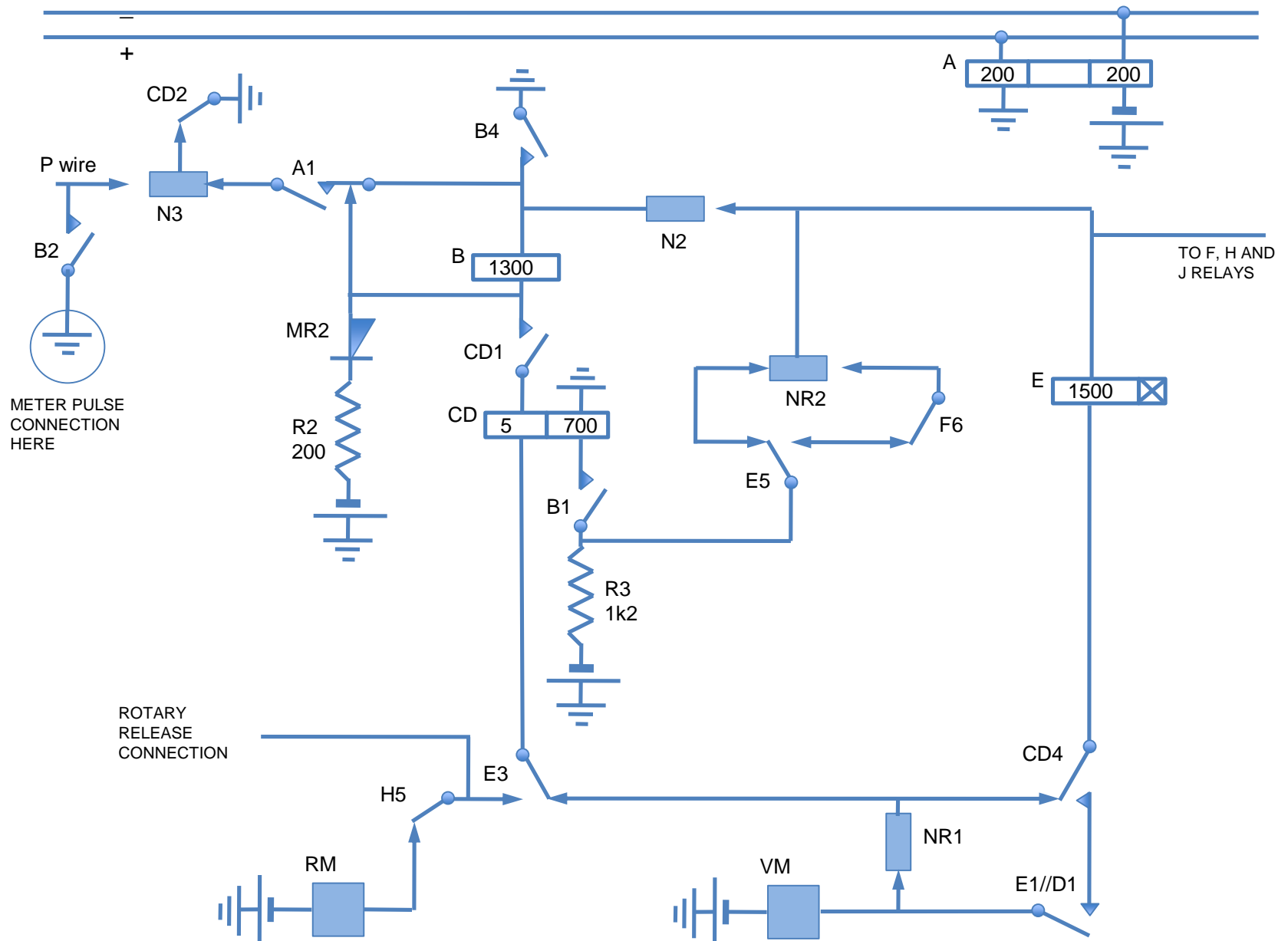


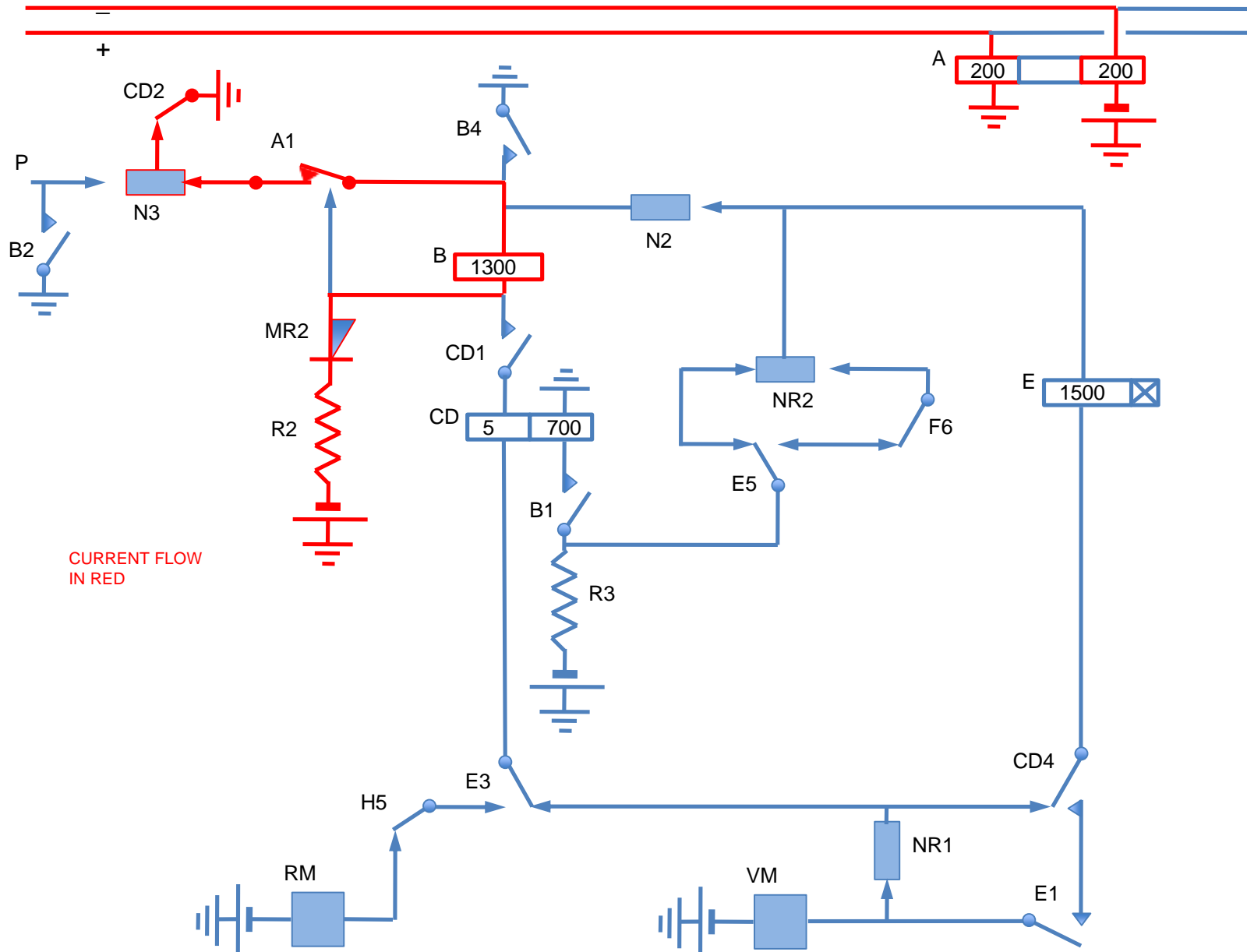
Strowger selector operation diagrams – contents

Ordinary final selector - idle state	2	UAX13 group selector - connecting to next selector	31
Final selector - moment of seizure	3	Ordinary group selector 200 outlet	32
Final selector - just after seizure	4	Ordinary group selector - moment of seizure	33
Final selector - vertical stepping	5	Ordinary group selector - vertical stepping	34
Final selector - end of vertical stepping	6	Ordinary group selector - end of vertical stepping	35
Final selector - switch over to rotary	7	Ordinary group selector - first rotary step	36
Final selector - rotary stepping	8	Ordinary group selector - free outlet found	37
Final selector - end of rotary steps	9	Ordinary group selector - connecting	38
Subscriber's uniselector with <i>double</i> homing arc	10	Ordinary group selector - normal release	39
Final selector - called line is free	11	UAX13 group selector and <i>ordinary</i> final selector	40
Final selector - ringing a free line	12	When group and final selector are both UAX13	41
Final selector - call answered	13	UAX13 group selector - moment of connection	42
Caller's uniselector - lifting the handset	14	UAX13 group selector - providing 150 Ohm battery	43
Caller's uniselector - hunting for free group selector	15	UAX13 group selector - external relay activation	44
Caller's uniselector - free group selector found	16	UAX13 group selector - connection made	45
Caller's uniselector - call established	17		
Caller's uniselector - call terminates	18		
Subscriber's uniselector with <i>single</i> homing arc	19		
Uniselector - incoming call	20		
Uniselector - P guarding during ringing	21		
Uniselector - caller lifts handset	22		
Uniselector - free 1 st selector found	23		
Uniselector - connected	24		
Uniselector - end of call	25		
UAX13 group selector - idle state	26		
UAX13 group selector - moment of seizure	27		
UAX13 group selector - preparing for dial pulses	28		
UAX13 group selector - end of vertical stepping	29		
UAX13 group selector - free next selector found	30		

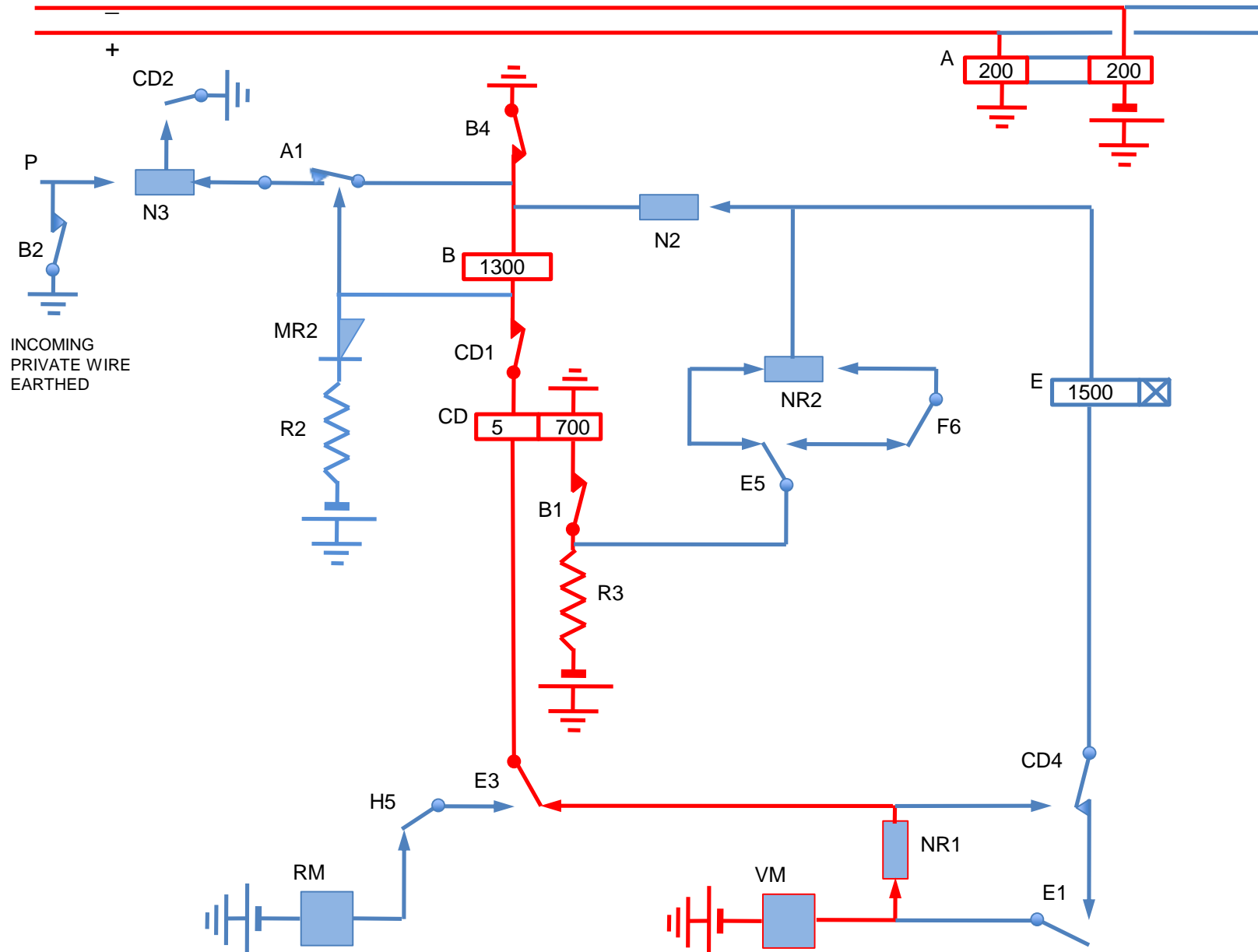
Ordinary final selector – idle state



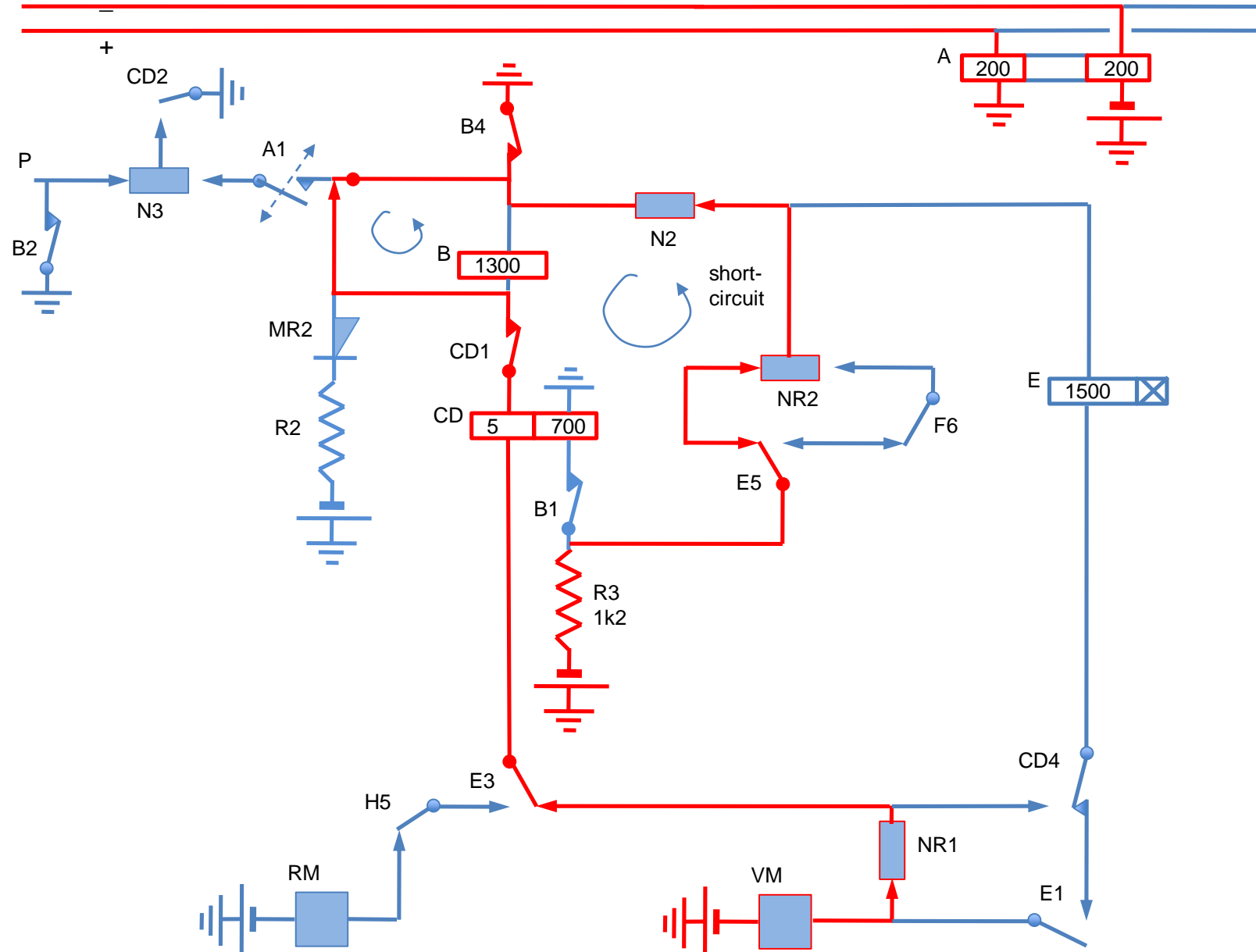
Final selector – moment of seizure – A operates and removes short-circuit of B



