CEBM012100

Shop Manual

KOMATSU®

GALEO

PC300LL-7L

HYDRAULIC EXCAVATOR

SERIAL NUMBERS **PC300LL-7L** **A85001** and UP

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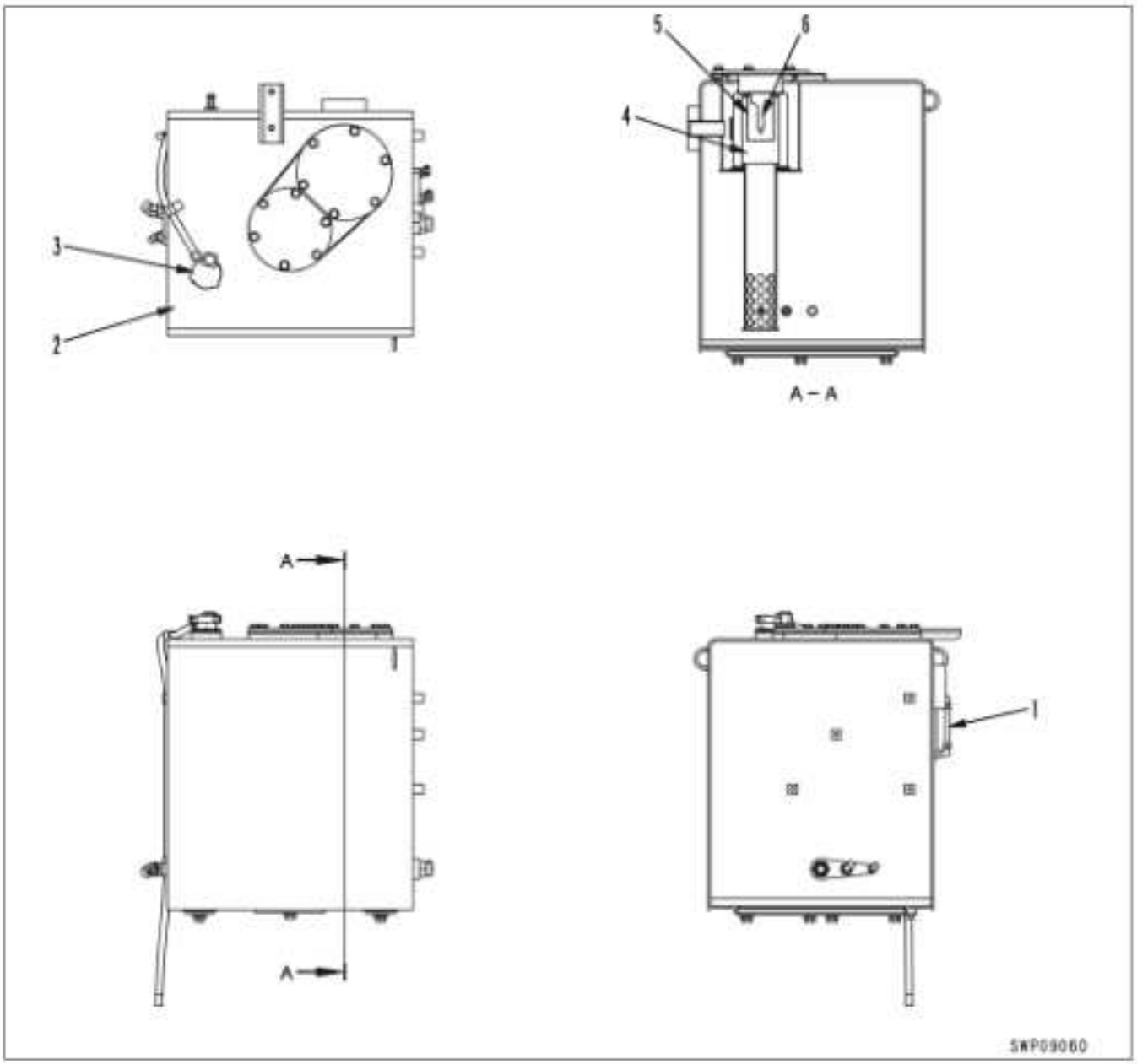
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HYDRAULIC TANK



