SKYJACK

SERVICE MANUAL

SJ82 T, SJ86 T

TELESCOPIC BOOMS



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ANSI/CSA, CE, AS

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Table 2.11 Engine Specifications

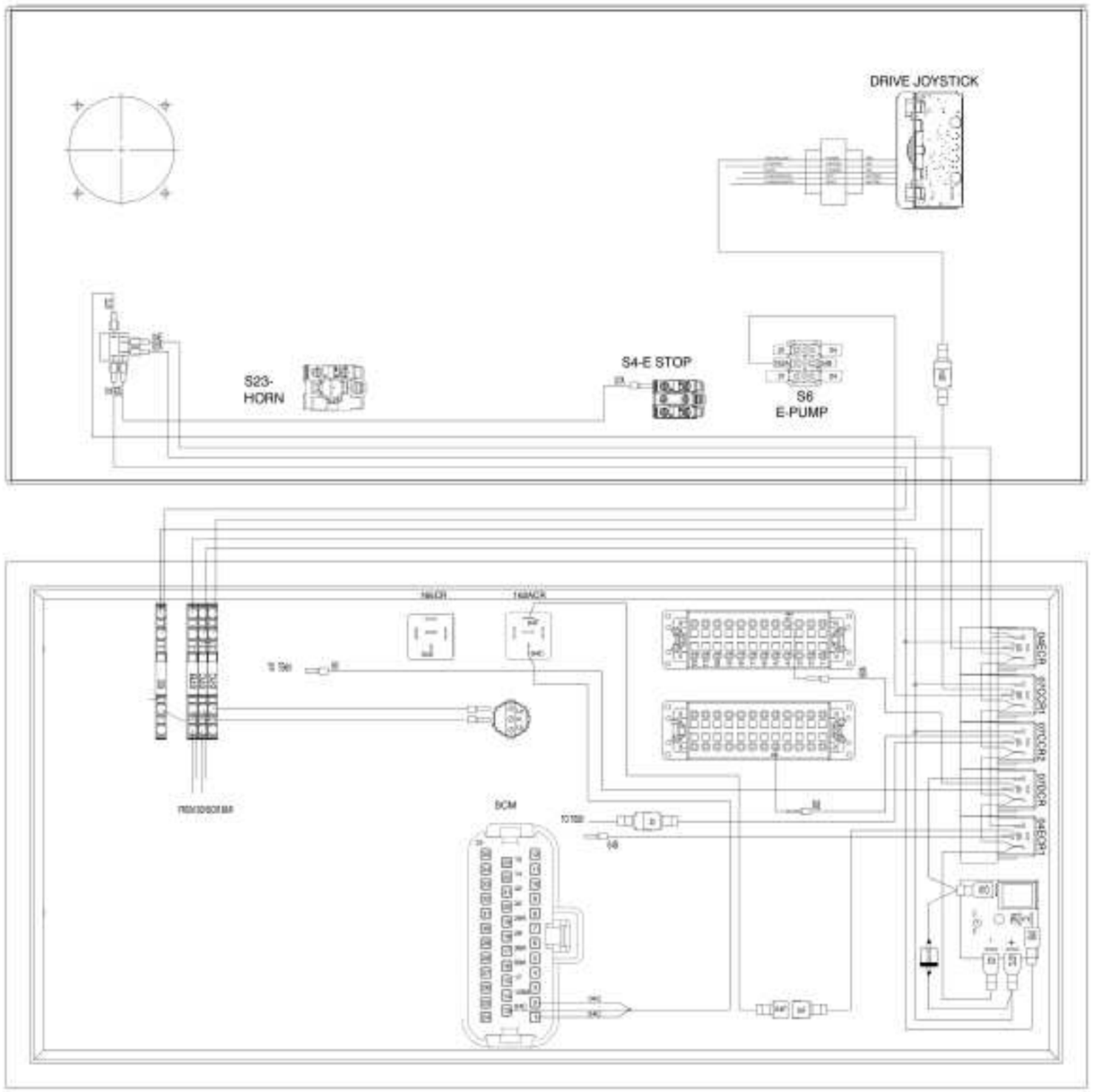
			SJ82T/SJ86T
Deutz TD2.9L	RPM Settings		900 Low / 1600 / 2600 High
	Horsepower @ 2600 rpm (intermittent)		55.4 kW / 75 hp
	Fuel Type		Diesel
	Fuel Tank Capacity		45 gal (170.3 L)
	Standard Oil Factory Fill	0°F to 115°F (-18°C to 45°C)	SAE 15W-40 API CF/CG/CH-6
	Cold Lube Oil Option	-20°F to 90°F (-29°C to 32°C)	SAE 5W-30 API CF/CG/CH-6
	Arctic Lube Oil Option	-40°F to 115°F (-40°C to 45°C)	SAE 0W-40 API CF/CG/CH-6
	Standard & Arctic Coolant	-40°F to 115°F (-40°C to 45°C)	Delo 50/50 Extended Life Coolant
	Coolant Capacity		3.0 gal (11.4 L)
	Lube Oil Sump Capacity		2.64 gal (10.0 L)
Deutz TCD2.2	RPM Settings		1200 Low / 1600 / 2600 High
	Horsepower @ 2600 rpm (intermittent)		55.4 kW / 75 hp
	Fuel Type		Diesel
	Fuel Tank Capacity		45 gal (170.3 L)
	Standard Oil Factory Fill	0°F to 115°F (-18°C to 45°C)	SAE 15W-40 API CF/CG/CH-6
	Standard Coolant	-40°F to 115°F (-40°C to 45°C)	Delo 50/50 Extended Life Coolant
	Coolant Capacity		3.0 gal (11.4 L)
	Lube Oil Sump Capacity		2.11 gal (8.0 L)
Deutz D2011L04i	RPM Settings		1600 Low / 2100 / 2675 High
	Horsepower @ 2600 rpm (intermittent)		48 kW / 65 hp
	Fuel Type		Diesel
	Fuel Tank Capacity		45 gal (170.3 L)
	Standard Oil Factory Fill	0°F to 115°F (-18°C to 45°C)	SAE 15W-40 API CF/CG/CH-6
	Cold Lube Oil Option	-20°F to 90°F (-29°C to 32°C)	SAE 5W-30 API CF/CG/CH-6
	Arctic Lube Oil Option	-40°F to 115°F (-40°C to 45°C)	SAE 0W-40 API CF/CG/CH-6
	Lube Oil Sump Capacity		2.64 gal (10.0 L)

