



ELECTRICAL SCHEMATICS

BPA / SP LINE PUMPS



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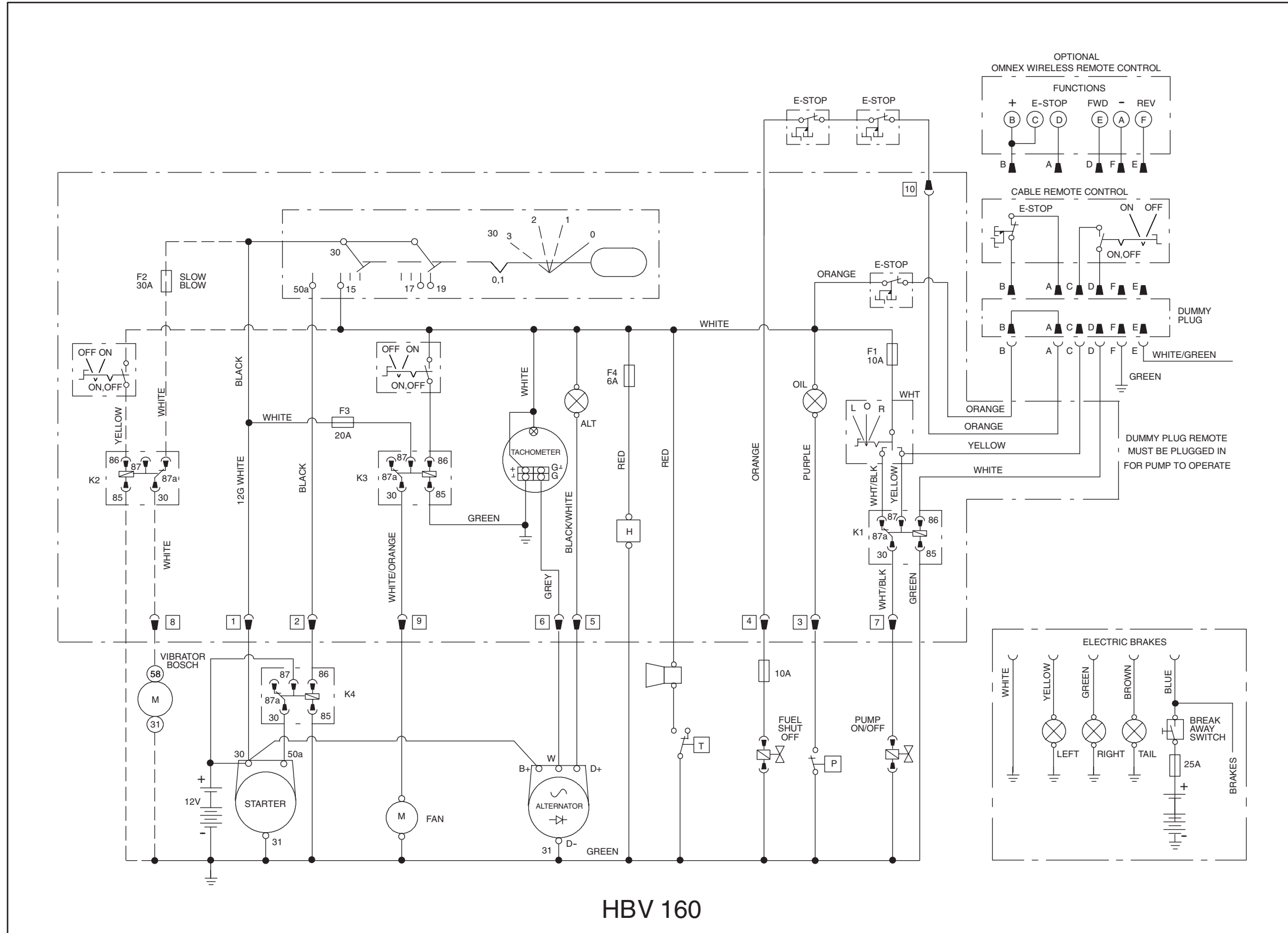
Branches

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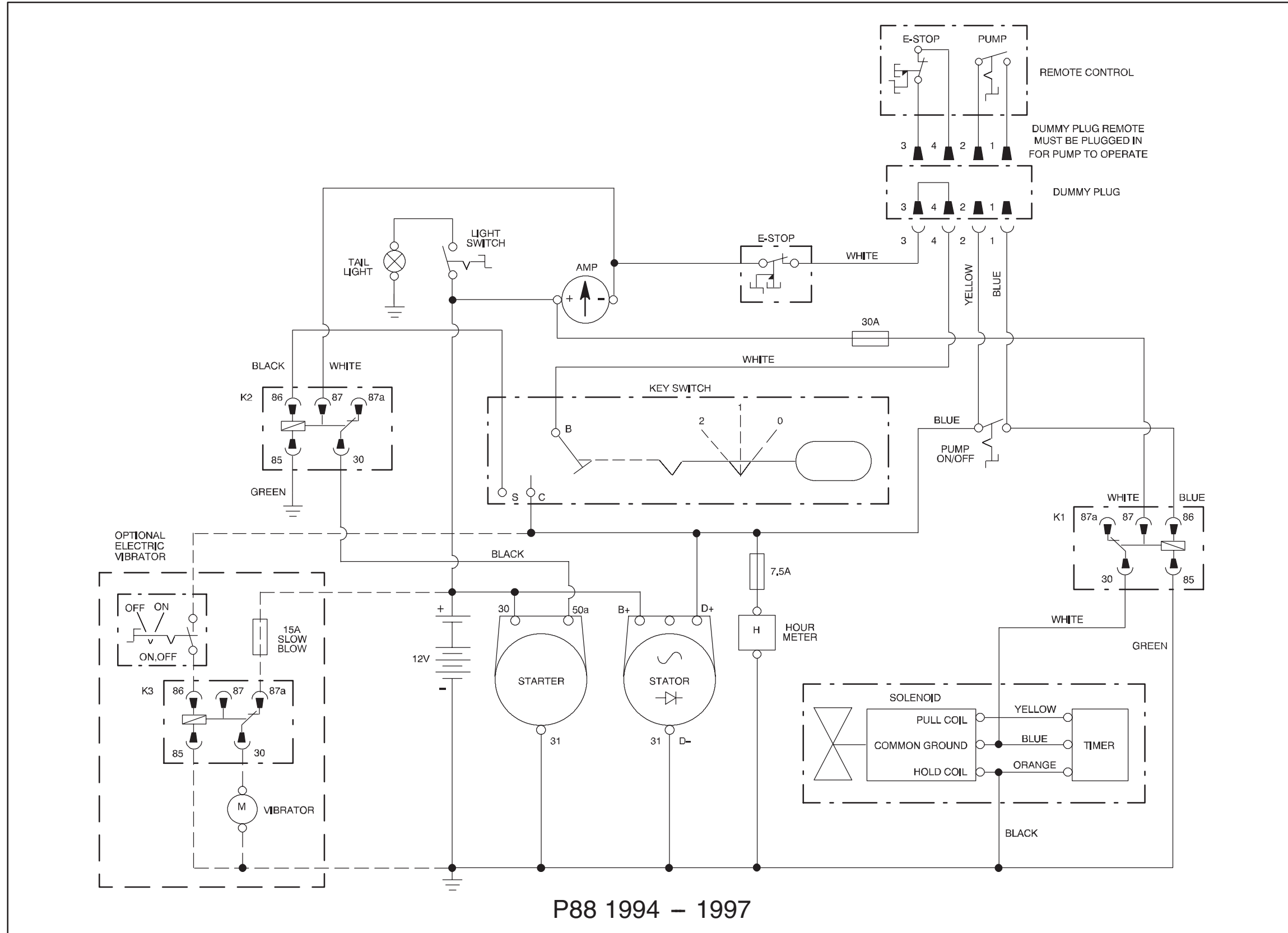
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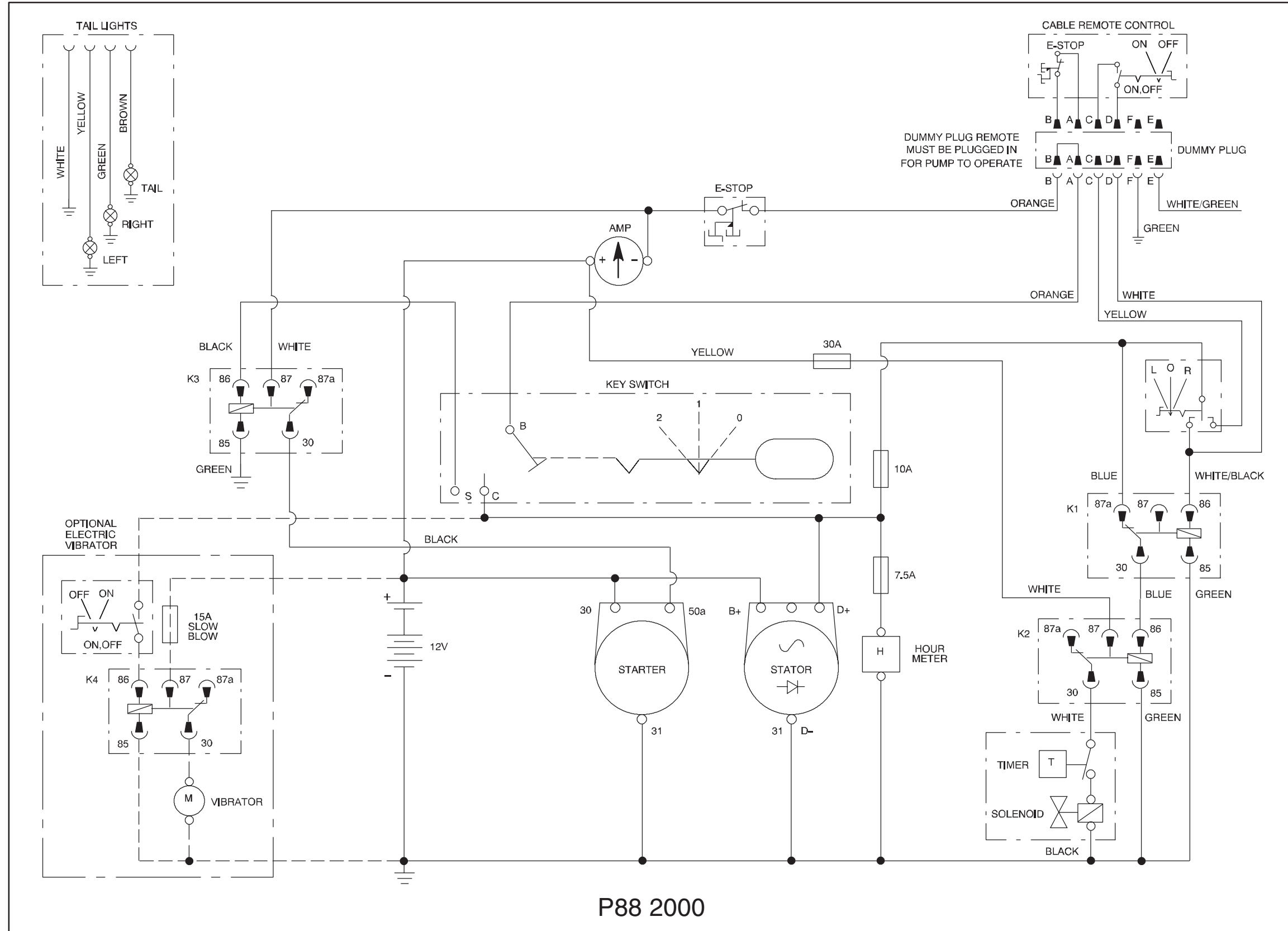
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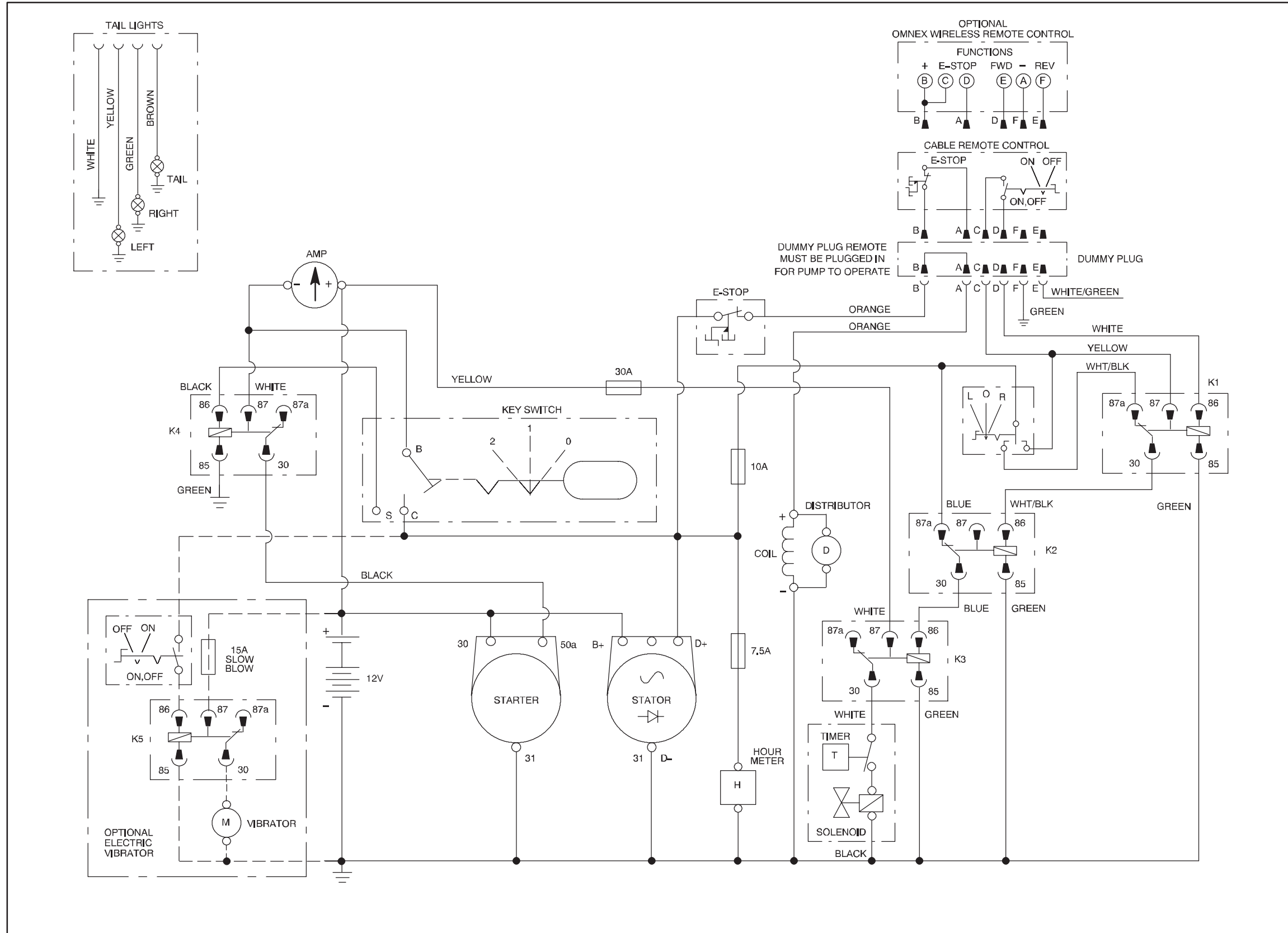
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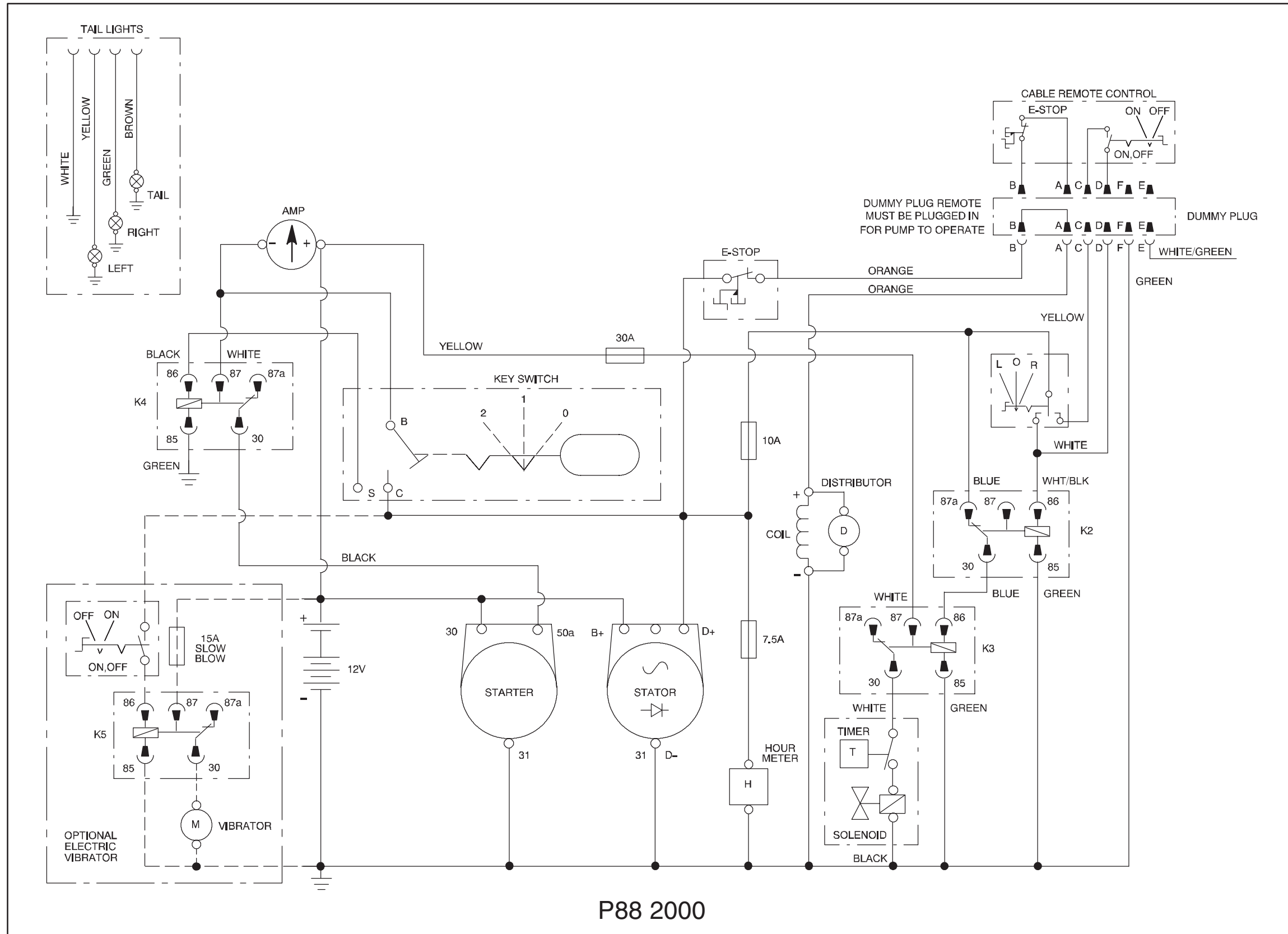
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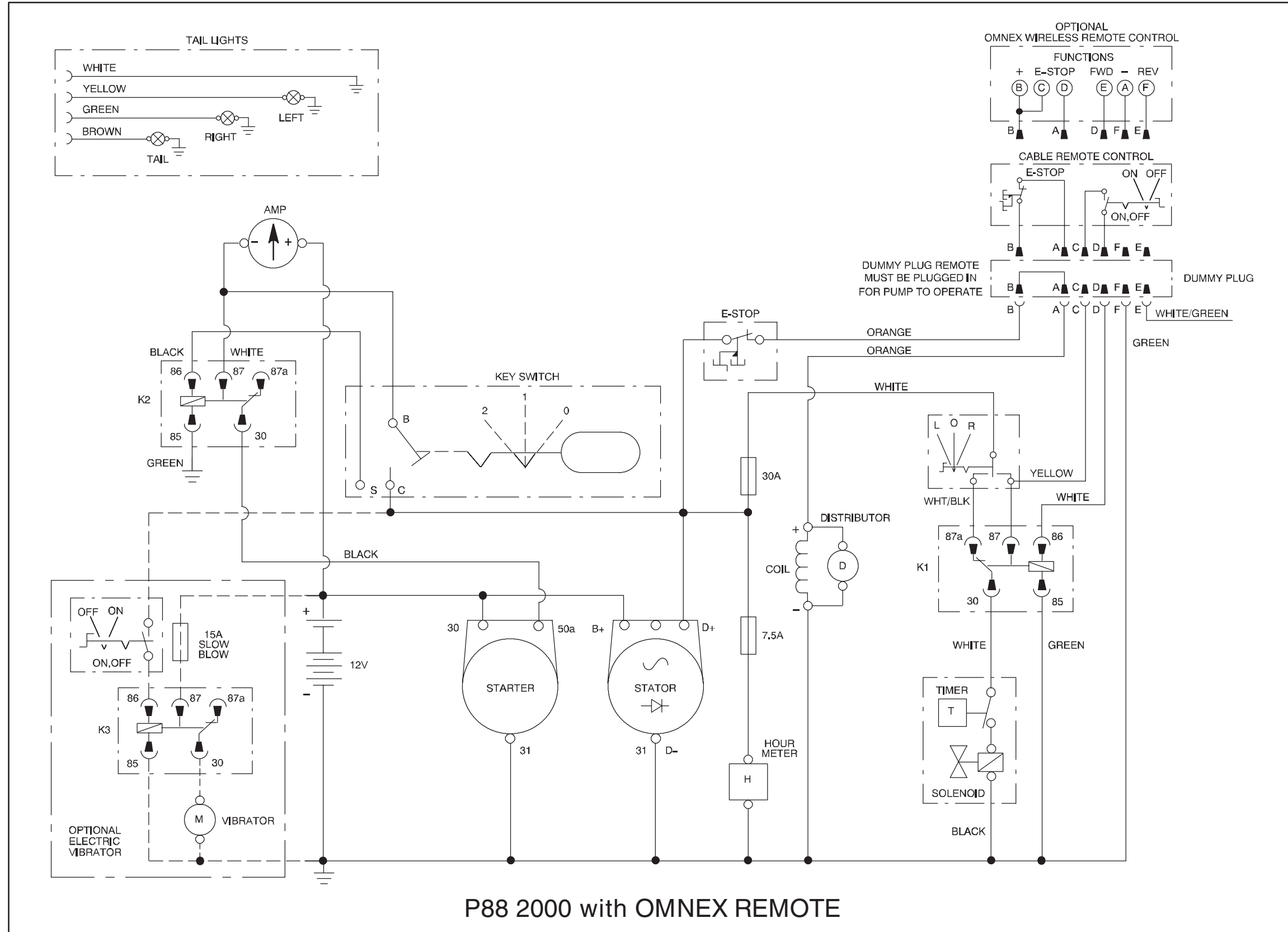