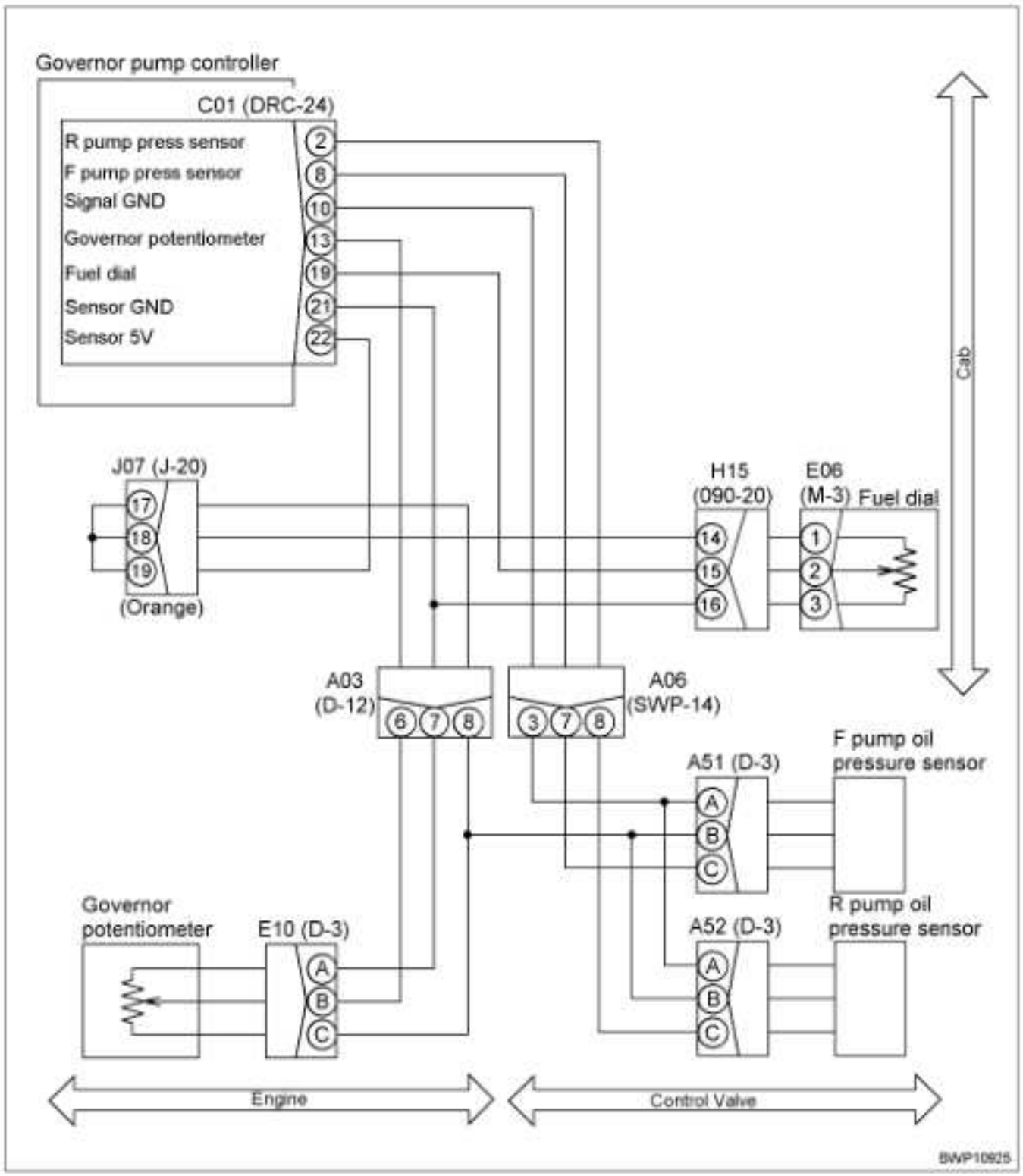
1. Sight gauge
2. Hydraulic tank
3. Oil filler cap
4. Filter element
5. Strainer
6. Bypass valve

