such cases it is necessary to proceed as follows:

a) Fully turn counter-clockwise the valve handwheel (**OM**) in order to bypass the proportional valve (**VR**)
b) Fully turn counter-clockwise the manual override of the valve coupled to the desired movement (extension re-entry, boom lowering, etc.).
c) Finally Fully turn counter-clockwise the manual override of the valve (**EV9**), in order to activate the desired movement
d) Once the standard working conditions of the crane are restored, always remember to close completely the manual overrides, by turning them clockwise.
e) Finally close completely the bypass valve (**OM**) by turning the handwheel clockwise.



Pict.12

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UNIC Truck cranes

You will need a 17mm open ended spanner and a short flat headed screwdriver.

1. Undo the nut by half a turn and hold it in position with the spanner.
2. Wind the centre screw clockwise until you feel it will not go any further. Count the number of turns.
NOTE- do not tighten the screw down hard or you will damage the end of the screw.
3. Tighten the nut.

NOTE: Do not tighten this screw.
The screw will be damaged if it is screwed down too tightly and may not work correctly in the future.

1. You should now have hydraulic pressure to the valve bank and **manual** control only.

The crane is now overridden.
Any electronic safety devices are now disabled. The anti-two block for the hook will not work.
Pay close attention when operating the crane in this state.

2. Recover the crane to its travel position.

3. **Do not leave the crane in override.** To reinstate the overrides, reverse this procedure. Ensuring the grub screw is only wound out 10 mm from the lock nut, else the pin will come out pushing oil out.

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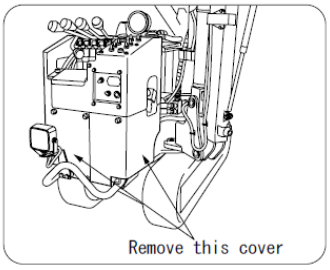
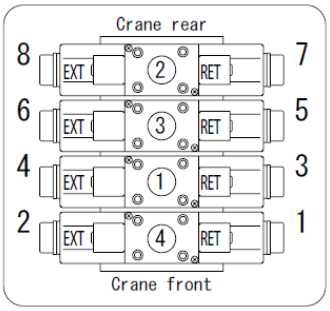
UNIC MINI Crawler cranes

To bypass electronics and operate the outriggers
Remove the front covers of the mini crawler as shown in the image. Push the solenoid valve button f the respective outrigger you wish to operate with



Outrigger to be operated		Operation
Outrigger①	Retract	Operate lever with button 3 depressed
	Extend	Operate lever with button 4 depressed
Outrigger②	Retract	Operate lever with button 7 depressed
	Extend	Operate lever with button 8 depressed
Outrigger③	Retract	Operate lever with button 5 depressed
	Extend	Operate lever with button 6 depressed
Outrigger④	Retract	Operate lever with button 1 depressed
	Extend	Operate lever with button 2 depressed



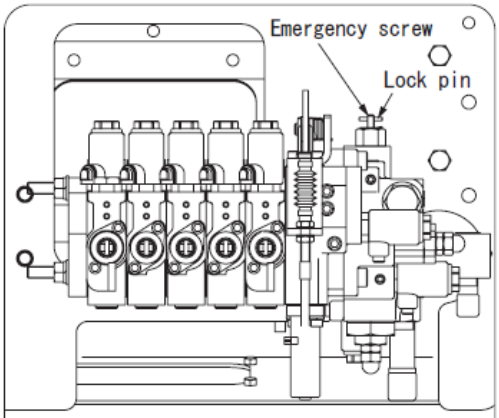
To operate the crane in bypass:
Locate the two emergency screws, you will need to take some of the covers off to locate them. They can be found as shown in the below images.

1. Remove the lock pin attached to the emergency screw clockwise until tight (pay attention as the screw may break if excessive force is used).