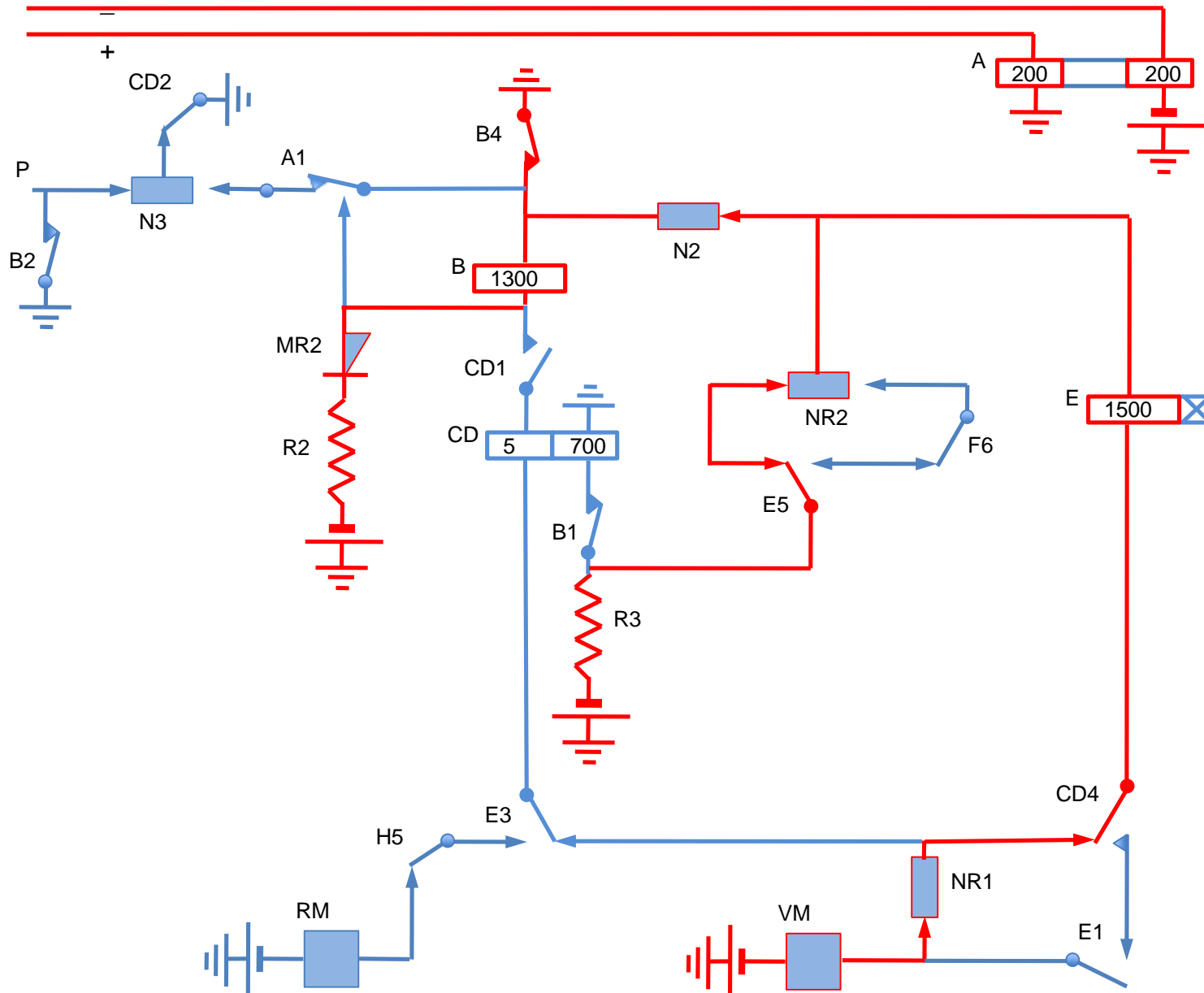
Final selector – just after seizure – A, B and CD operate



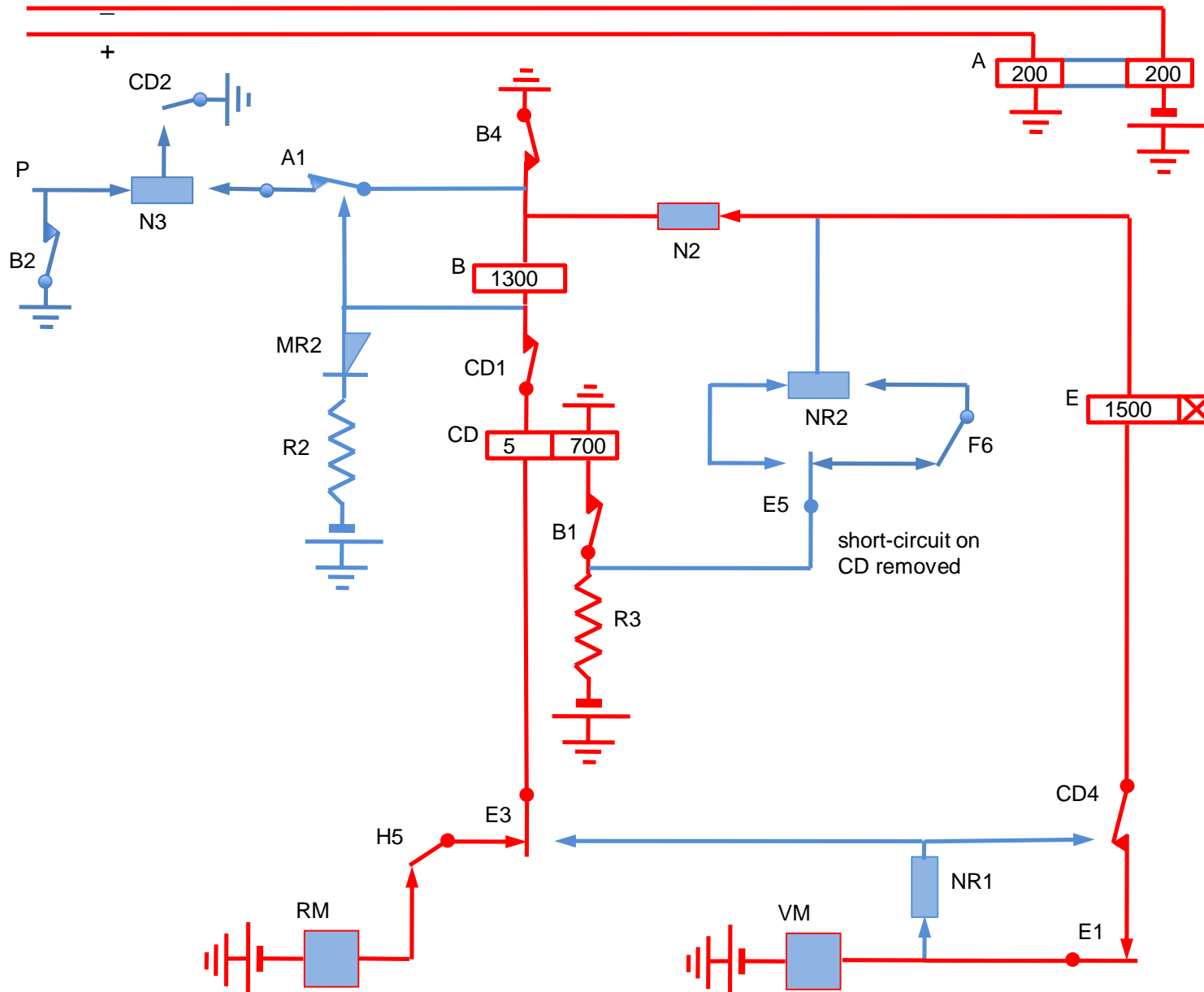
Final selector – vertical stepping – A and VM are pulsing, B and CD are holding on short circuits



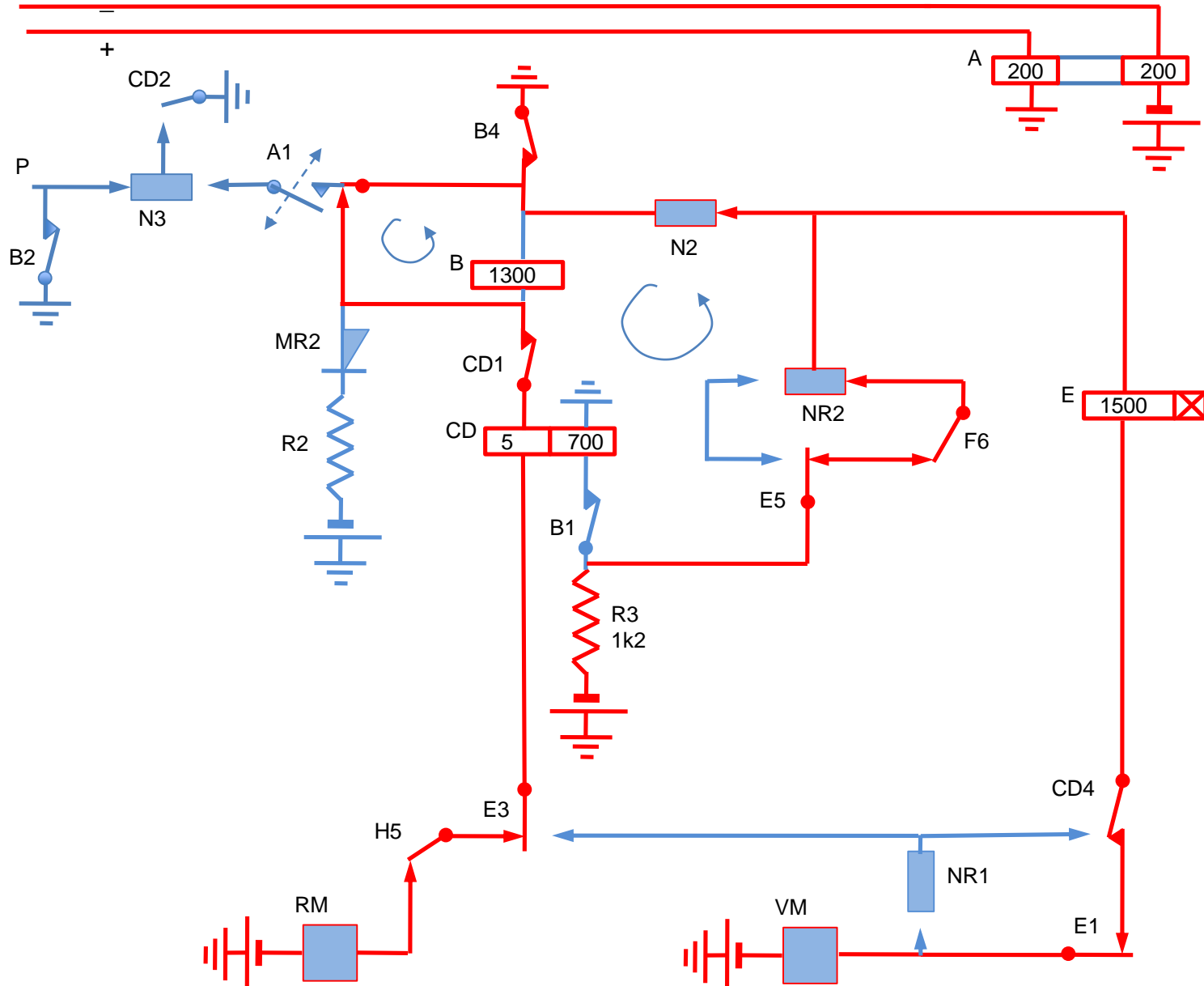
Final selector – end of vertical stepping – A and B operate, CD releases, E slow to operate



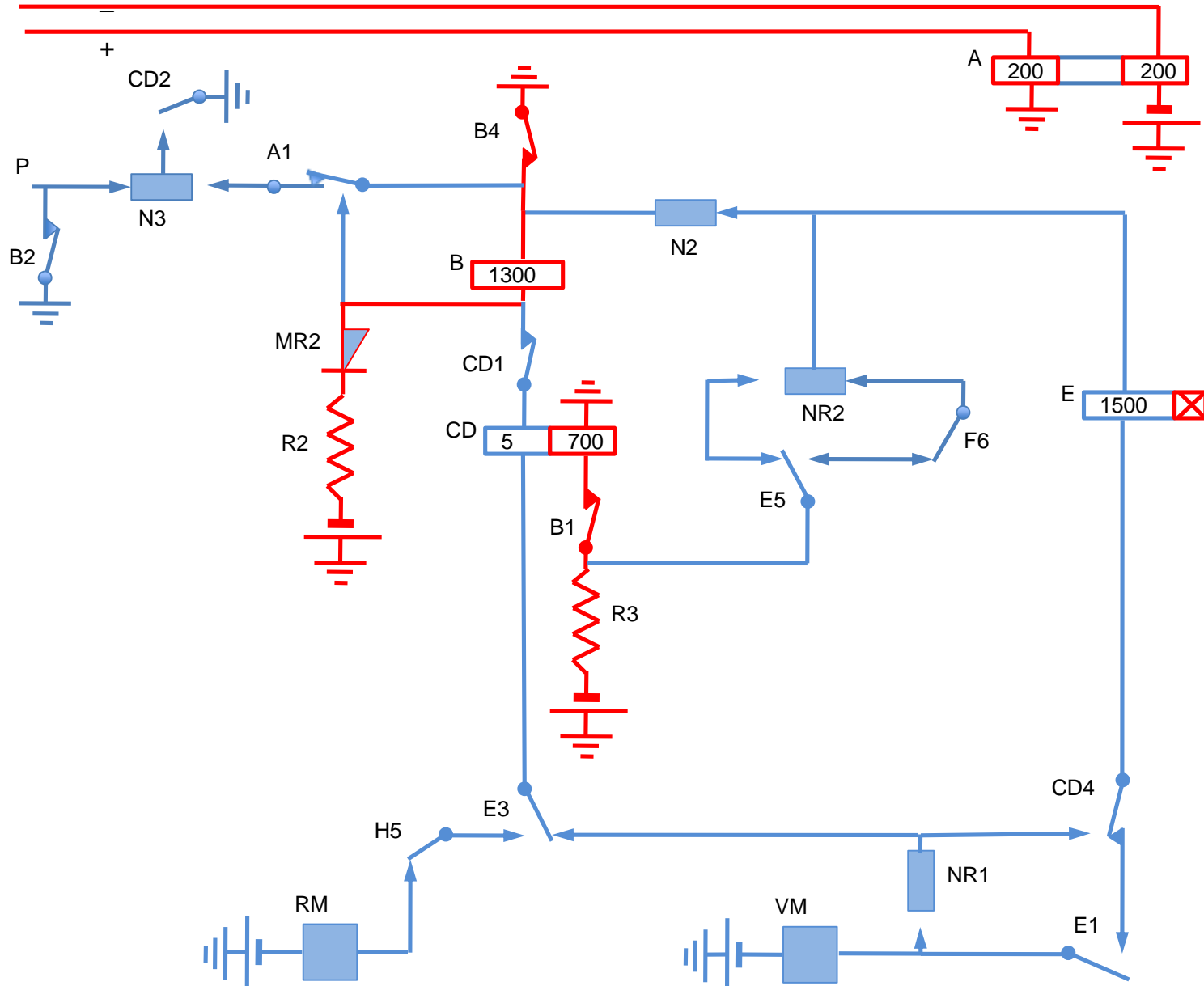
Final selector – switch over to rotary – A, B and E operate, CD re-operates



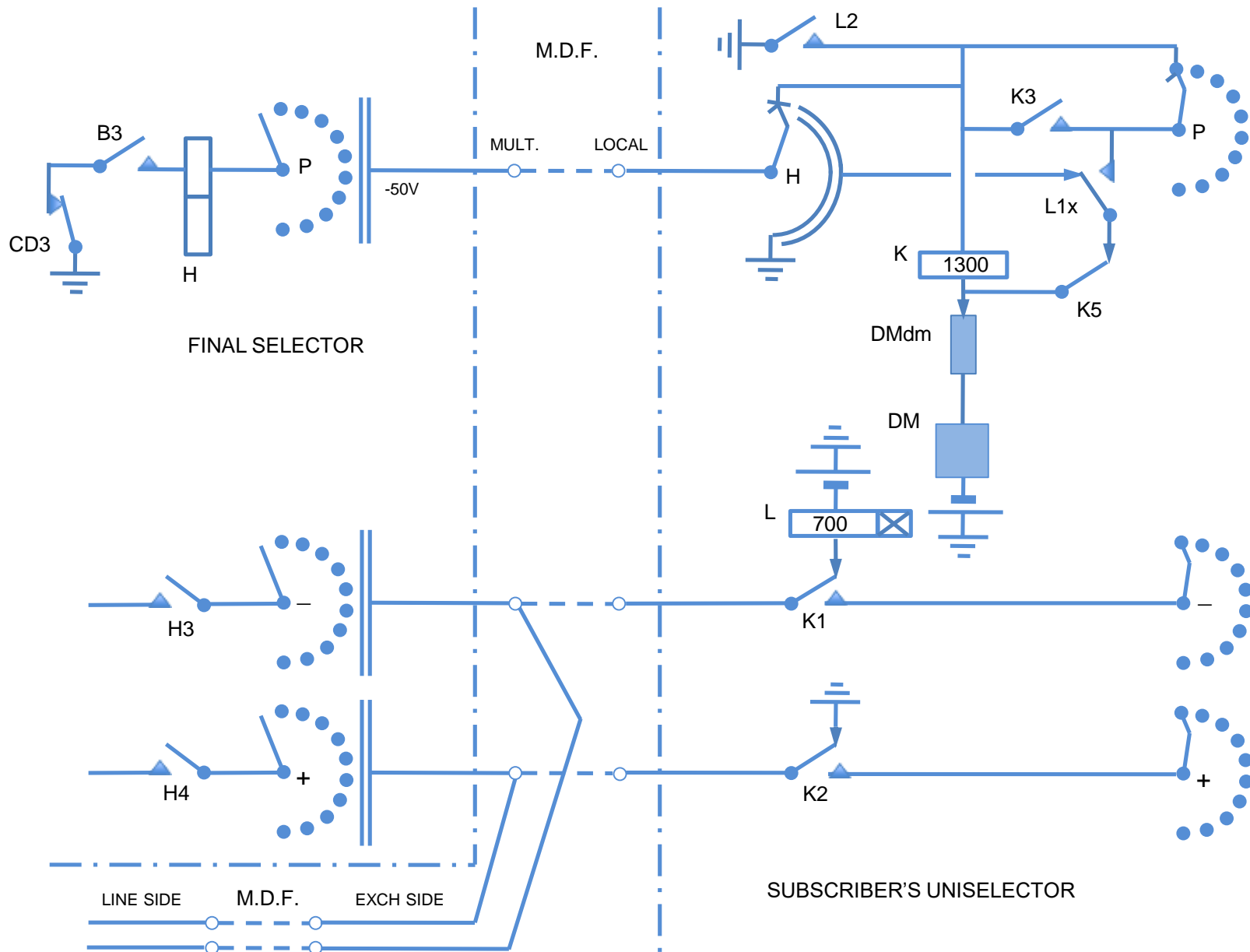
Final selector – rotary stepping – A and RM pulsing, B and CD holding, E operates



