

SERVICE MANUAL

W50C / W60C / W70C / W80C

Tier 4B (final)

Compact Wheel Loader

ELECTRICAL SYSTEMS - 55

[55.DTC] FAULT CODES - 55.5

2741 - 2894

3007 - 3657

Part number 47878217

English

May 2015





Electrical systems - 55

FAULT CODES - DTC

W50C ZB , W60C ZB , W70C HS , W70C , W80C HS , W80C

Contents

Electrical systems - 55

FAULT CODES - DTC

DIAGNOSTIC

2741-Power supply fault on Differential Lock solenoid (HSD) [UCM] (*)	13
2742-Open circuit on Differential lock solenoid (HSD) [UCM] (*)	14
2743-Short circuit to battery on Differential lock solenoid (HSD) [UCM] (*)	15
2744-Short circuit to ground on Differential lock solenoid (HSD) [UCM] (*)	16
2745-Low current on Differential lock solenoid (HSD) [UCM] (*)	17
2751-Power supply fault on Forward solenoid (HSD) [UCM] (*)	18
2752-Short circuit to battery on Forward solenoid (HSD) [UCM] (*)	19
2753-Open circuit on Forward solenoid (HSD) [UCM] (*)	20
2754-Short circuit to ground on Forward solenoid (HSD) [UCM] (*)	21
2755-Low current on Forward solenoid (HSD) (*)	22
2760-Plausibility check failed on FNR rocker Switch (Forward and Reverse command both active) [UCM] (*)	23
2761-Power supply fault on Reverse solenoid (HSD) [UCM] (*)	25
2762-Short circuit to battery on Reverse solenoid (HSD) [UCM] (*)	26
2763-Open circuit on Reverse solenoid (HSD) [UCM] (*)	27
2764-Short circuit to ground on Reverse solenoid (HSD) [UCM] (*)	28
2765-Low current on Reverse solenoid (HSD) [UCM] (*)	29
2772-Short circuit to battery on Forward solenoid (LSD) [UCM] (*)	30
2773-Open circuit on Forward solenoid (LSD) [UCM] (*)	31
2774-Short circuit to ground on Forward solenoid (LSD) [UCM] (*)	32
2782-Short circuit to battery on Reverse solenoid (LSD) [UCM] (*)	33
2783-Open circuit on Reverse Solenoid (LSD) [UCM] (*)	34
2784-Short circuit to ground on Reverse solenoid (LSD) [UCM] (*)	35
2791-Power supply fault on Direction control solenoid (HSD) [UCM] (*)	36
2792-Short circuit to battery on Direction Control solenoid (HSD) [UCM] (*)	37
2793-Open circuit on Direction Control solenoid (HSD) [UCM] (*)	38
2794-Short circuit to ground on Direction Control solenoid (HSD) [UCM] (*)	39
2795-Low current on Direction Control solenoid (HSD) [UCM] (*)	40
2801-Power supply fault on Turtle/Rabbit solenoid (HSD) [UCM] (*)	41
2802-Short circuit to battery on Turtle/Rabbit solenoid (HSD) [UCM] (*)	42

(*) See content for specific models

2803-Open circuit on Turtle/Rabbit solenoid (HSD) [UCM] (*)	43
2804-Short circuit to ground on Turtle/Rabbit (HSD) [UCM] (*)	44
2805-Low current on Turtle/Rabbit solenoid (HSD) [UCM] (*)	45
2811-Power supply fault on 1st gear solenoid (HSD) [UCM] (*)	46
2812-Short circuit to battery on 1st Gear solenoid (HSD) [UCM] (*)	47
2813-Open circuit on 1st Gear solenoid (HSD) [UCM] (*)	48
2814-Short circuit to ground on 1st Gear solenoid (HSD) [UCM] (*)	49
2815-Low current on 1st Gear solenoid (HSD) [UCM] (*)	50
2820-Plausibility check failed on 1st and 2nd gear command [UCM] (*)	51
2821-Power supply fault on 2nd gear solenoid (HSD) [UCM] (*)	52
2822-Short circuit to battery on 2nd Gear solenoid (HSD) [UCM] (*)	53
2823-Open circuit on 2nd Gear solenoid (HSD) [UCM] (*)	54
2824-Short circuit to ground on 2nd Gear solenoid (HSD) [UCM] (*)	55
2825-Low current on 2nd Gear solenoid (HSD) [UCM] (*)	56
2832-Short circuit to battery on 1st Gear solenoid (LSD) [UCM] (*)	57
2833-Open circuit on 1st Gear solenoid (LSD) [UCM] (*)	58
2834-Short circuit to ground on 1st Gear solenoid (LSD) [UCM] (*)	59
2842-Short circuit to battery on 2nd Gear solenoid (LSD) [UCM] (*)	60
2843-Open circuit on 2nd Gear solenoid (LSD) [UCM] (*)	61
2844-Short circuit to ground on 2nd Gear solenoid (LSD) [UCM] (*)	62
2851-Power supply fault on 1st Gear LED (CMB) [UCM] (*)	63
2852-Short circuit to battery on 1st Gear LED (CMB) [UCM] (*)	64
2853-Open circuit on 1st Gear LED (CMB) [UCM] (*)	65
2854-Short circuit to ground on 1st Gear LED (CMB) [UCM] (*)	66
2855-Low current on 1st Gear LED (CMB) [UCM] (*)	67
2861-Power supply fault on 2nd Gear LED (CMB) [UCM] (*)	68
2862-Short circuit to battery on 2nd Gear LED (CMB) [UCM] (*)	69
2863-Open circuit on 2nd Gear LED (CMB) [UCM] (*)	70
2864-Short circuit to ground on 2nd Gear LED (CMB) [UCM] (*)	71
2865-Low current on 2nd Gear LED (CMB) [UCM] (*)	72
2870-Plausibility check failed on Creep speed Plus/Mem-Minus switch command [UCM] (*)	73
2871-Power supply fault on Creep Speed LED (CMB) [UCM] (*)	74
2872-Short circuit to battery on Creep Speed LED (CMB) [UCM] (*)	75
2873-Open circuit on Creep Speed LED (CMB) [UCM] (*)	76
2874-Short circuit to ground on Creep Speed LED (CMB) [UCM] (*)	77
2875-Low current on Creep Speed LED (CMB) [UCM] (*)	78
2881-Power supply fault on inching solenoid (PWM/HSD) [UCM] (*)	79
2882-Short circuit to battery on inching solenoid (PWM/HSD) [UCM] (*)	80
2883-Open circuit to on inching solenoid (PWM/HSD) [UCM] (*)	81
2884-Short circuit to ground on inching solenoid (PWM/HSD) [UCM] (*)	82
2885-Low current on inching solenoid (PWM/HSD) [UCM] (*)	83