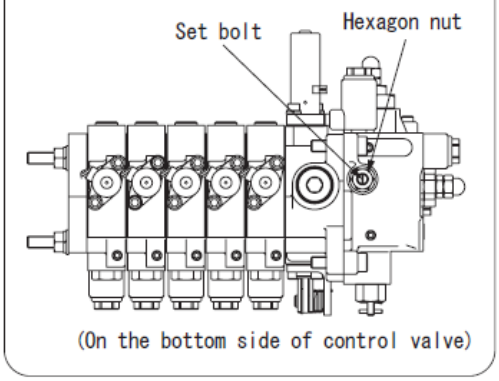
2. Ensure all manual leaves are in the natural position, failure to do so will result in sudden unexpected movement of the crane as is extremely dangerous.

3. Loosen the hexagon nut attached to the lower part of the control valve and tighten the lock set bolt until tight. This will allow the crane to be operated.

4. **Do not leave the crane in override.** To reinstate the overrides, reverse this procedure.



(On the top side of control valve)



(On the bottom side of control valve)

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Emergency screw with lock pin.

Located on rear side of valve bank

Emergency hexagon screw with set bolt.
Located on underside side of valve bank

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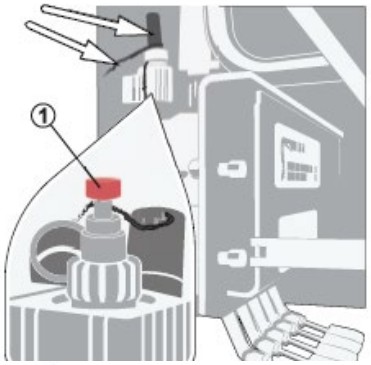
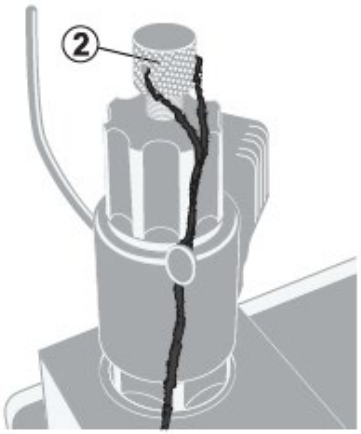
Hiab – V80 valve

On the Main Control Valve:



1. Break the security seal wire and remove the cap on the dump valve (1).
2. Press the dump valve button (1) to the bottom and keep it in this position while you operate the crane.

If separate stabiliser valve with manually controlled stabiliser extensions and stabiliser legs.



1. Break the security seal wire and remove the cap on the dump valve (2), located next to the stabiliser valve.
2. Turn the security screw (2) to the bottom.
3. Press the dump valve button and keep it in this position while you operate the stabiliser extensions and stabiliser legs.

If separate stabiliser valve with remote controlled stabiliser extensions and stabiliser legs:

1. Break the security seal wire and remove the cap on the dump valve (3).
2. Keep the dump valve button (1) on the main control valve and this dump valve button (3) in depressed position at the same time, while you operate the stabiliser extensions and stabiliser legs.

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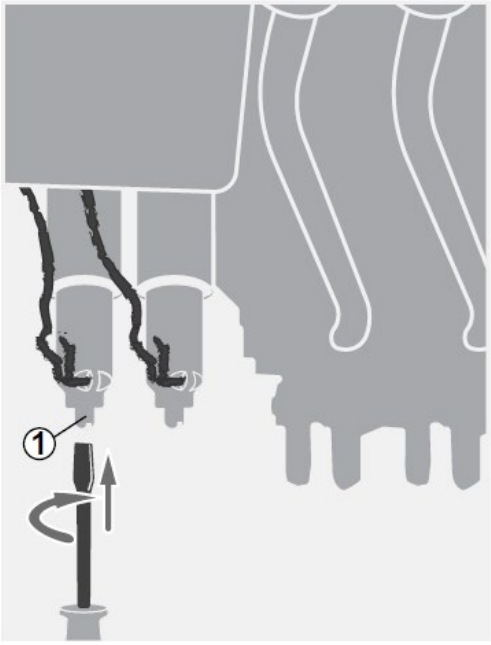
Hiab – V200 valve