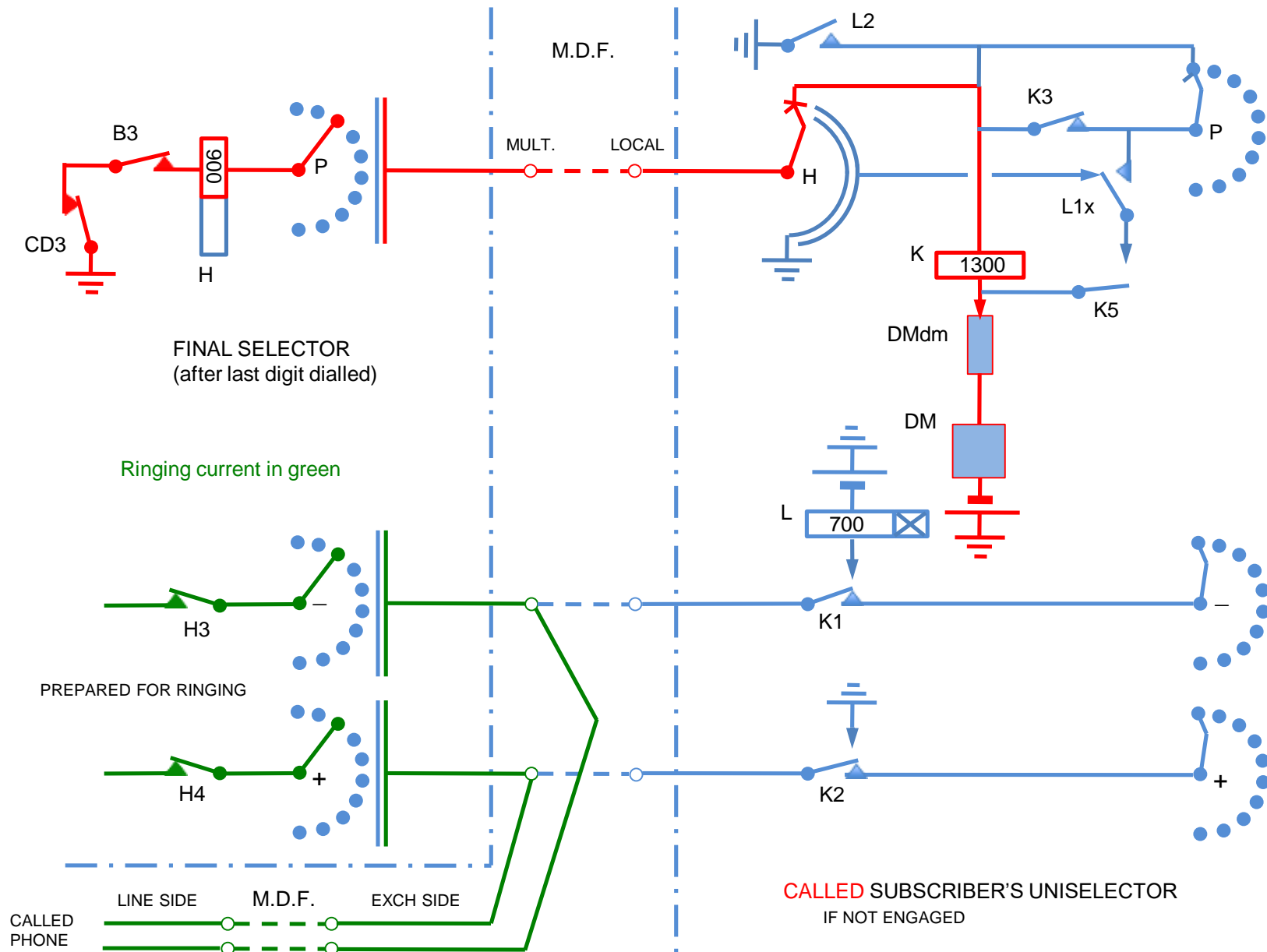
Final selector – end of rotary steps – A and B operate, CD and E release slowly, CD re-operates



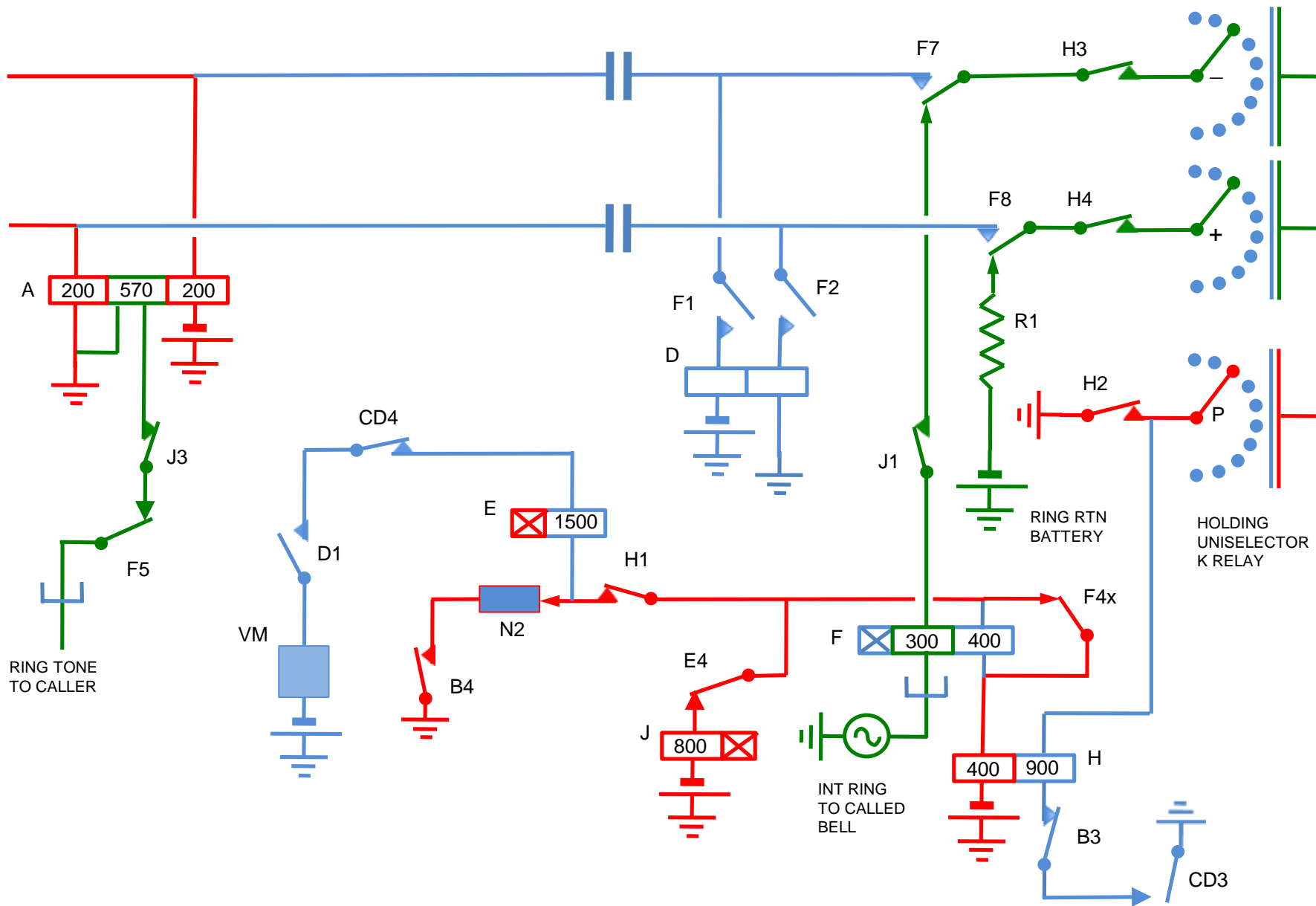
Subscriber's uniselector with DOUBLE homing arc – idle state



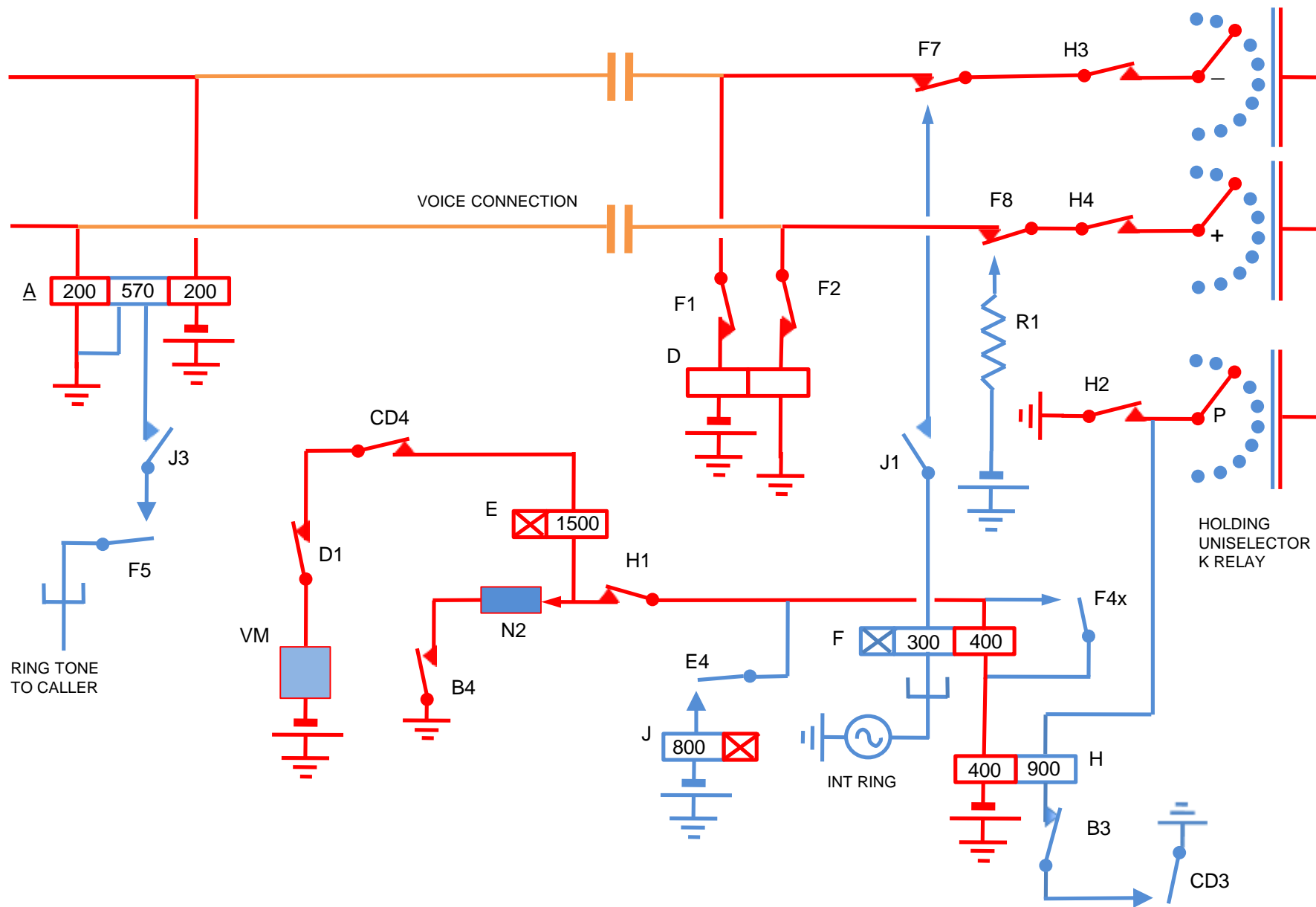
Final selector – called line is free – CD releases, H (900 Ohm) and K operate, L is disconnected



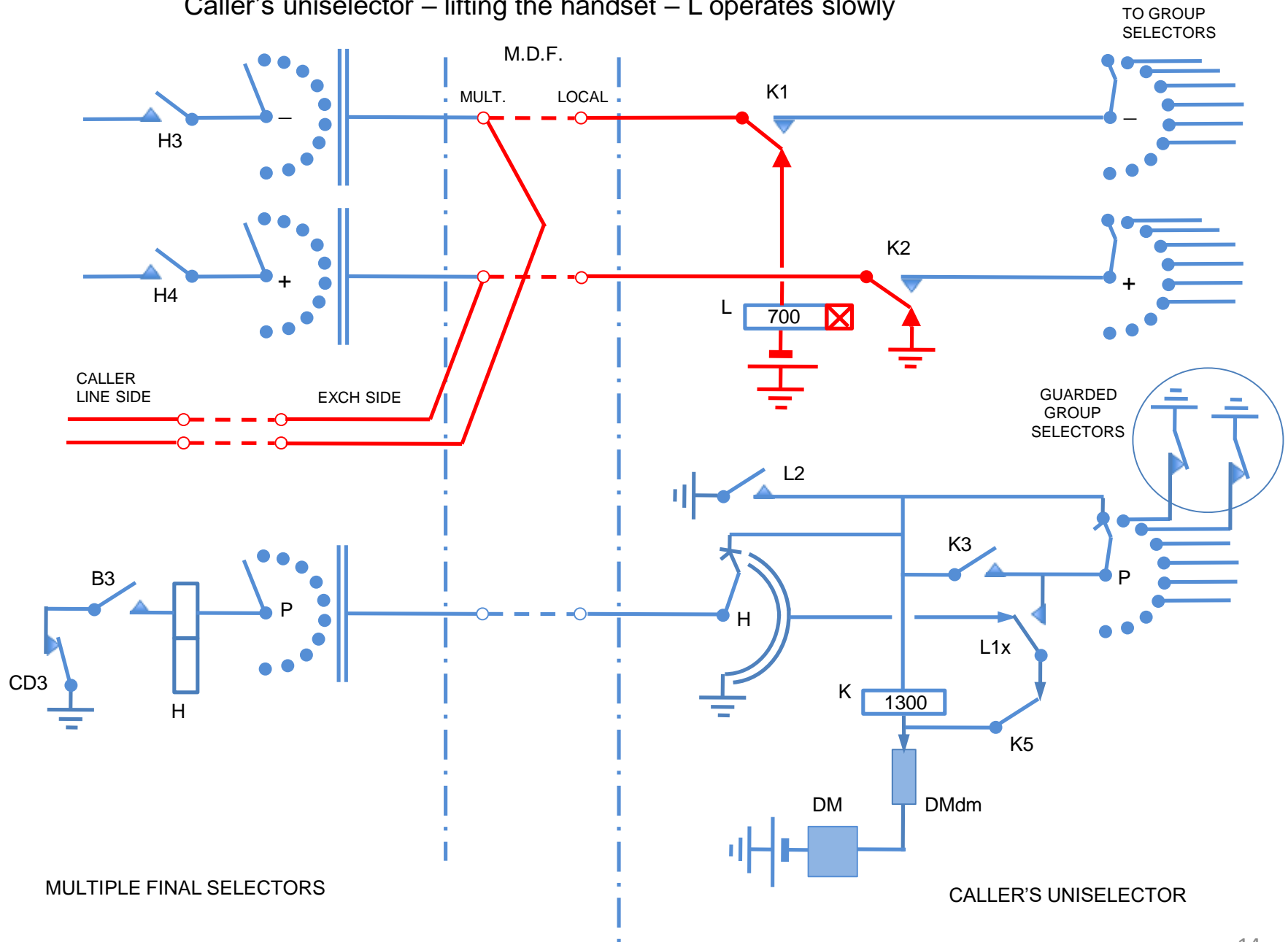
Final selector – ringing a free line – E releases slowly, CD, J and H (on 400 Ohm winding) operate



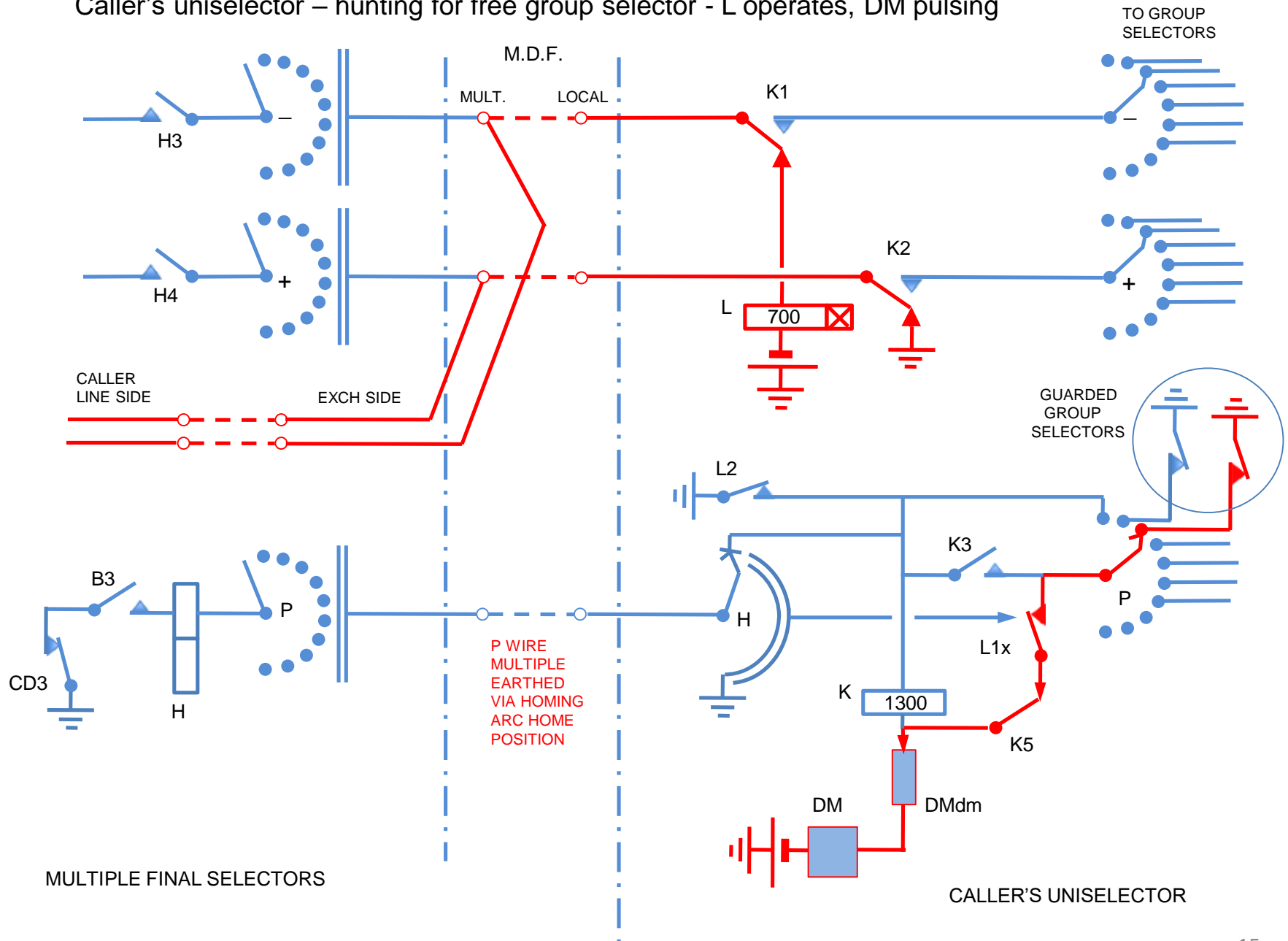
Final selector – call answered – CD, D, E and F operate, J releases (slowly) after meter pulse