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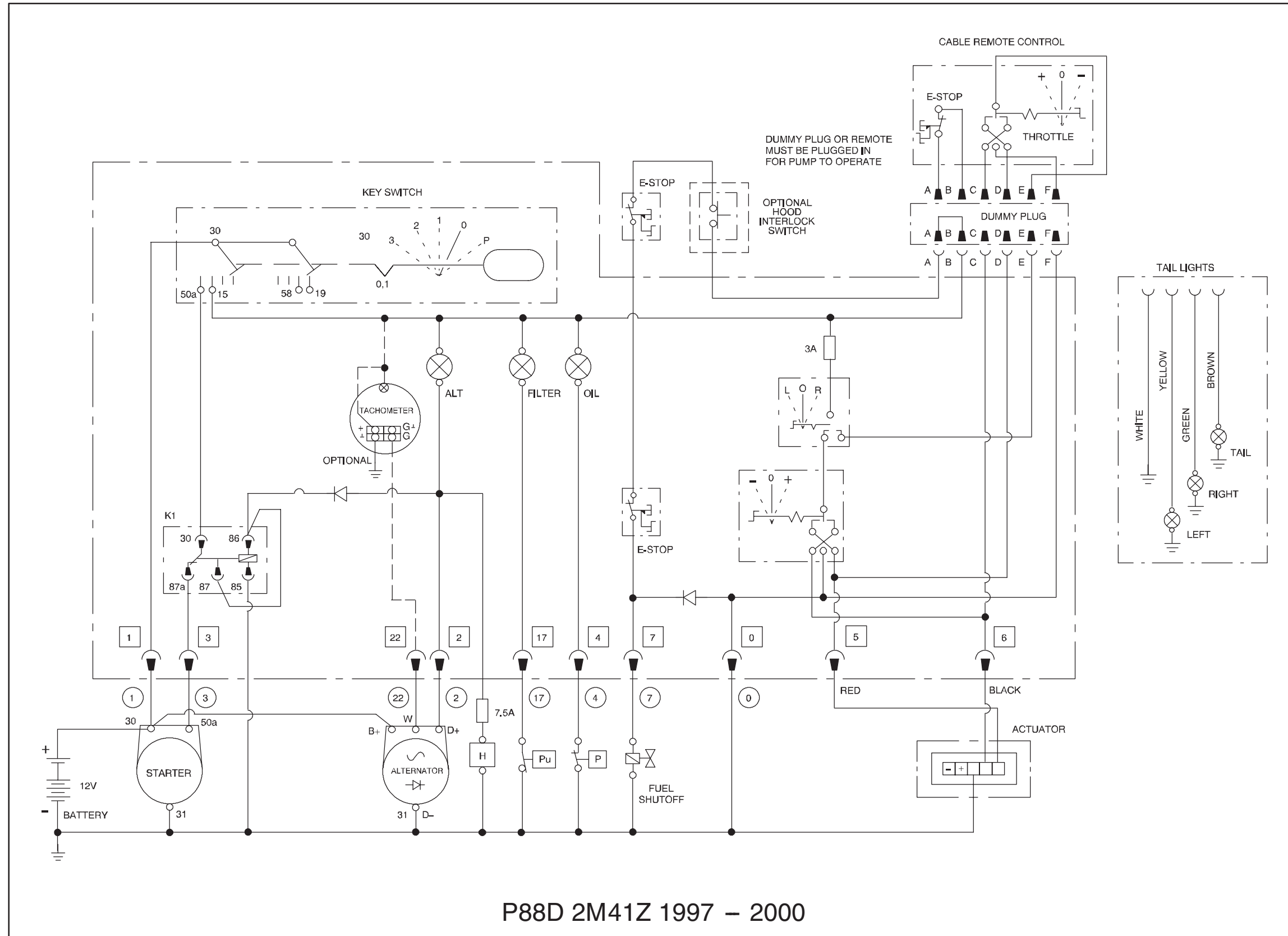
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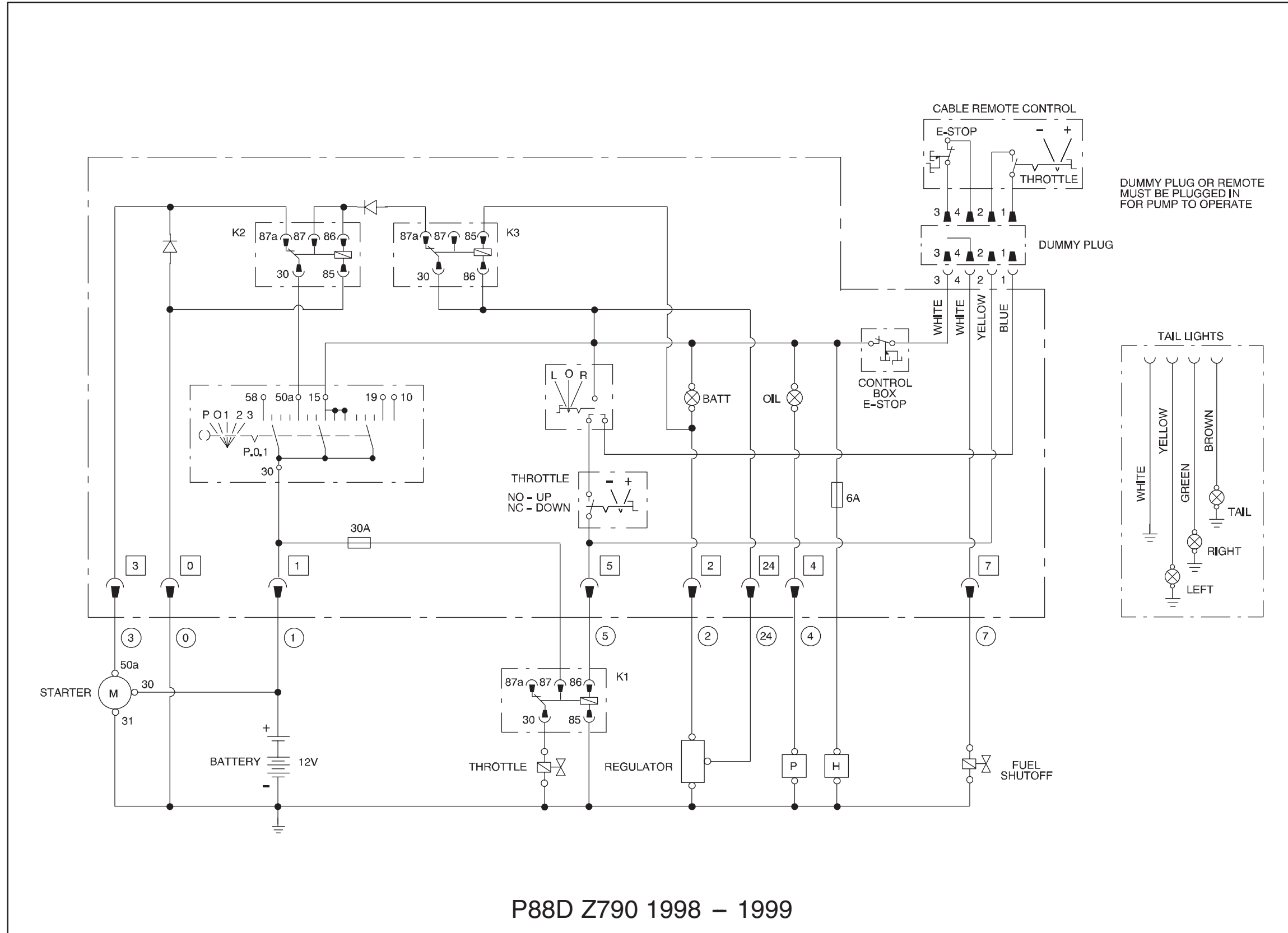
04/01/00



P88 2000 with OMNEX REMOTE

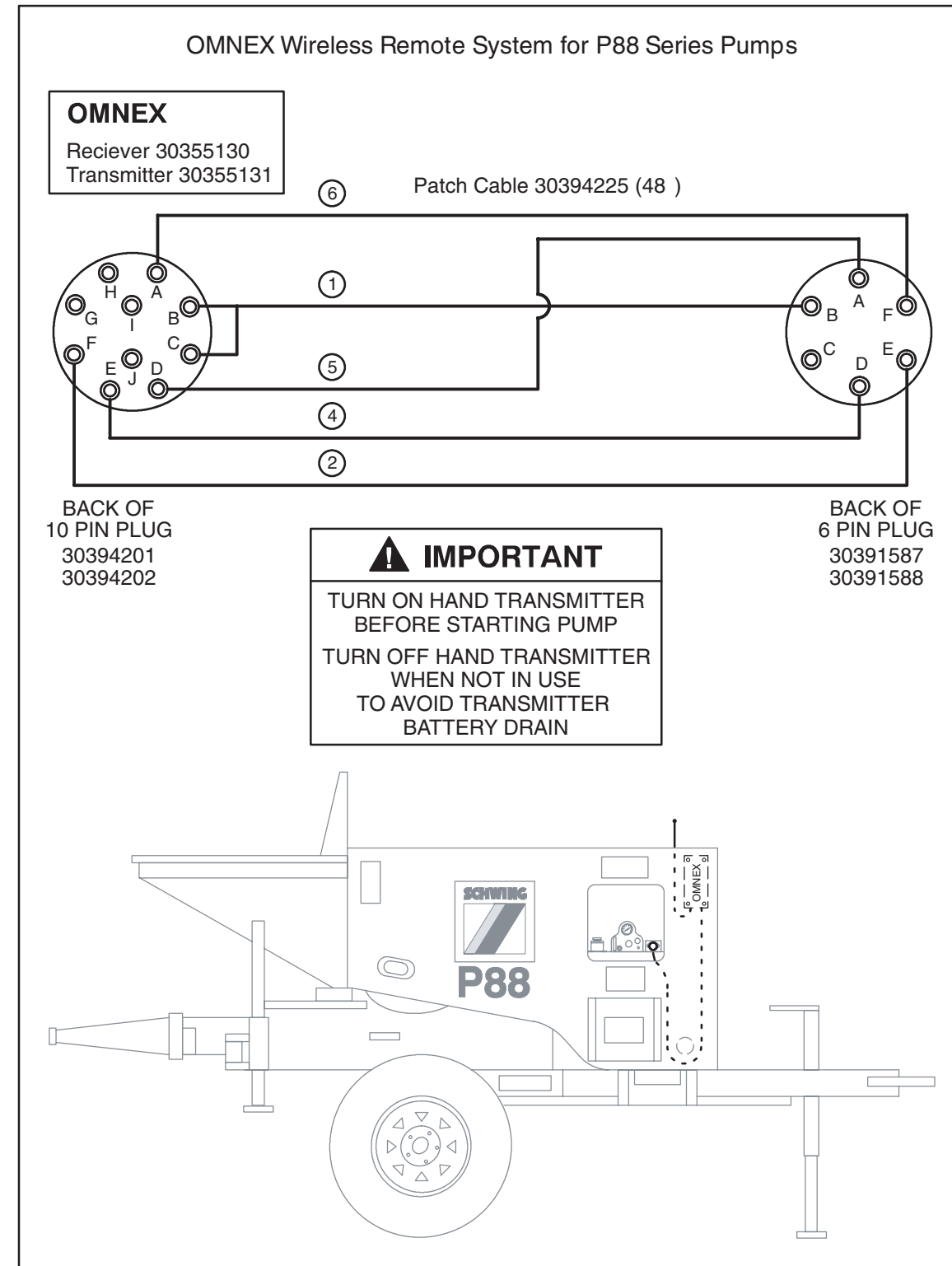
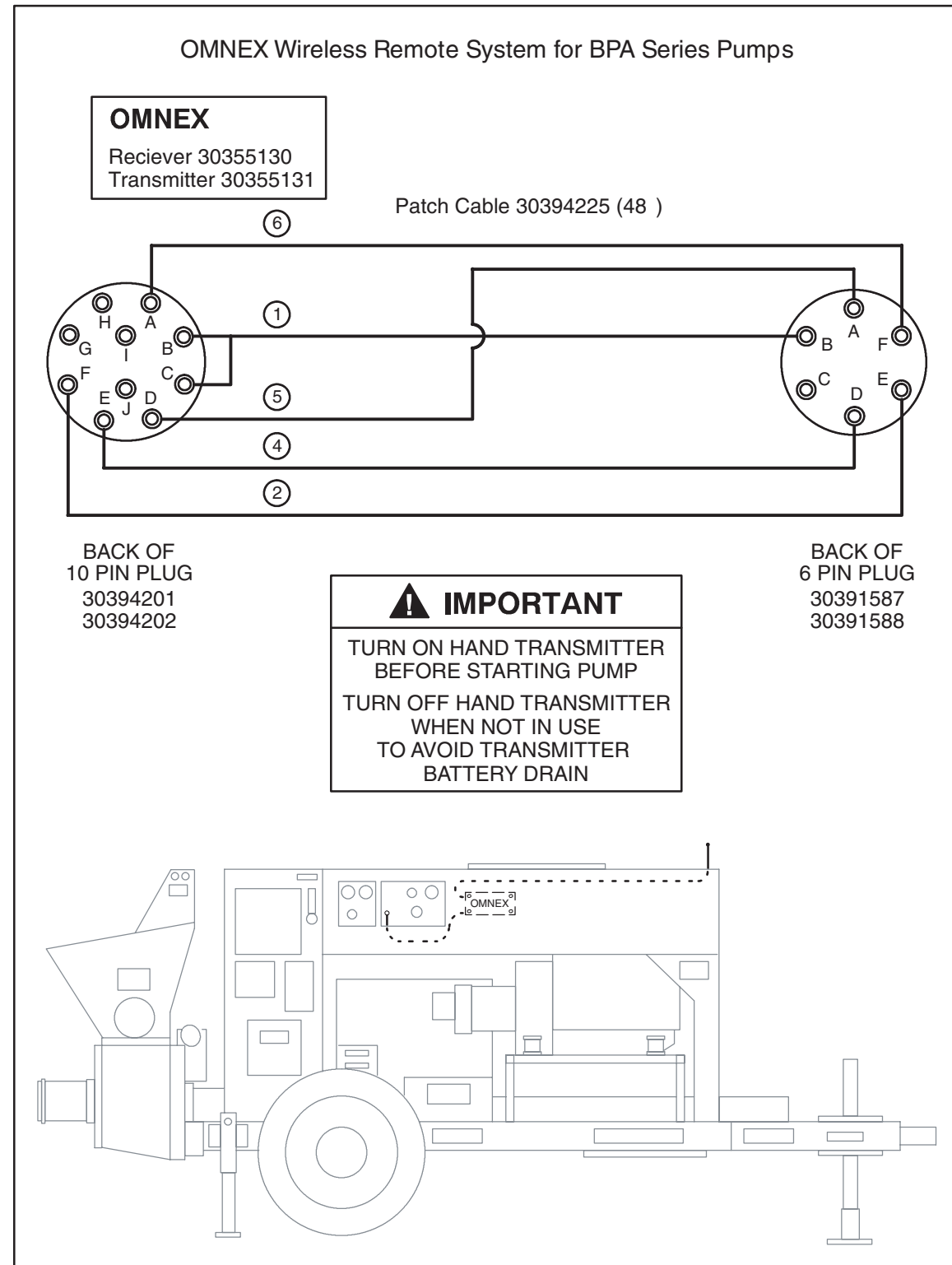
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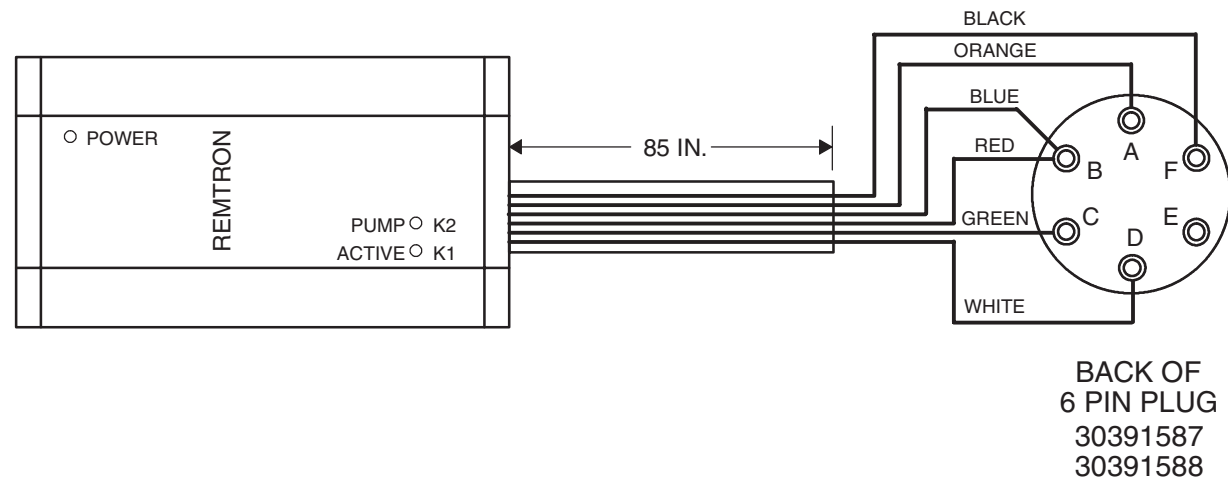


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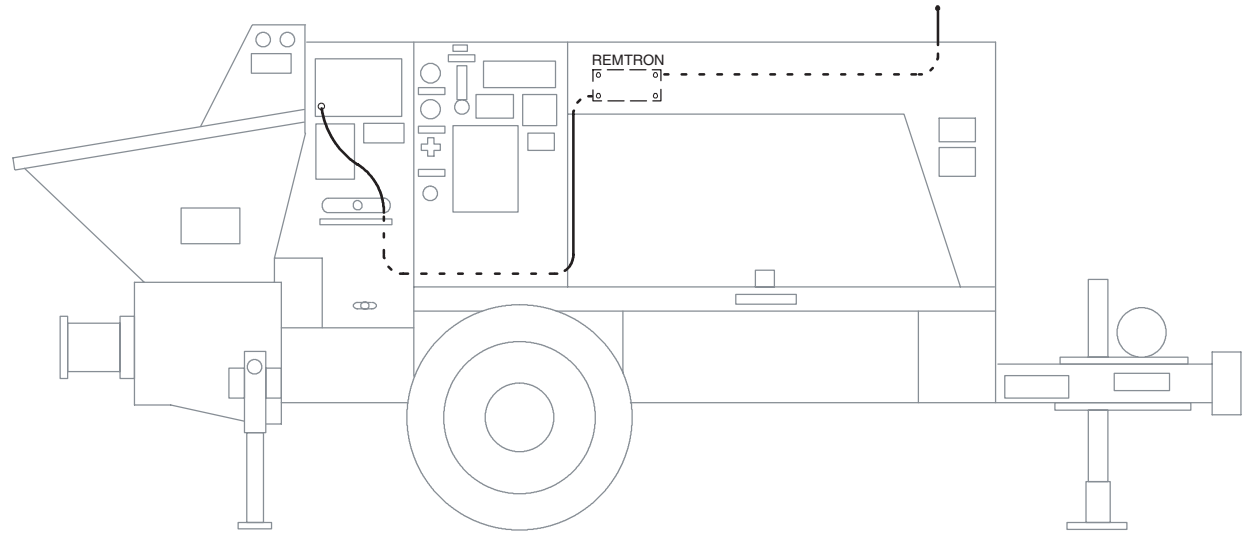
BPA/P88 - OMNEX Wireless Remote System



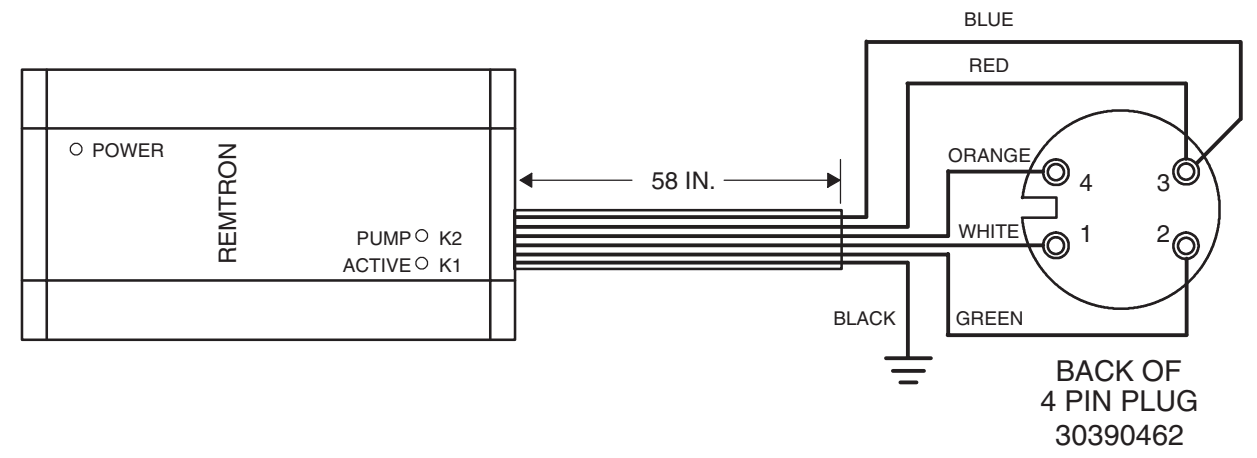
THIS 6 PIN SET UP FOR PUMP ON-OFF E-STOP ONLY