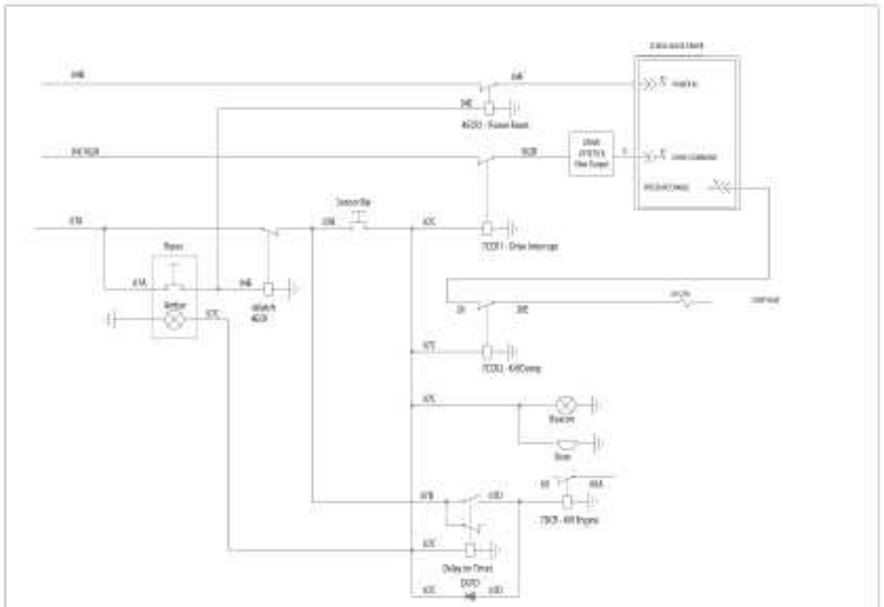
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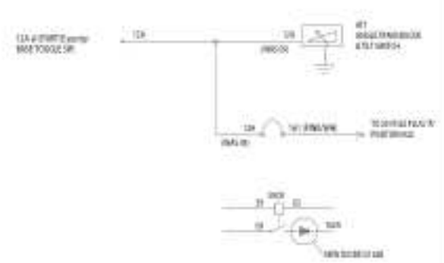
3.33 SGE Wiring Diagrams - ANSI/CSA