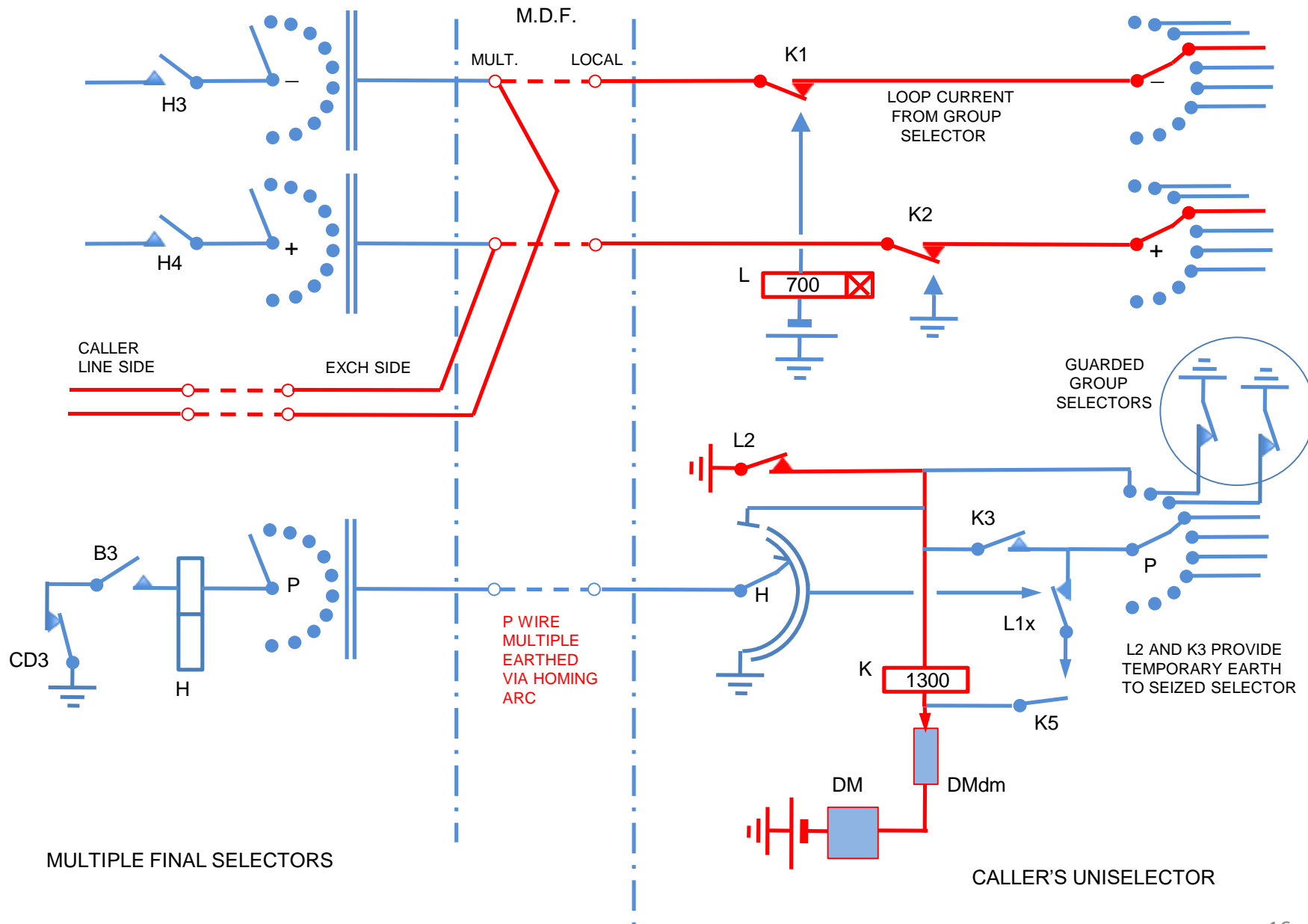
Caller's uniselector – lifting the handset – L operates slowly



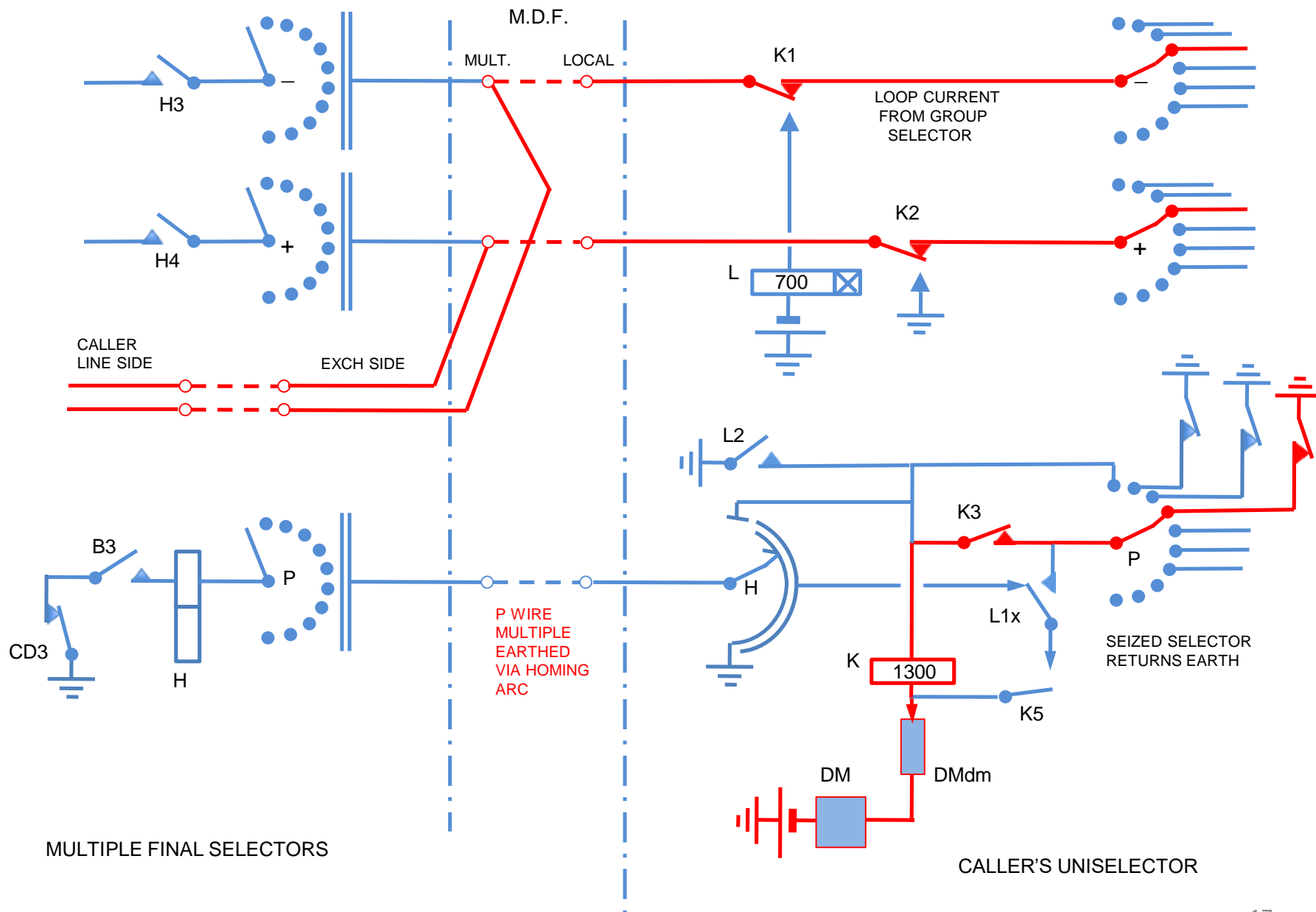
Caller's uniselector – hunting for free group selector - L operates, DM pulsing



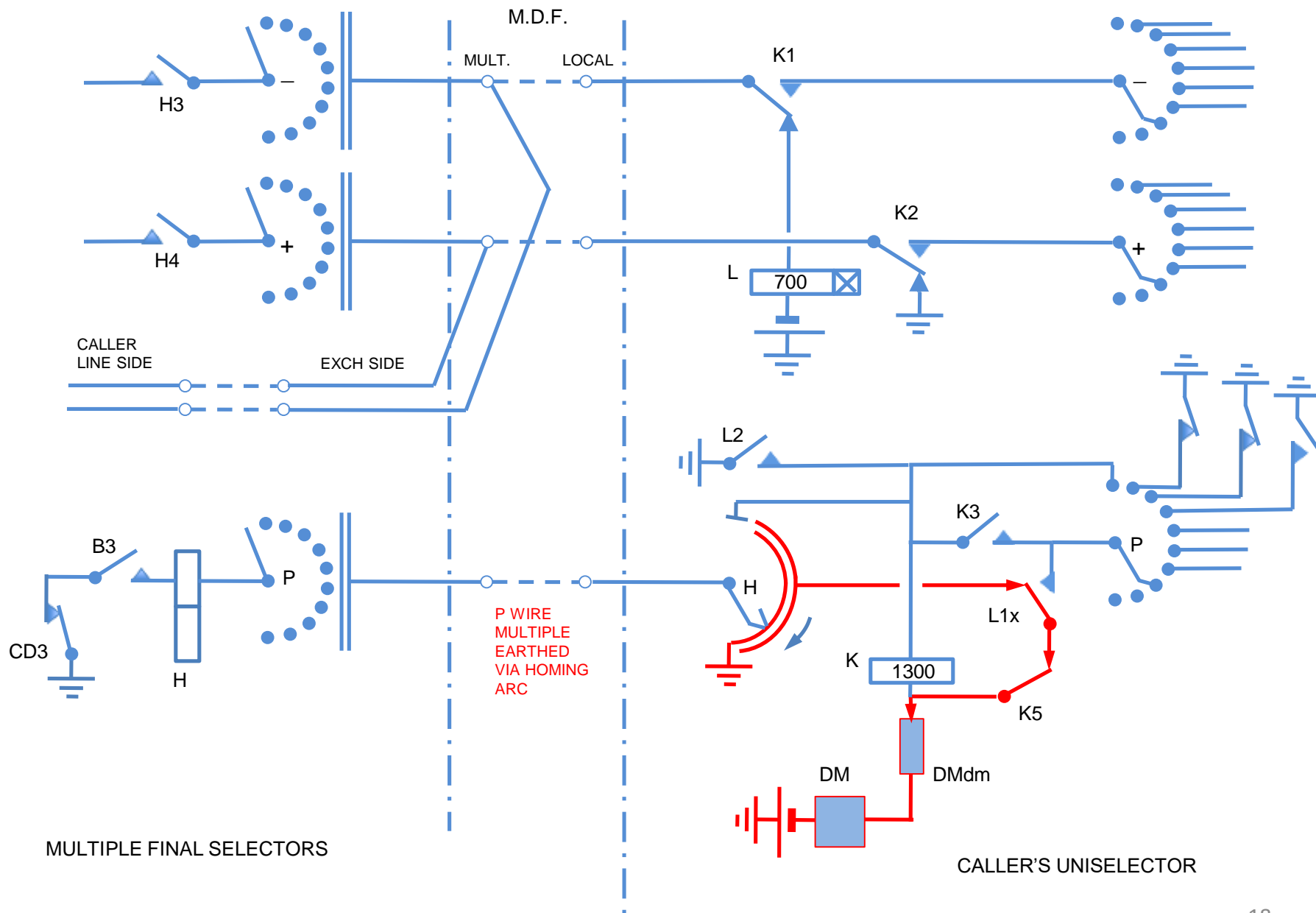
Caller's uniselector – free group selector found – K operates, L releases slowly



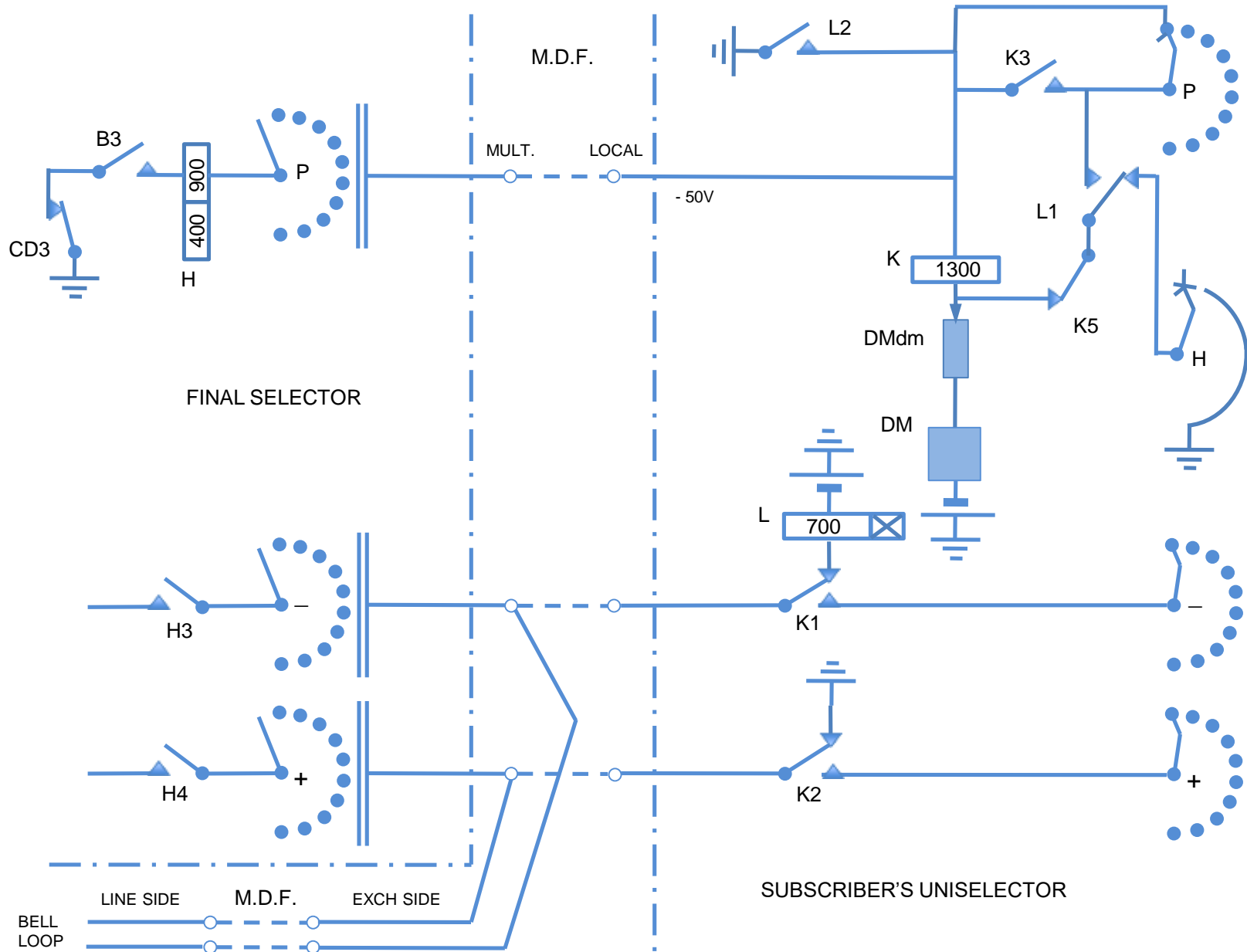
Caller's uniselector – call established – K held by group selector P wire