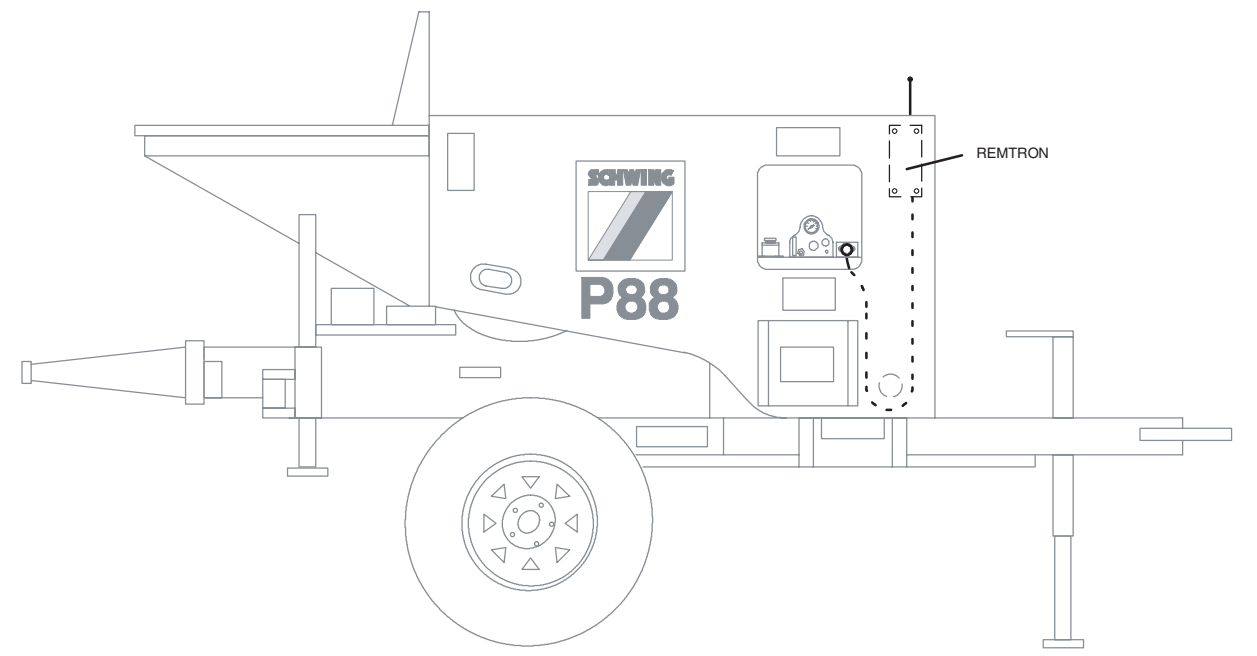
⚠ IMPORTANT
TURN ON HAND TRANSMITTER
BEFORE STARTING PUMP
TURN OFF HAND TRANSMITTER
WHEN NOT IN USE
TO AVOID TRANSMITTER
BATTERY DRAIN



THIS 4 PIN SET UP FOR PUMP ON-OFF E-STOP ONLY

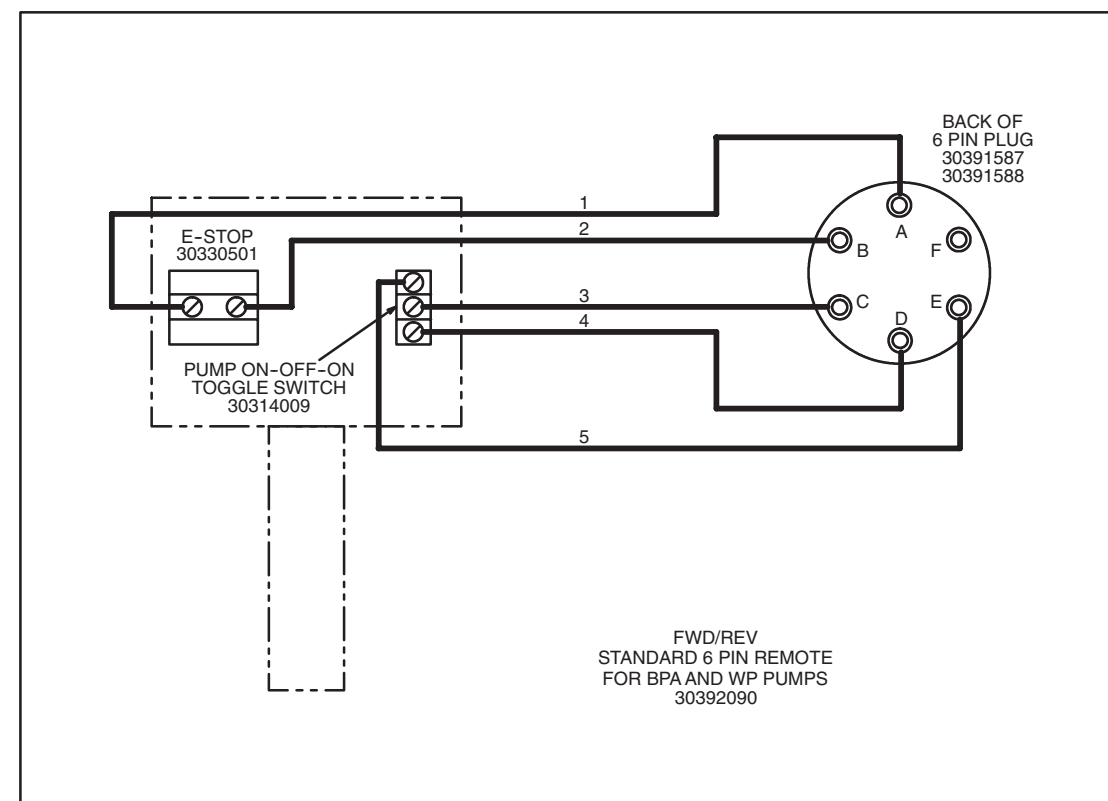
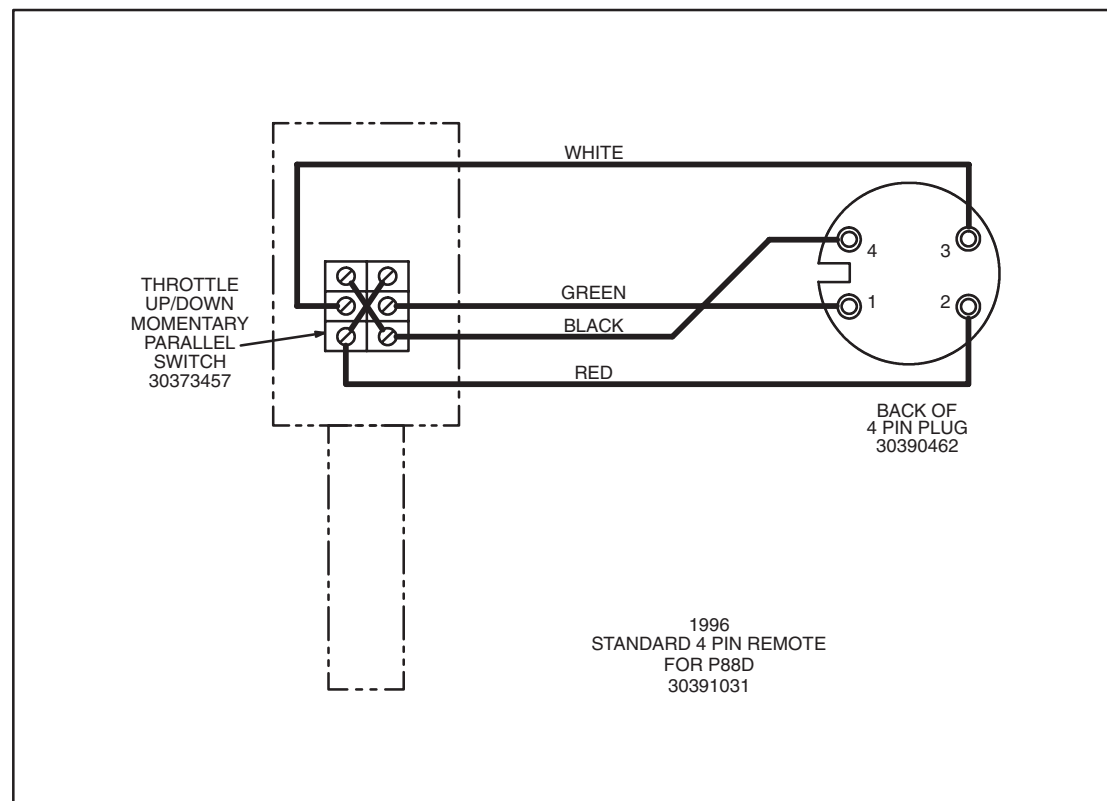
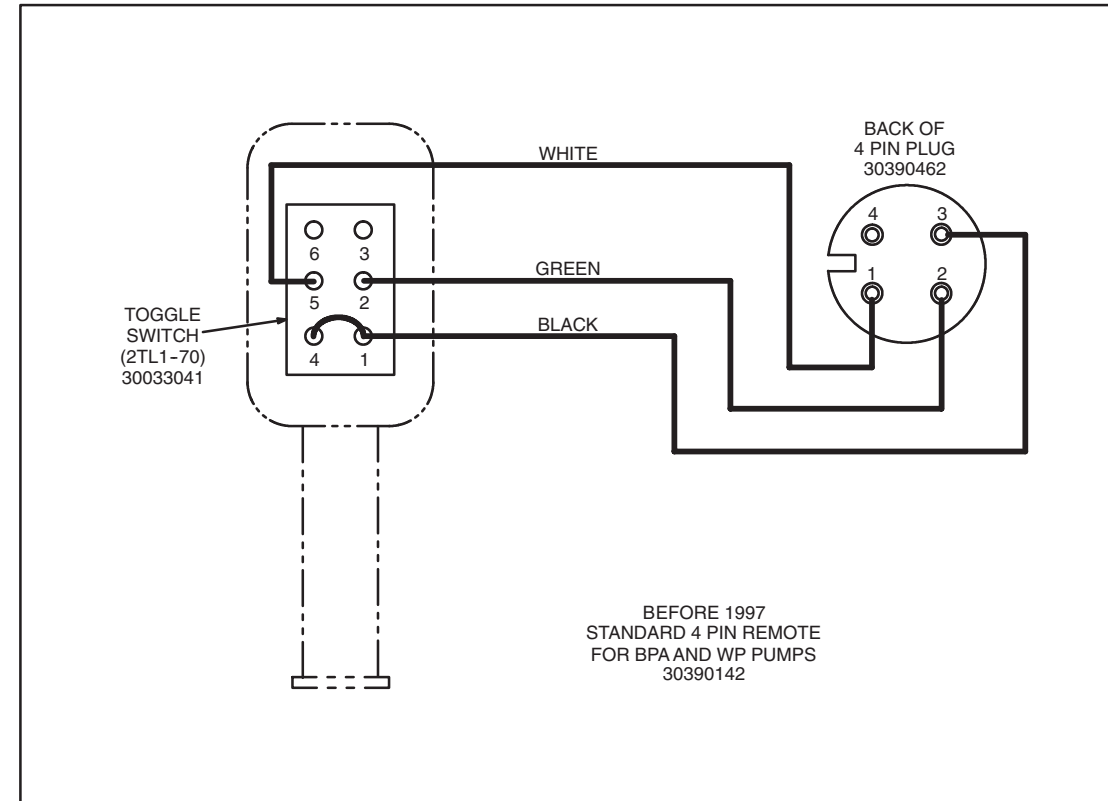
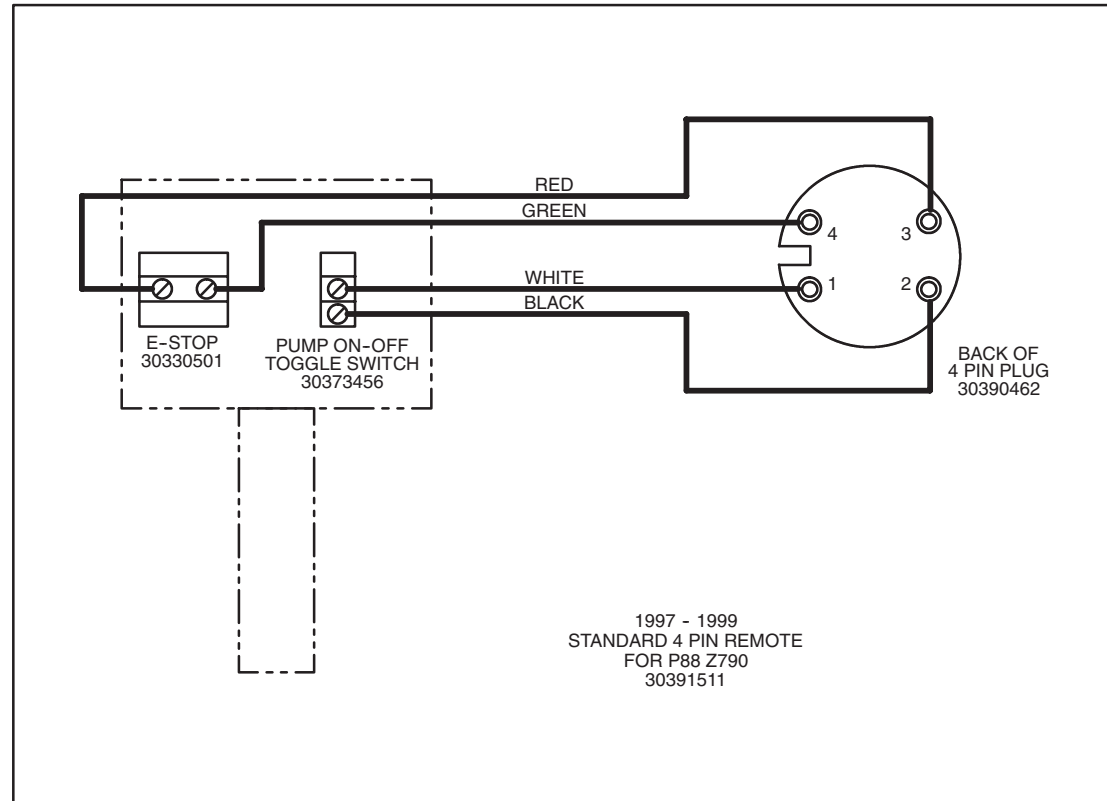


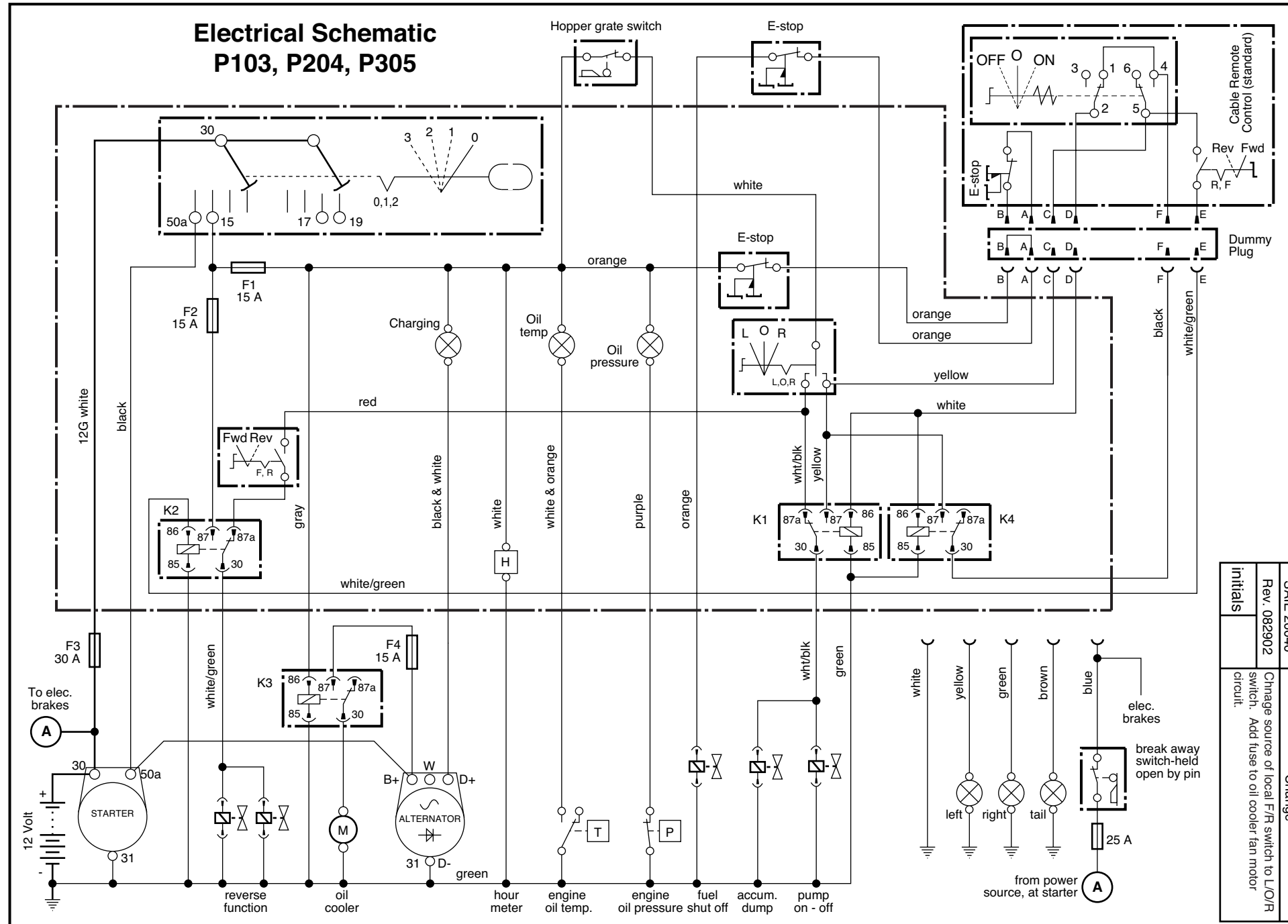
⚠ IMPORTANT
TURN ON HAND TRANSMITTER
BEFORE STARTING PUMP
TURN OFF HAND TRANSMITTER
WHEN NOT IN USE
TO AVOID TRANSMITTER
BATTERY DRAIN