A	B	C	D	E	F	G	H





Base Modification - all models except SJ86T



Base Modification - SJ86T only



M0097AA, M0027AA

V W X Y Z

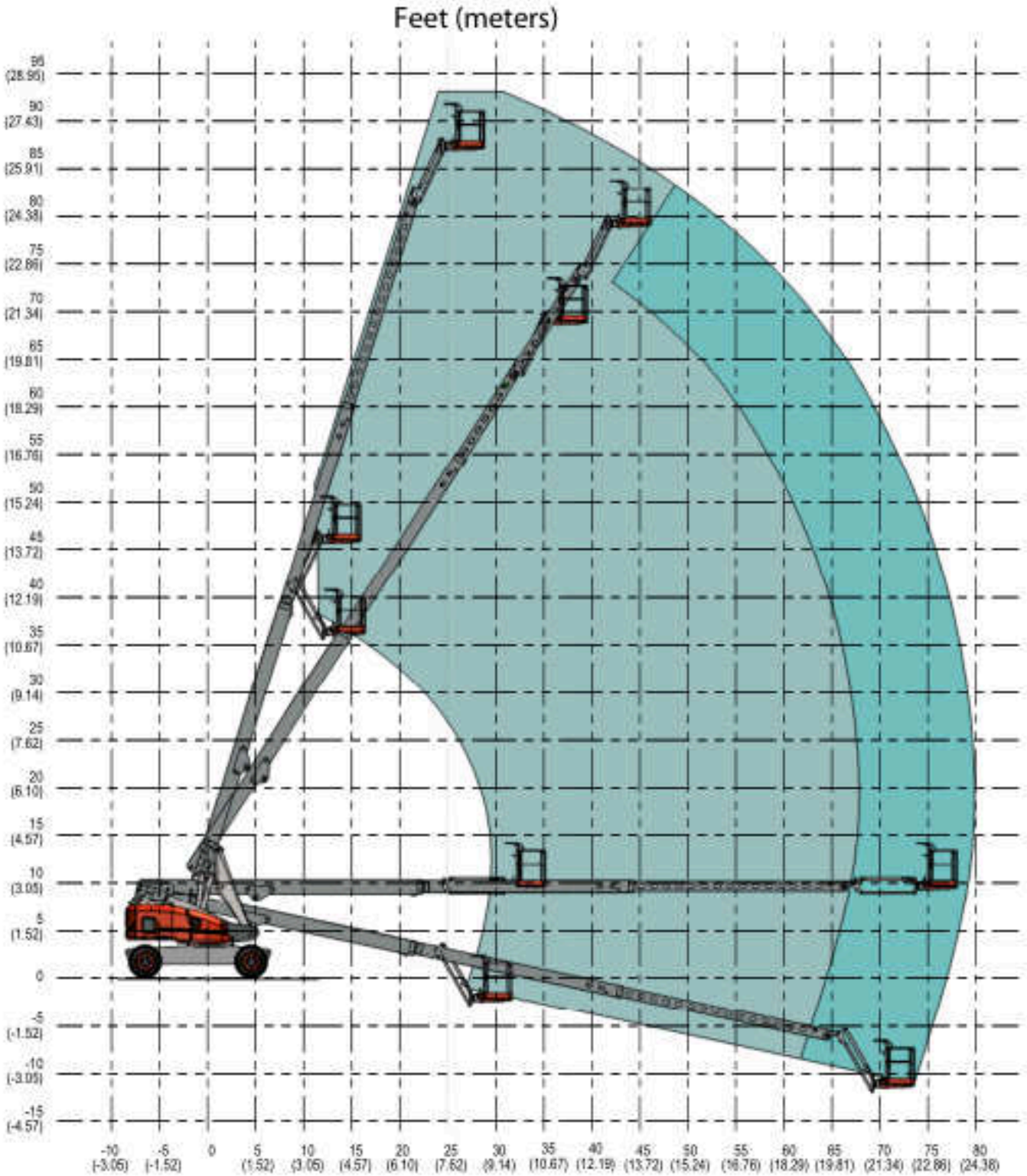
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5.8-7 Deutz TD2.9L Fault Codes (EMR5) - serial number A402 001 124 and above