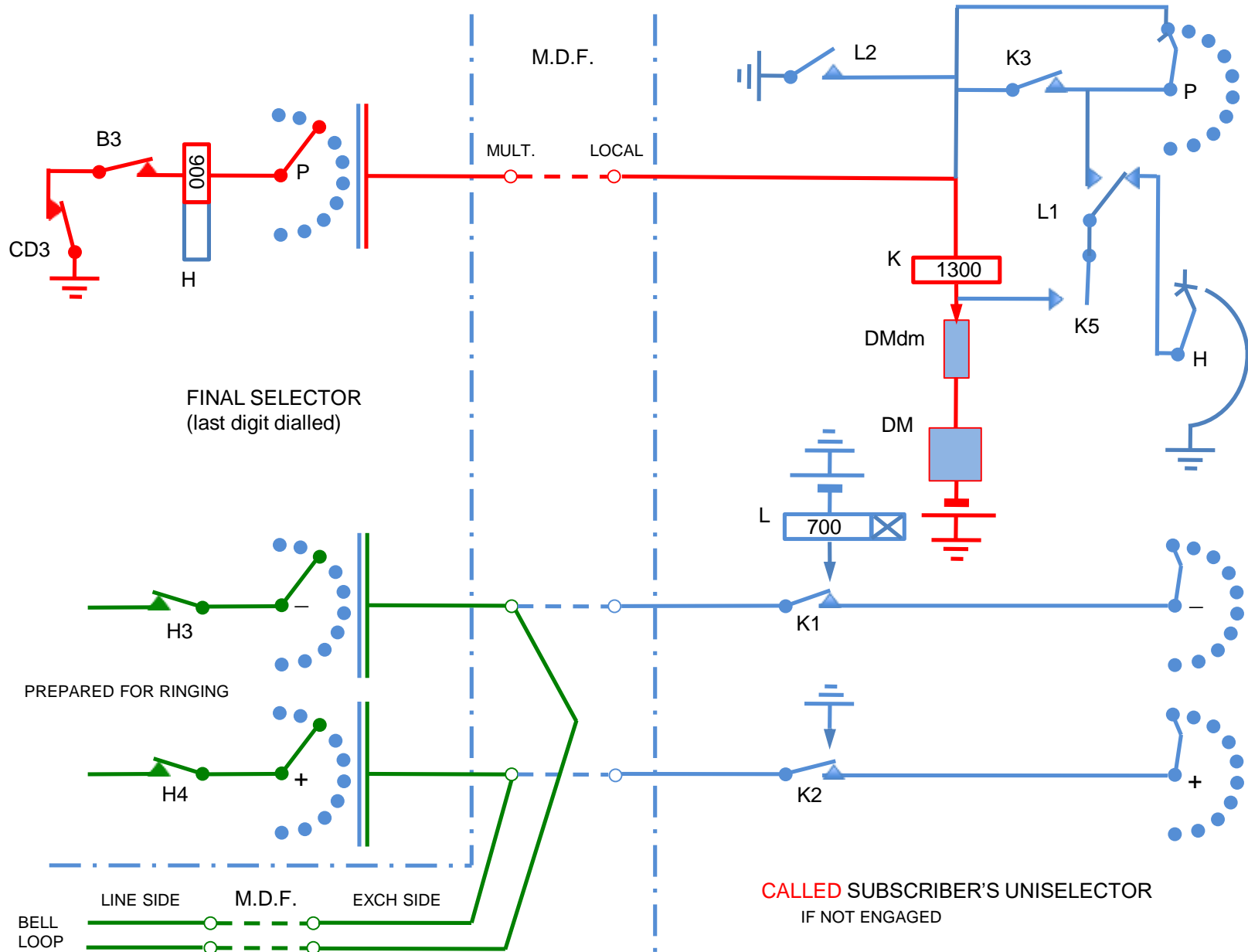
Caller's uniselector - call terminates - no loop current – K releases – DM steps home



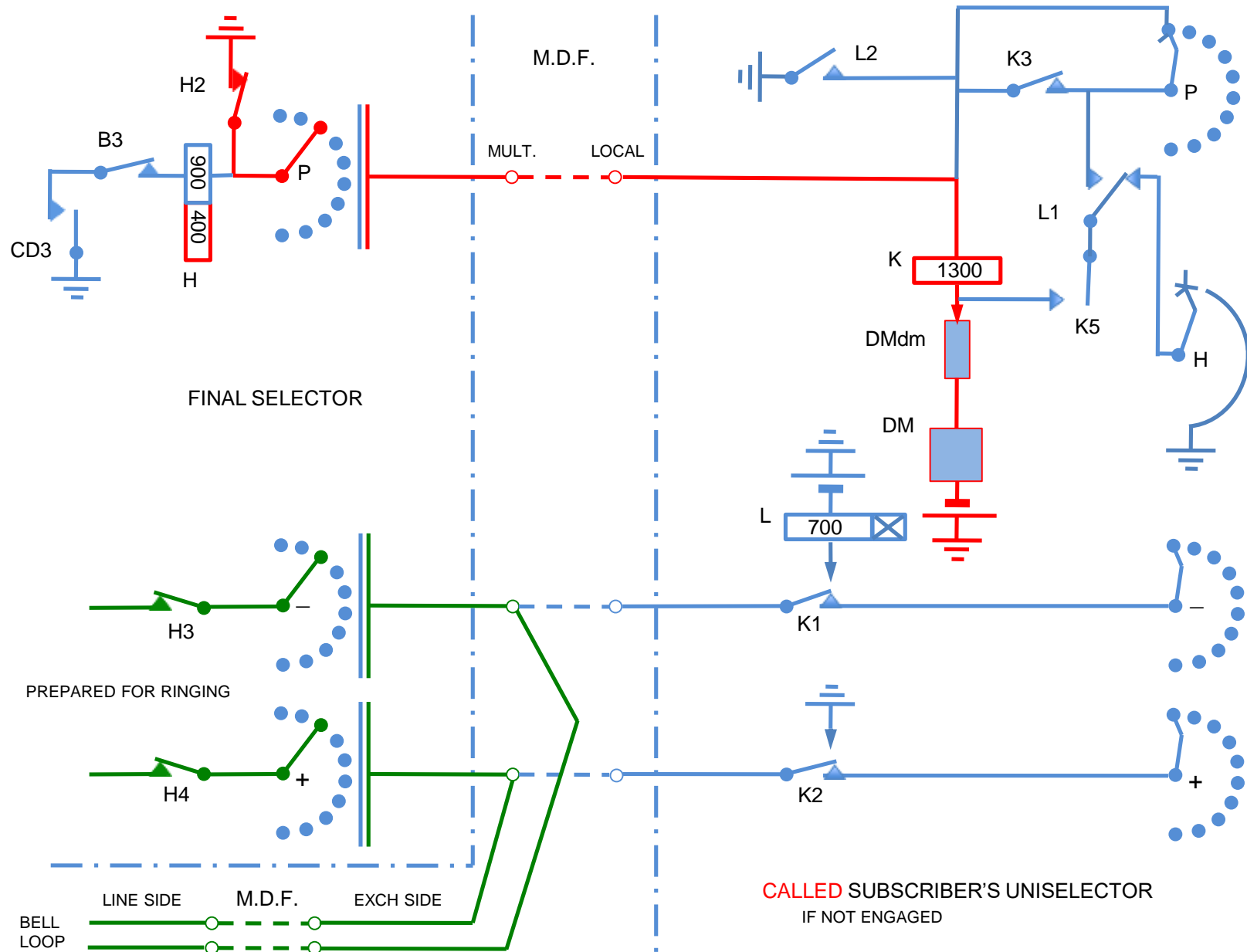
Subscriber's unselector with SINGLE homing arc - idle state - H, K and L not operating



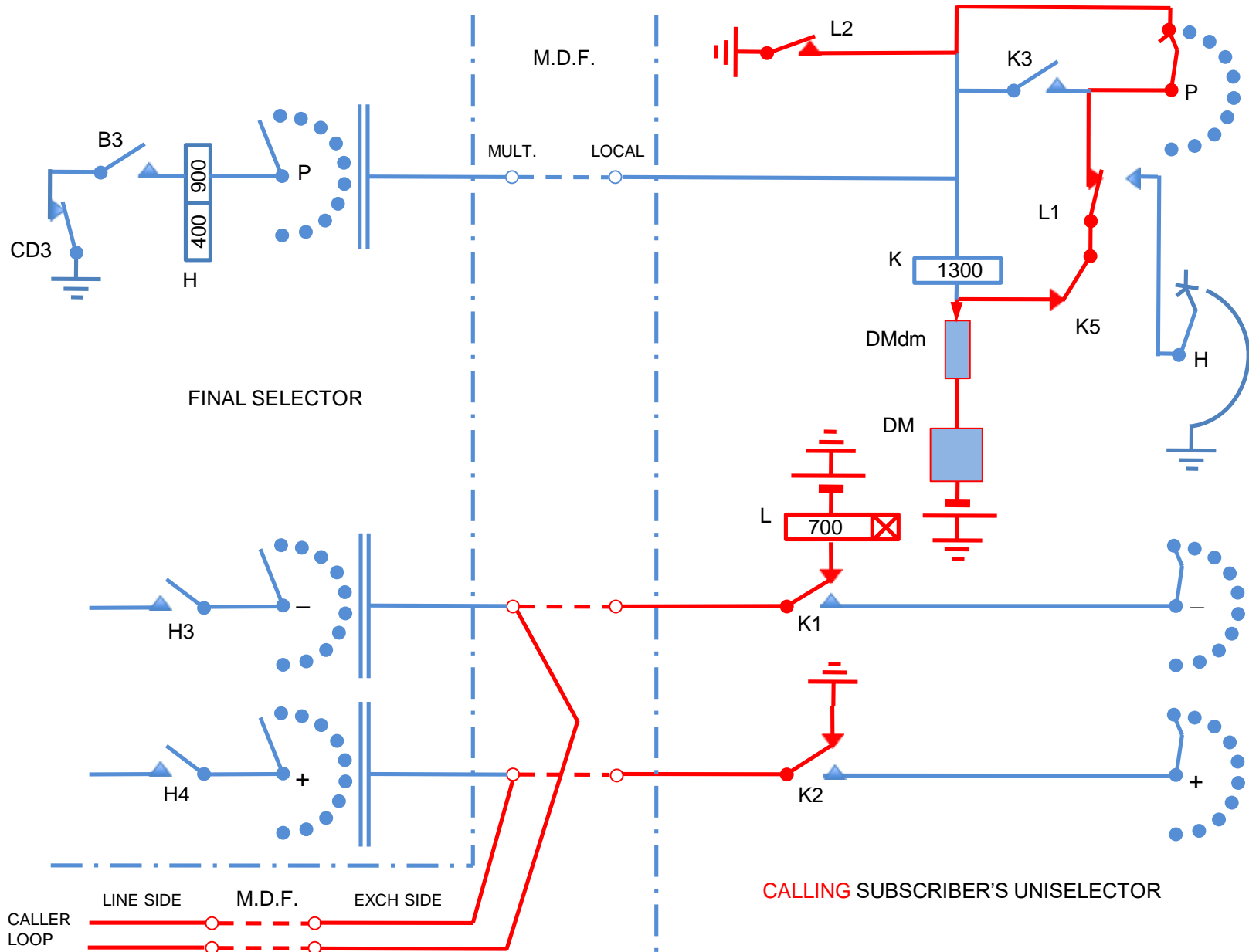
Unselector – incoming call – H (900) operates on brief CD release, K operates, L releases



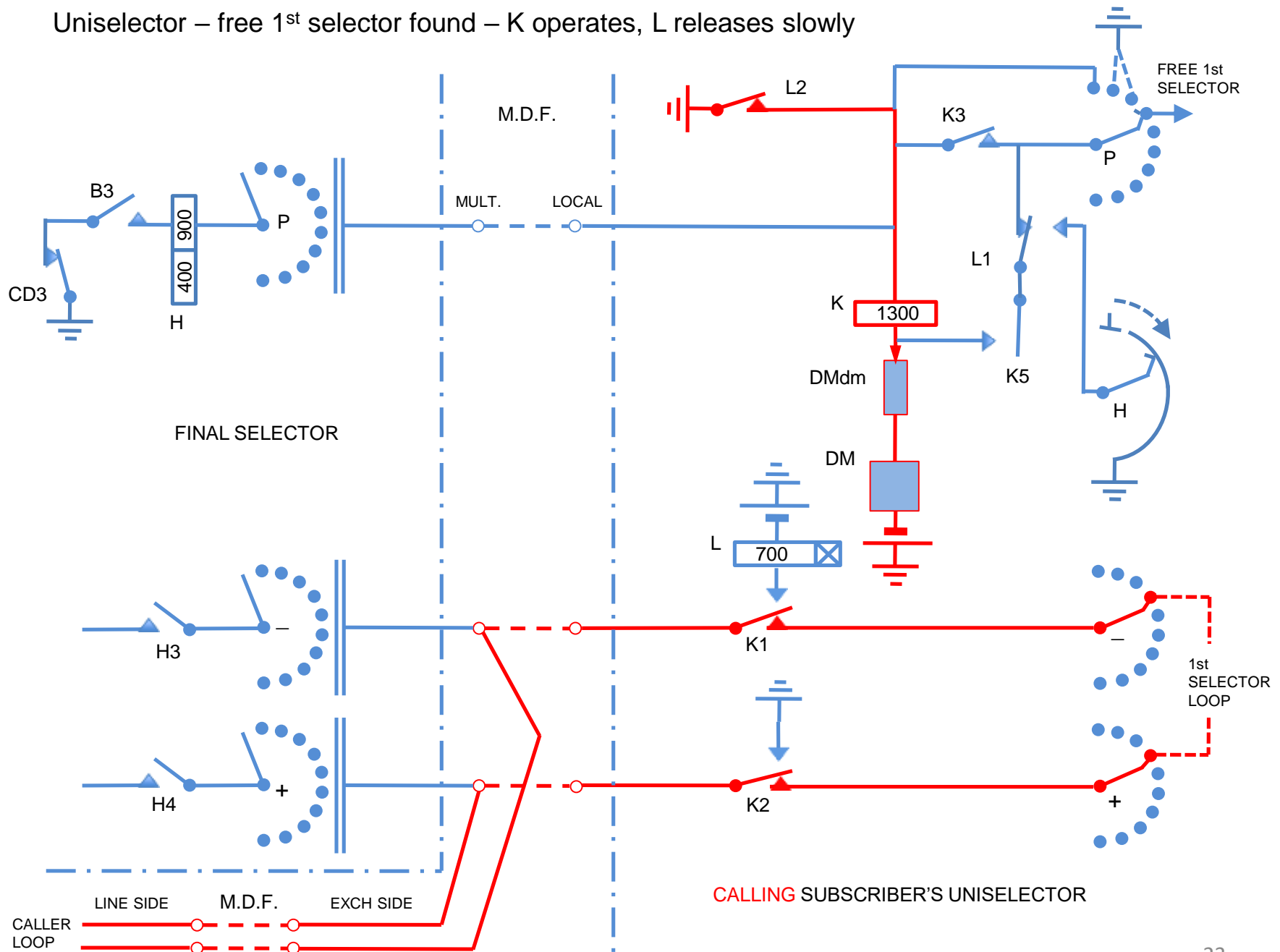
Uniselector– P guarding during ringing – CD operates again, H(400) takes over from H(900)



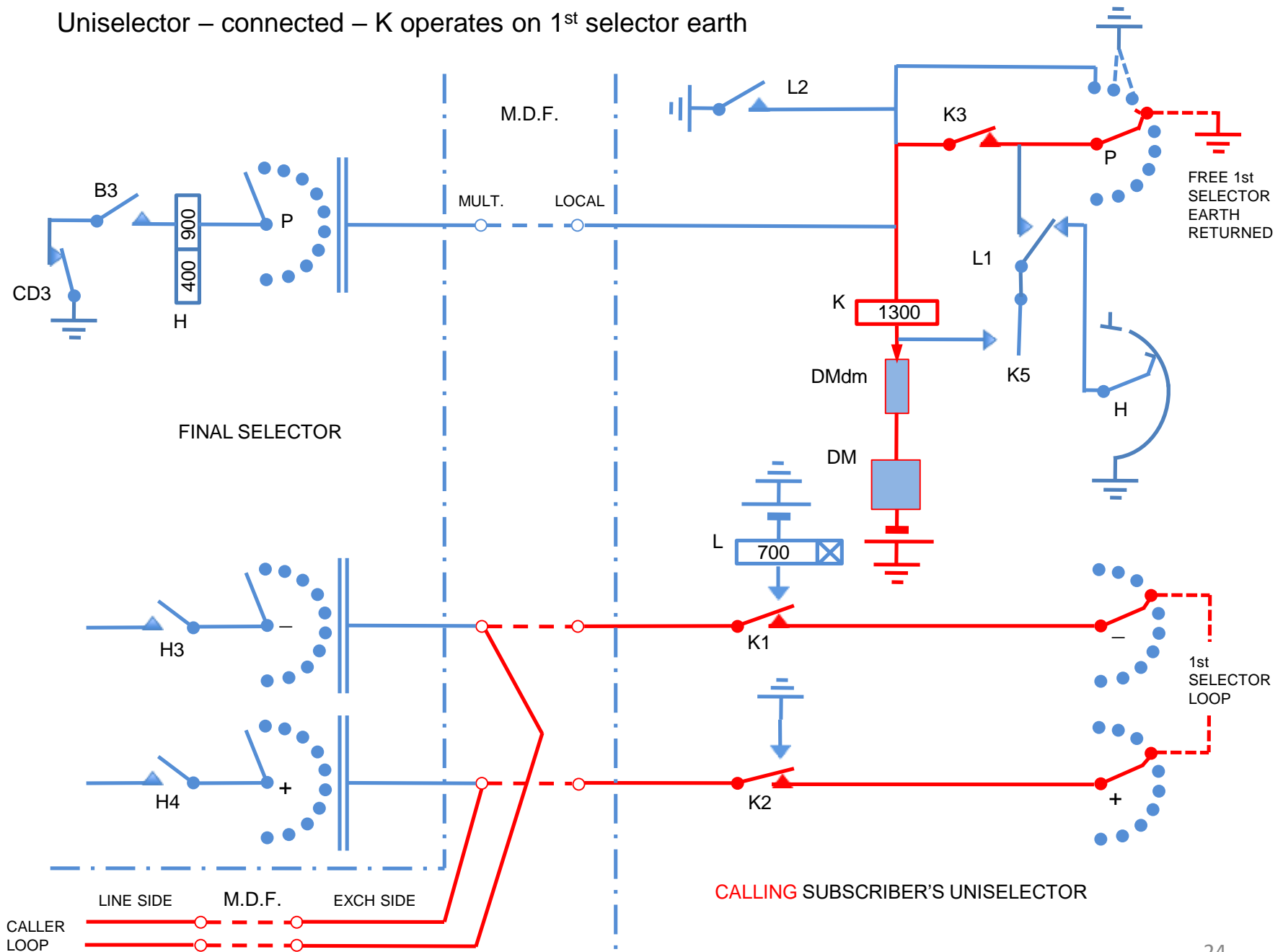
Uniselector – caller lifts handset – L operates on caller loop, DM steps on DMdm