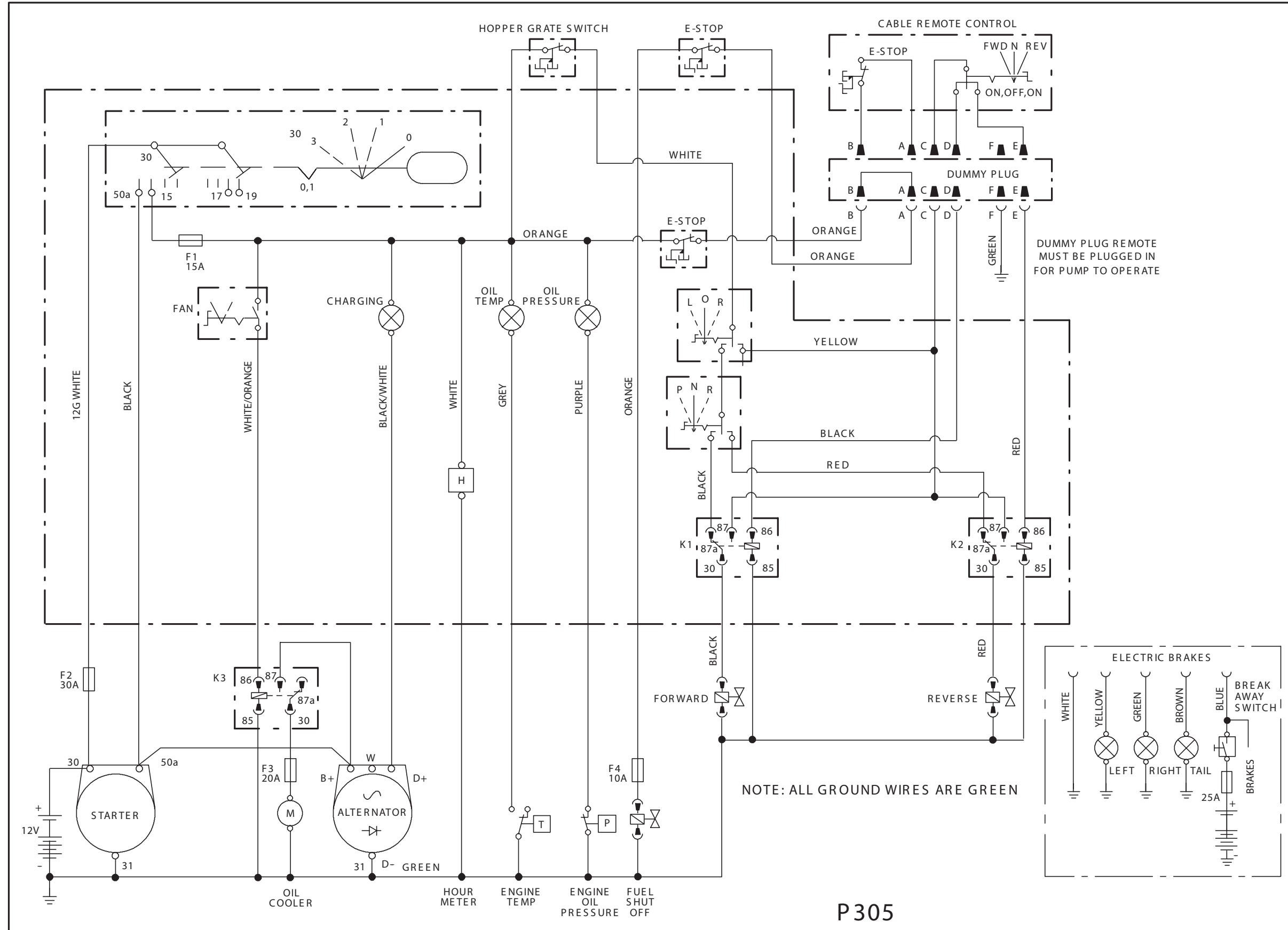


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BPA/P88 REMOTE CABLES

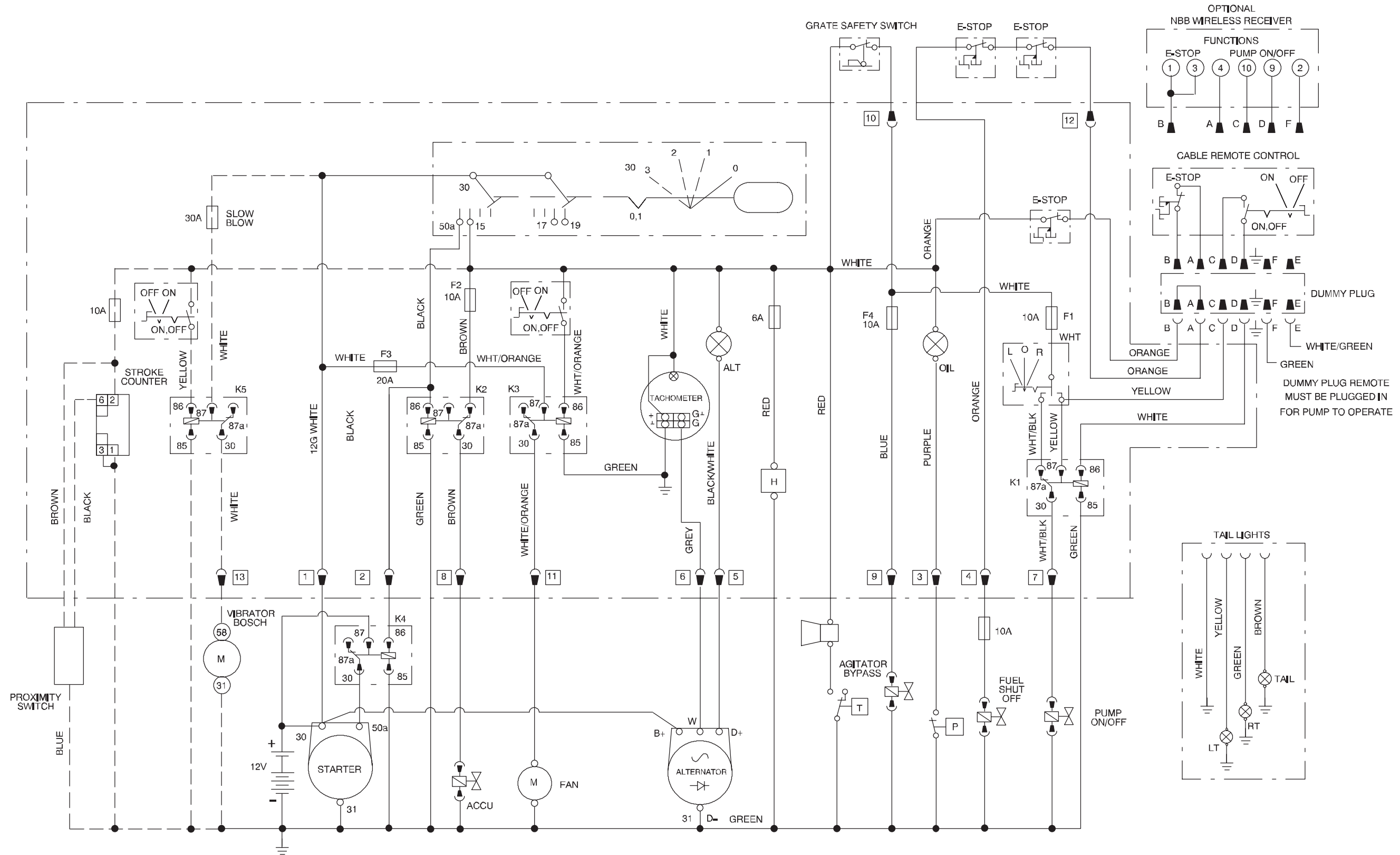


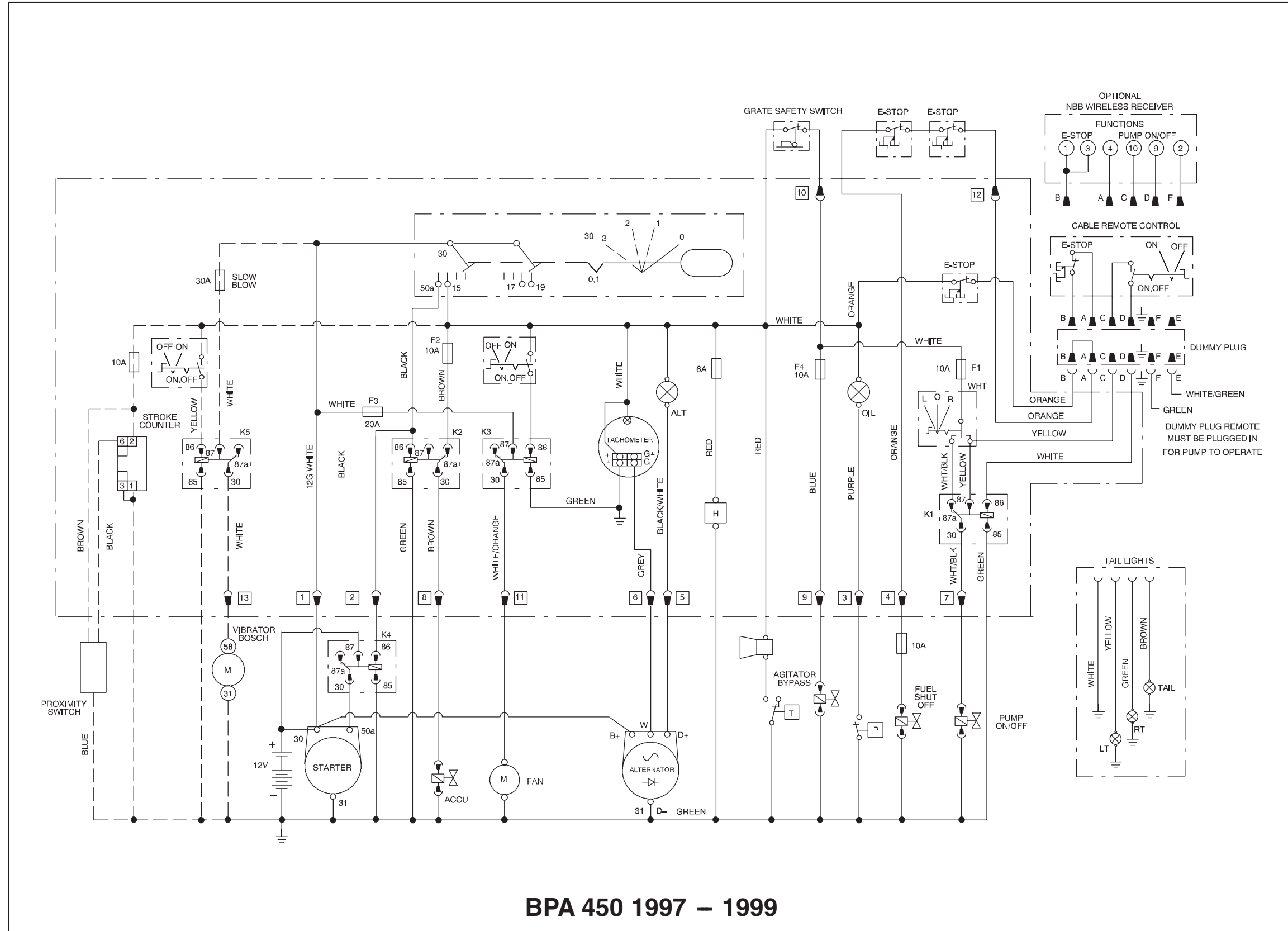


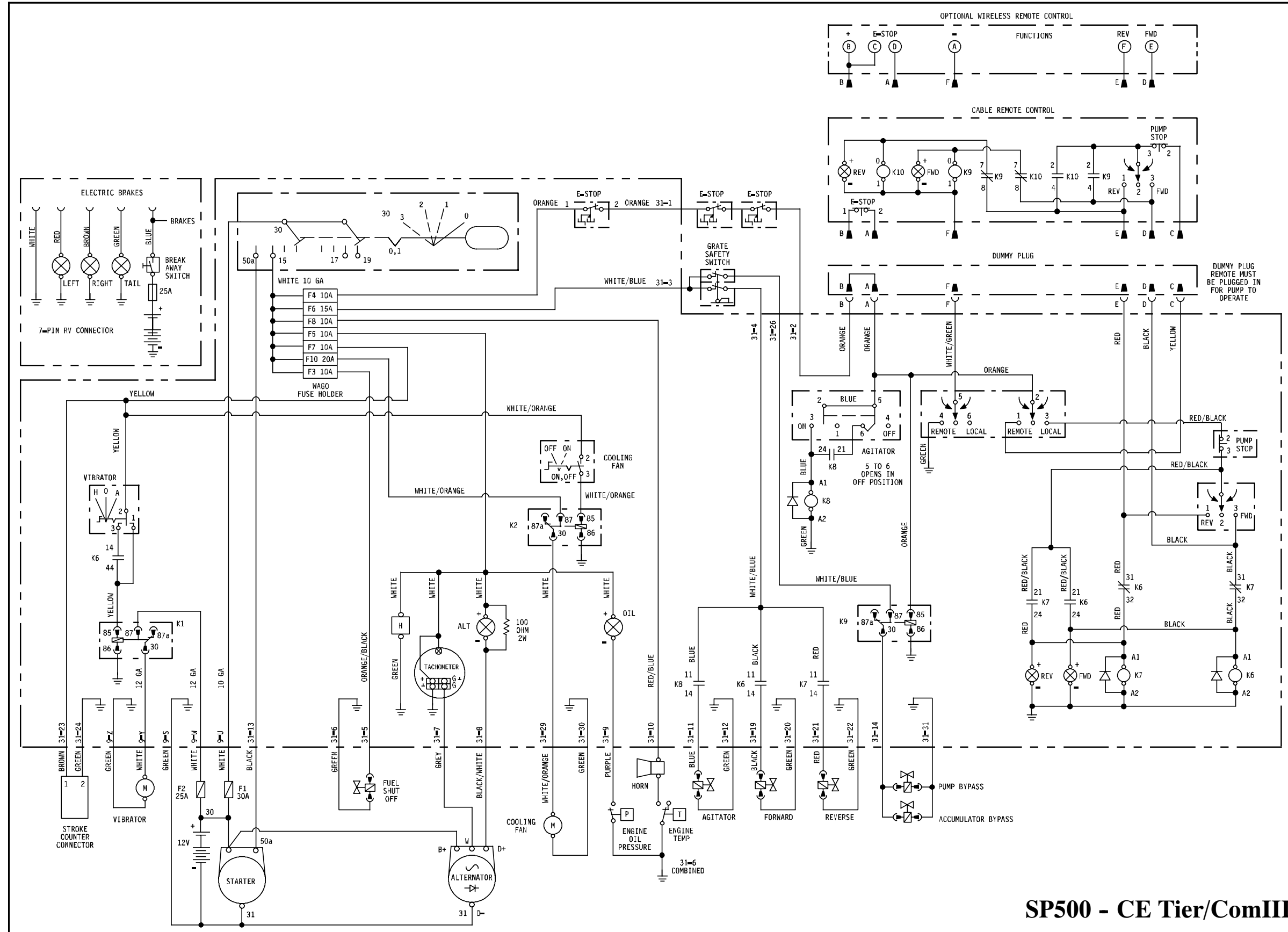


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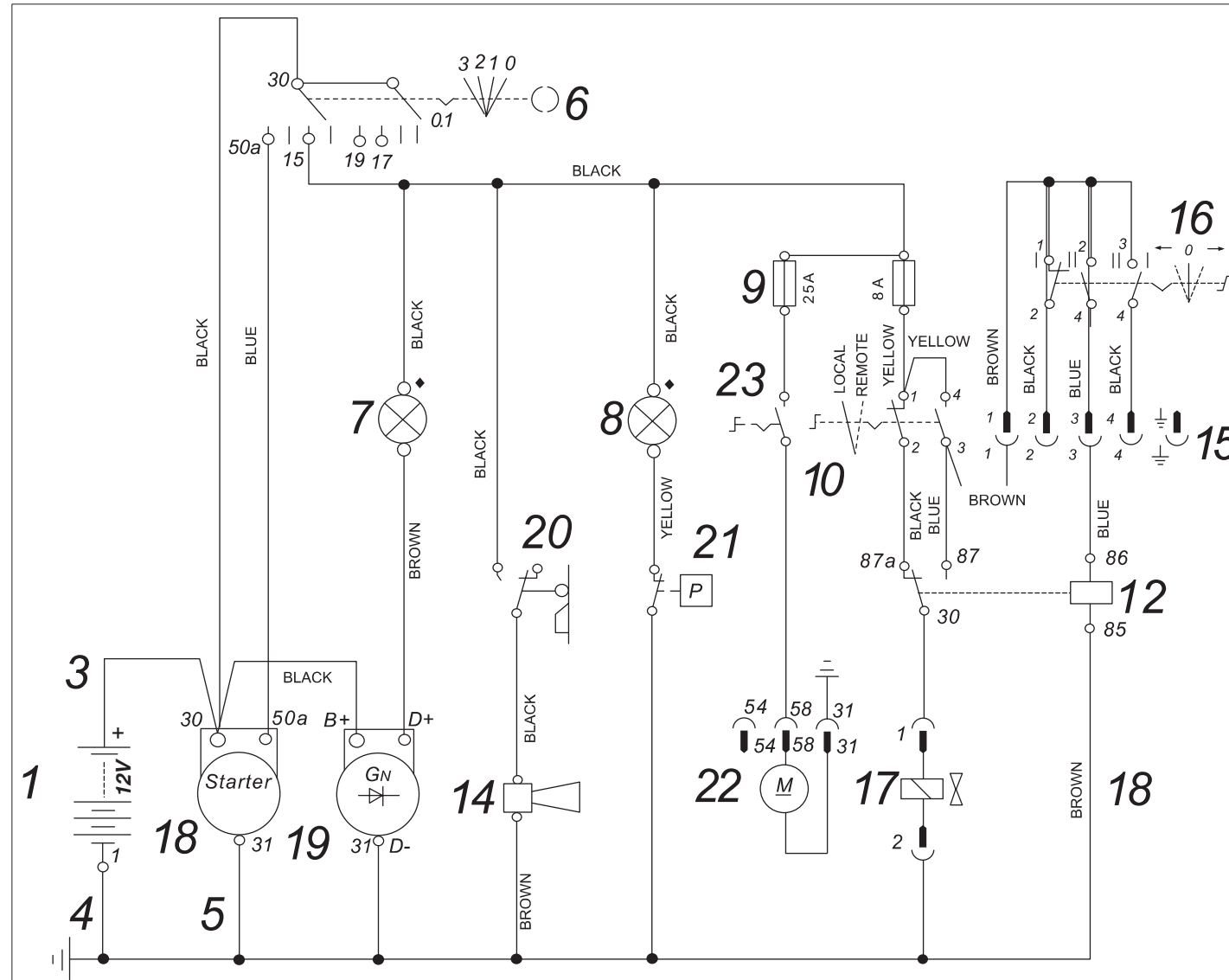
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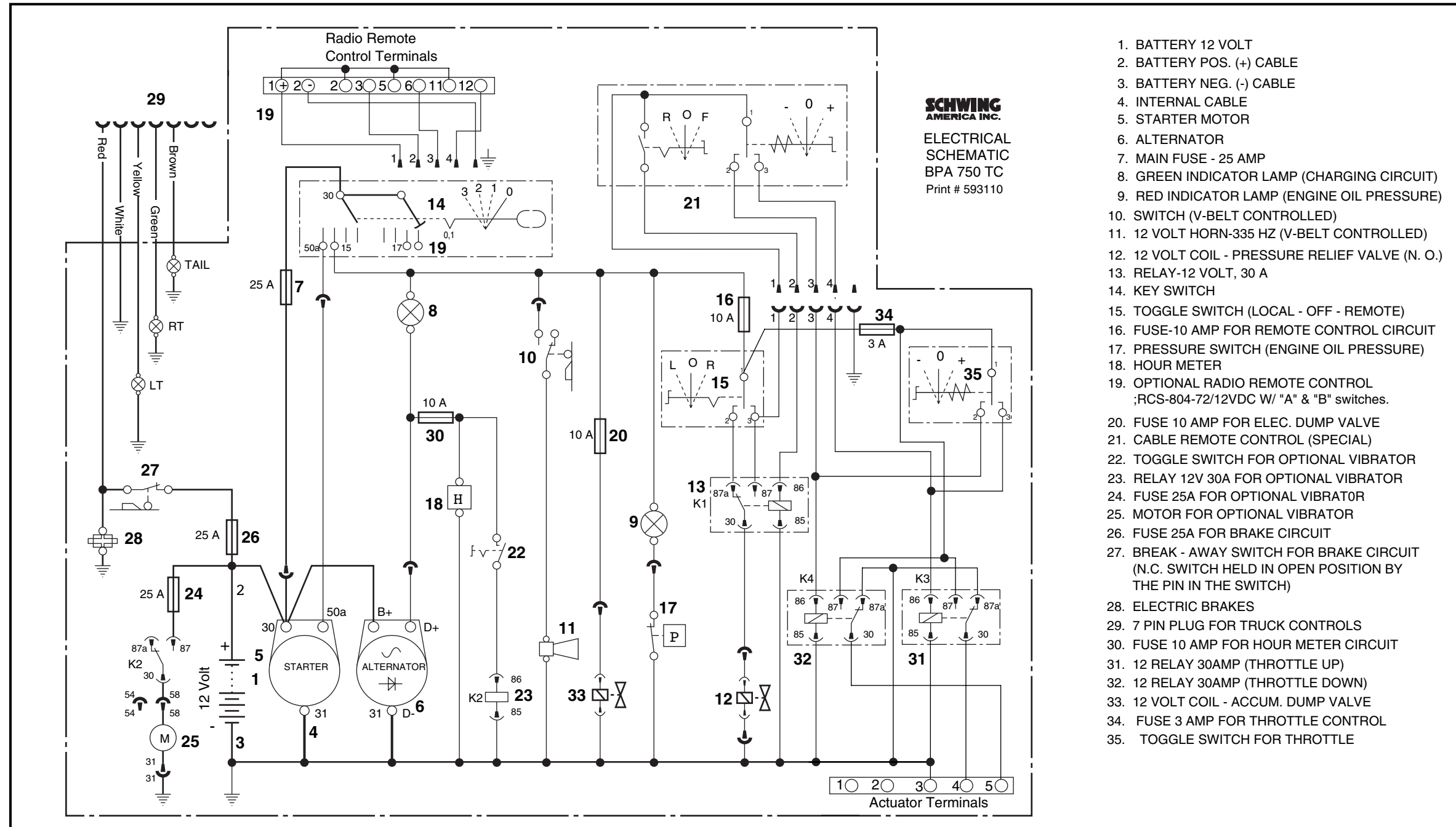
SP500 - CE Tier/ComIII



CAPTIONS TO THE ELECTRICAL CIRCUIT DIAGRAM 665 020 000 220
(Deutz F 3 L 912 - 12 V, 38 kw, 2500 rpm)

- | | |
|--|---------------------------------------|
| 1 - Battery 12 V, 88 Ah | 14 - Horn 12 V 335 Hz: V-belt control |
| 3 - Positive cable | 15 - Flanged connector 4 poles |
| 4 - Negative cable | 16 - Remote control |
| 5 - Impregnated cable | 17 - Solenoid Valve |
| 6 - Heater-plug starting switch | 18 - Starter |
| 7 - Indicating lamp, red: charging control | 19 - Generator |
| 8 - Indicating lamp, yellow: engine oil pressure control | 20 - Switch: V-belt control |
| 9 - Fuse box (25 A + 8 A) | 21 - Oil pressure switch |
| 10 - Jack switch: direct/remote control | 22 - Vibrator motor |
| 12 - Relay 12 V, 30 A | 23 - Switch: vibrator |

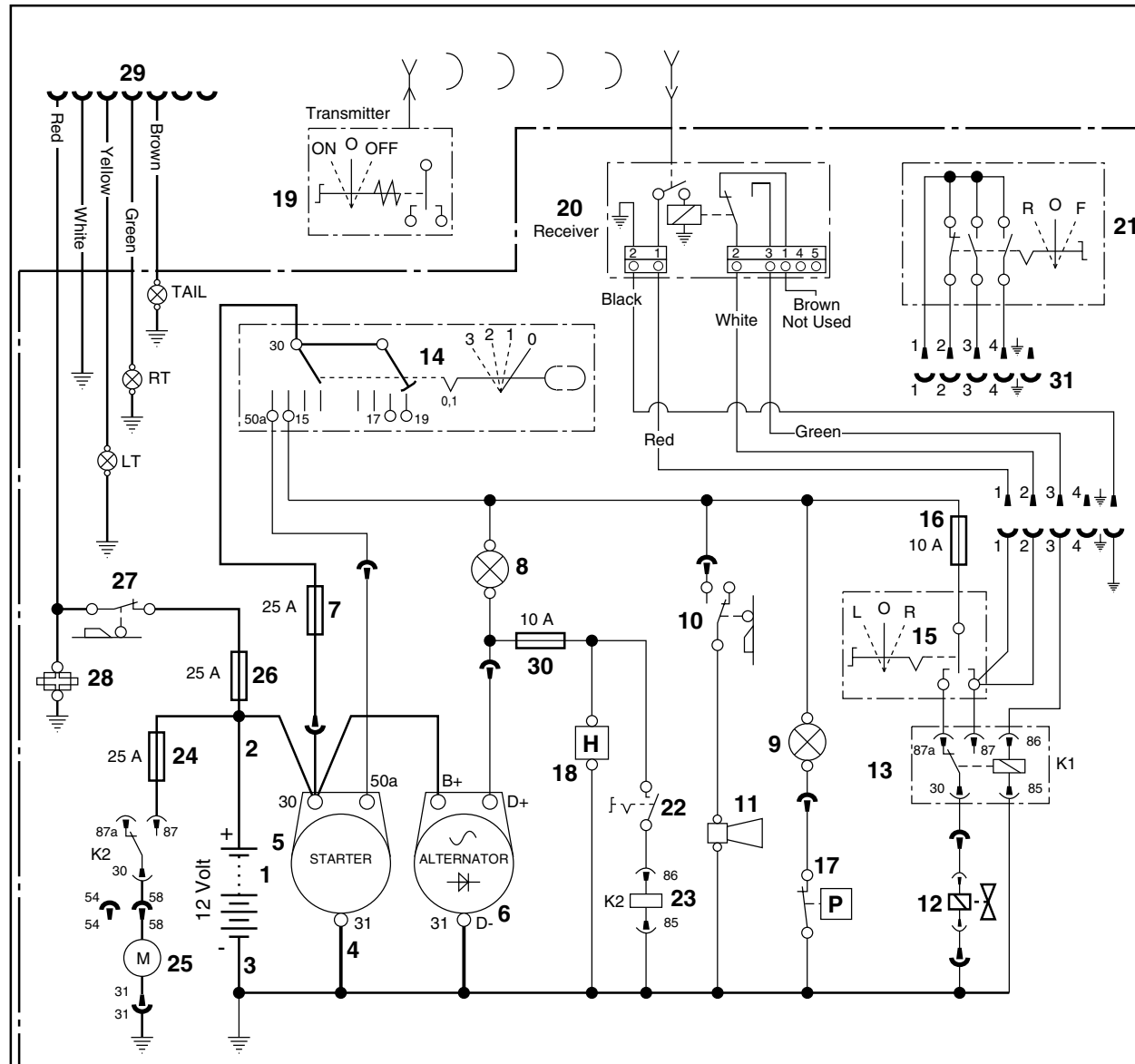
BP 750/1000 WITH REMOTE THROTTLE (TWIN CIRCUIT)