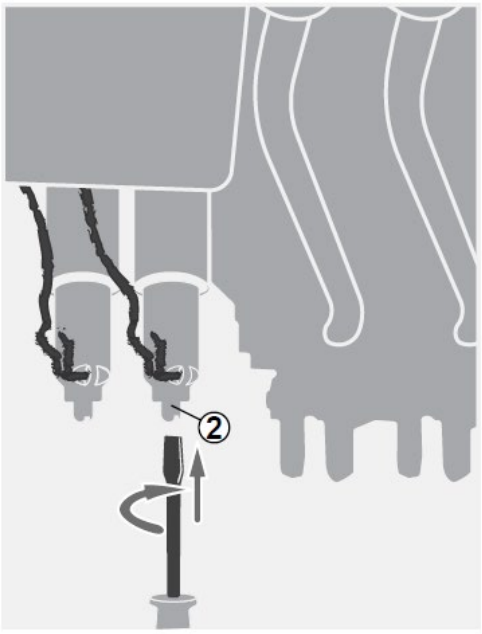
To override the crane

1. Engage the pump.
2. Break the security sealing on dump valve 1 (1) on the main control valve.
3. Use a screwdriver (or similar) and push the knob on dump valve 1 (1).
4. Check that no unintended movement starts. If you get unintended movements then release the knob.
5. Push the dump valve button and turn 90 degrees until it is blocked.
6. Operate the crane to transport position using the levers on the main control valve.



To override the stabilisers

1. Use a screwdriver (or similar) and push the knob on dump valve 2 (2).
2. Check that no unintended movement starts.
3. Push the dump valve button and turn 90 degrees until it is blocked.
4. Operate the stabiliser extensions and stabiliser legs to transport position using the levers on the stabiliser control valve.



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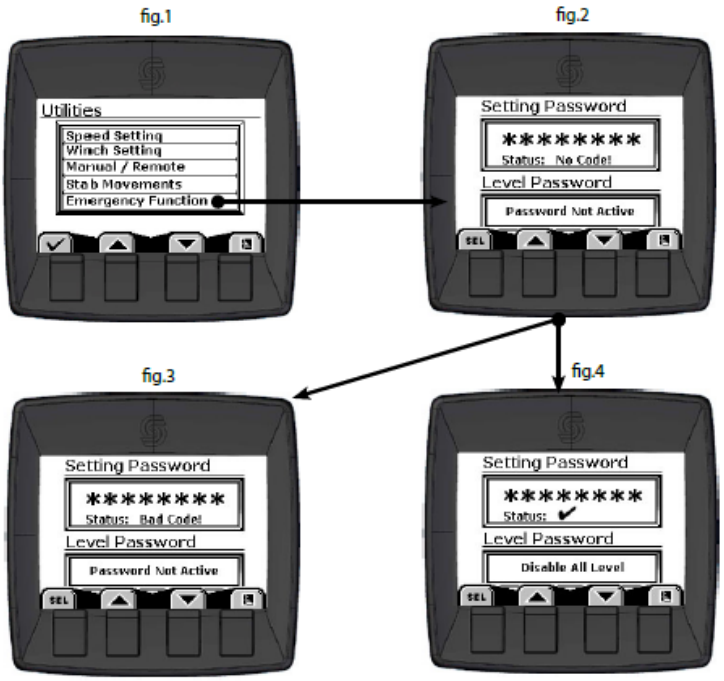
Progress EFFER

There are 4 ways to override a Progress crane, on the remote, on the LCD display, through the software or via the valve bank.

Via the LCD display (if included)
After the crane has been turned on, and before any other function is used, press the far-left button on the bottom of the LCD screen to bring up the menu, from here, scroll down to select the lightbulb image, “Utilities”. Scroll down to select the 5th option, “Emergency Function”, and input the password “1000001”. This will enable the operator to bypass all safety features and operate the crane.



