

Chapter 11 – Failure conditions



Tampering with check valves and/or breaking of safety seals don't ensure a correct working of the crane safety devices: therefore these operations release FASSI from any responsibility and invalidate the warranty.

In this situation, the operator is directly responsible for operations and machine safety.

11.1 – Outrigger control by radio

In case of working anomalies of radio remote control, levers on control handle may be useless. So, it may be necessary to operate outriggers directly from their distributor.



In this emergency situation, make sure that nobody stops or passes in proximity of the outrigger ram working area, neither from the operator's side nor from the opposite one.

In order to operate the outrigger distributor, fasten the selection screw completely (fig. 11.1 - position 1).

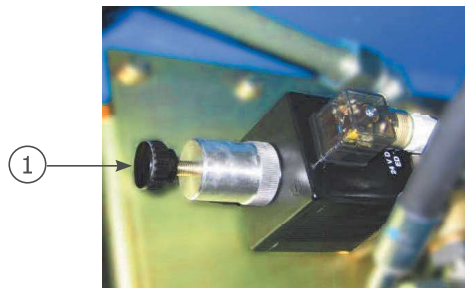


Fig. 11.1

Then control the outriggers directly from the distributor, by using the two threadless levers.

In order to reactivate the crane functions, unscrew the selection screw (fig. 11.1 - position 1).



Once the emergency operations are completed, immediately go to an authorised FASSI service centre for any necessary repair.

11.2 – Crane control by radio - Distributor on the column

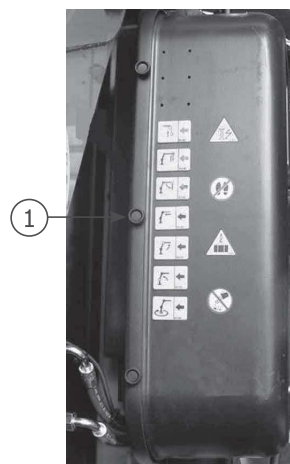
In case of working anomalies of radio remote control, levers on control handle may be useless: if a ground control station is not fitted, immediately contact an authorised FASSI service centre.

If a particular danger occurs for persons or things, it is possible to carry out some emergency operations from the distributor placed on the crane column: reduce the outreach, lay down the load and, if possible, place the crane in transport position in the vehicle body. If there are not suitable safety conditions, immediately contact an authorised FASSI service centre.

In order to use the distributor on the column, it is necessary to:

- remove the carter shown in fig. 11.2 - position 1;
- enable the manual control mode by selecting the icon R/M from the control panel (refer to chapter 4, paragraph "Procedure to pass from radio remote to manual control mode (and vice versa)");
- operate the crane by using the threadless lever.

In order to control the crane from the distributor on the column, refer to paragraph 5.3 "Ground control station".












Control layout	
implements	 PO184
	 PO192
	 PO181
	 PO199
	 PO198
standard crane	 PO187
	 PO175
	 PO173
	 PO182

Fig. 11.2



If you use the distributor on the column, pay special attention to moving parts (such as crane booms, rams and column), where higher crushing, trapping and shearing danger occurs.

i If failure occurs and you cannot reach the distributor in a safe way, it is not possible to operate an emergency control (as it occurs when the hydraulic system is broken or there is no oil feeding to the distributor). In this situation you must contact an authorised FASSI service centre.

11.3 – Temporary override of crane functions

In case of working anomalies of the lifting moment limiting device or irreversible crane block, it is necessary to deactivate all the safety devices by operating the override system:

- version A: fig. 11.3 or fig. 11.4 - position 1
- and/or
- version B: fig. 11.5 - position 1.

Version A: remove the safety seal and turn the tap (fig. 11.3 or fig. 11.4 - position 1) clockwise.

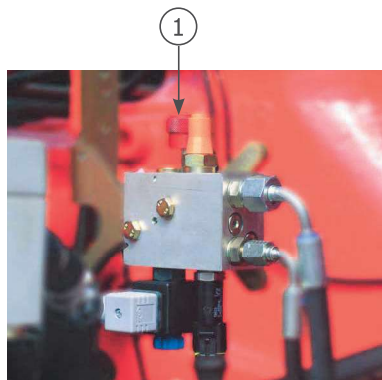


Fig. 11.3

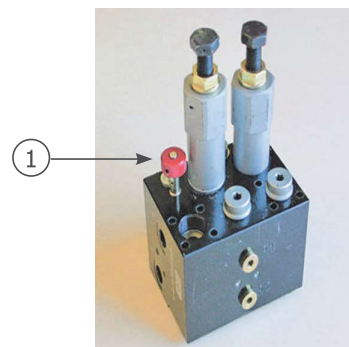


Fig. 11.4

Version B: remove the safety seal, push the tap (fig. 11.5 - position 1) and turn it clockwise (fig. 11.6).

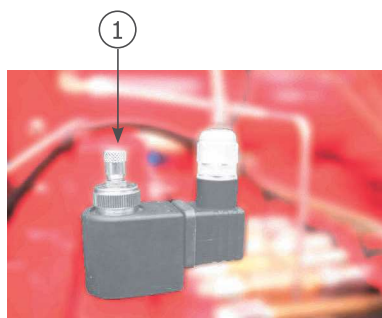


Fig. 11.5

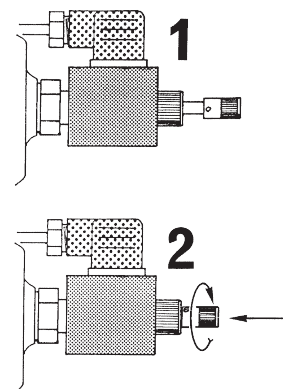


Fig. 11.6

Once the anomaly is solved, turn the tap anti-clockwise and pull it, in order to place it again into its original position.



It is forbidden to work once the safety seals have been removed.



Only in case of working anomalies of the lifting moment limiting device or irreversible crane block, it is possible to remove the seal on the override system and deactivate the safety devices.



The temporary exclusion of the lifting moment limiting device and the related manoeuvres may undergo an overload condition and involve hazards of accidents (even serious) for the operator and other persons, as well as damage to the crane.

In these conditions (with lifting moment limiting device deactivated), the operator, who is the main responsible for the machine safety, must:

- carefully consider the operations he wants to carry out, in order to exit from the emergency situation (in any case, with extension boom sections out, first it is compulsory to operate their reentry);
- calmly and carefully assess the type and scale of the hazards arising from these manoeuvres and the possible reaction of the crane (overturning, frame overload, uncontrolled load descent due to hydraulic system overload, etc.);
- perform all movements as slowly as possible, to minimize the dynamic overload.



Once the emergency operations are completed and prior to other crane operations, immediately go to an authorised FASSI service centre to check the structure and seal the device.



Tampering with check valves and breaking of safety seals release FASSI from any responsibility and invalidate the warranty.

11.4 – Rupture of the crane pump

In case of rupture of the crane pump, immediately turn off the vehicle engine, close the pump tap and contact an authorised FASSI service centre.