1. BATTERY 12 VOLT
2. BATTERY POS. (+) CABLE
3. BATTERY NEG. (-) CABLE
4. INTERNAL CABLE
5. STARTER MOTOR
6. ALTERNATOR
7. MAIN FUSE - 25 AMP
8. GREEN INDICATOR LAMP (CHARGING CIRCUIT)
9. RED INDICATOR LAMP (ENGINE OIL PRESSURE)
10. SWITCH (V-BELT CONTROLLED)
11. 12 VOLT HORN-335 HZ (V-BELT CONTROLLED)
12. 12 VOLT COIL - PRESSURE RELIEF VALVE (N. O.)
13. RELAY-12 VOLT, 30 A
14. KEY SWITCH
15. TOGGLE SWITCH (LOCAL - OFF - REMOTE)
16. FUSE-10 AMP FOR REMOTE CONTROL CIRCUIT
17. PRESSURE SWITCH (ENGINE OIL PRESSURE)
18. HOUR METER
19. OPTIONAL RADIO REMOTE CONTROL ;RCS-804-72/12VDC W/ "A" & "B" switches.
20. FUSE 10 AMP FOR ELEC. DUMP VALVE
21. CABLE REMOTE CONTROL (SPECIAL)
22. TOGGLE SWITCH FOR OPTIONAL VIBRATOR
23. RELAY 12V 30A FOR OPTIONAL VIBRATOR
24. FUSE 25A FOR OPTIONAL VIBRATOR
25. MOTOR FOR OPTIONAL VIBRATOR
26. FUSE 25A FOR BRAKE CIRCUIT
27. BREAK - AWAY SWITCH FOR BRAKE CIRCUIT (N.C. SWITCH HELD IN OPEN POSITION BY THE PIN IN THE SWITCH)
28. ELECTRIC BRAKES
29. 7 PIN PLUG FOR TRUCK CONTROLS
30. FUSE 10 AMP FOR HOUR METER CIRCUIT
31. 12 RELAY 30AMP (THROTTLE UP)
32. 12 RELAY 30AMP (THROTTLE DOWN)
33. 12 VOLT COIL - ACCUM. DUMP VALVE
34. FUSE 3 AMP FOR THROTTLE CONTROL
35. TOGGLE SWITCH FOR THROTTLE

N/A

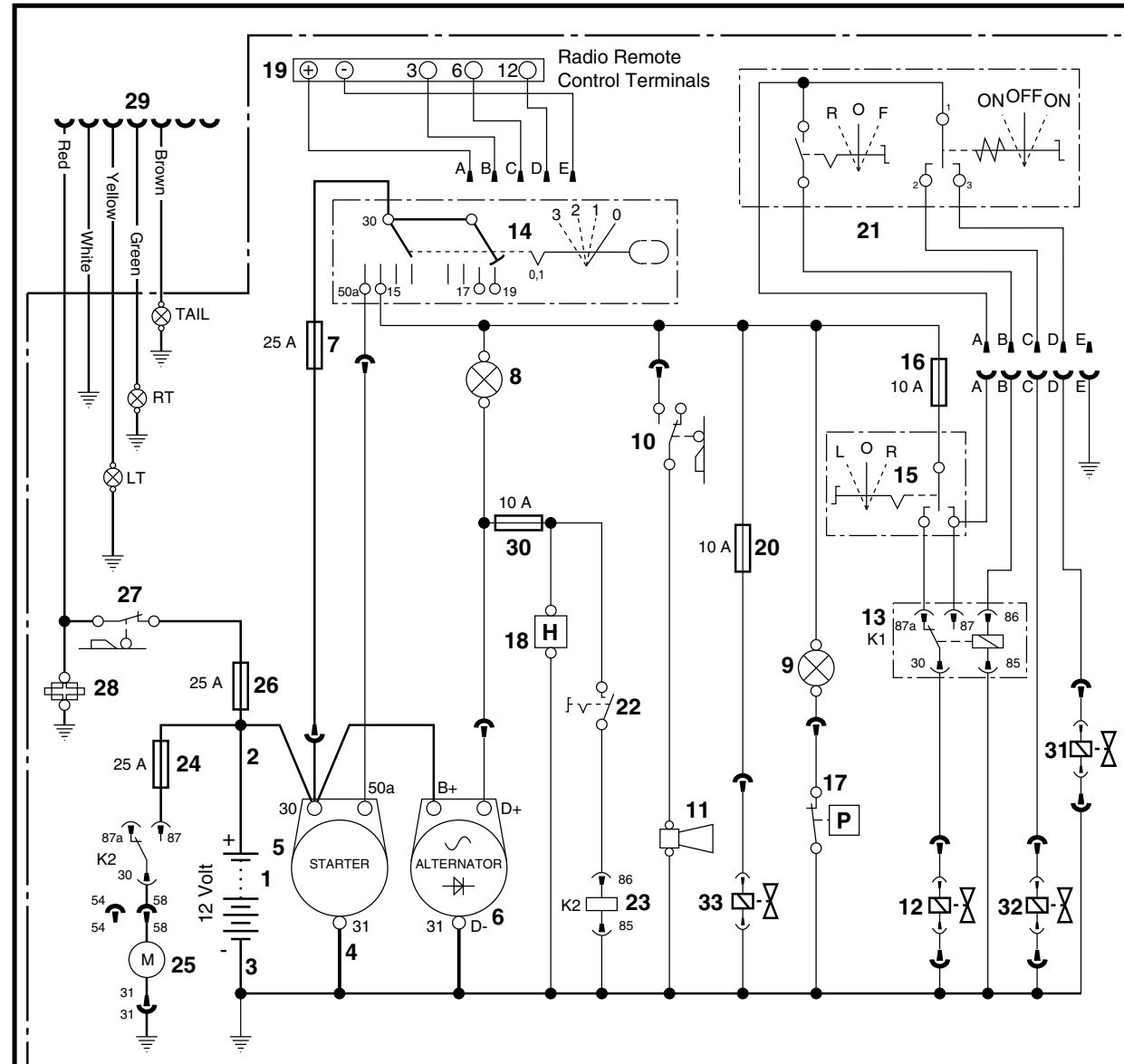
BP 750/1000 WITH VIBRATOR RELAY & OPTIONAL RADIO REMOTE



ELECTRICAL SCHEMATIC
BPA 750 - 15, 750 -18, 1000

5/91

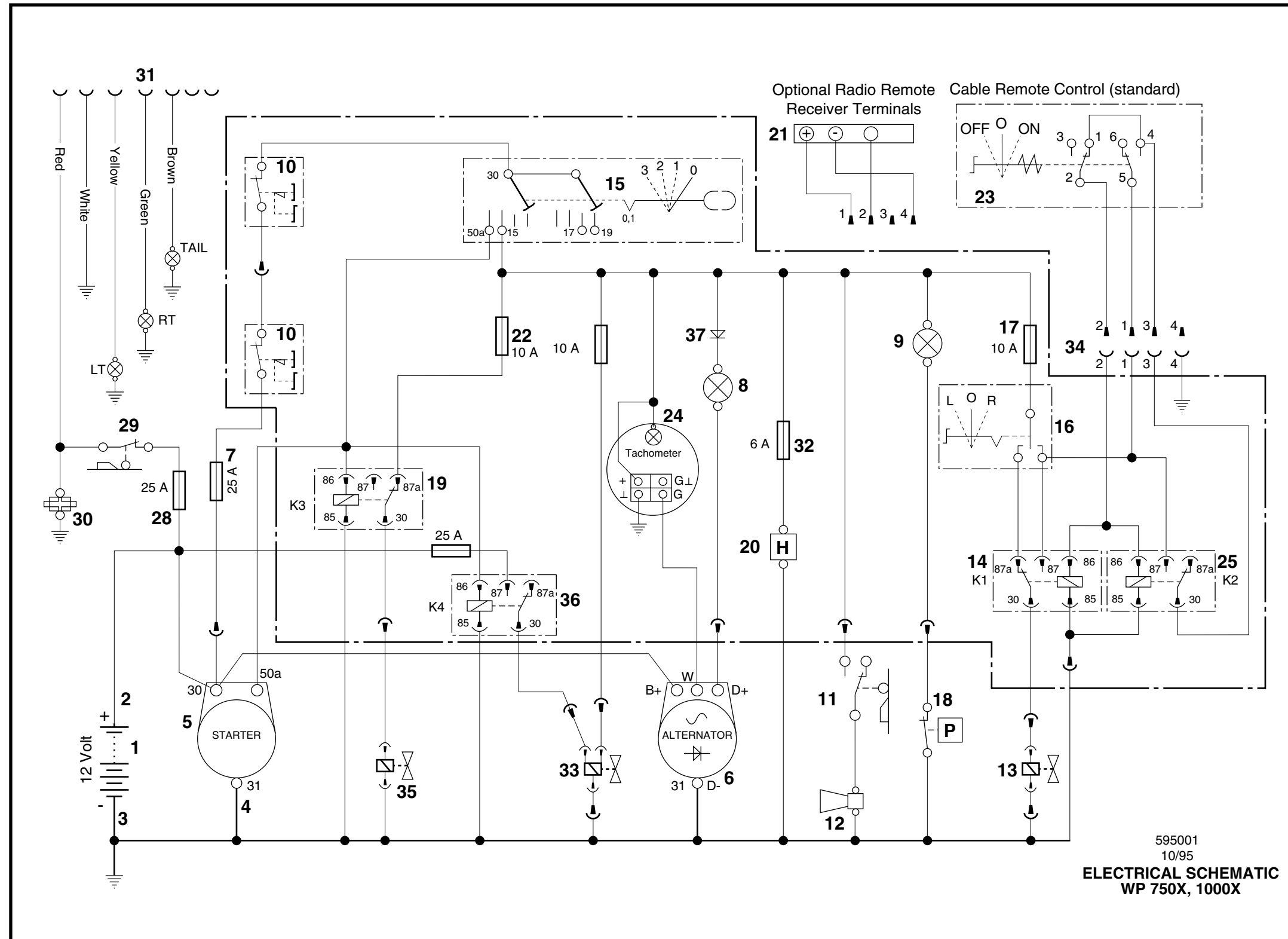
- | | | | |
|---|---|--|--|
| 1. BATTERY 12 VOLT | 9. RED INDICATOR LAMP
ENGINE OIL PRESSURE | 16. FUSE-10 AMP | 23. RELAY 12V 30A FOR OPTIONAL VIBRATOR |
| 2. BATTERY POS. (+) CABLE | 10. SWITCH (V-BELT CONTROLLED) | 17. PRESSURE SWITCH
ENGINE OIL PRESSURE | 24. FUSE 25A FOR OPTIONAL VIBRATOR |
| 3. BATTERY NEG. (-) CABLE | 11. 12 VOLT HORN-335 HZ
(V-BELT CONTROLLED) | 18. HOUR METER | 25. OPTIONAL VIBRATOR MOTOR |
| 4. INTERNAL CABLE | 12. 12 VOLT COIL-PRESSURE
RELIEF VALVE (N. O.) | 19. OPTIONAL RADIO REMOTE
CONTROL TRANSMITTER | 26. FUSE 25A FOR BRAKE CIRCUIT |
| 5. STARTER MOTOR | 13. RELAY-12 VOLT, 30 A | 20. OPTIONAL RADIO REMOTE
CONTROL RECEIVER | 27. BREAK - AWAY SWITCH FOR BRAKE CIRCUIT
(N.C. SWITCH HELD IN OPEN POSITION BY
THE PIN IN THE SWITCH) |
| 6. ALTERNATOR | 14. KEY SWITCH | 21. CABLE REMOTE
CONTROL (STANDARD) | 28. ELECTRIC BRAKES |
| 7. MAIN FUSE-25 AMP | 15. TOGGLE SWITCH
LOCAL-OFF-REMOTE | 22. TOGGLE SWITCH FOR
OPTIONAL VIBRATOR | 29. 7 PIN PLUG FOR TRUCK CONTROLS |
| 8. GREEN INDICATOR LAMP
CHARGING CIRCUIT | | | 30. FUSE-10 AMP |
| | | | 31. DUMMY SOCKET (WITH OPTIONAL RADIO) |

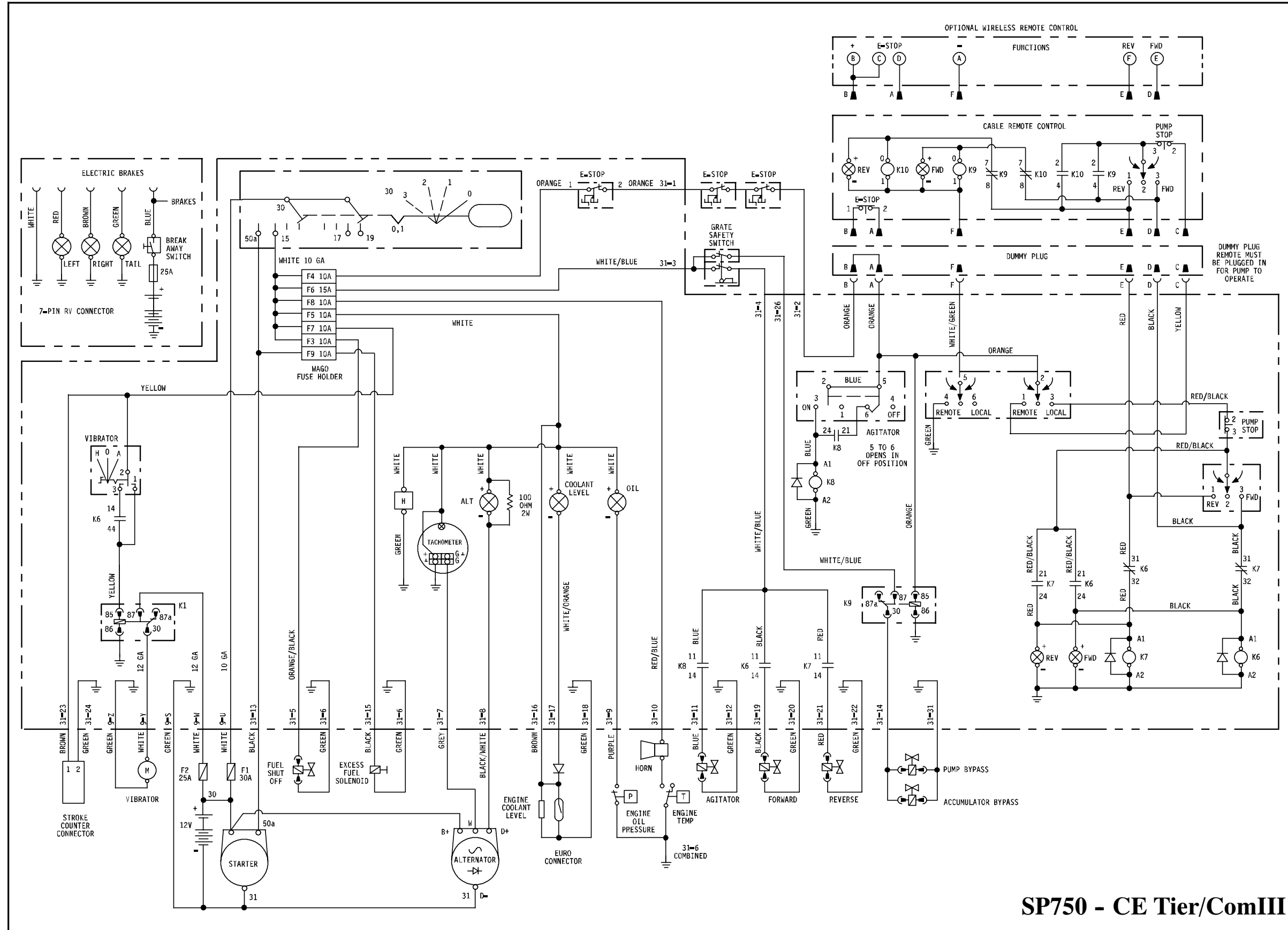


**ELECTRICAL SCHEMATIC
BPA 750 TC**

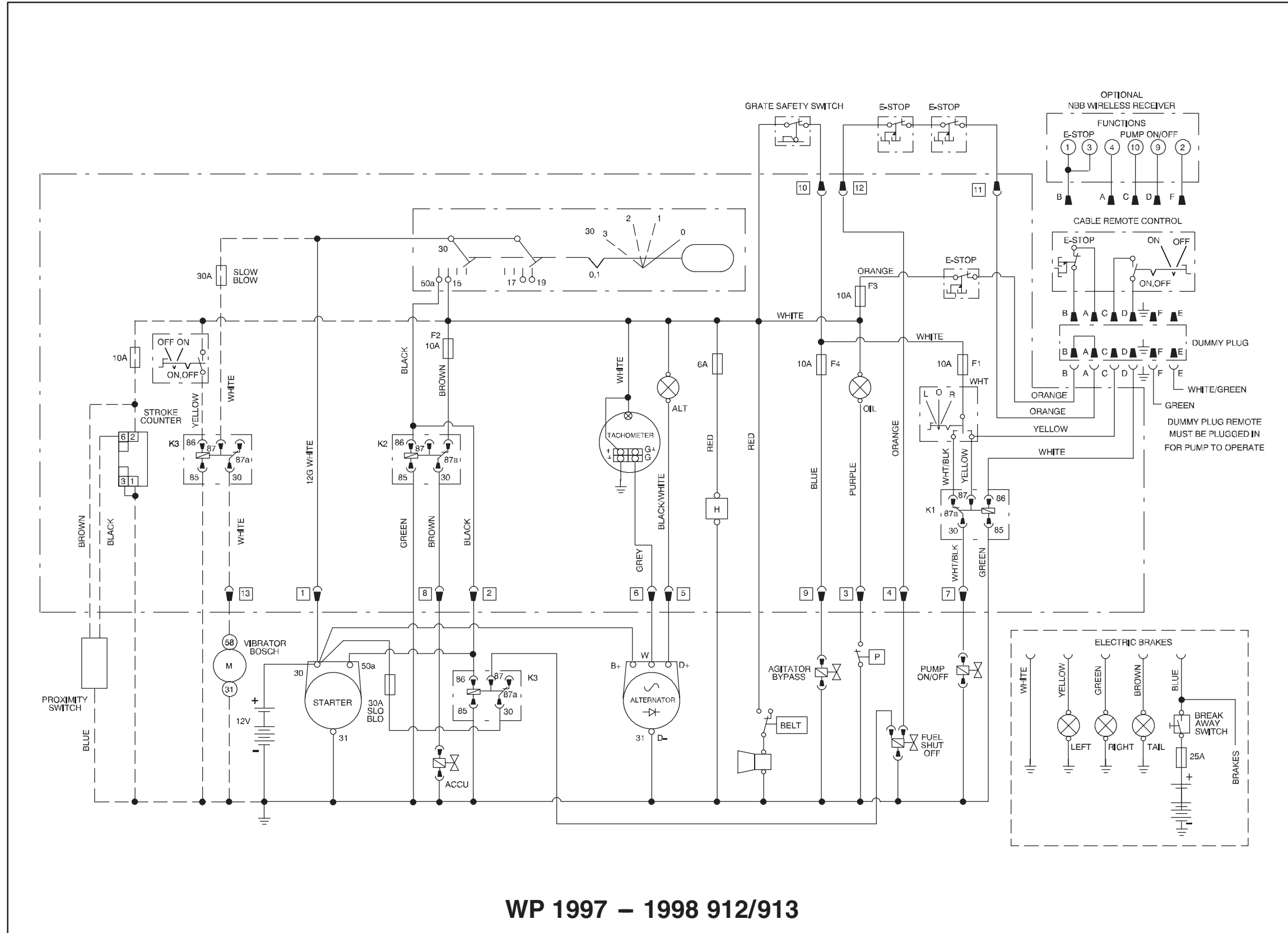
393020
UNITS #173 AND #211

- | | | | |
|---|--|---|--|
| 1. BATTERY 12 VOLT | 10. SWITCH (V-BELT CONTROLLED) | 18. HOUR METER | 25. MOTOR FOR OPTIONAL VIBRATOR |
| 2. BATTERY POS. (+) CABLE | 11. 12 VOLT HORN-335 HZ (V-BELT CONTROLLED) | 19. OPTIONAL RADIO REMOTE CONTROL;RCS-804-72/12VDC W/ "A" & "B" switches. | 26. FUSE 25A FOR BRAKE CIRCUIT |
| 3. BATTERY NEG. (-) CABLE | 12. 12 VOLT COIL - PRESSURE RELIEF VALVE (N. O.) | 20. FUSE 10 AMP FOR ELEC. DUMP VALVE | 27. BREAK - AWAY SWITCH FOR BRAKE CIRCUIT (N.C. SWITCH HELD IN OPEN POSITION BY THE PIN IN THE SWITCH) |
| 4. INTERNAL CABLE | 13. RELAY-12 VOLT, 30 A | 21. CABLE REMOTE CONTROL (SPECIAL) | 28. ELECTRIC BRAKES |
| 5. STARTER MOTOR | 14. KEY SWITCH | 22. TOGGLE SWITCH FOR OPTIONAL VIBRATOR | 29. 7 PIN PLUG FOR TRUCK CONTROLS |
| 6. ALTERNATOR | 15. TOGGLE SWITCH LOCAL - OFF - REMOTE | 23. RELAY 12V 30A FOR OPTIONAL VIBRATOR | 30. FUSE 10 AMP FOR HOUR METER CIRCUIT |
| 7. MAIN FUSE - 25 AMP | 16. FUSE-10 AMP FOR REMOTE CONTROL CIRCUIT | 24. FUSE 25A FOR OPTIONAL VIBRATOR | 31. 12 VOLT COIL - CUSTOMER REQUEST |
| 8. GREEN INDICATOR LAMP CHARGING CIRCUIT | 17. PRESSURE SWITCH ENGINE OIL PRESSURE | | 32. 12 VOLT COIL - CUSTOMER REQUEST |
| 9. RED INDICATOR LAMP ENGINE OIL PRESSURE | | | 33. 12 VOLT COIL - ACCUMULATOR DUMP VALVE (N.O.) |

