Service Manual

3CX, 4CX,
& Variants

From M/c No. 400001 To 460000

Publicación No. 9803/3260 Issue 9

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Wire Numbers - 000 to 199 (to serial number 430000)

Wire No	Source	Destination	Wire Gauge	Comment
000	Starter Switch	Fusebox - Fuse B1	4.00	To m/c no. 409434
000	Starter Switch	Panel Harness Splice (Fusebox)	4.00	From m/c no. 409435
000A	Fuse B1a	Fuse A9a	2.00	To m/c no. 409434
000A	Panel Harness Splice (Fusebox)	Fuse A9a	2.00	
000B	Fuse A9a	Fuse B8a	2.00	To m/c no. 409434
000B	Panel Harness Splice (Fusebox)	Fuse B8a	1.40	From m/c no. 409435
000C	Fuse B8a	Fuse B2a	1.00	To m/c no. 409434
000C	Panel Harness Splice (Fusebox)	Fuse B2a	1.00	From m/c no. 409435
000D	Fuse B2a	Fuse B7a	1.00	To m/c no. 409434
000D	Panel Harness Splice (Fusebox)	Fuse B7a	1.00	From m/c no. 409435
000E	Fuse B7a	Fuse B9a	1.00	To m/c no. 409434
000E	Panel Harness Splice (Fusebox)	Fuse B9a	1.00	From m/c no. 409435
000F	Panel Harness Splice (Fusebox)	Fuse B1a	2.00	From m/c no. 409435
001	Starter Switch	Panel Harness Feed Splice	4.00	
001A	Panel Harness Splice	'Ignition' Relay Coil Feed	1.50	Powershift m/c's
001B	Panel Harness Splice	Fusebox - Fuse C3a	3.00	
001C	Panel Harness Splice	Fusebox - Fuse A1a	1.00	Syncro Shuttle m/c's
001D	Panel Harness Splice	Fusebox - Fuse A2a	1.00	Syncro Shuttle m/c's
001E	Panel Harness Splice	Fusebox - Fuse A5a	1.00	Syncro Shuttle m/c's
001F	Panel Harness Splice	Fusebox - Fuse B6a	1.50	Syncro Shuttle m/c's
001H	Panel Harness Splice	Fusebox - Fuse C5a	1.40	Syncro Shuttle m/c's
001J	Panel Harness Splice	Fusebox - Fuse C7a	1.00	Syncro Shuttle m/c's
002	Panel Harness Splice	'Ignition' Relay	8.00	
002A	Panel Harness Splice	Fusebox - Fuse A1a	1.00	Powershift m/c's
002B	Panel Harness Splice	Fusebox - Fuse A2a	1.00	Powershift m/c's
002C	Panel Harness Splice	Fusebox - Fuse A5a	1.00	Powershift m/c's
002D	Panel Harness Splice	Fuseboc - Fuse B6a	1.50	Powershift m/c's
002E	Panel Harness Splice	Fusebox - Fuse C2a	1.00	Powershift m/c's
002F	Panel Harness Splice	Fusebox - Fuse B1a	4.00	Powershift m/c's
002G	Panel Harness Splice	Fusebox - Fuse A9a	2.00	Powershift m/c's
002H	Fuse A9a	Fuse B8a	2.00	To m/c no. 409434
002H	Panel Harness Splice	Fusebox - Fuse A9a	1.40	From m/c no. 409435
002J	Fuse B8a	Fuse B2a	1.00	To m/c no. 409434
002J	Panel Harness Splice	Fuse B2a	1.00	From m/c no. 409435
002K	Fuse B2a	Fuse B7a	1.00	To m/c no. 409434
002K	Panel Harness Splice	Fuse B7a	1.00	From m/c no. 409435
002L	Fuse B7a	Fuse B9a	1.00	To m/c no. 409434
002L	Panel Harness Splice	Fuse B9a	1.00	From m/c no. 409435
002P	Panel Harness Splice	Fuse C5a	2.00	From m/c no. 409435
002S	Panel Harness Splice	Fuse C7a	1.00	From m/c no. 409435
003	Starter Switch	Thermostart	3.00	
004	Starter Switch	Neutral Start Relay	3.00	
100	Fuse B7	Dump Relay	1.00	
100A	Dump Relay	Foot Dump Switch	1.00	
101	Fuse B1	Panel Harness Junction Box Splice	2.00	
101A	Panel Harness Junction Box Splice	Junction Box	2.00	
101B	Panel Harness Junction Box Splice	Bucket Reset	1.00	
101P	Junction Box	Hydraulic Speed Control Switch	1.00	
102	Fuse B8	Heater Switch	1.50	
102A	Heater Switch	Heater Switch Warning Light	1.00	From m/c no.

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Pump/Transmission Stall Speed Combinations - Two Wheel Steer Machines with 12.2 inch Convertors

Note. All tests conducted with single pump option selected .