SPECIFICATIONS

Tank capacity: 275 L (73 gal)
Amount of oil inside tank: 188 L (50 gal)
Pressure valve
Relief cracking pressure:
0.17 ± 0.07 kg/cm²
(2.4 ± 1.0 PSI)
Suction cracking pressure:
0 - 0.005 kg/cm²
(0 - 0.071 PSI)
Bypass Valve set pressure:
1.5 ± 0.3 kg/cm²
(21.3 ± 4.3 PSI)

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ELECTRICAL CIRCUIT DIAGRAM FOR SENSOR POWER SOURCE



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(H-11)

WORK EQUIPMENT HAS EXCESSIVE HYDRAULIC DRIFT

Failure information (1)	• Hydraulic drift of the boom is a bit too fast.
Relative information	• Set the working mode at A mode for the troubleshooting.

Presumed cause and standard value		Cause	Standard value and references for troubleshooting	
	1	Boom cylinder defective	★ Stop engine for preparations. Start troubleshooting at engine high idle.	
			Boom control lever	Amount oil leakage from cylinder
			Raise relief	20 cc/min (0.7oz/min)
	2	Boom control lever (lock valve) seal defective	The seal at lock valve in the boom control valve (Lo) is suspected to be defective. Check the valve itself.	
	3	Seal at safety valve for lock valve defective	The seal at the safety valve in the lock valve is suspected to be defective. Check the valve itself.	

Failure information (2)	• Hydraulic drift of the arm is a bit too fast.
Relative information	• Set the working mode at A mode for the troubleshooting.