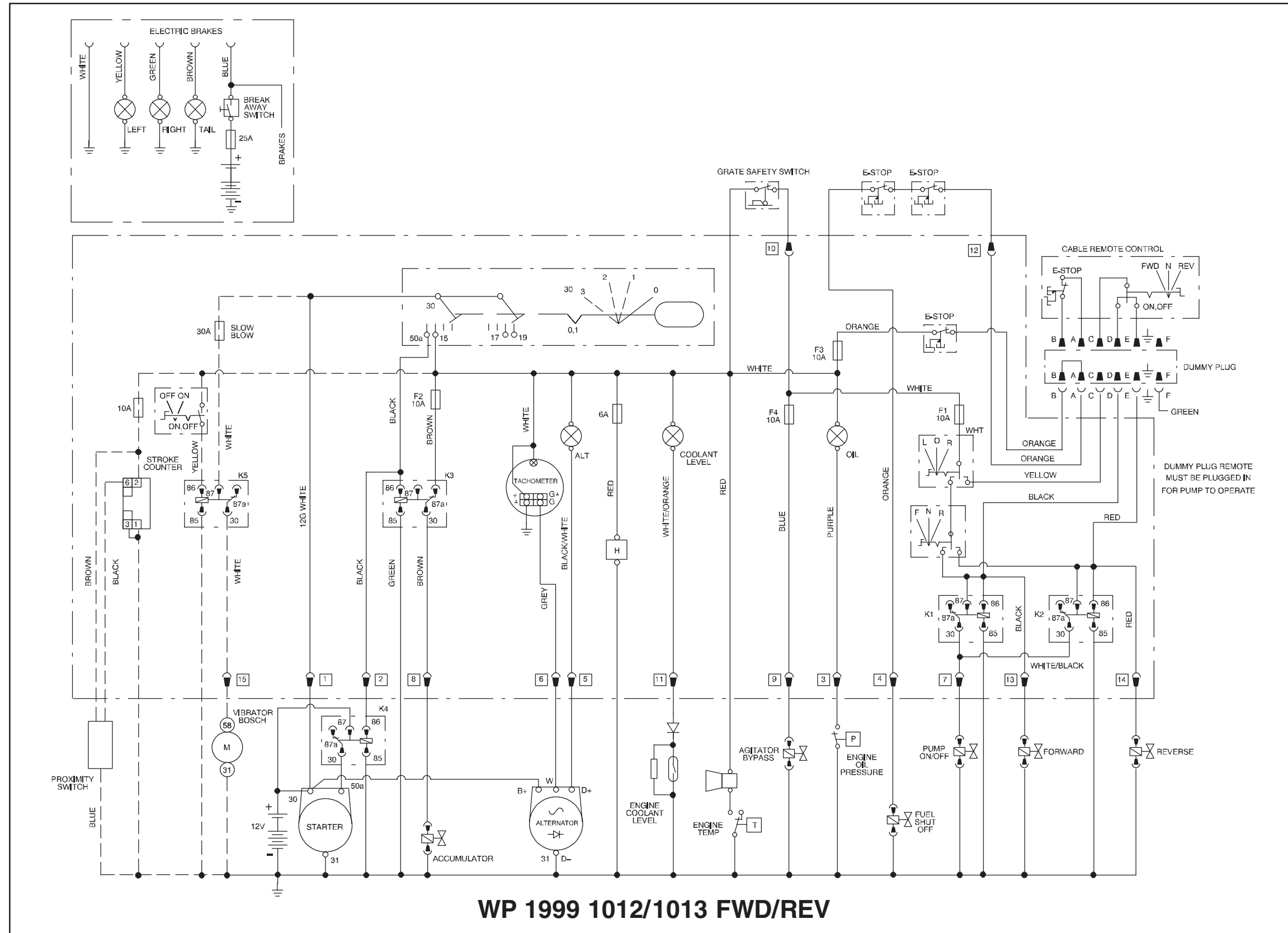


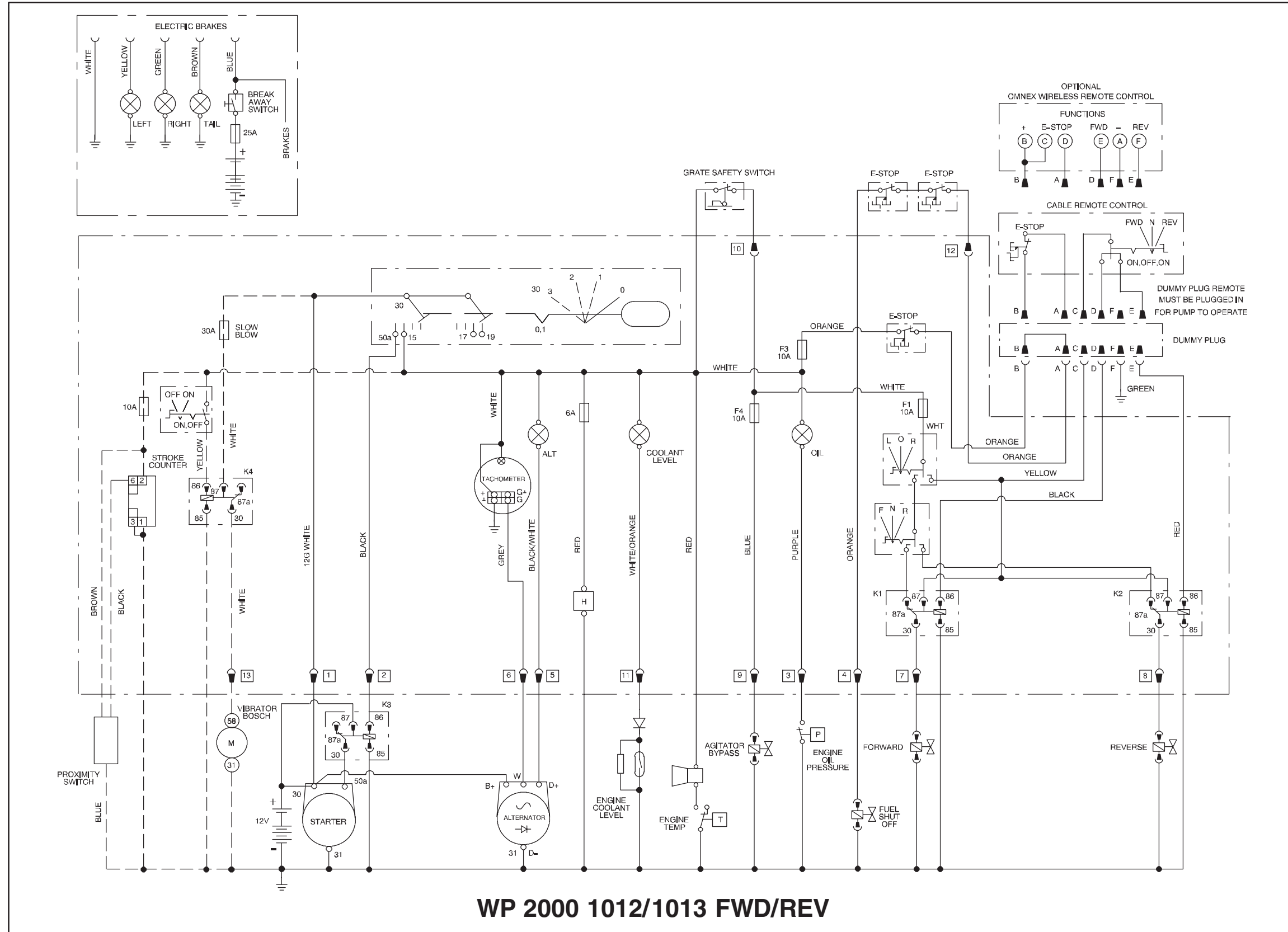


SP750 - CE Tier/ComIII



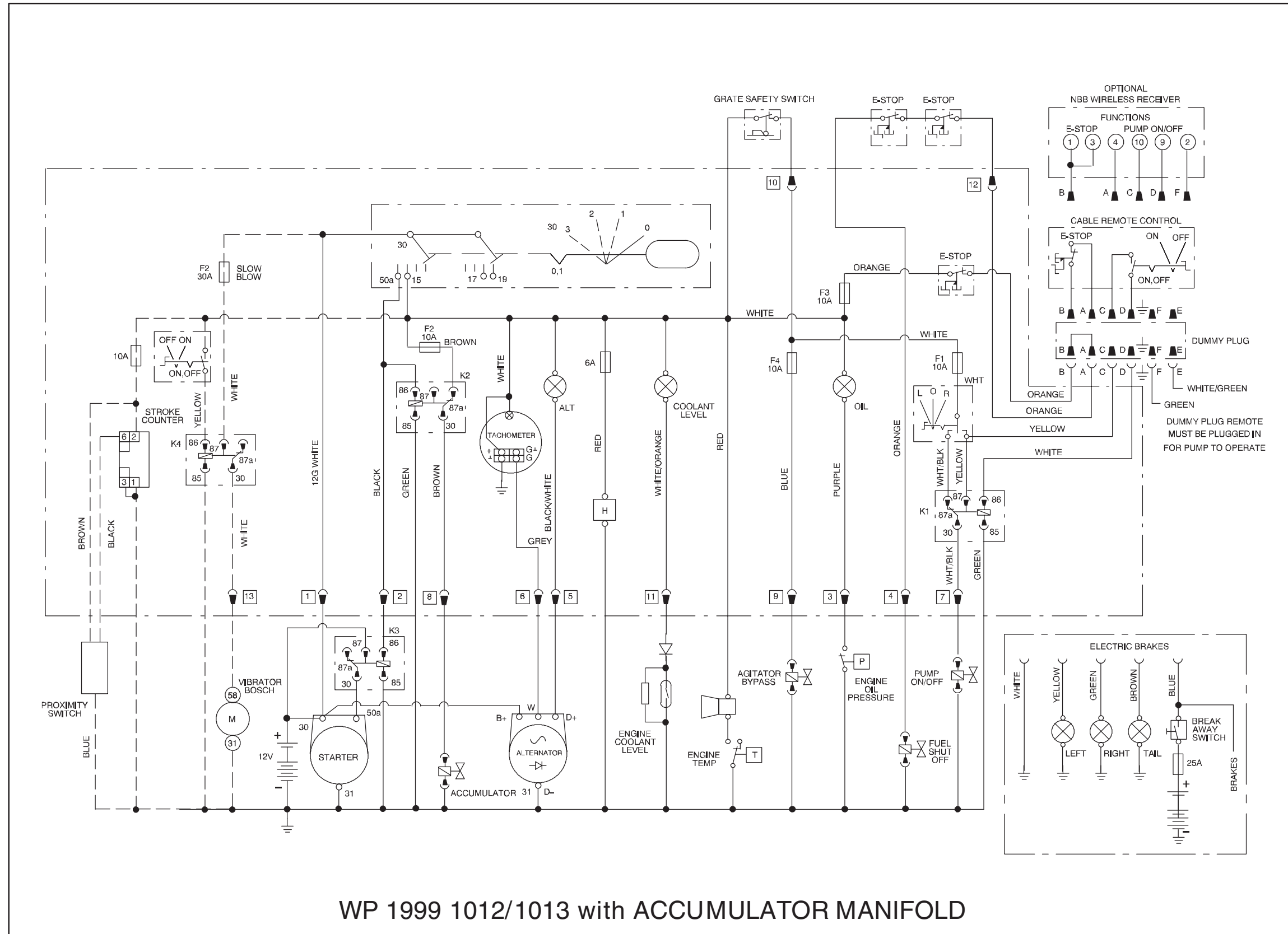
WP 1997 – 1998 912/913

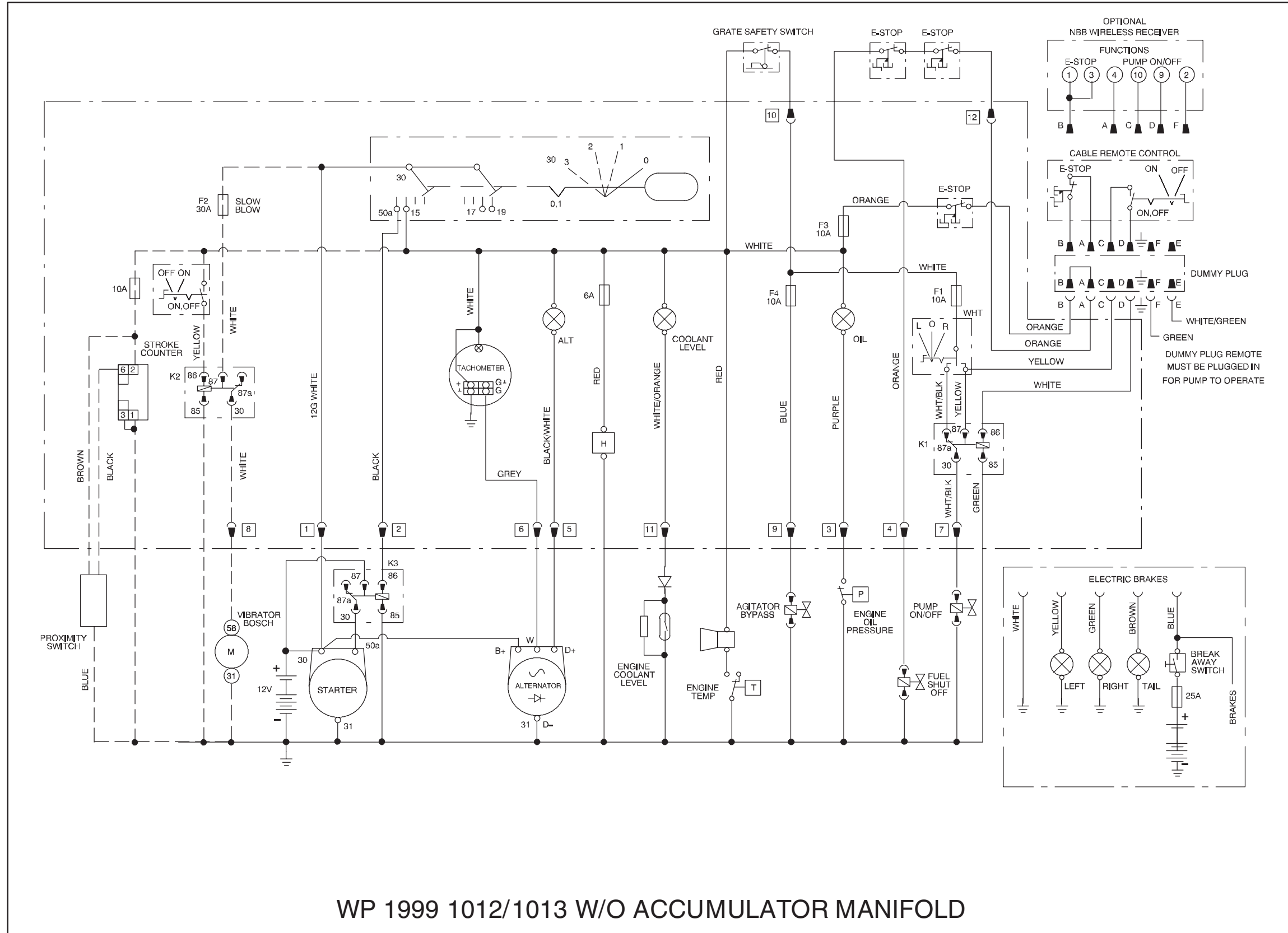




WP 2000 1012/1013 FWD/REV

01/01/00

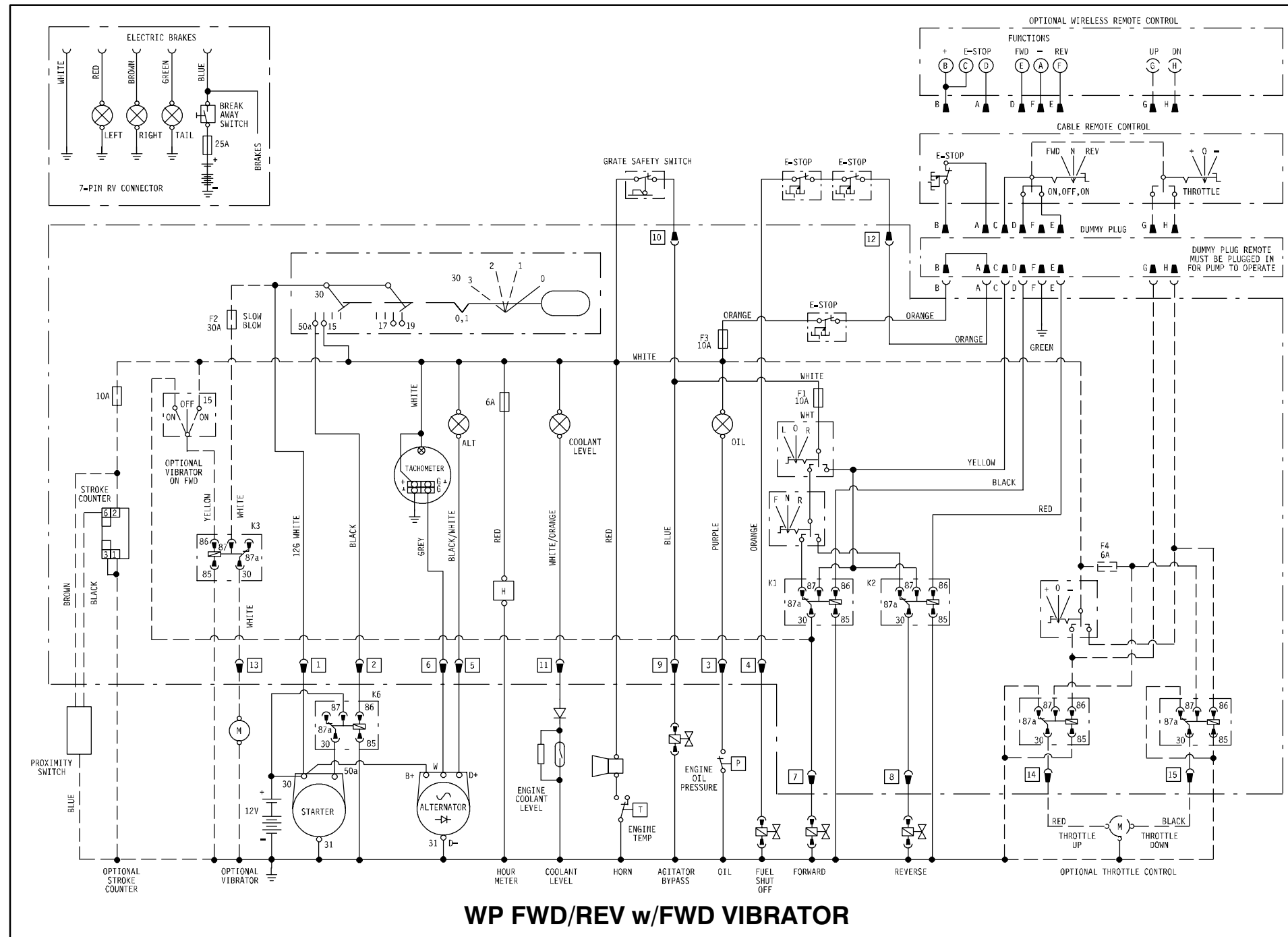




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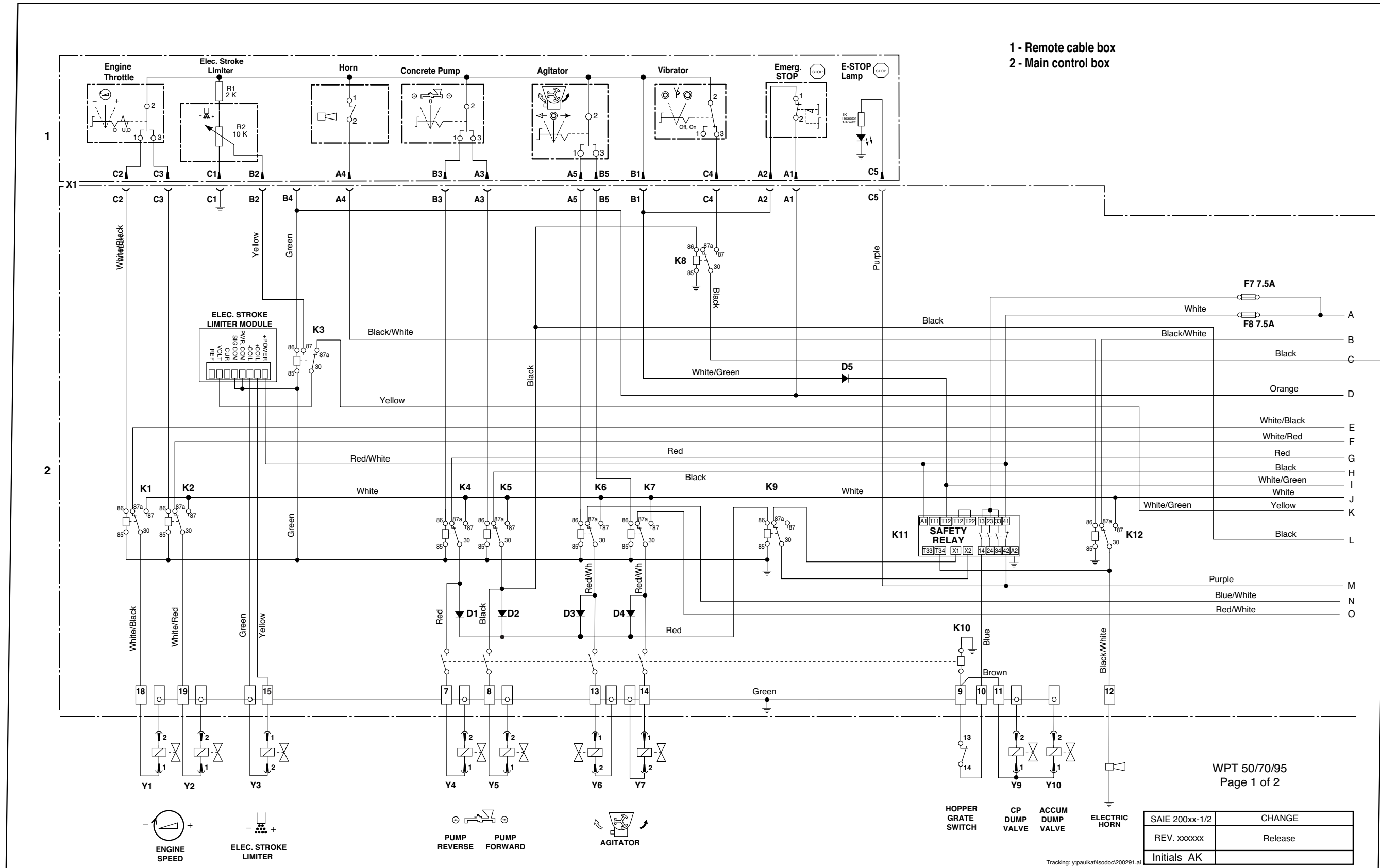
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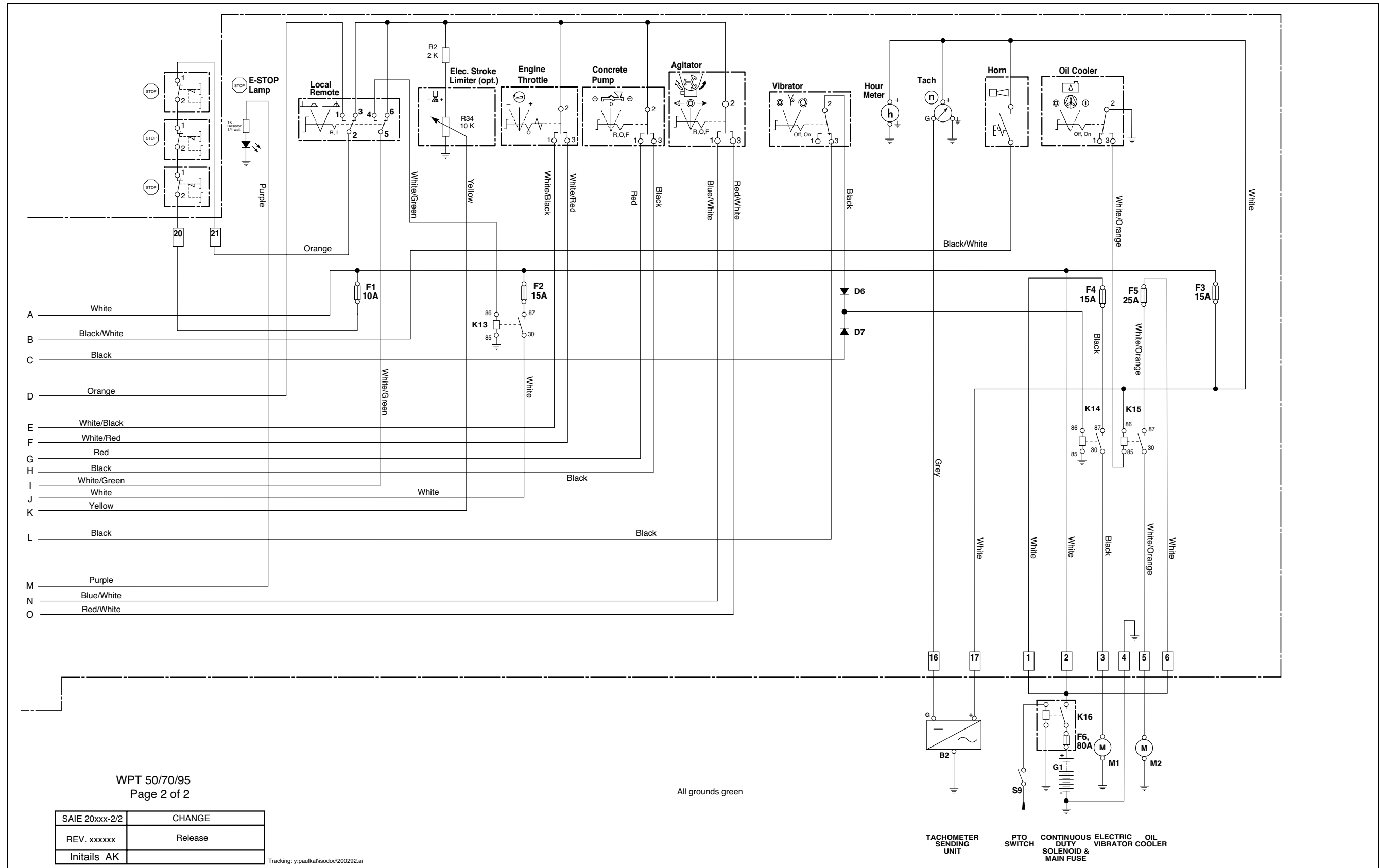