EMR5 Error Codes				
DTC #	FTB	SPN	FMI	Fault description
P000F	F0	5571	15	Fuel pressure relief valve: data is above the normal operational range (least severe level)
P000F	F1	5571	16	Fuel pressure relief valve: data is above the normal operational range (moderately severe level)
P006D	64	1209	2	TC exhaust pressure sensor: data erratic, intermittent or incorrect
P0072	11	171	4	Ambient air temperature sensor: voltage is below the normal range or is shorted to a low source.
P0073	12	171	3	Ambient air temperature sensor: voltage is below the normal range or is shorted to a high source.
P007A	F0,F1	105	0	Charge air temperature sensor: data is above the normal operational range (most severe level)
P0087	21	7103	0	Rail pressure pump: data is below the normal operational range (most severe level)
P0088	22	7103	1	Rail pressure pump: data is above the normal operational range (most severe level)
P008A	F0,F1	94	1	Fuel low pressure sensor: data is below the normal operational range (most severe level)
P008B	22	94	15	Fuel low pressure sensor: data is above the normal operational range (least severe level)
P00C6	92	94	1	Charge air temperature sensor: data is below the normal operational range (most severe level)
P00E8	21	105	0	Fuel low pressure sensor: data is above the normal operational range (least severe level)
P00E8	22	105	0	Fuel low pressure sensor: data is below the normal operational range (most severe level)
P00FA	11	1209	4	TC exhaust pressure sensor: voltage is below the normal range or is shorted to a low source
P00FB	12	1209	3	TC exhaust pressure sensor: voltage is below the normal range or is shorted to a high source
P0106	2A	102	2	Charge air pressure sensor: data erratic, intermittent or incorrect
P0107	11	102	4	Charge air pressure sensor: voltage is below the normal range or is shorted to a low source
P0108	12	102	3	Charge air pressure sensor: voltage is below the normal range or is shorted to a high source
P0111	64	105	2	Charge air temperature sensor: data erratic, intermittent or incorrect
P0112	11	105	4	Charge air temperature sensor: voltage is below the normal range or is shorted to a low source
P0113	12	105	3	Charge air temperature sensor: voltage is below the normal range or is shorted to a high source
P0116	64	110	2	Coolant air temperature sensor: data erratic, intermittent or incorrect
P0117	11	110	4	Coolant air temperature sensor: voltage is below the normal range or is shorted to a low source
P0118	12	110	3	Coolant air temperature sensor: voltage is below the normal range or is shorted to a high source
P012B	21	1209	1	TC exhaust pressure sensor: Data is below the normal operational range (most severe level)

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Diagram 2.14 Reach Diagram - SJ86 T



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Standstill Regeneration Stages

Standstill Lamps ❹ ❹	Engine Lamp ❺	Audible Alarm ❻	Engine Torque	Action Required
Flashes slowly	Off	Pulsates slowly	100%	Do the standstill operation at the next available opportunity, within 3 to 4 hours.
Flashes slowly	On	Pulsates slowly	75%	Do the standstill operation immediately.
Flashes quickly	Flashes	Pulsates quickly	40%	a. The standstill operation is no longer possible with on-machine controls. Contact an authorized repair facility.
				b. Failure to do the standstill has caused diesel particulate filter failure, and regeneration is no longer possible. Contact an authorized repair facility to replace the filter.

Do the Standstill Regeneration

1. Move the MEWP to an open, well-ventilated area, away from any flammable material. Park it on a firm level surface, and fully stow the MEWP.
2. While the engine runs, turn the off/base/platform switch ❼ on the base controls to the base position.
3. Move the standstill switch ❽ on the base controls to the right to start the standstill regeneration. The base functions will not operate while the standstill switch is turned on.
4. On the engine display module ❷ press and hold the middle button ❾ (below the regeneration symbol) for 7 seconds.

⚠ WARNING

Do not touch hot engine components. Serious injury can occur if you touch hot surfaces.

5. The engine display module changes to the Regeneration Ongoing symbol ❿, the standstill lights illuminate continuously, and the engine speed can change.
6. Standstill regeneration takes approximately 45 minutes. During this time you must not use the MEWP.

IMPORTANT

Complete the standstill regeneration fully. If you interrupt the process, the standstill request continues.

7. When the standstill regeneration is complete, the Regeneration Ongoing symbol changes to Regeneration Complete ⓫, the standstill lights ❸❹ go off, and the engine speed goes back to normal.
8. Move the standstill switch to the left. You can use the MEWP normally.