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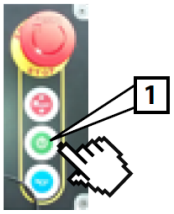
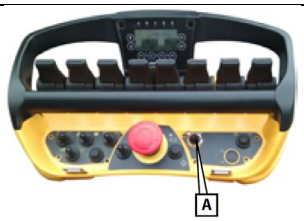
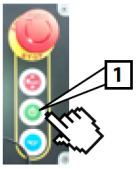
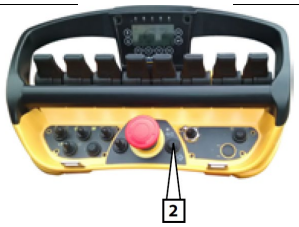
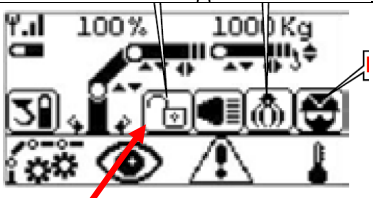
Via remote

The procedure involves a sequence of buttons and lever movements using the radio remote control transmitter. Once the crane has been started you have **2 minutes** to complete the procedure.

1	Switch the system OFF using the main panel	
2	Ensure the transmitter switch is on “STAB”	
3	Switch the system ON the main panel and on as per normal on the remote	
4	Once the crane and remote are switched ON, press and hold the RESET button on the remote.	
5	Activate levers 1, 2 and 3 on the remote, **one at a time** and in both directions (it doesn’t matter which direction first). Once complete remove your finger from the RESET button and activate the EMERGENCY STOP button on the remote.	
6	Release emergency stop button and push RESET when requested. The buzzer will make a “beep” and in the remote display an open padlock picture will appear to indicate you are in bypass mode.	
7	The system will reset to normal operating mode once the crane is switched OFF again	

Via the software

- Plug the service cable into port “A” on the crane and into a laptop, open the service app software tool.

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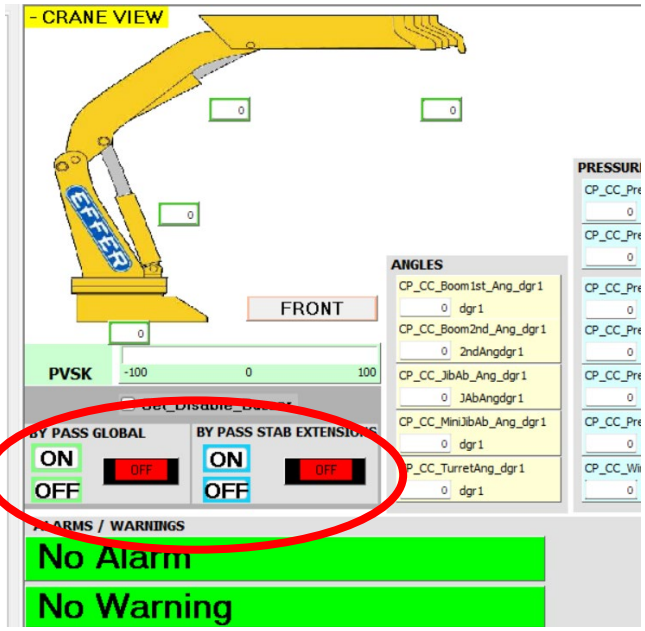
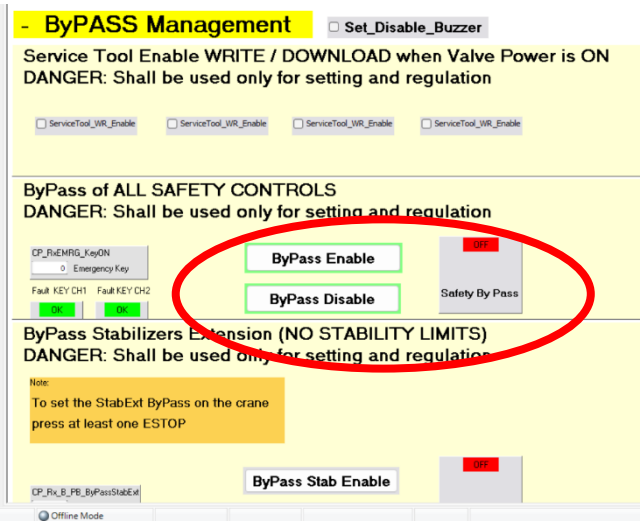
- Navigate to “Crane view” -> Bypass global (see 1st picture below) OR
- Navigate to “Bypass” -> ByPass enable (see 2nd picture below)
- The buzzer can also be turned off from either of these pages