WP FWD/REV w/FWD VIBRATOR



05/15/05

1 - Remote cable box
2 - Main control box

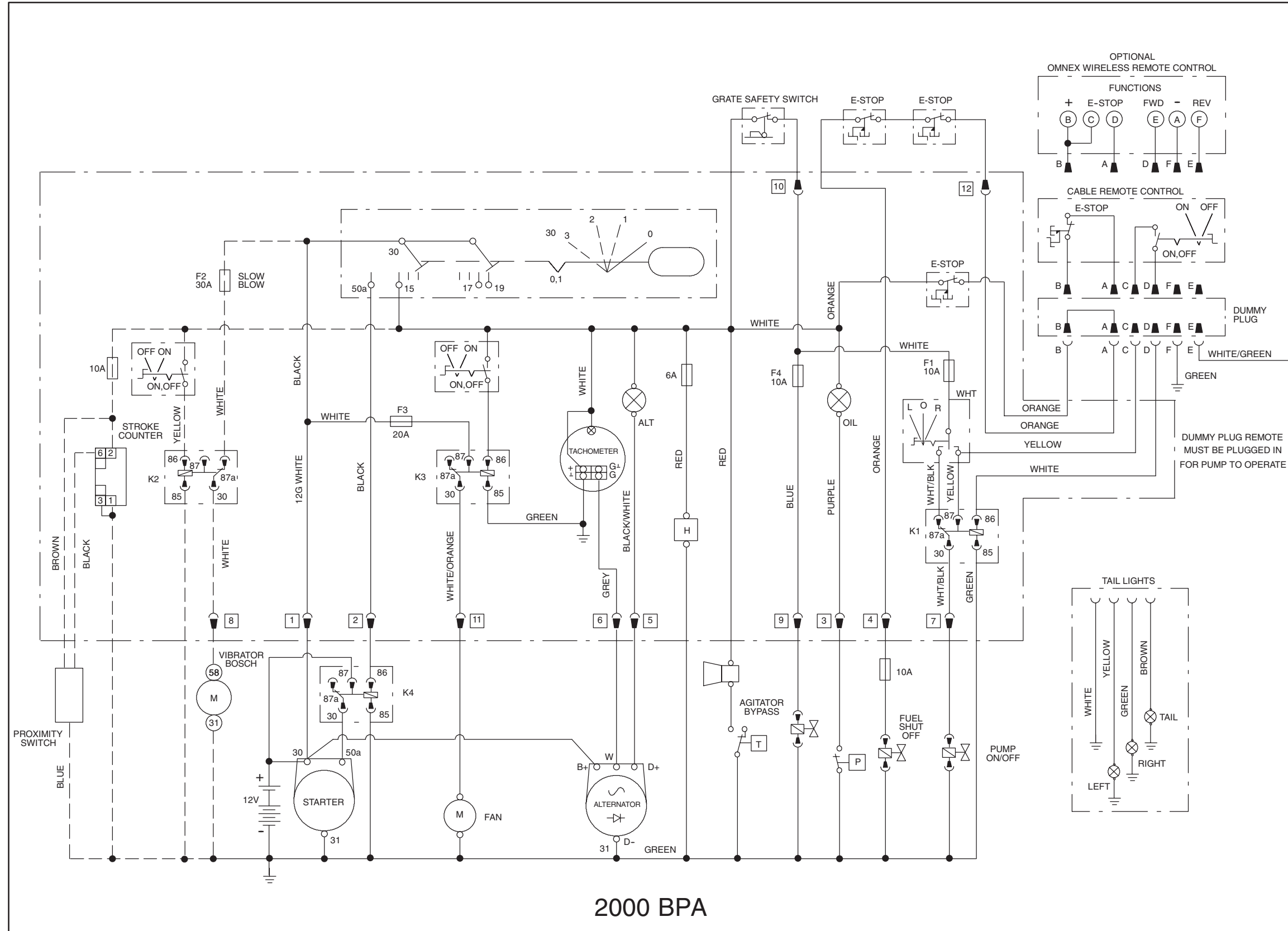




WPT 50/70/95
Page 2 of 2

SAIE 20xxx-2/2	CHANGE
REV. xxxxxx	Release
Initials AK	

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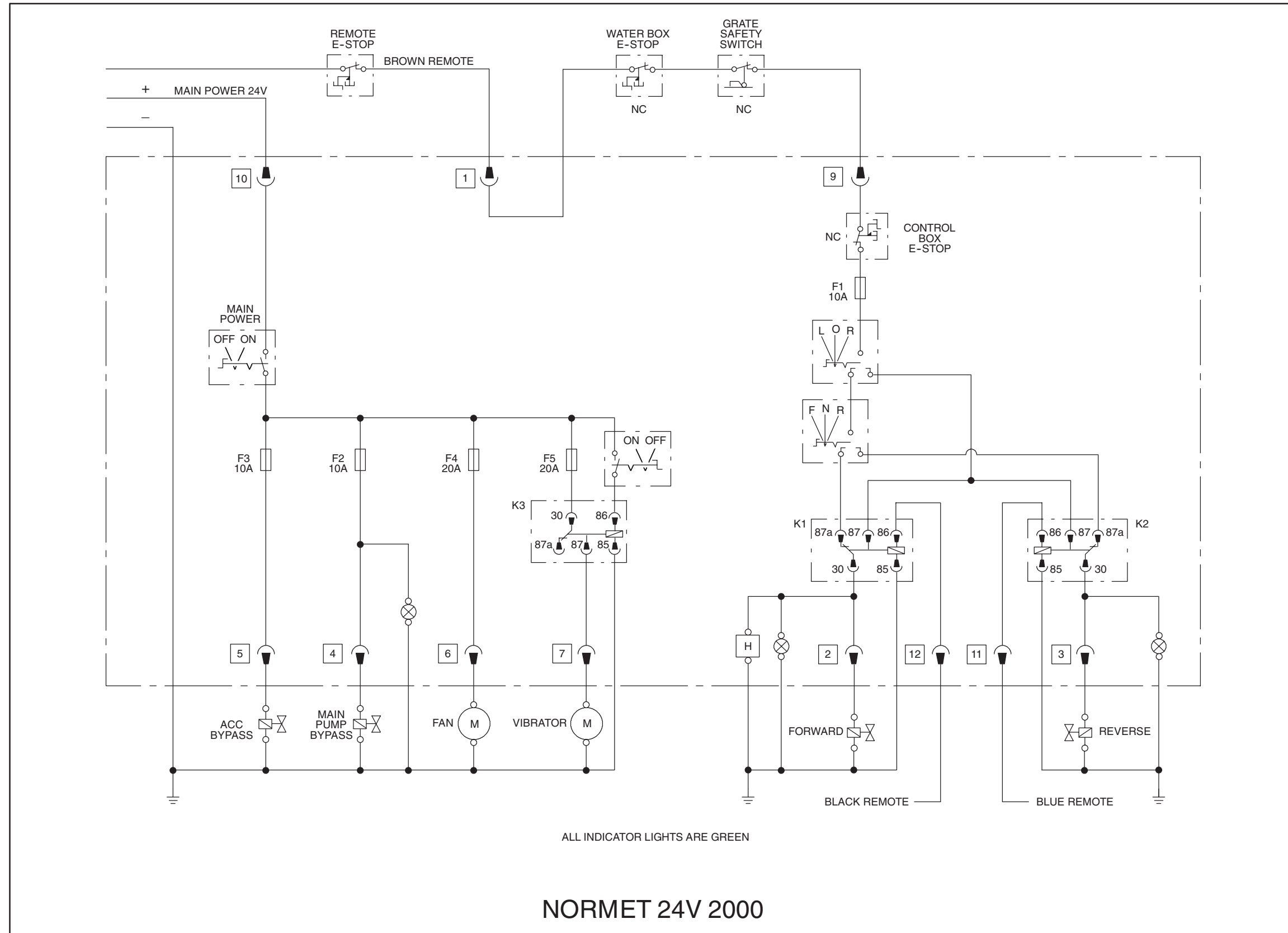


2000 BPA

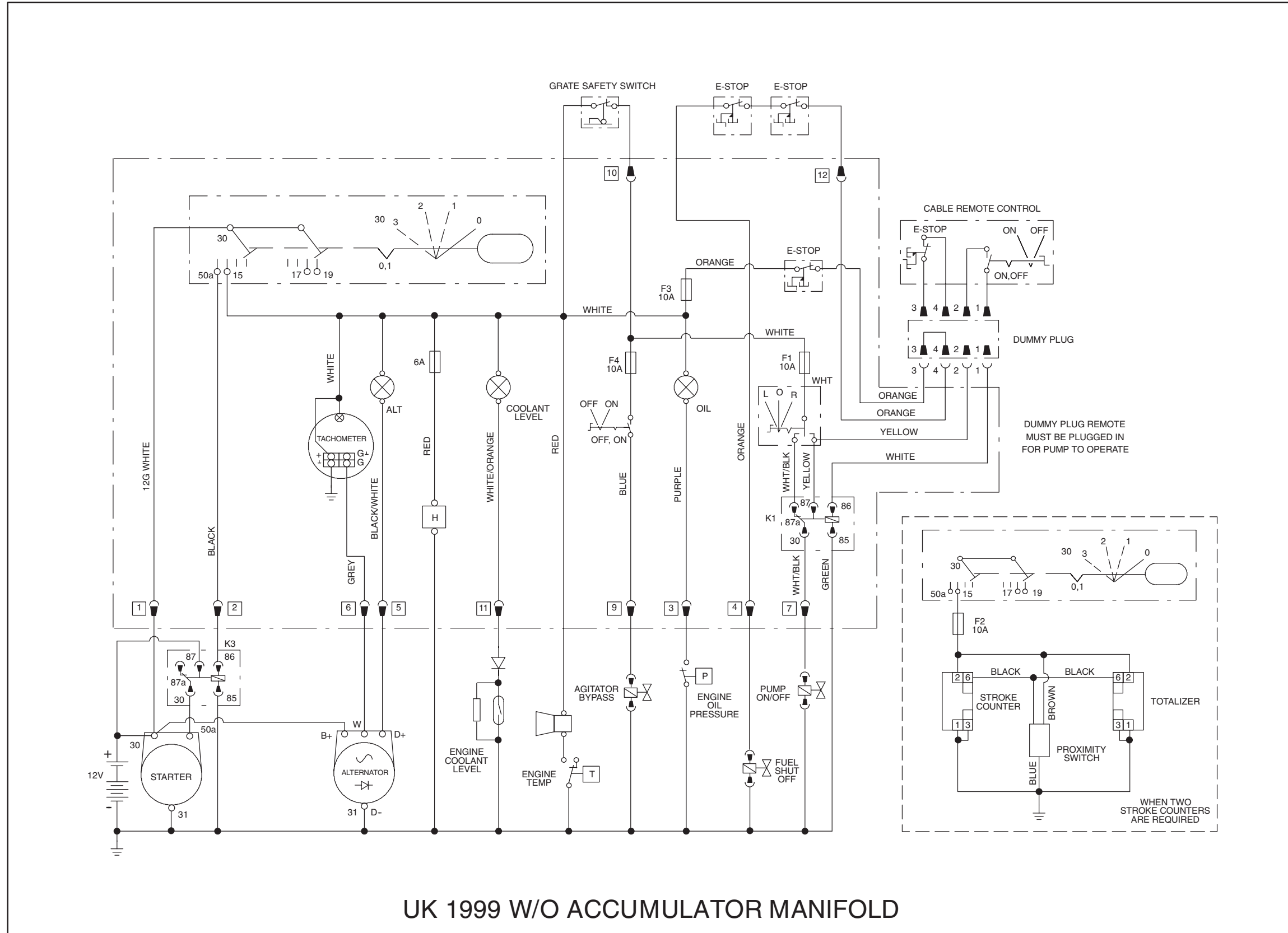
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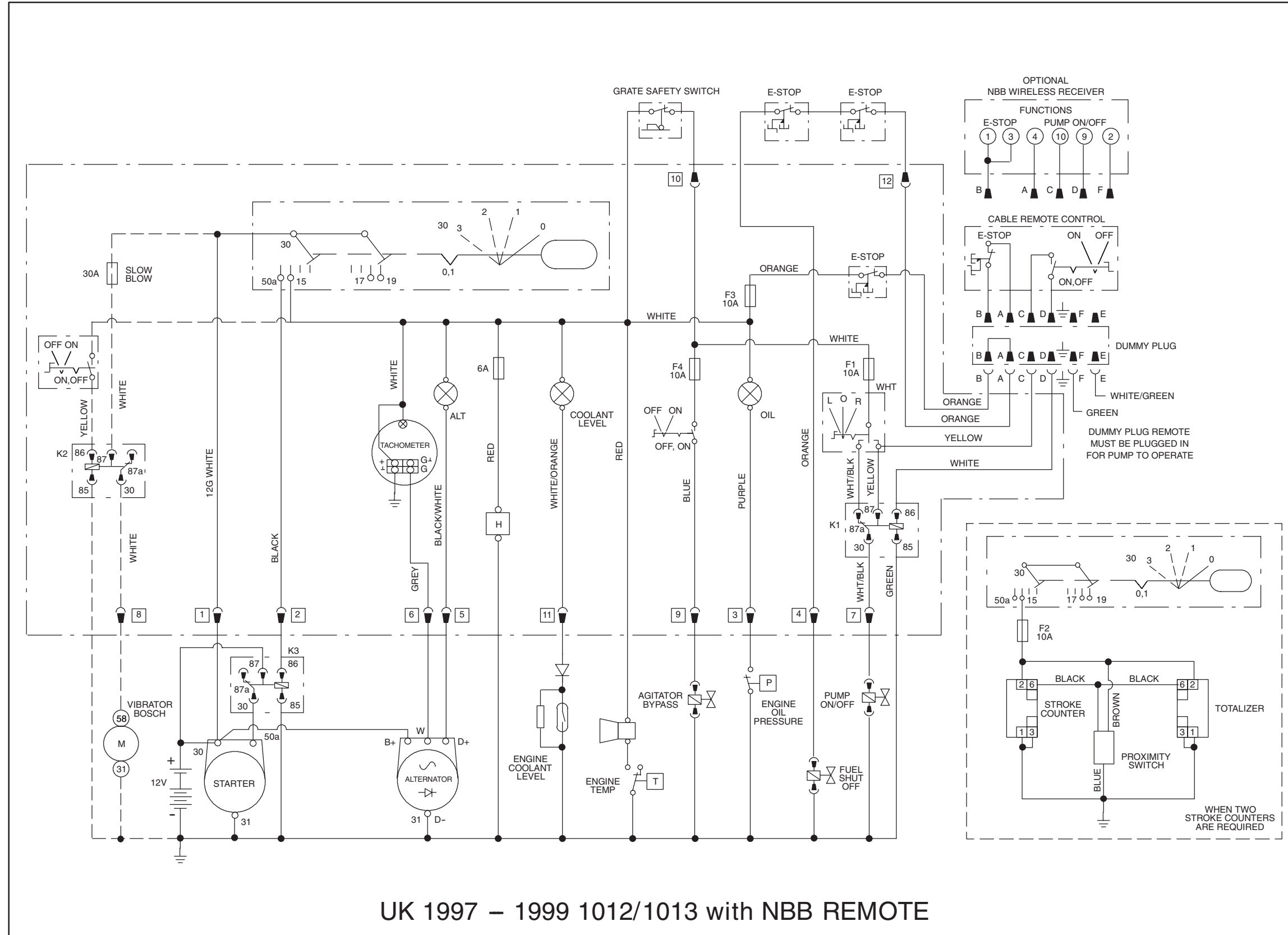