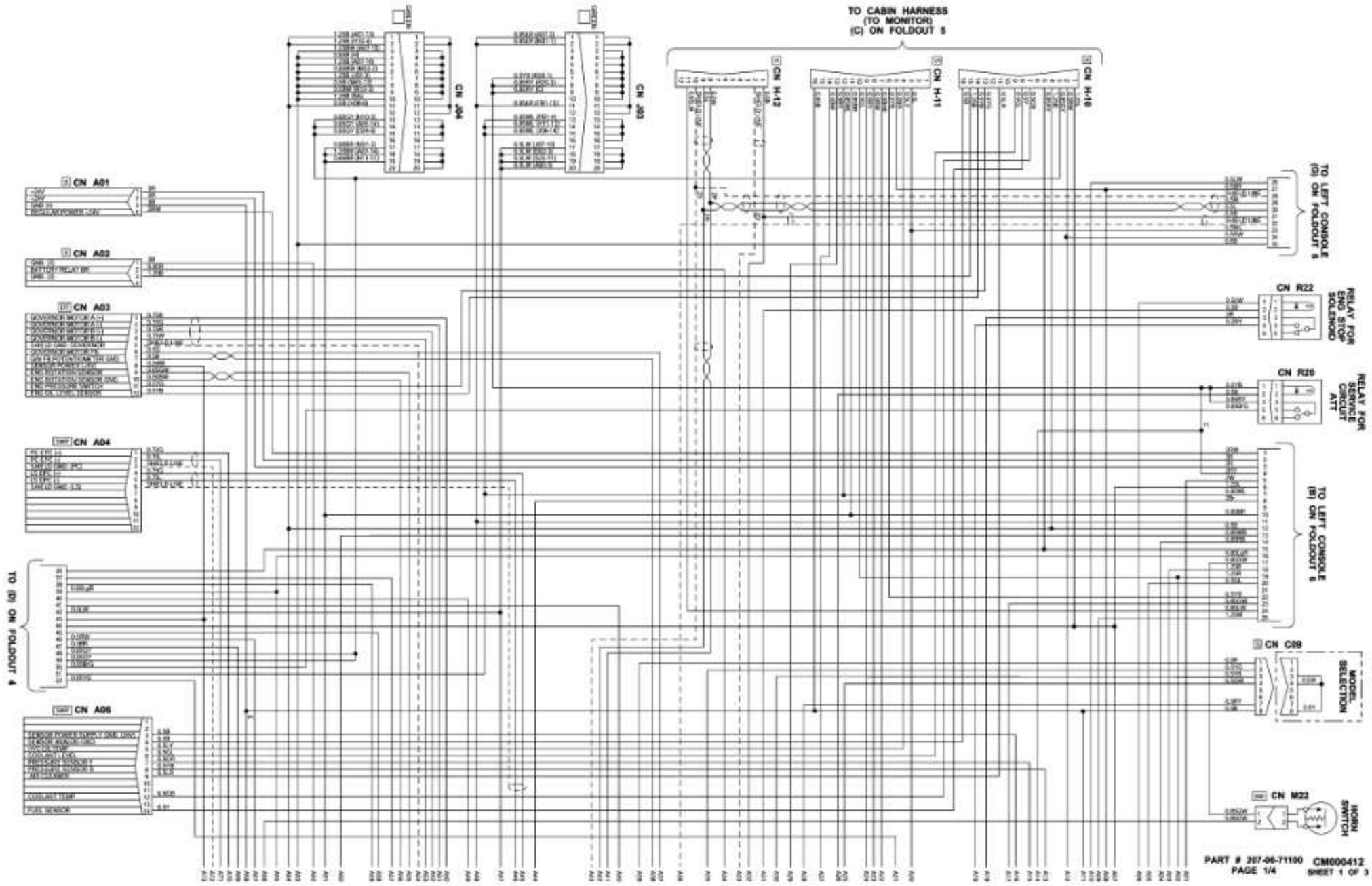
Presumed cause and standard value		Cause	Standard value and references for troubleshooting	
	1	Arm cylinder defective	★ Stop engine for preparations. Start troubleshooting at engine high idle.	
			Arm control lever	Amount oil leakage from cylinder
			Digging relief	20 cc/min (0.7oz/min)
	2	Arm control valve (safety and suction valves) seal defective	The seal for safety and suction valves in the arm control valve (Lo • Hi) is suspected to be defective. Check the valve itself. ★ Whether the seal is defective or not may well be determined by changing for other safety and suction valves. (Do not attempt to change them for the safety and suction valves for the boom LOWER and the lock valve, because the set pressure differs)	
	3	Arm control valve (spool) seal defective	The seal for spool in the arm control valve (Lo • Hi) is suspected to be defective. Check the seal itself.	
	4	Arm control valve (pressure compensation valve) seal defective	The seal for pressure compensation valve in the arm control valve (Lo • Hi) is suspected to be defective. Check the seal itself.	

Failure information (3)	• Hydraulic drift of the bucket is a bit too fast.
Relative information	• Set the working mode at A mode for the troubleshooting.

Presumed cause and standard value		Cause	Standard value and references for troubleshooting	
	1	Bucket cylinder defective	★ Stop engine for preparations. Start troubleshooting at engine high idle.	
			Bucket control lever	Amount oil leakage from cylinder
			Digging relief	20 cc/min
	2	Bucket control valve (safety and suction valves) seal defective	The seal for the safety and suction valves in the bucket control lever is suspected to be defective. Check the seal itself. ★ Whether the seal is defective or not may well be determined by changing for other safety and suction valves. (Do not attempt to change them for the safety and suction valves for the boom LOWER and the lock valve, because the set pressure differs)	
	3	Bucket control valve (spool) seal defective	The seal for spool in the bucket control valve is suspected to be defective. Check the seal itself.	
	4	Bucket control valve (pressure compensation valve) seal defective	The seal for pressure compensation valve in the bucket control valve is suspected to be defective. Check the seal itself.	

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ELECTRICAL
ELECTRICAL DIAGRAM 1/4 (SHEET 1 OF 3) FOLDOUT 1



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