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Via the valve bank

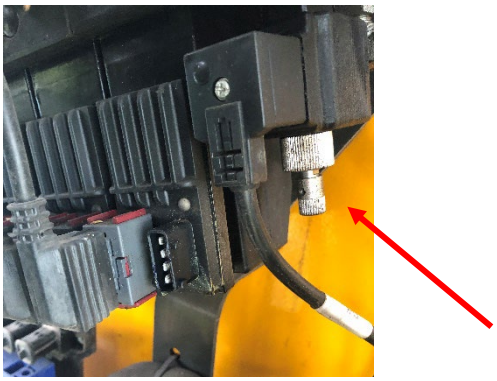
In the event that there is a catastrophic or total electronic failure of the crane it may be impossible to put the crane into electronic bypass. If this is the case then a technician will be required to hydraulically bypass the crane in order to recover the booms and stabilisers. The following pages have been taken from the EFFER manual and indicate the procedure to follow depending on the crane model.

The procedure is slightly different between models so it is important to ensure the correct document is used for this procedure. The following documents are available upon request.

Document No.	Applicable Models
EOP-80-2	EFFER 80.2 Progress 2.0
EOP-105	EFFER 105 Progress 2.0
EOP-125-145-175	EFFER 125 Progress 2.0 EFFER 145.2 Progress 2.0 EFFER 175.2 Progress 2.0

EOP-215	EFFER 215 Progress 2.0
EOP-265-315-395-525-685	EFFER 265 Progress 1 and 2.0 EFFER 315 Progress 1 and 2.0 EFFER 395 Progress 2.0 EFFER 525 Progress 2.0 EFFER 685 Progress 2.0

In addition to the procedure described in the document above there may be an additional solenoid on the crane valve bank that also needs to be overridden. The solenoid is located at the right-hand end of the valve bank. The photos below show the solenoid in question.



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Further to this, the following paragraphs offer some helpful tips when placing a crane into hydraulic bypass.

1) The procedure will involve the technician climbing up onto the crane. Ensure three points of contact at all times and be wary of slippery surfaces. Always use approved step ladders and platforms where possible.

2) The majority of EFFER cranes do not have manual control levers on the crane. The levers are provided loose to the owner at the time of handover and they are advised to keep these in the truck in case of emergency. The levers will be required to operate the crane functions after the crane is in hydraulic bypass. If the levers aren't present a small spanner or set of pliers can be used taking care not to damage the mechanism.

3) Once the crane has been inspected in a workshop be sure to reset the override mechanisms and seal with appropriate wire seals

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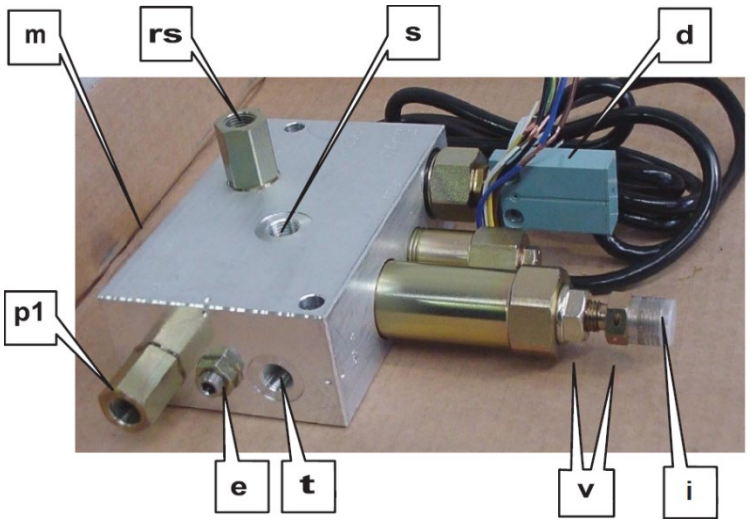
EFFER Mini SS crane

Remove the black plastic cover shown to expose the valve.