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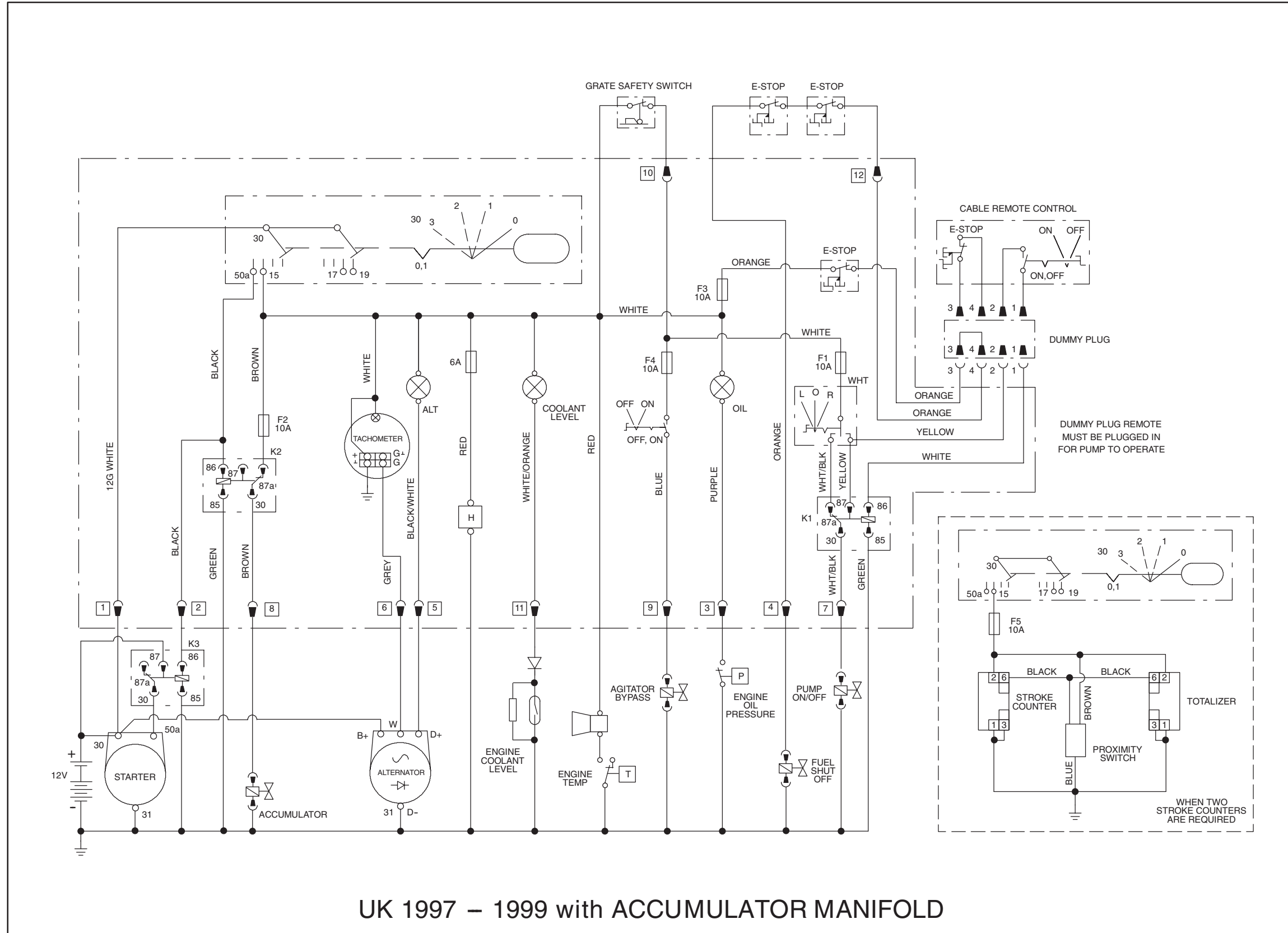


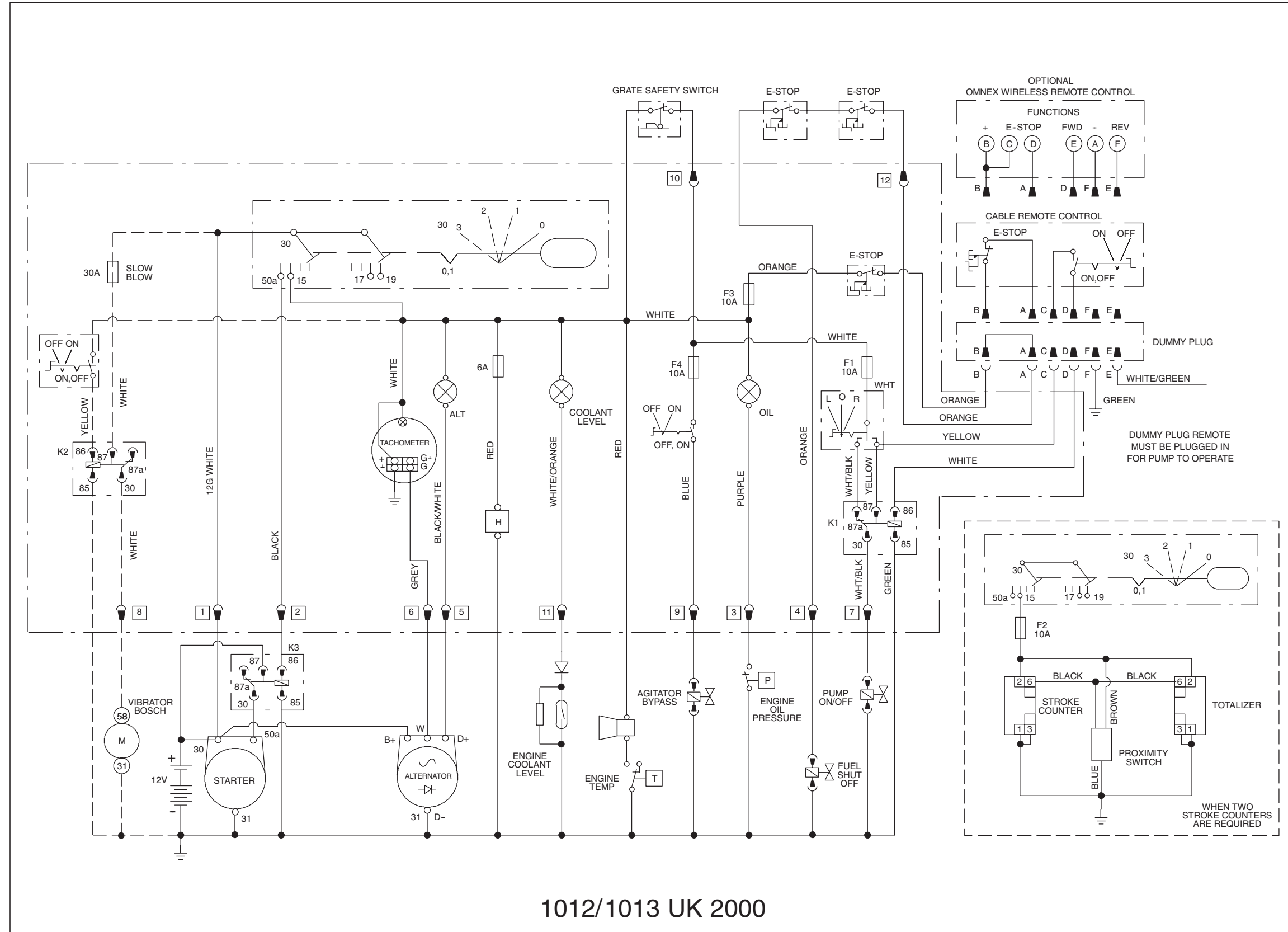
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UK 1997 - 1999 1012/1013 with NBB REMOTE



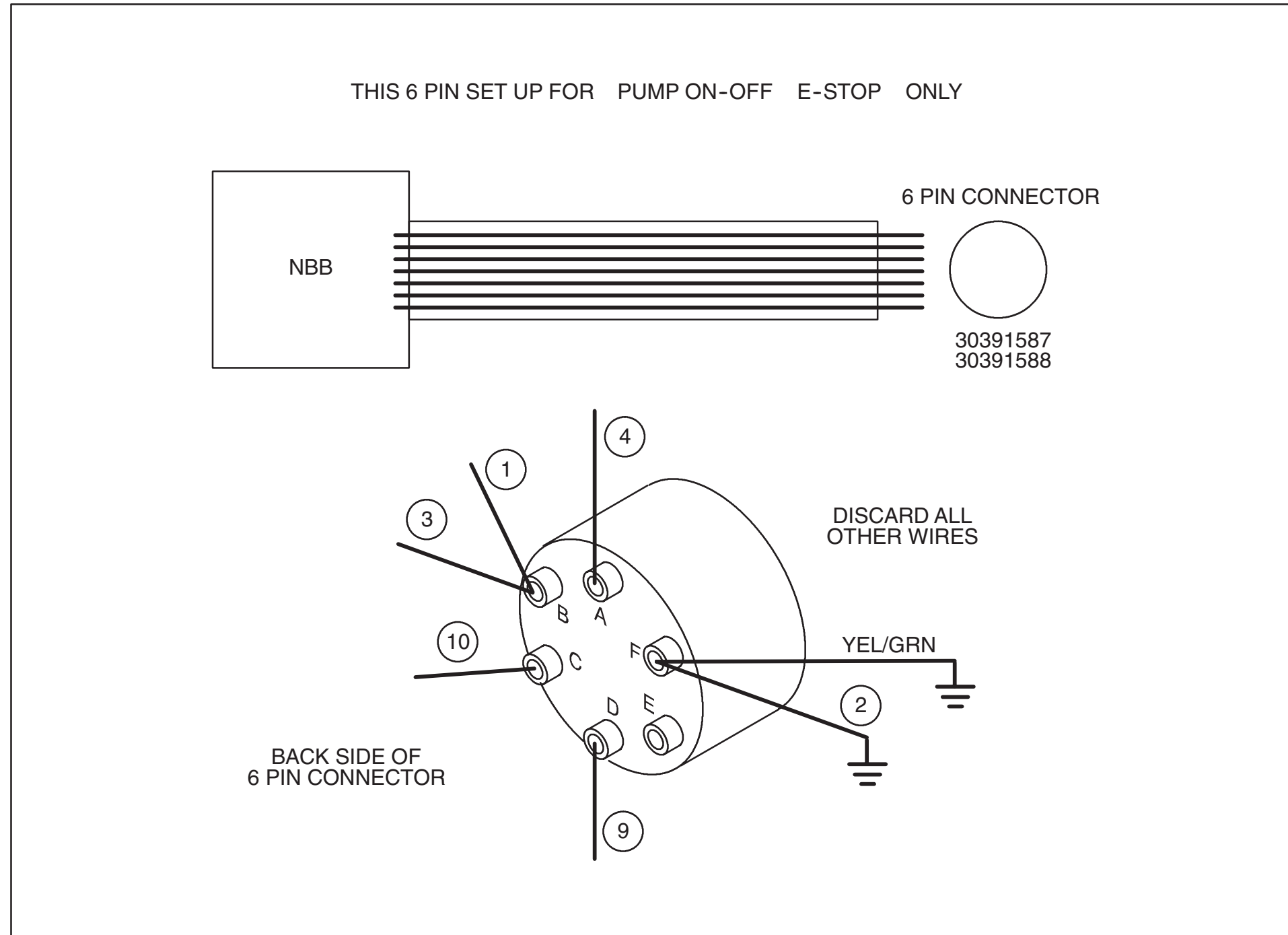
UK 1997 – 1999 1012/1013 with NBB REMOTE





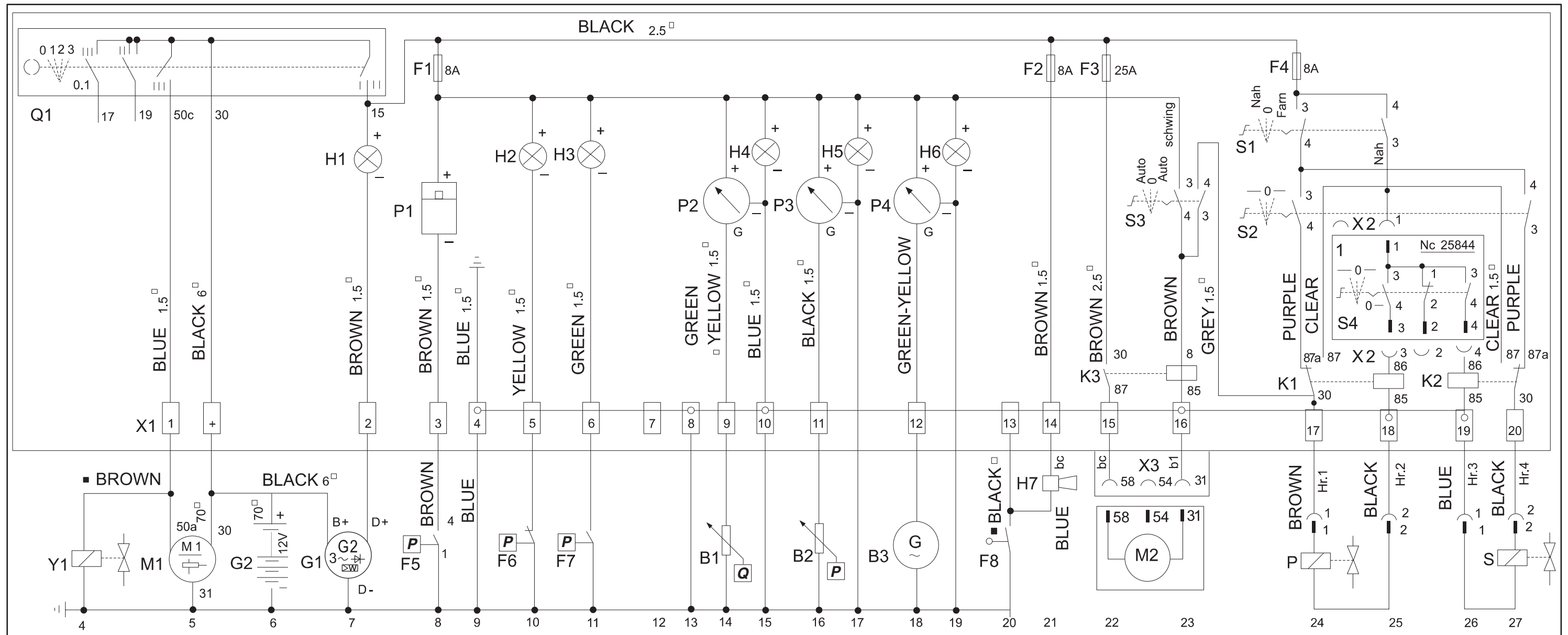
1012/1013 UK 2000

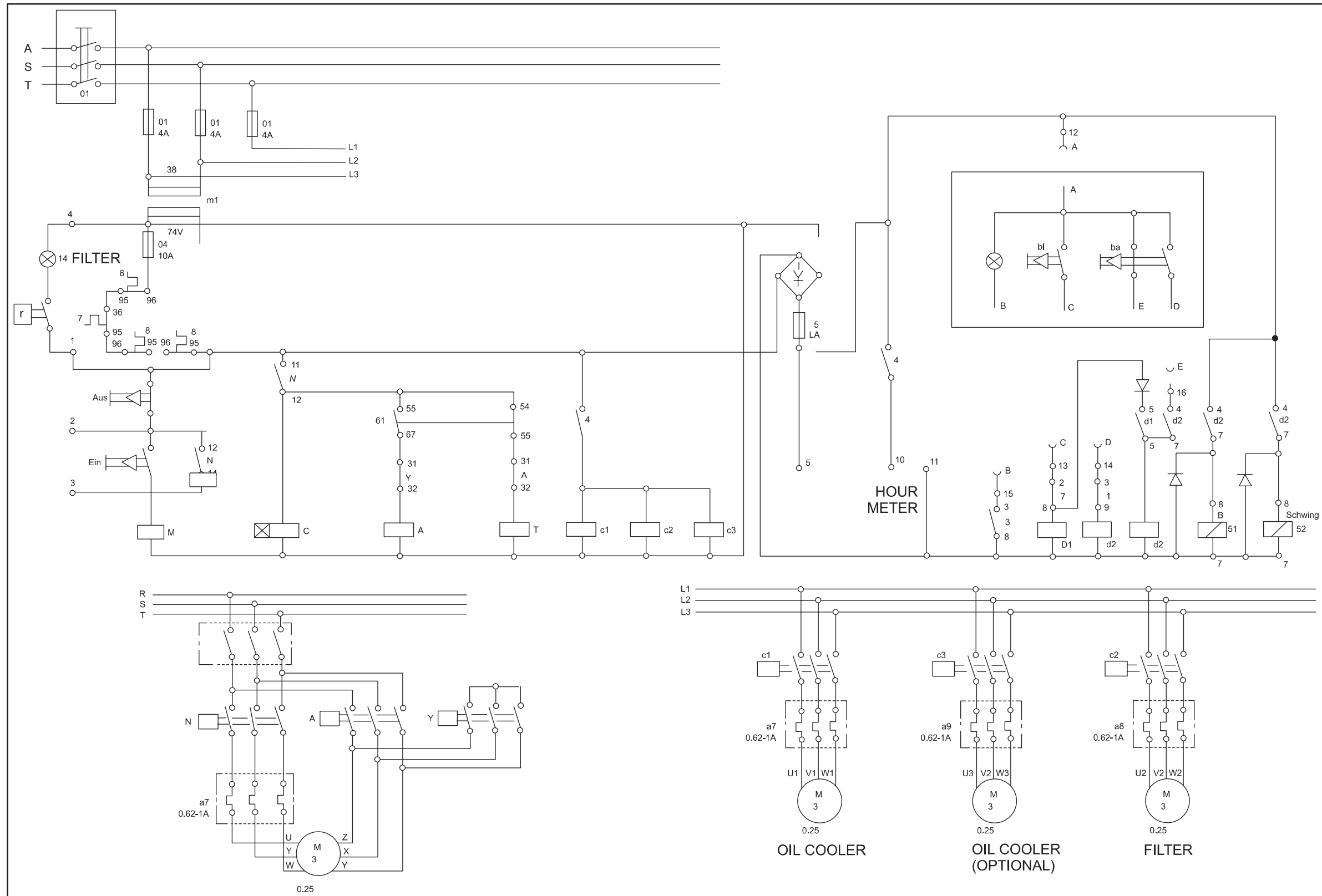
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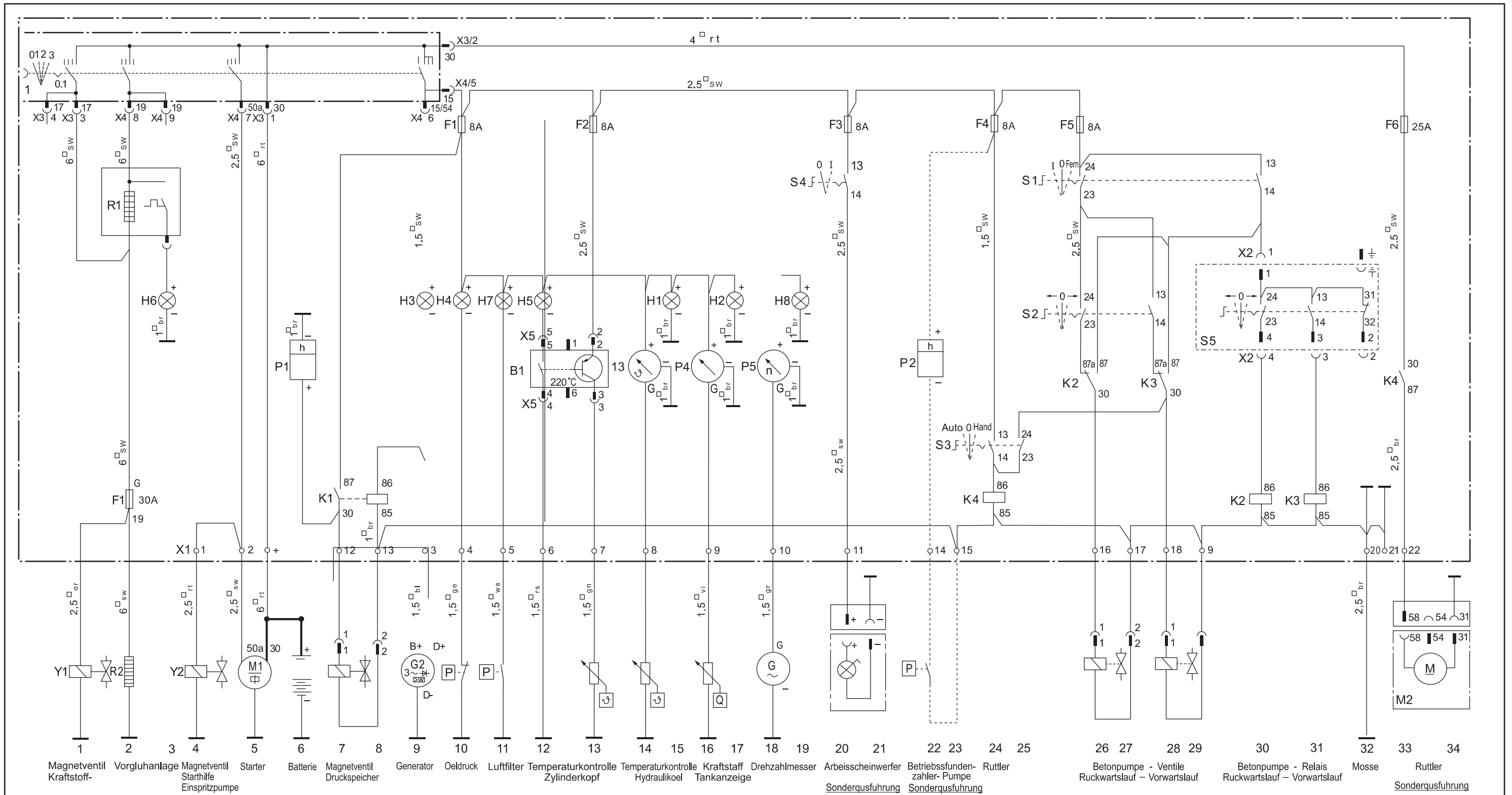
BP 2000 AND 3000 WITH DUETZ FGL913





N/A

BP 4000 WITH DUETZ BF6L513RC



ES012