



Cage Unloading System

DUMPER TROUBLESHOOTING

PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
System will not reset	<ol style="list-style-type: none"> 1. Fencing gate open 2. Operators gate open 3. Gate sensor alignment 4. Cradle lock alignment 5. Ball valve closed 6. Faulty sensor 7. Faulty sensor cable 8. Faulty smart relay 9. Faulty contact block or switch 	<ol style="list-style-type: none"> 1. Check and close all fencing gates 2. Check and close operators gate 3. Check sensor to ensure within 1/4" of contact plate 4. Ensure cradle lock is disengaged and aligned with sensor 5. Open ball valve 6. Locate and replace faulty sensor (091-20352) 7. Locate and replace faulty sensor cable (091-20352.1/.2/.3) 8. Replace smart relay (091-21961t) 9. Check and replace as needed
Machine will not start or breaker/smart relay box will not light up	<ol style="list-style-type: none"> 1. Master power switch off 2. Main power to breaker box faulty 3. Faulty 15a breaker 4. Faulty 1a fuse 5. Faulty transformer / dc power supply 6. Faulty 10a breaker 7. Faulty solid state relay 8. Faulty smart relay 	<ol style="list-style-type: none"> 1. Check to ensure master power switch is on. 2. Check main power source for 120v, neutral and ground 3. Check for tripped or faulty breaker (190-00680) 4. Check 1a fuse and replace if needed (190-00685) 5. Check transformer and replace if needed (see parts manual) 6. Check for tripped or faulty breaker (190-00679) 7. Replace solid state relay (190-00718) 8. Replace smart relay (091-21961t)



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PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
Safety arm will not raise or lower	<ol style="list-style-type: none"> 1. Tripped or faulty breaker 2. Blown hose 3. Faulty coil 4. Faulty hydraulic valve 5. Faulty flow control valve 6. Faulty pressure reducing valve 7. Worn out cylinder 8. Faulty smart relay 	<ol style="list-style-type: none"> 1. Check for tripped or faulty breaker (190-00678) 2. Replace hose (see parts manual) 3. Replace coil (091-24340) 4. Replace hydraulic cartridge valve (091-24339) 5. Replace flow control valve (810-00192) 6. Replace pressure reducing valve (810-00227) 7. Replace cylinder (170-00002) 8. Replace smart relay (091-21961t)
Cradle creeping up	<ol style="list-style-type: none"> 1. Faulty check valve 2. Cylinder bypassing 	<ol style="list-style-type: none"> 1. Replace check valve (810-00020) 2. Replace cylinder (091-20085d)
Cradle will not move up or down	<ol style="list-style-type: none"> 1. Blown hose 2. Worn out cylinder 3. Faulty 5 section valve 4. Faulty anti shake valve 5. Worn out anti shake cylinder 6. Faulty flow control valve 	<ol style="list-style-type: none"> 1. Replace hose (see parts manual) 2. Replace cylinder (091-20085d) 3. Replace 5 section valve (810-00080) 4. Replace anti shake valve (810-00085) 5. Replace anti shake cylinder (170-00003) 6. Replace flow control valve (330-00144)



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PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
Transfer chains will not raise and lower	<ol style="list-style-type: none"> 1. Tripped or faulty breaker 2. Blown hose 3. Faulty coil 4. Faulty hydraulic valve 5. Faulty flow control valve 6. Faulty sensor 7. Worn out cylinder 8. Faulty smart relay 	<ol style="list-style-type: none"> 1. Check for tripped or faulty breaker (190-00678) 2. Replace hose (see parts manual) 3. Replace coil (091-24340) 4. Replace hydraulic cartridge valve (091-24339) 5. Replace flow control valve (810-00192) 6. Replace faulty sensor (091-20352) 7. Replace cylinder (091-20418) 8. Replace smart relay (091-21961t)
Transfer chains not moving left or right	<ol style="list-style-type: none"> 1. Tripped or faulty breaker 2. Blown hose 3. Broken drive chain 4. Worn sprocket 5. Chain stuck to guide rail 6. Worn out cages 7. Faulty coil 8. Faulty hydraulic valve 9. Faulty flow control valve 10. Faulty sensor 11. Faulty smart relay 12. Broken transfer chain 	<ol style="list-style-type: none"> 1. Check for tripped or faulty breaker (190-00678) 2. Replace hose (see parts manual) 3. Replace chain (110-00001h) 4. Replace worn sprocket (refer to parts manual) 5. Separate chain from guide rail and lube chain 6. Contact brightcoop for new cage 7. Replace coil (091-24340) 8. Replace hydraulic cartridge valve (091-24359) 9. Replace flow control valve (810-00192) 10. Replace faulty sensor (091-20352) 11. Replace smart relay (091-21961t) 12. Replace chain (110-00063)