	214E U.S.A.	3CX	3CX	214 U.S.A.	214 U.S.A.	3CX Malaysia	3CX.T	3CXSM+	3CX.T option Nordic Iceland	3CX.T option South Africa	214 T U.S.A.	215 U.S.A.	217 U.S.A.
Engine Speed @ Stall Combination.													
1.Convertor only.													
Max.r.p.m.	2105	1895	1870	2120	2120	1860	2050	2040	2025	1995	2010	2010	2035
Min.r.p.m.	2005	1800	1775	2015	2015	1760	1950	1935	1925	1895	1905	1905	1940
2.Convertor + M.R.V.													
Max.r.p.m.	1365	1470	1450	1710	1645	1435	1650	1635	1480	1450	1610	1610	1625
Min.r.p.m.	1195	1370	1350	1615	1540	1335	1525	1510	1310	1280	1485	1485	1530
Std. or High Lift Excavator						High	High					High	
Build specification.													
Engine size.													
N.A.(74)	•	•	•	•	•	•							
T2(90)							•	•	•	•	•	•	•
T3(96)													•
Convertor type.													
12.2D(2.82)	•			•	•								
12.2P(2.54)		•	•			•	•	•	•	•	•	•	•
Pump size.													
24 gal.	•												
26 gal.		•	•				•						
28 gal.				•		•		•			•	•	
30 gal.					•				•	•			•
34 gal.													
Fan Ratio.													
1 to 1		•				•		•	•	•			
1 to 1.25	•		•	•	•		•				•	•	•
1 to 1.36						•							

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Powershift Fault Finding - Introduction

The Powershift fault finding procedures concern themselves with general problems normally associated with this type of transmission system, and so the layout is a 'Possible Cause and Remedy' type.

Full flow, pressure and stall testing procedures for the Powershift transmission start on page F/91-1.

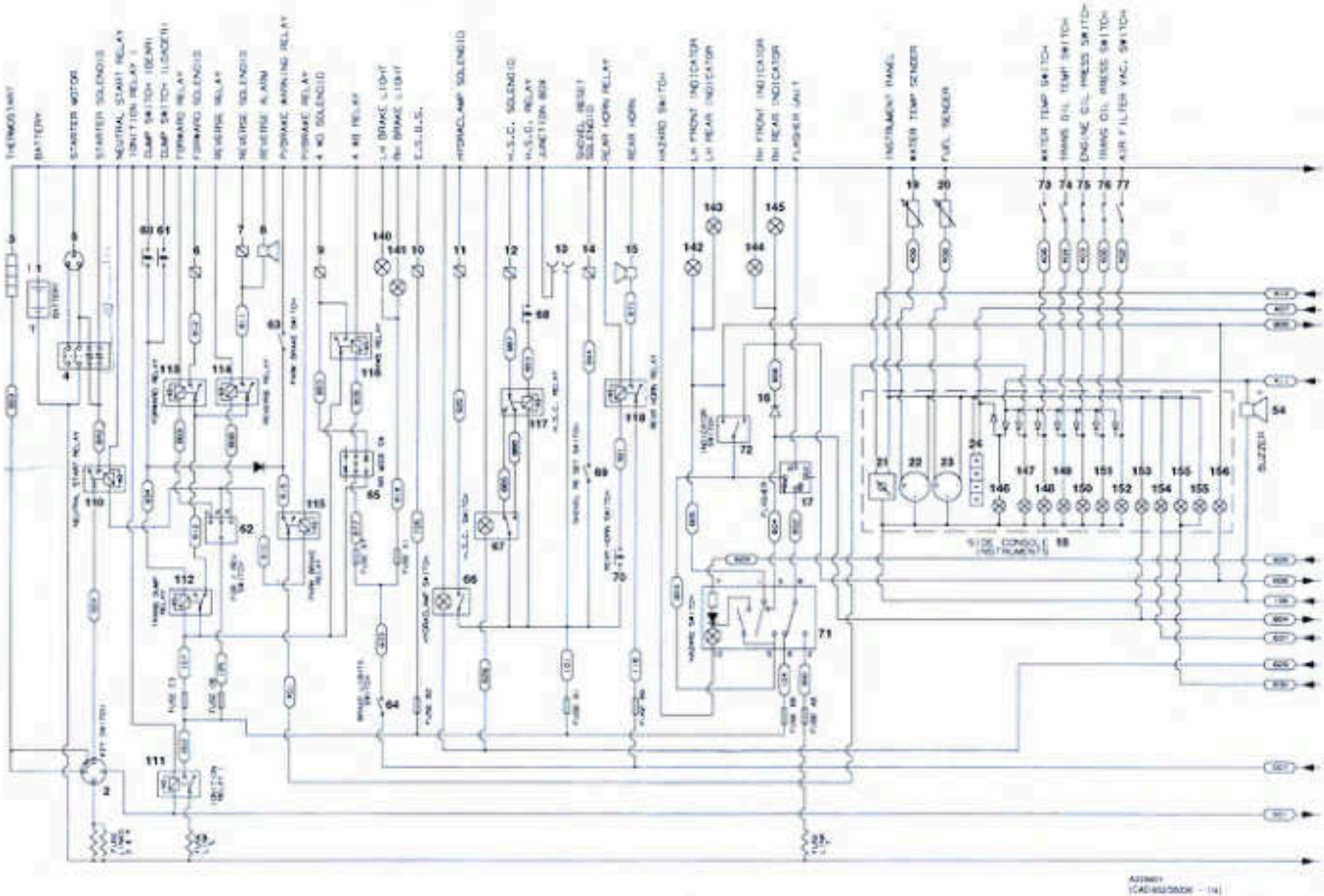
Before commencing with the fault finding procedure make sure that the correct type of transmission fluid has been used (JCB Special Transmission Fluid).

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