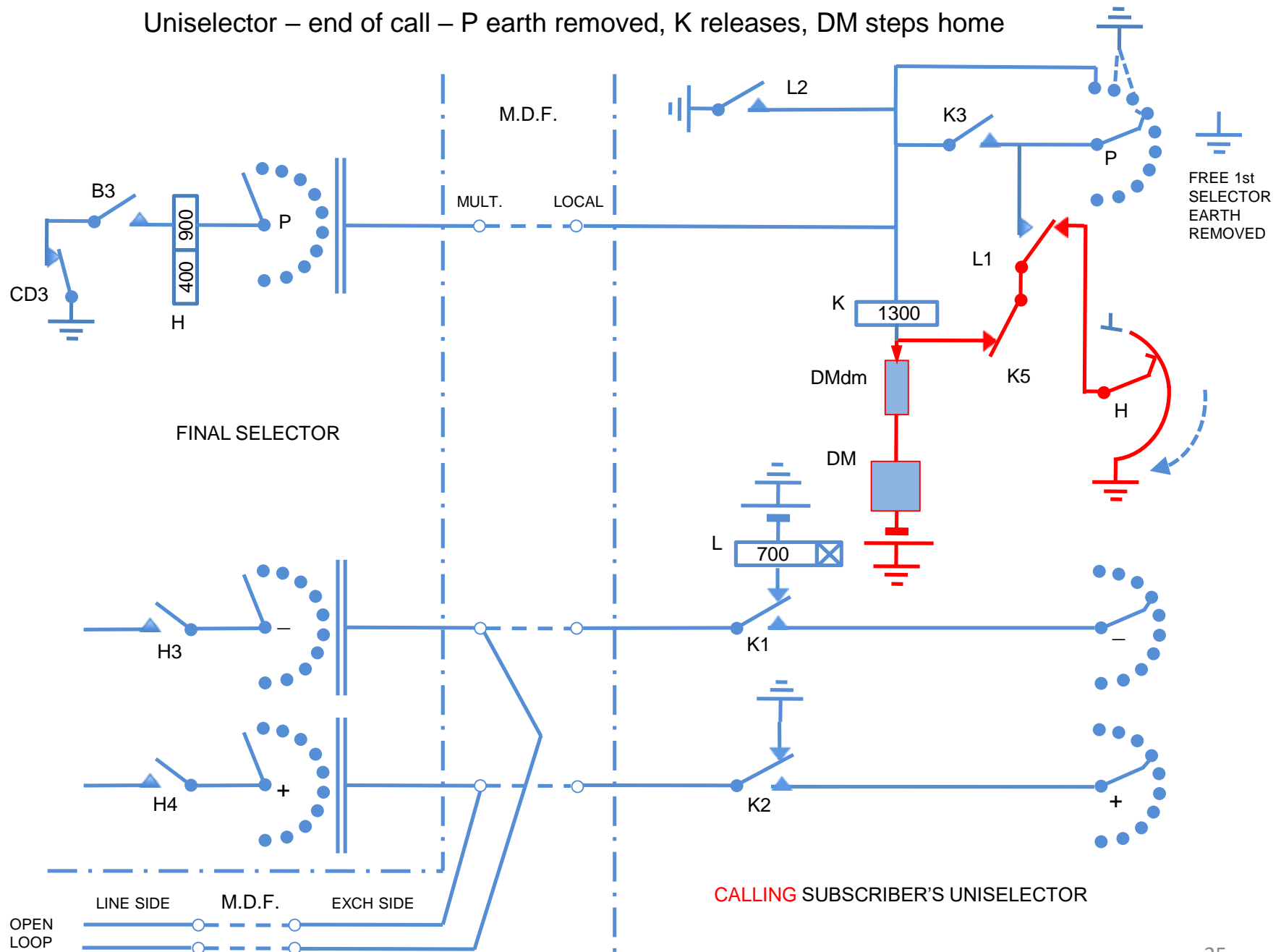
Uniselector – free 1st selector found – K operates, L releases slowly



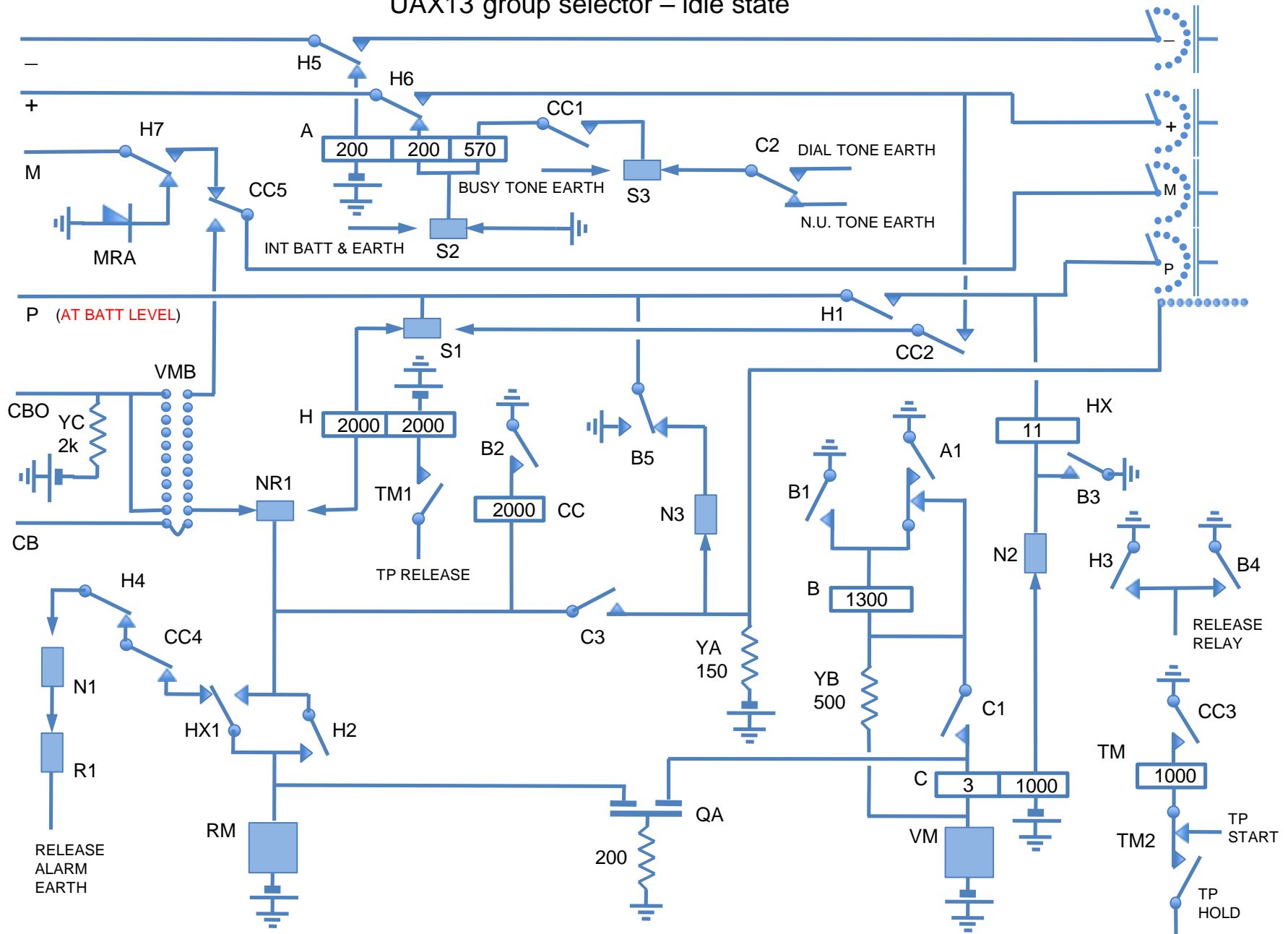
Uniselector – connected – K operates on 1st selector earth



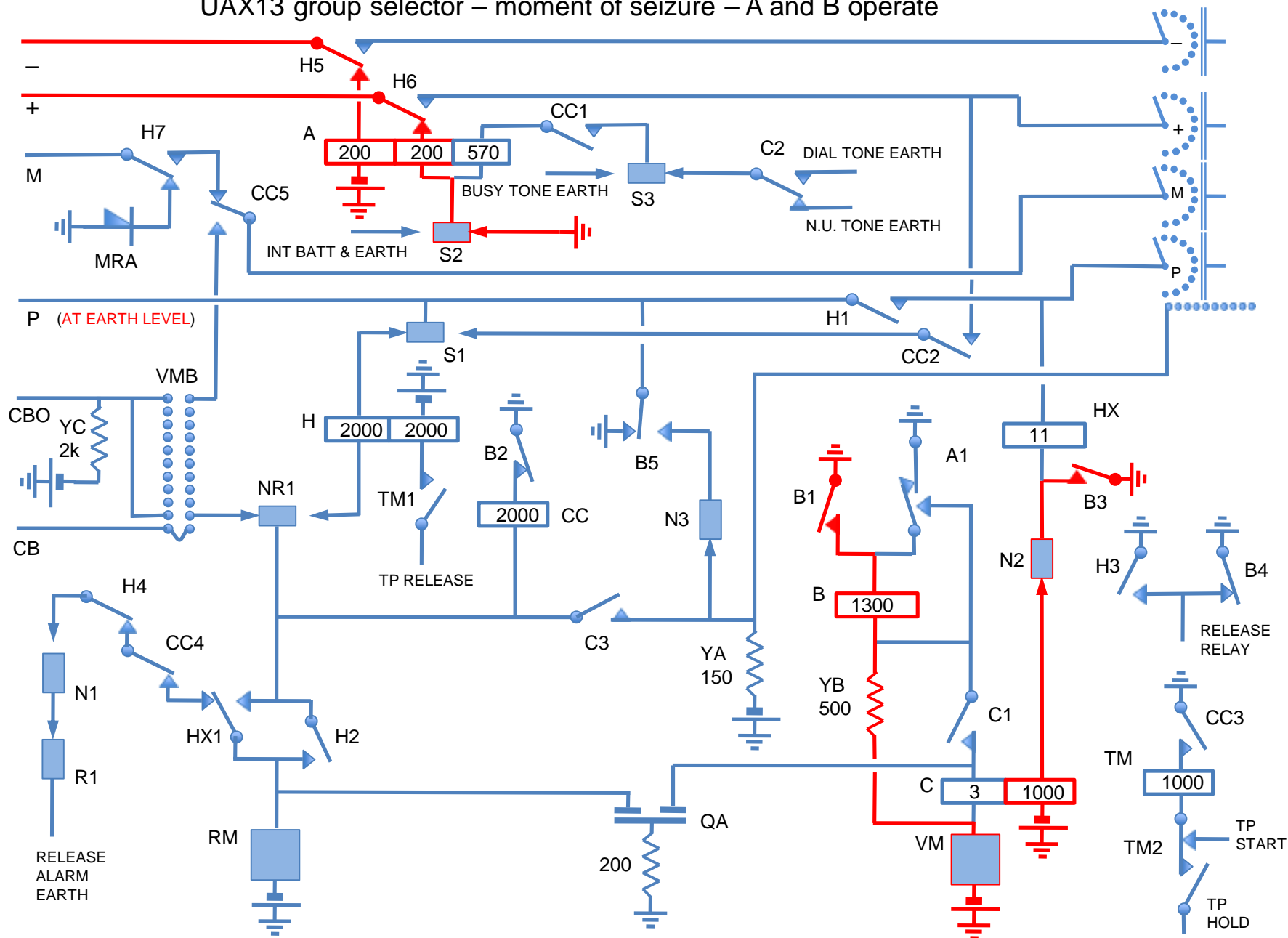
Uniselector – end of call – P earth removed, K releases, DM steps home



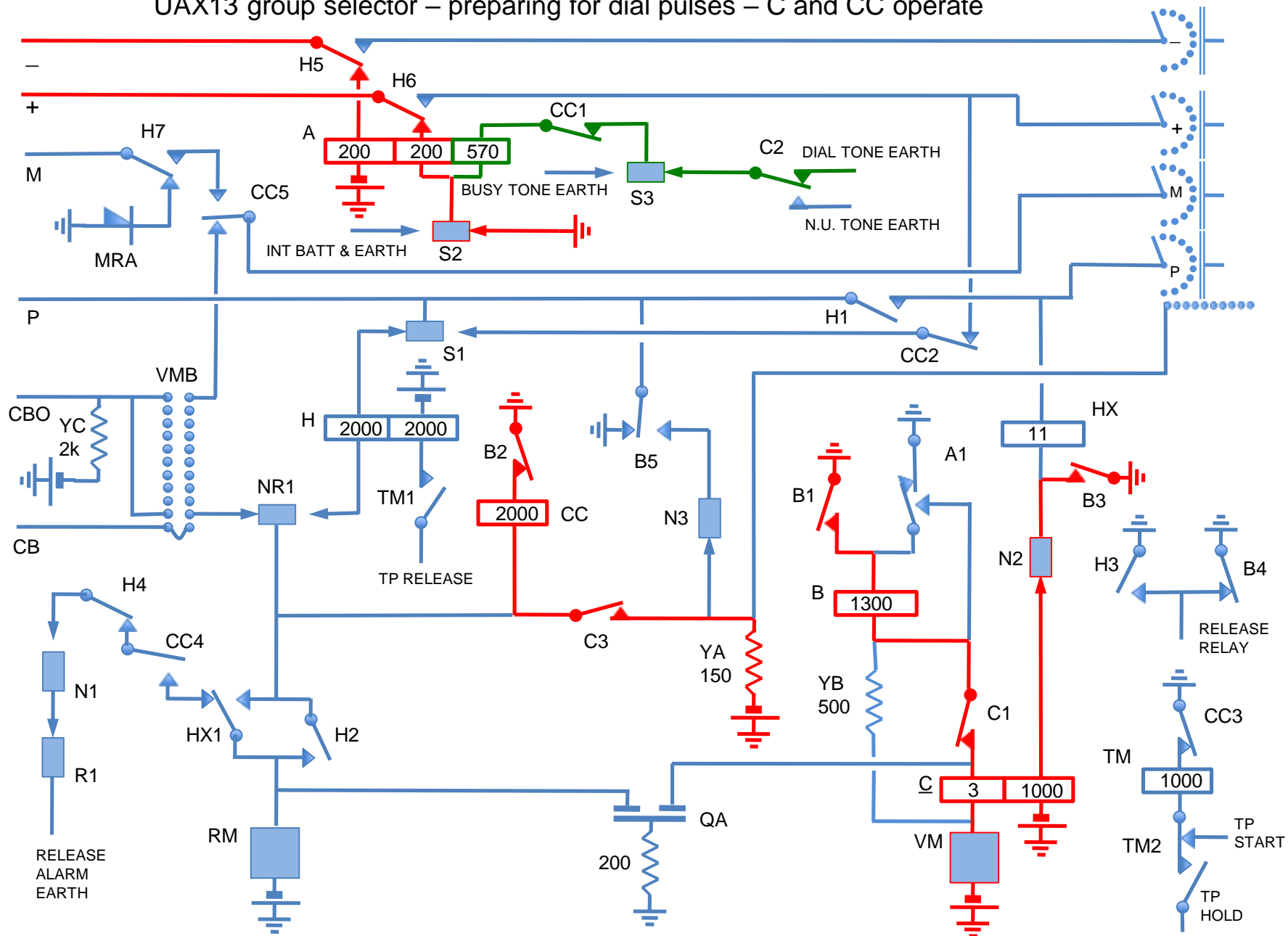
UAX13 group selector – idle state



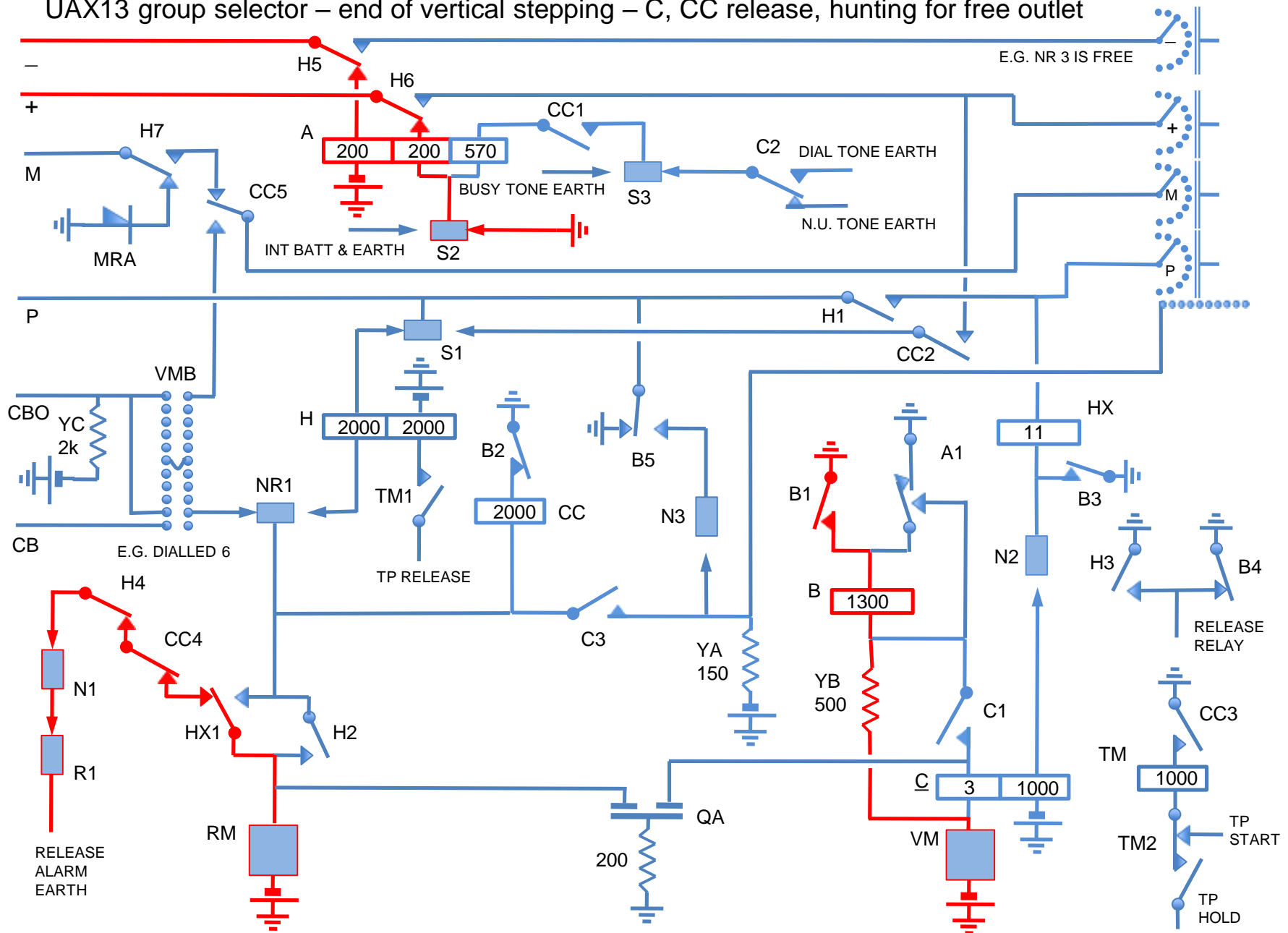
UAX13 group selector – moment of seizure – A and B operate