IMPORTANT

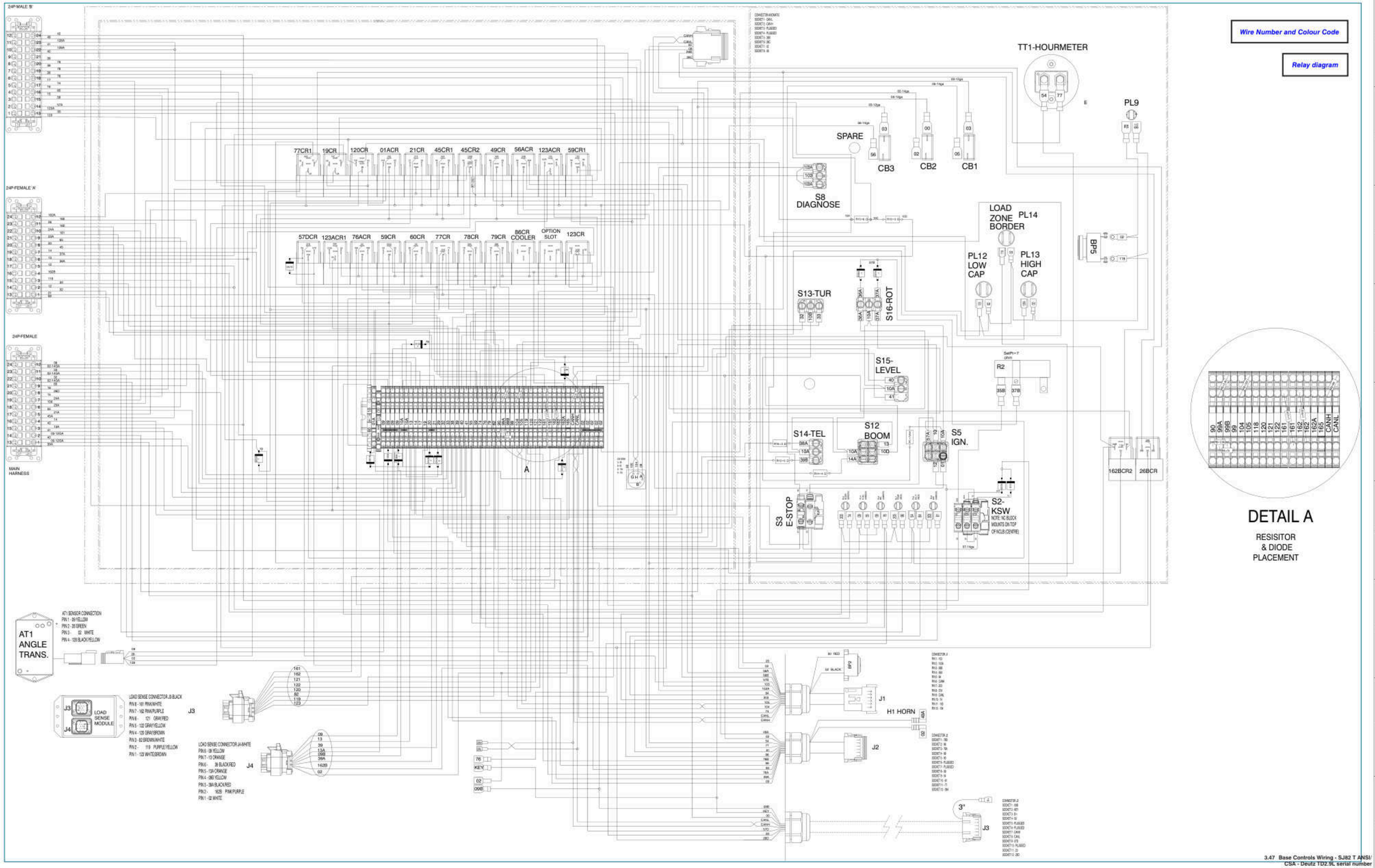
Only use the standstill regeneration override switch ⓬ on the front of the platform control box when absolutely necessary to move the MEWP to park it in a safe location when the derated engine torque/rpm prevents sufficient torque to drive the MEWP.

It temporarily (for approximately 30 minutes) restores full engine power and speed.

Use of the derate override switch can cause diesel particulate filter failure.

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3.47 Base Controls Wiring - SJ82 T ANSI/CSA - Deutz TD2.9L serial number A402 001 123 and below



M21R4G4C

3.47 Base Controls Wiring - SJ82 T ANSI/CSA - Deutz TD2.9L serial number A402 001 123 and below

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