You will find the valve shown below



- Undo the lock nut labelled “e” and screw in the grub screw until it bottoms out.
- **Remember how many turns you screw it in and unwind this before handing the crane over to the customer or there will be no overload protection.**
- An overload protection test should be done as part of commissioning and this also helps to remind you to take it out of bypass.
- If it’s found that the ‘cut-out’ radius is not correct, the “V” adjustment will change the radius.
- Screwing it in will increase the cut-out radius.
- It should be set around 5 – 7 % above chart at maximum outreach so that the crane can actually lift to chart without any trouble.

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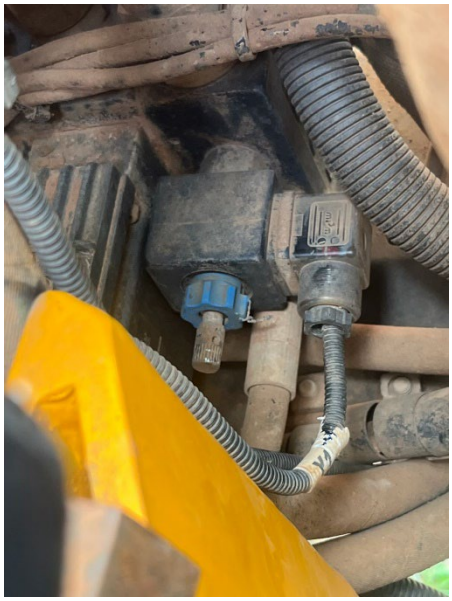
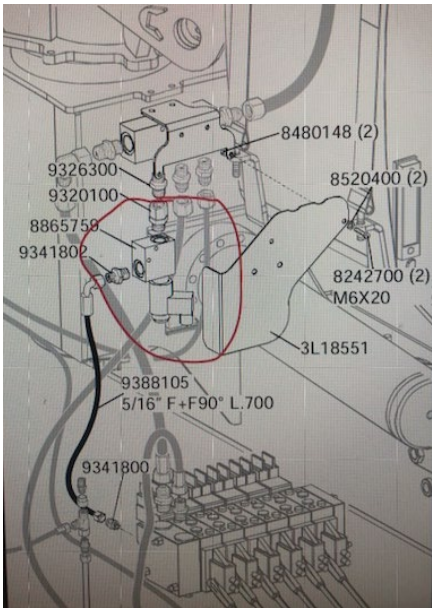
EFFER DMU crane

Behind the main valve bank there is a dump valve shown in the two images below. Screw in the blue plastic lock nut to enable the stem to be moved. This has a push stem to bypass the dump valve. You will need to hold this in while moving the leavers in order to pack the crane away.





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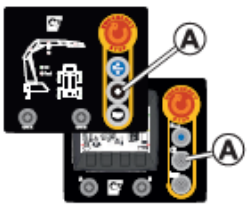
Progress 3

7.3. Switching off the control system

1. Push the emergency stop button on the controller to switch it off.
2. Disengage the PTO.
   The control system switches off automatically when the PTO is disengaged.
   If this feature is not activated:
   - Push the ON/OFF button ⏻ on the User Interface **(A)** to switch off the control system.



