A TEREX COMPANY

Service Manual

Serial Number Range

Z-34/22

from Z3406-4800 to
Z3414-9685

Bi-Energy Power

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Specifications

Machine Specifications

Tires and wheels	Industrial
Tire size	9-14.5 LT
Tire ply rating	Tread 6 Sidewall 6
Tire weight, new foam-filled (minimum) (Rough terrain)	175 lbs 79 kg
Overall tire diameter	28 in 71.1 cm
Wheel diameter	14.5 in 36.8 cm
Wheel width	7 in 17.8 cm
Wheel lugs Front Rear	 8 @ 5/8 -18 9 @ 5/8 -18
Lug nut torque, dry	125 ft-lbs 170 Nm
Lug nut torque, lubricated	95 ft-lbs 129 Nm
Tire pressure	100 psi 6.89 bar
Fuel capacities	
Fuel tank	9.3 gallons 35.2 liters
Hydraulic tank	4 gallons 15.1 liters
Hydraulic system (including tank)	6 gallons 22.7 liters
Drive hubs	17 fl oz 503 cc

Drive hub oil type: SAE 90 multipurpose hypoid gear oil API service classification GL5

Performance Specifications

Drive speed, maximum	
Stowed position	3.7 mph 5.9 km/h 40 ft / 7.5 sec 12.2 m / 7.5 sec
Raised or extended	0.6 mph 0.98 km/h 40 ft / 45 sec 12.2 m / 45 sec
Gradeability	See Operator's Manual
Braking distance, maximum	
High range on paved surface	3 to 4 ft 0.9 to 1.2 m

Joystick function speeds, maximum from platform controls	
Primary boom up	15 to 21 seconds
Primary boom down	12 to 18 seconds
Primary boom extend	12 to 18 seconds
Primary boom retract	12 to 18 seconds
Secondary boom up	15 to 21 seconds
Secondary boom down	12 to 18 seconds
Jib boom up	23 - 29 seconds
Jib boom down	20 to 26 seconds
Turntable rotate, 355°	57 to 63 seconds
Platform rotate, 180°	6 - 11 seconds
Platform level up	10 to 20 seconds
Platform level down	10 to 20 seconds

For operational specifications, refer to the Operator's Manual.

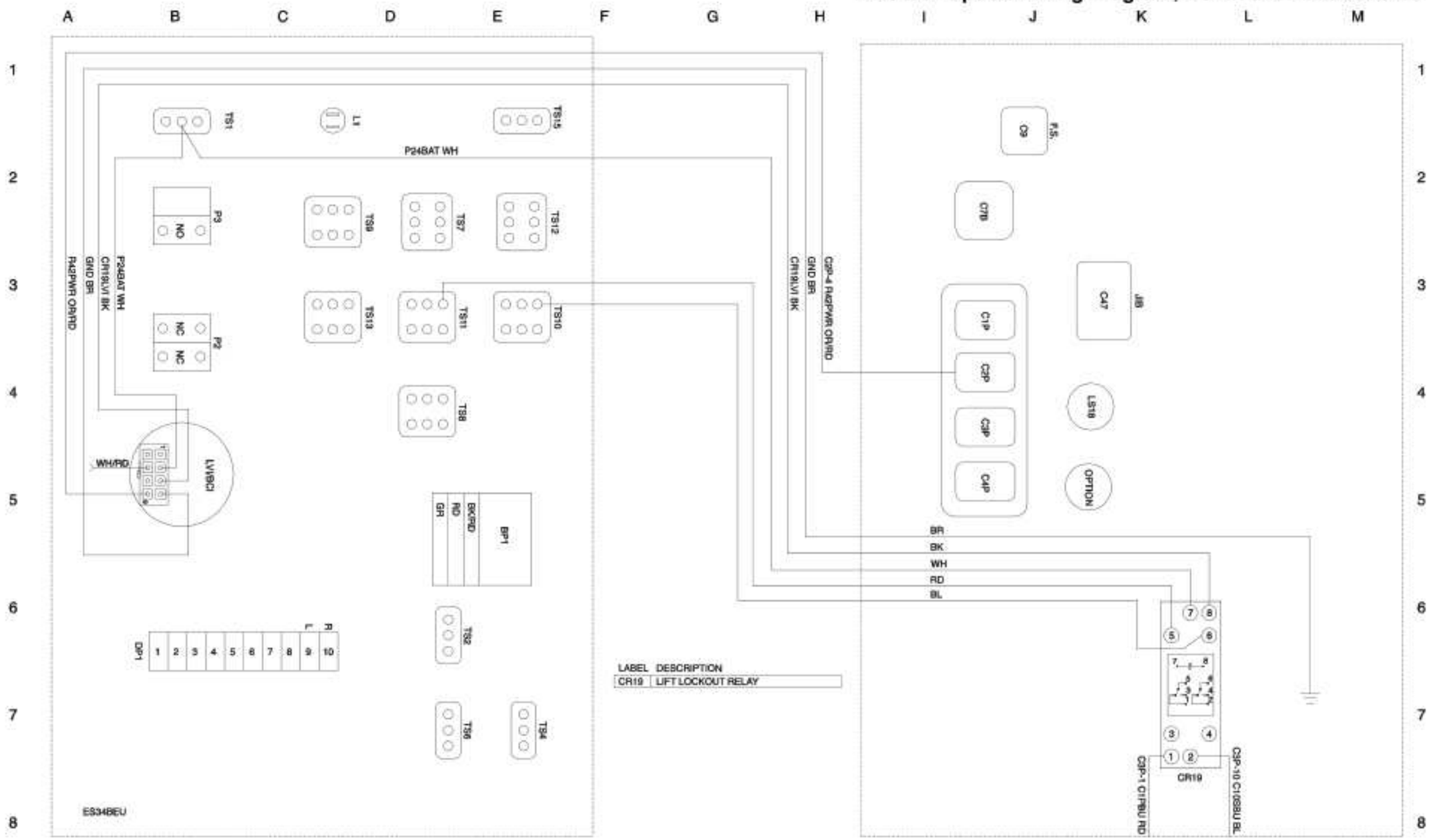
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Fault Code Chart