(*) See content for specific models

2892-Short circuit to battery on inching solenoid (LSD) [UCM] (*)	84
2893-Open circuit to battery on inching solenoid (LSD) [UCM] (*)	85
2894-Short circuit to ground on inching solenoid (LSD) [UCM] (*)	86
3007-Engine Coolant Temperature Sender - Short to Ground (*)	87
3008-Engine Coolant Temperature Sender - Open Circuit (*)	90
3010-Air intake temperature sensor signal above maximum range (*)	93
3011-Air intake temperature sensor signal below minimum range (*)	95
3015-Fuel temperature sensor - Signal above range maximum [ECU] (*)	97
3016-Fuel temperature sensor - Signal below range minimum [ECU] (*)	98
3019-Boost pressure sensor - signal above range maximum [ECU] (*)	99
3024-Atmospheric pressure sensor - signal above range maximum [ECU] (*)	100
3025-Atmospheric pressure sensor - signal below range minimum [ECU] (*)	101
3027-Oil pressure signal not plausible (*)	102
3037-Boost pressure sensor - signal low [ECU] (*)	105
3059-ECM afterrun was interrupted (*)	106
3061-Cylinder 1 - Injector Cable Short Circuit (Low Side To Battery) [ECU] (*)	107
3063-Cylinder 1 - Injector Cable Short Circuit (High Side To Ground) (*)	108
3069-Cylinder 3 - Injector Cable Short Circuit (Low Side To Battery) [ECU] (*)	110
3071-Cylinder 3 - Injector Cable Short Circuit (High Side To Ground) (*)	111
3077-Cylinder 2 - Injector Cable Short Circuit (Low Side To Battery) [ECU] (*)	114
3079-Cylinder 2 - Injector Cable Short Circuit (High Side To Ground) (*)	115
3081-Cylinder 4 - Injector Cable Short Circuit (Low Side To Battery) [ECU] (*)	118
3083-Cylinder 4 - Injector Cable Short Circuit (High Side To Ground) (*)	119
3088-Crankshaft Sensor - No Signal (*)	122
3089-Crankshaft Sensor - Invalid Signal (*)	125
3090-Camshaft Sensor - No Signal (*)	128
3091-Camshaft sensor - Invalid signal (*)	131
3093-Offset Between Camshaft And Crankshaft - Outside Boundaries (*)	134
3096-ECM Busoff on vehicle CAN (*)	139
3102-Rail Pressure Sensor CP3 - Signal Below Range Minimum (*)	140
3104-Rail Pressure Relief Valve - Open Circuit (*)	142
3105-Rail Pressure Relief Valve - Pressure Shock Requested (*)	143
3106-Rail Pressure Relief Valve - Did Not Open After Pressure Shock (*)	144
3107-Fuel Metering Unit - Short Circuit To Battery (*)	145
3108-Fuel Metering Unit - Short Circuit to Ground (*)	146
3112-Rail Pressure Sensor CP3 - Signal Above Maximum Range (*)	147
3137-Metering Unit - Open Load (*)	148
3141-Set point of fuel volume flow through metering unit is lower than calculated limit (*)	149
3146-Water detected in fuel (*)	150
3157-CAN Engine Timeout SCH Code (*)	152
3158-Engine controller configuration error anti-tamper (*)	153

(*) See content for specific models

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$