7.4. Emergency operation

7.4.1. Display messages and password

WARNING

- The use of any emergency operation is under your direct responsibility as the operator of the crane.
- You must be qualified and correctly trained in the emergency operation to use the manual commands unit. Pay careful attention when operating from the operator station (crushing, falling, etc...) and watch out for hidden hazards (low visibility, narrow spaces, etc...).
- Always operate the crane with caution and at reduced speed.
- To operate the crane like this is HIGHLY DANGEROUS because during emergency operation all crane security is disconnected.
- During the emergency operation, you are only allowed to operate the crane to the transport position without any load.
- Always go to/contact an authorised service workshop when a security seal has been broken.

The controller and the display panel [option] show information about the cause of all malfunctions with a code and a description. Contact an authorised service workshop to understand the errors.

The messages can be about:

- **Warning:** the crane remains operative and the messages inform the driver about specific operating conditions.
- **Alarm:** the crane is no longer operative. It is possible to reset several alarms and continue operating the crane, but there are also alarms that require the support of technical service.

NOTE

When you enter the password to disable all the control and safety systems on the crane, Progress saves the date and the time in which you use the crane with the safety systems disabled.

Contact an authorised service workshop to get the password.

Head Office:
ABN: 68 140 091 158
P: 08 8326 6300 | F: 08 8326 4685
E: admin@maxilift.com.au
A: 12-16 Dorset Street, Lonsdale, SA, 5160
W: www.maxilift.com.au

NOTE
If your password does not allow movements of the crane or the stabiliser system to fold the crane in transport position, you must operate the crane manually.

7.4.2. Bypass Progress (crane - stabilisers) procedure

WARNING

- The use of any emergency operation is under your direct responsibility as the operator of the crane.
- You must be qualified and correctly trained in the emergency operation to use the manual commands unit. Pay careful attention when operating from the operator station (crushing, falling, etc...) and watch out for hidden hazards (low visibility, narrow spaces, etc...).
- Always operate the crane with caution and at reduced speed.
- To operate the crane like this is HIGHLY DANGEROUS because during emergency operation all crane security is disconnected.
- During the emergency operation, you are only allowed to operate the crane to the transport position without any load.
- Always go to/contact an authorised service workshop when a security seal has been broken.

NOTE

- An acoustic signal (from the horn), repeated 3 times every 15 minutes, indicates that the crane is working in bypass mode.
- This bypass mode will be disabled as soon as the crane is switched off.
- The bypass remains active for 30 minutes and it can be activated a maximum of 3 times in 24 hours.
- Contact an authorised service workshop after using this emergency operation to reset the system.

1st - Bypass procedure with Progress disabled:

Before to start the procedure, read carefully the following procedure and contact an authorised service workshop to get the password.

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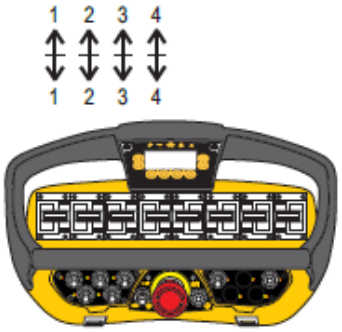
1. Turn OFF the control system.
2. Lift up and turn the selector **'CRANE/STAB'** to **'STAB'** on the controller.
3. Turn ON the control system.
4. Push the **Reset Button** when required by the system.
5. Within two minutes of switching ON the control system, push and keep pushed the **Reset Button**.
6. In the meanwhile, push or pull one by one the firsts four lever from left of controller to insert the password.
7. Push and release the emergency button on the controller.
8. Push the **Reset Button** when required.
9. An acoustic signal repeated 2 times and an icon on the controller display indicates that the bypass mode is activated.
10. Go to the 2nd procedure if the crane is still stopped.



NOTE
When you enter the password to disable all the control and safety systems on the crane, Progress saves the date and the time in which you use the crane with the safety systems disabled.

Example:
Given password 3568
Type 3: Push or pull 3 times the first lever from the left.
Type 5: Push or pull 5 times the second lever from the left.
Type 6: Push or pull 6 times the third lever from the left.
Type 8: Push or pull 8 times the fourth lever from the left.

NOTE
If in the code provided by the authorised service workshop, one or more of the numbers of the password is zero, always replace the zero with one.

Example: given password 3068 = 3168