Fault Code	Programmer Diagnostic Display	Condition	Possible Causes	Solution
Fault code LED is off or is on, but not blinking	COMMUNICATION ERROR	Machine will not drive.	The key switch or Emergency Stop button(s) was cycled on and off faster than 5 seconds OR controller sensed an internal error during start up.	Push in the ground control red Emergency Stop button to the off position and wait for 5 seconds. Pull out the ground control red Emergency Stop button to the on position. If problem persists, replace the motor controller.
1		Normal operation.		
12	HW FAILSAFE 1-2-3	Machine will not drive.	The motor controller failed self test.	Replace the motor controller.
13	M- SHORTED	Machine will not drive.	The motor controller has a internal short between M- and B- terminals.	Test the motor controller. See Repair Section.
	FIELD OPEN	Machine will not drive.	Motor wiring is loose OR motor is defective OR motor controller has an internal short.	Check for loose or open connections at the drive motors and motor controller OR replace the defective drive motor OR test the motor controller. See Repair Section.
	ARM SENSOR	Machine will not drive.	Defective motor controller.	Replace the motor controller.
	FLD SENSOR	Machine will not drive.	Defective motor controller.	Replace the motor controller.

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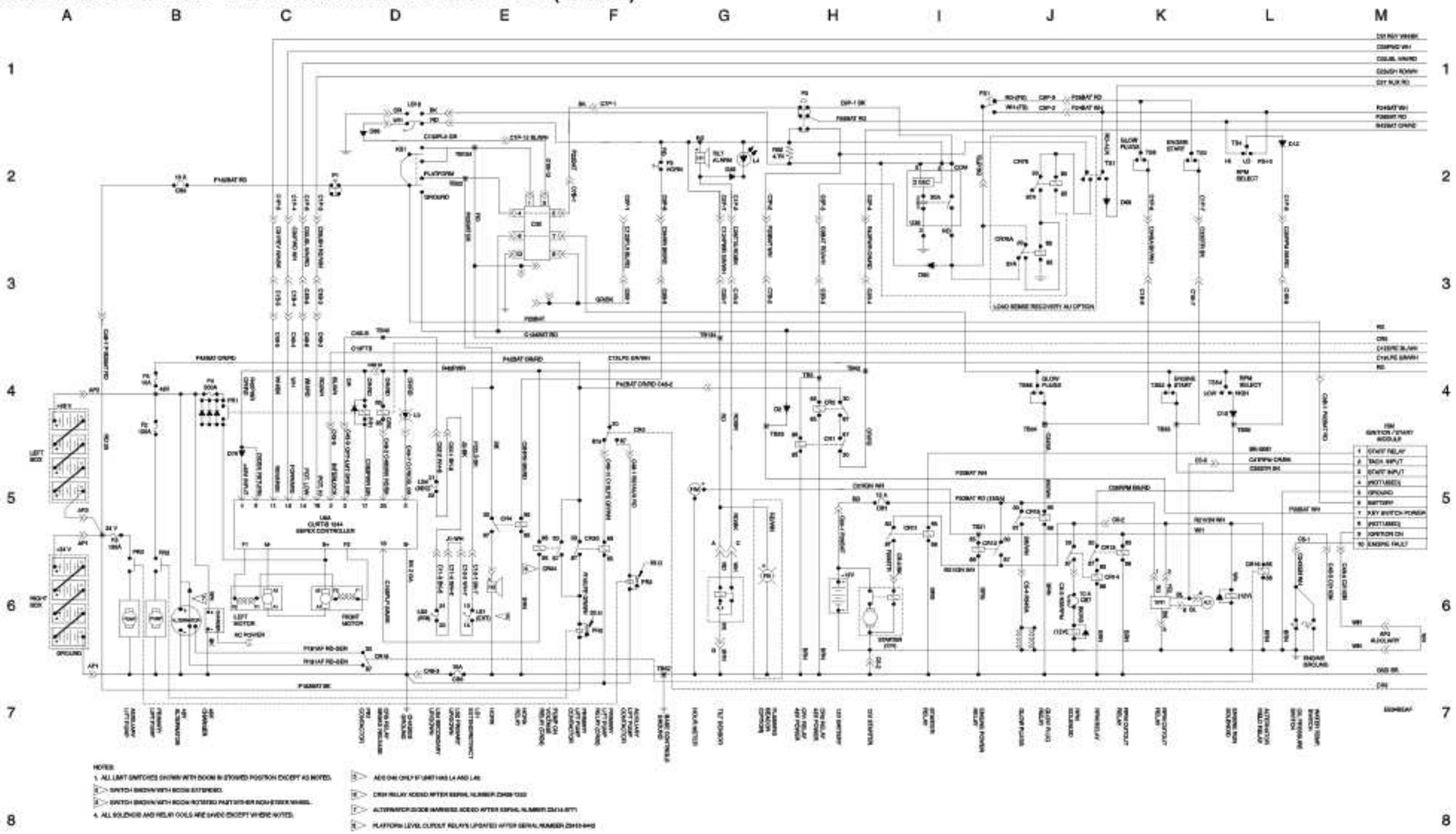
LVI / BCI Option Wiring Diagram, from serial number 5427



LABEL	DESCRIPTION
CR19	LIFT LOCKOUT RELAY

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Electrical Schematic - from serial number 9442 to 9685 (CE /AS)



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