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PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
Transfer chain does not come up evenly	1. Faulty flow divider	1. Replace flow divider (091-20525)
Transfer chain will not move cage	1. Worn transfer chain 2. Worn chain guide rail	1. Replace chain (110-00063) 2. Replace chain guide rail (091-21413)
Door closer does not cycle correctly	1. Door closer switch not on 2. Tripped or faulty breaker 3. Blown hose 4. Worn out door closer paddle 5. Faulty coil 6. Faulty hydraulic valve 7. Faulty flow control valve 8. Faulty sensor 9. Faulty smart relay 10. Worn out cylinder	1. Turn switch on 2. Check for tripped or faulty breaker (190-00678) 3. Replace hose (see parts manual) 4. Replace door closer paddle (091-21607) 5. Replace coil (091-24340) 6. Replace hydraulic cartridge valve (091-24339) 7. Replace flow control valve (810-00192) 8. Replace faulty sensor (091-20352) 9. Replace smart relay (091-21961t) 10. Replace cylinder (170-00002)
Door closer doesn't close doors	1. Worn out wear pads 2. Worn out cages	1. Replace wear pads (410-00062) 2. Contact brightcoop for new cages



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PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
Roller bed won't move cages	<ol style="list-style-type: none"> 1. Worn out roller 2. Worn sprocket 3. Broken chain 4. Blown hose 5. Worn out bearing 6. Faulty coil 7. Faulty shutdown valve 8. Faulty flow control valve 9. Faulty 5 section valve 10. Faulty hydraulic motor 11. Faulty smart relay 12. Worn out cages 	<ol style="list-style-type: none"> 1. Replace roller (see parts manual) 2. Replace sprocket (see parts manual) 3. Replace chain (110-00001h) 4. Replace hose (see parts manual) 5. Replace bearing (030-00018d) 6. Replace coil (091-24340) 7. Replace cartridge valve (091-24338) 8. Replace flow control valve (330-00144) 9. Replace 5 section valve (810-00080) 10. Replace motor (450-00004) 11. Replace smart relay (091-21961t) 12. Contact brightcoop for new cages



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PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
Receiving belt will not run	<ol style="list-style-type: none"> 1. Intralox belt too loose 2. Blown hose 3. Broken chain 4. Worn sprocket 5. Broken counter shaft 6. Broken drive shaft 7. Worn bearing 8. Broken intralox belt 9. Broken intralox sprocket 10. Faulty coil 11. Faulty shutdown valve 12. Faulty flow control 13. Faulty hydraulic motor 14. Faulty knee lever valve (on hanging belt) 	<ol style="list-style-type: none"> 1. Adjust take-up and/or remove belt section as needed 2. Replace hose (see parts manual) 3. Replace chain (110-00001h) 4. Replace sprocket (see parts manual) 5. Replace counter shaft (see parts manual) 6. Replace drive shaft (see parts manual) 7. Replace bearing (see parts manual) 8. Replace intralox belt (see parts manual) 9. Replace intralox sprocket (050-00071) 10. Replace coil (091-24340) 11. Replace cartridge valve (091-24338) 12. Replace flow control (330-00272) 13. Replace motor (450-00004) 14. Replace knee lever valve (810-00084)



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DUMPER TROUBLESHOOTING (CONT'D)

PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
Extension belt will not run	<ol style="list-style-type: none"> 1. Intralox belt too loose 2. Blown hose 3. Broken chain 4. Worn sprocket 5. Broken counter shaft 6. Broken drive shaft 7. Worn bearing 8. Broken intralox belt 9. Broken intralox sprocket 10. Faulty coil 11. Faulty shutdown valve 12. Faulty flow control 13. Faulty hydraulic motor 14. Faulty knee lever valve (on hanging belt) 	<ol style="list-style-type: none"> 1. Adjust take-up and/or remove belt section as needed 2. Replace hose (see parts manual) 3. Replace chain (110-00001h) 4. Replace sprocket (see parts manual) 5. Replace counter shaft (see parts manual) 6. Replace drive shaft (see parts manual) 7. Replace bearing (see parts manual) 8. Replace intralox belt (see parts manual) 9. Replace intralox sprocket (050-00071) 10. Replace coil (091-24340) 11. Replace cartridge valve (091-24338) 12. Replace flow control (330-00272) 13. Replace motor (450-00004) 14. Replace knee lever valve (810-00084)



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DUMPER TROUBLESHOOTING (CONT'D)

PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
Hanging belt will not run	<ol style="list-style-type: none"> Intralox belt too loose Blown hose Broken chain Worn sprocket Broken drive shaft Worn bearing Broken intralox belt Broken intralox sprocket Faulty coil Faulty shutdown valve Faulty flow control Faulty hydraulic motor Faulty knee lever valve (on hanging belt) 	<ol style="list-style-type: none"> Adjust take-up and/or remove belt section as needed Replace hose (see parts manual) Replace chain (110-00001h) Replace sprocket (see parts manual) Replace drive shaft (see parts manual) Replace bearing (see parts manual) Replace intralox belt (see parts manual) Replace intralox sprocket (050-00071) Replace coil (091-24340) Replace cartridge valve (091-24338) Replace flow control (330-00272) Replace motor (450-00004) Replace knee lever valve (810-00084)
Hanging belt runs, but receiving/extension belts do not	<ol style="list-style-type: none"> Not enough pressure on knee lever Knee lever linkage out of adjustment Pin out of knee lever linkage Faulty 2 section valve 	<ol style="list-style-type: none"> Operator needs to push knee lever fully Adjust or replace knee lever linkage (see parts manual) Replace pin (see parts manual) Replace 2 section valve (810-00084)
Receiving/extension belts run, but hanging belt does not	<ol style="list-style-type: none"> Knee lever linkage out of adjustment Pin out of knee lever linkage Faulty 2 section valve 	<ol style="list-style-type: none"> Adjust or replace knee lever linkage (see parts manual) Replace pin (see parts manual) Replace 2 section valve (810-00084)



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PROBLEM	PROBLEM CAUSE	CORRECTIVE ACTION
Not enough birds on hanging belt	<ol style="list-style-type: none"> 1. Receiving/extension belt speed too slow 2. Hanging belt speed too fast 	<ol style="list-style-type: none"> 1. Adjust flow control at extension cage to speed up 2. Adjust flow control at hanging belt to slow down
Too many birds on hanging belt	<ol style="list-style-type: none"> 1. Receiving/extension belt speed too fast 2. Hanging belt speed too slow 	<ol style="list-style-type: none"> 1. Adjust flow control at extension cage to slow down 2. Adjust flow control at hanging belt to speed up
Hydraulic equipment slows unexpectedly	<ol style="list-style-type: none"> 1. Ball valve in tank closed / partially closed 2. Dirty return filter 3. Dirty high pressure filter 4. Faulty return filter head 5. Faulty pump 	<ol style="list-style-type: none"> 1. Check ball valve in tank 2. Replace return oil filter (230-00060) 3. Check gage and replace as needed (230-00059) 4. Replace return filter head (230-00022) 5. Replace pump (530-00026)
Oil in reservoir churning at return filter	<ol style="list-style-type: none"> 1. Oil is bypassing without machine running 	<ol style="list-style-type: none"> 1. Check all valves at manifold for bypassing <ol style="list-style-type: none"> 1A. Check all cylinders for bypassing 1B. Check 5 section valve for bypassing 1C. Check hanging belt valve for bypassing 1D. Check for presence of orifice at port #4 on manifold
Oil in reservoir churning at pump case drain (3/4" hose)	<ol style="list-style-type: none"> 1. Faulty pump 	<ol style="list-style-type: none"> 1. Replace pump (530-00026)
Excessive back pressure on manifold gage	<ol style="list-style-type: none"> 1. Dirty return filter 2. Ball valve in main return line closed/partially closed 	<ol style="list-style-type: none"> 1. Replace return filter (230-00060) 2. Check ball valve in tank