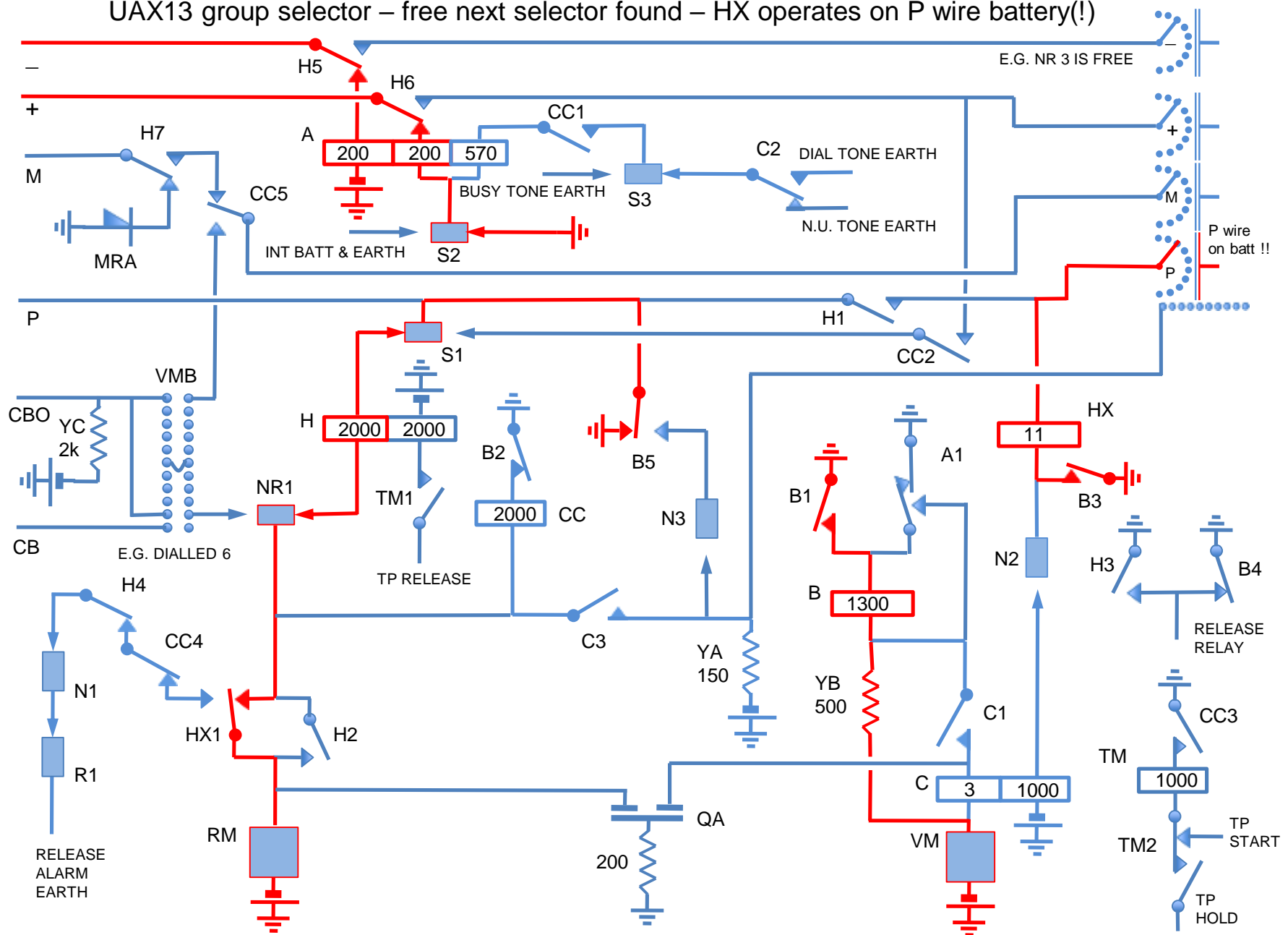
UAX13 group selector – preparing for dial pulses – C and CC operate



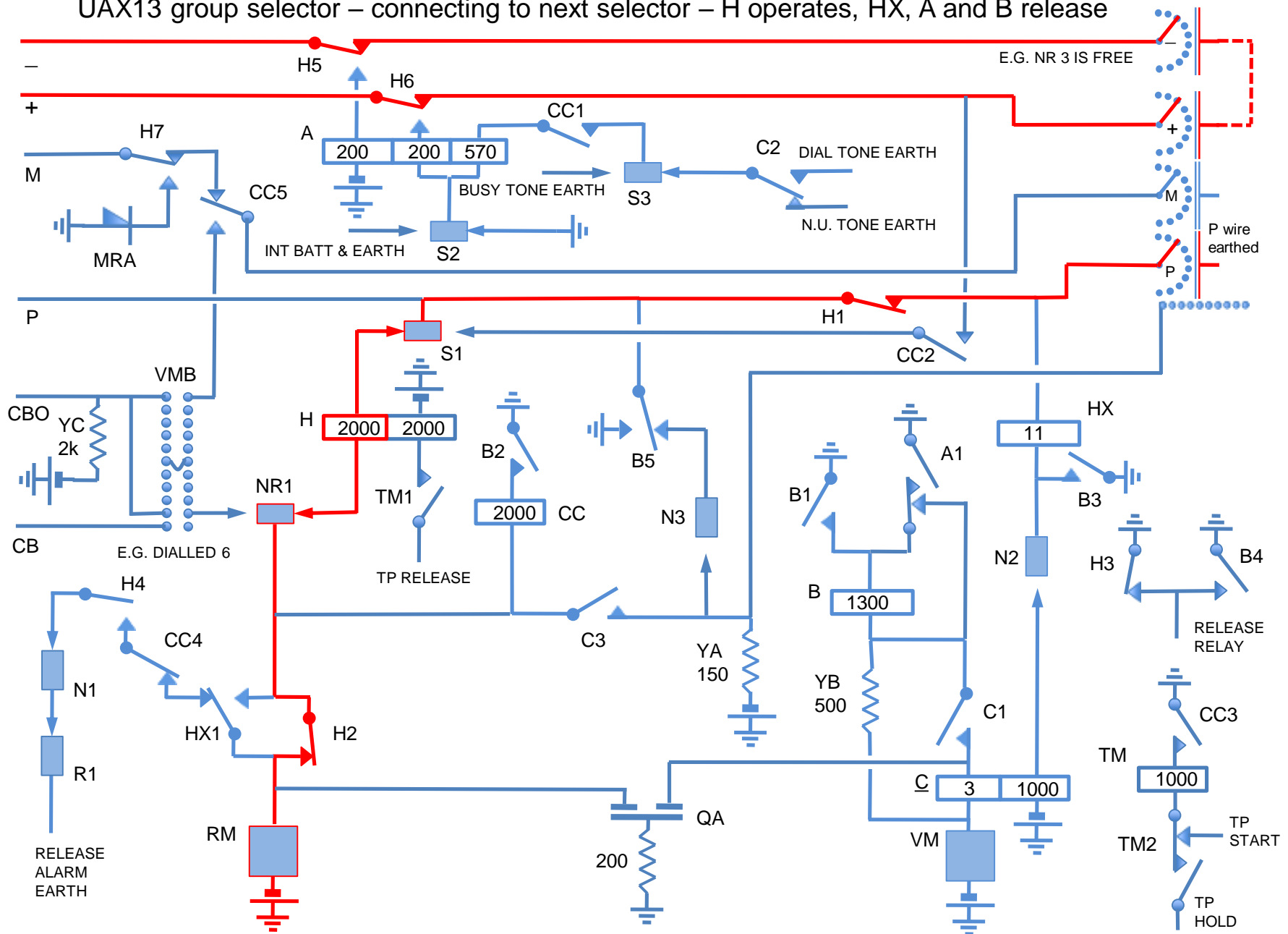
UAX13 group selector – end of vertical stepping – C, CC release, hunting for free outlet



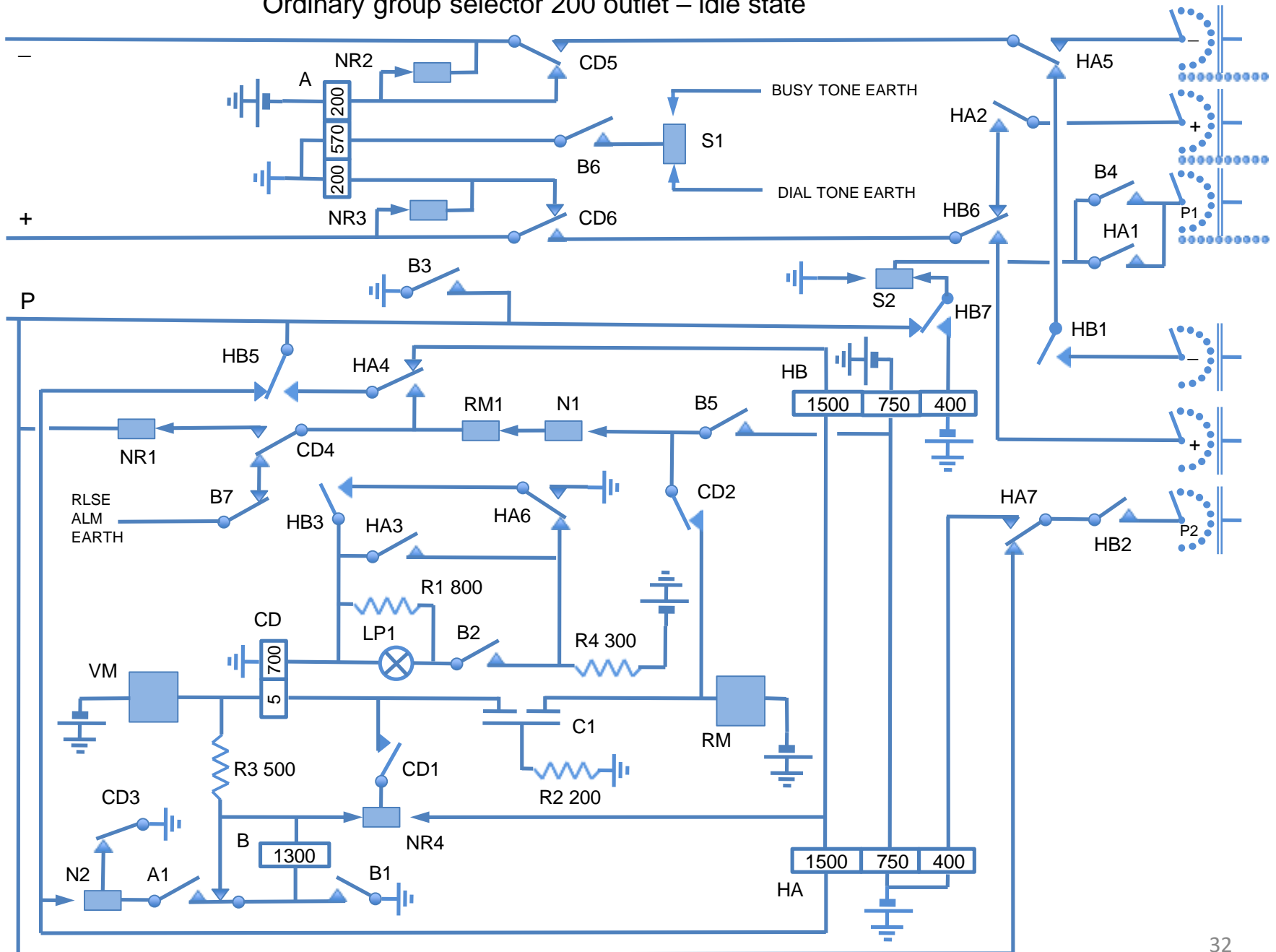
UAX13 group selector – free next selector found – HX operates on P wire battery(!)



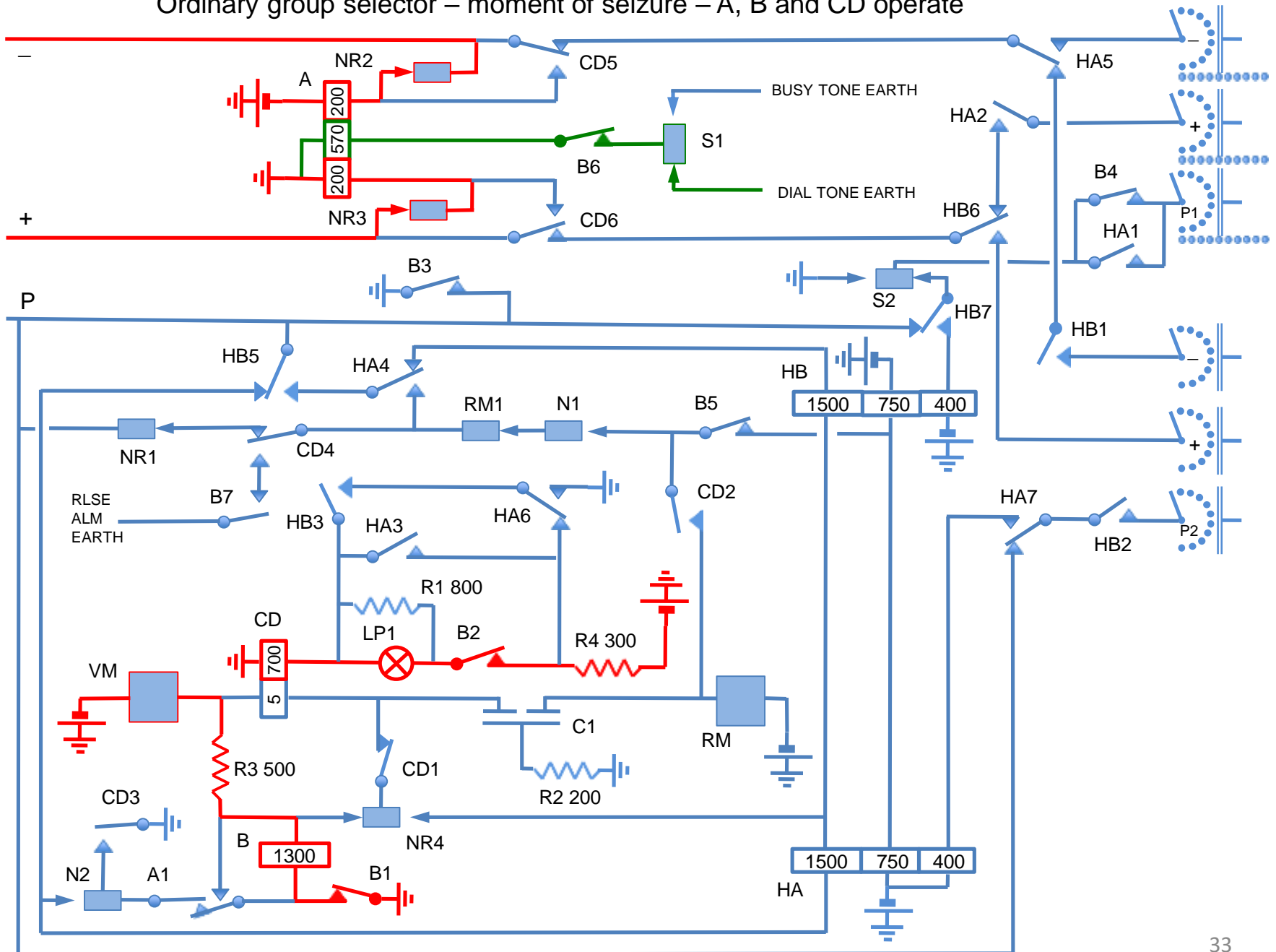
UAX13 group selector – connecting to next selector – H operates, HX, A and B release



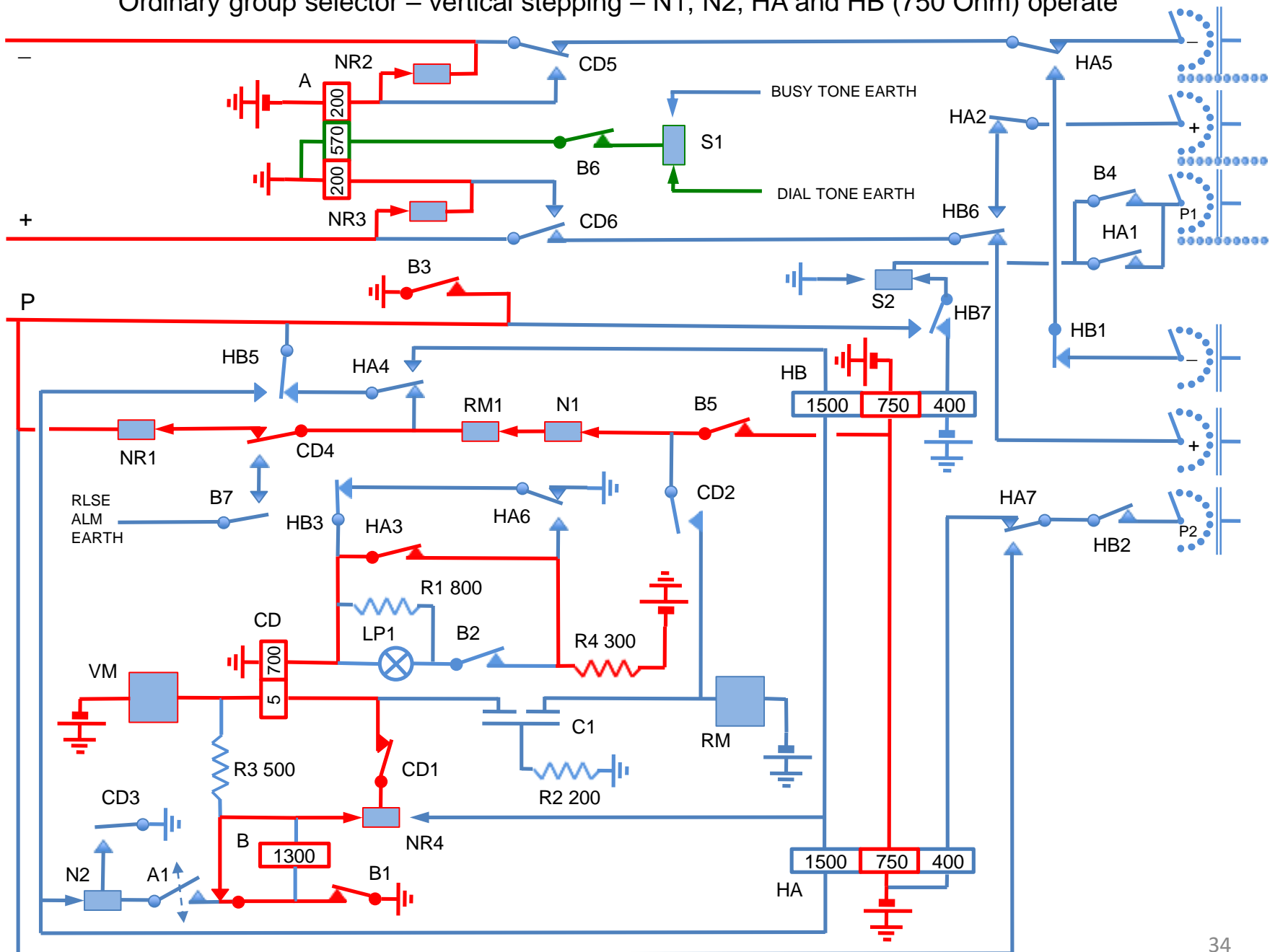
Ordinary group selector 200 outlet – idle state



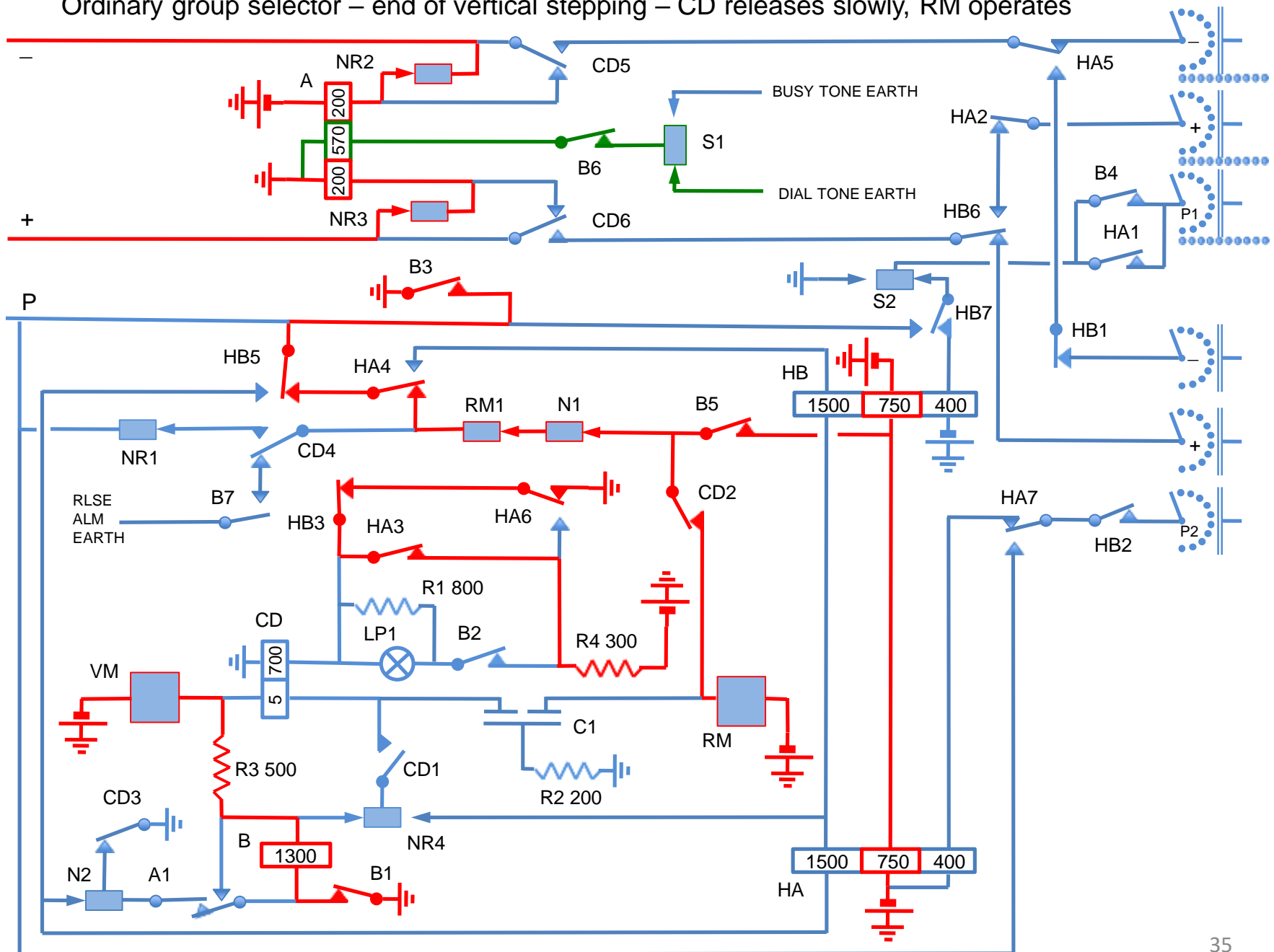
Ordinary group selector – moment of seizure – A, B and CD operate



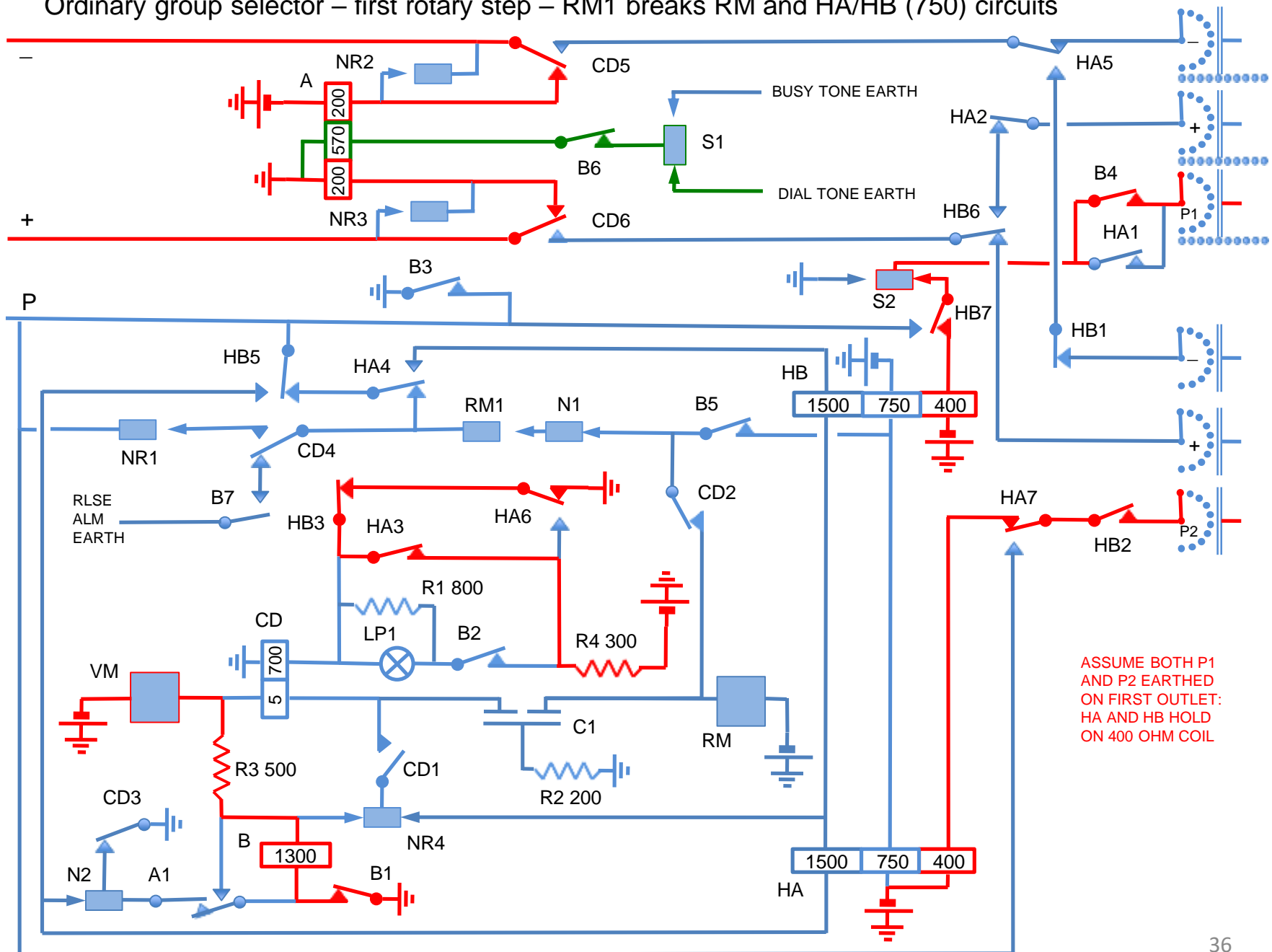
Ordinary group selector – vertical stepping – N1, N2, HA and HB (750 Ohm) operate



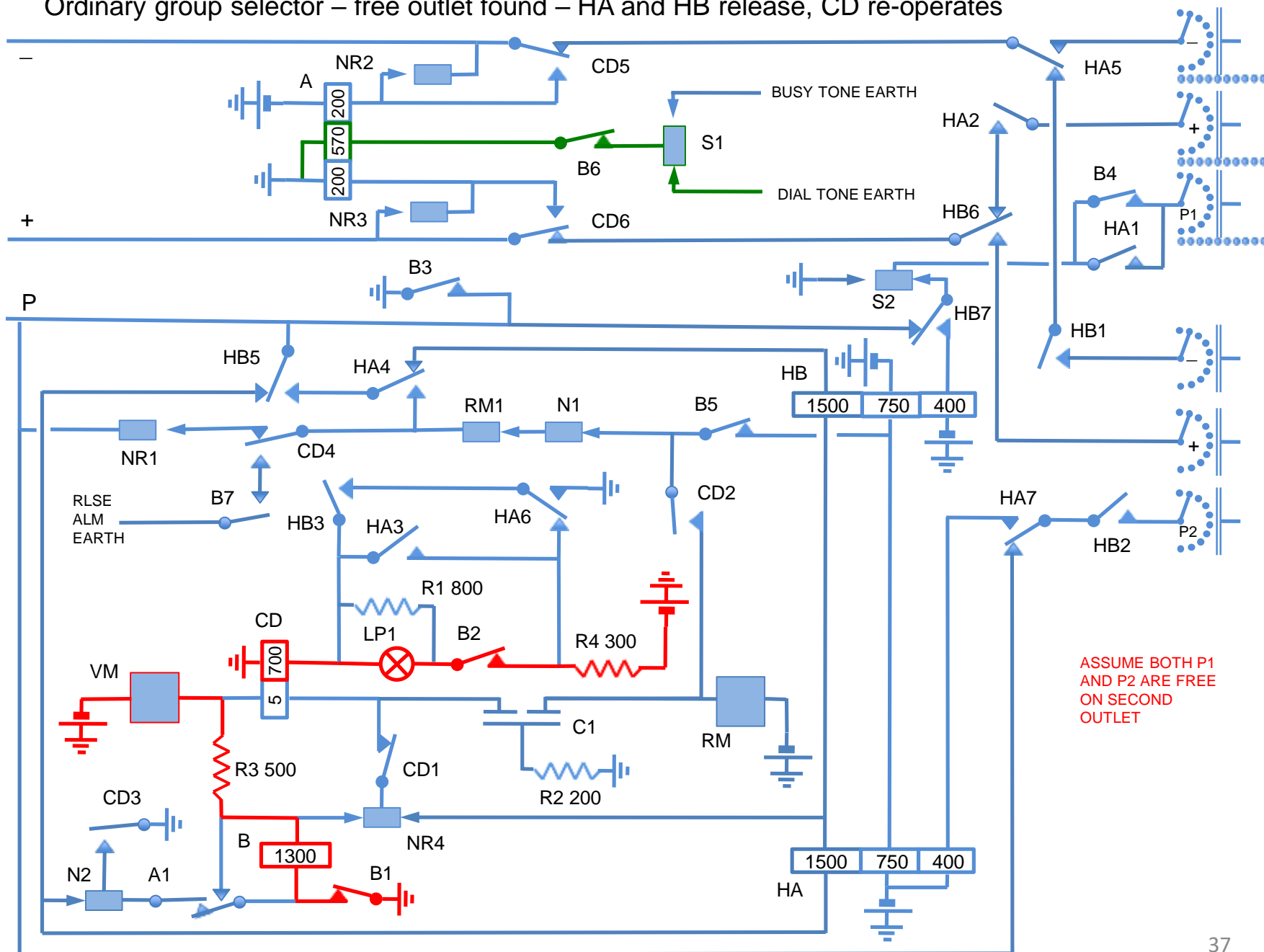
Ordinary group selector – end of vertical stepping – CD releases slowly, RM operates



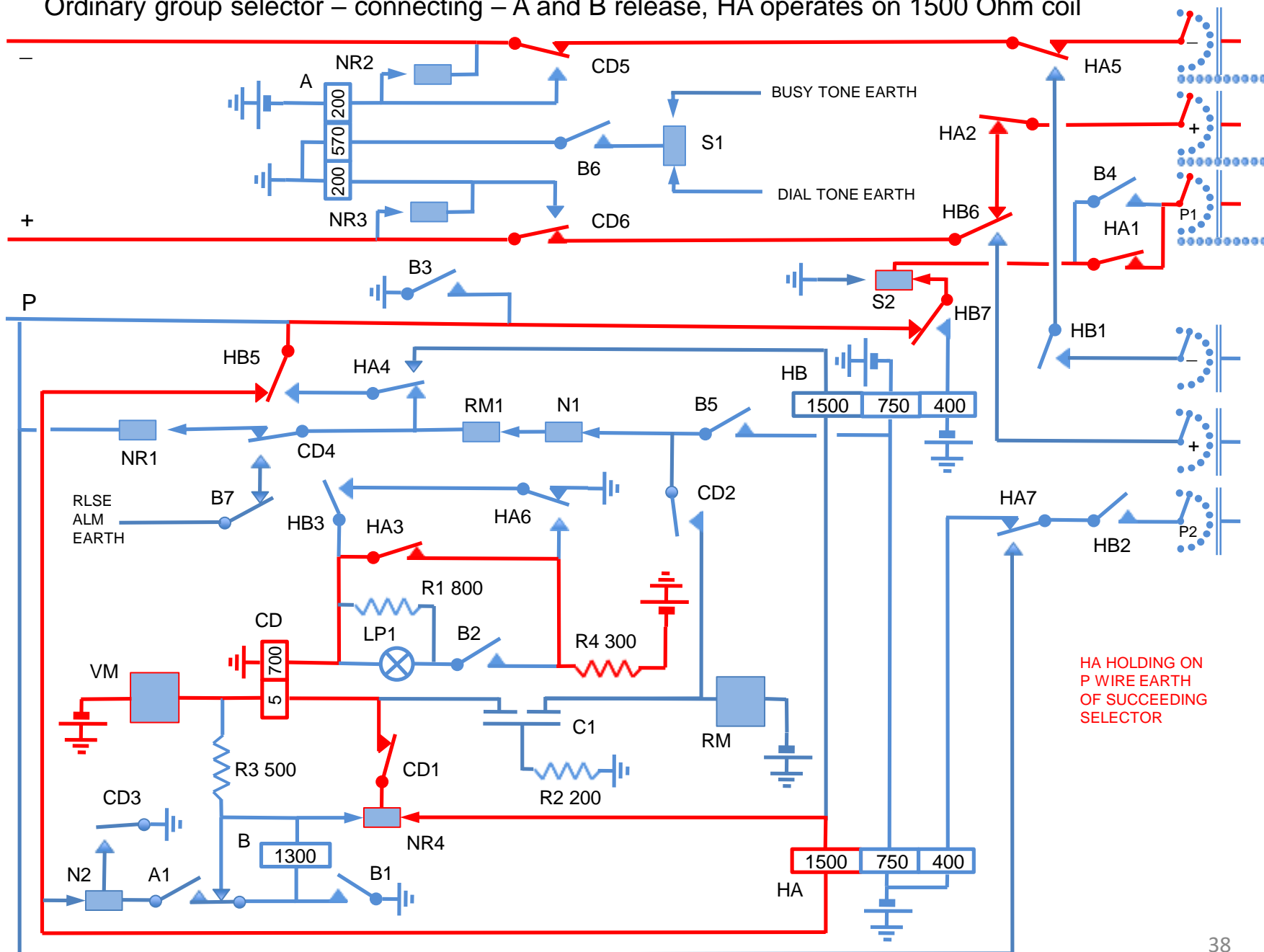
Ordinary group selector – first rotary step – RM1 breaks RM and HA/HB (750) circuits



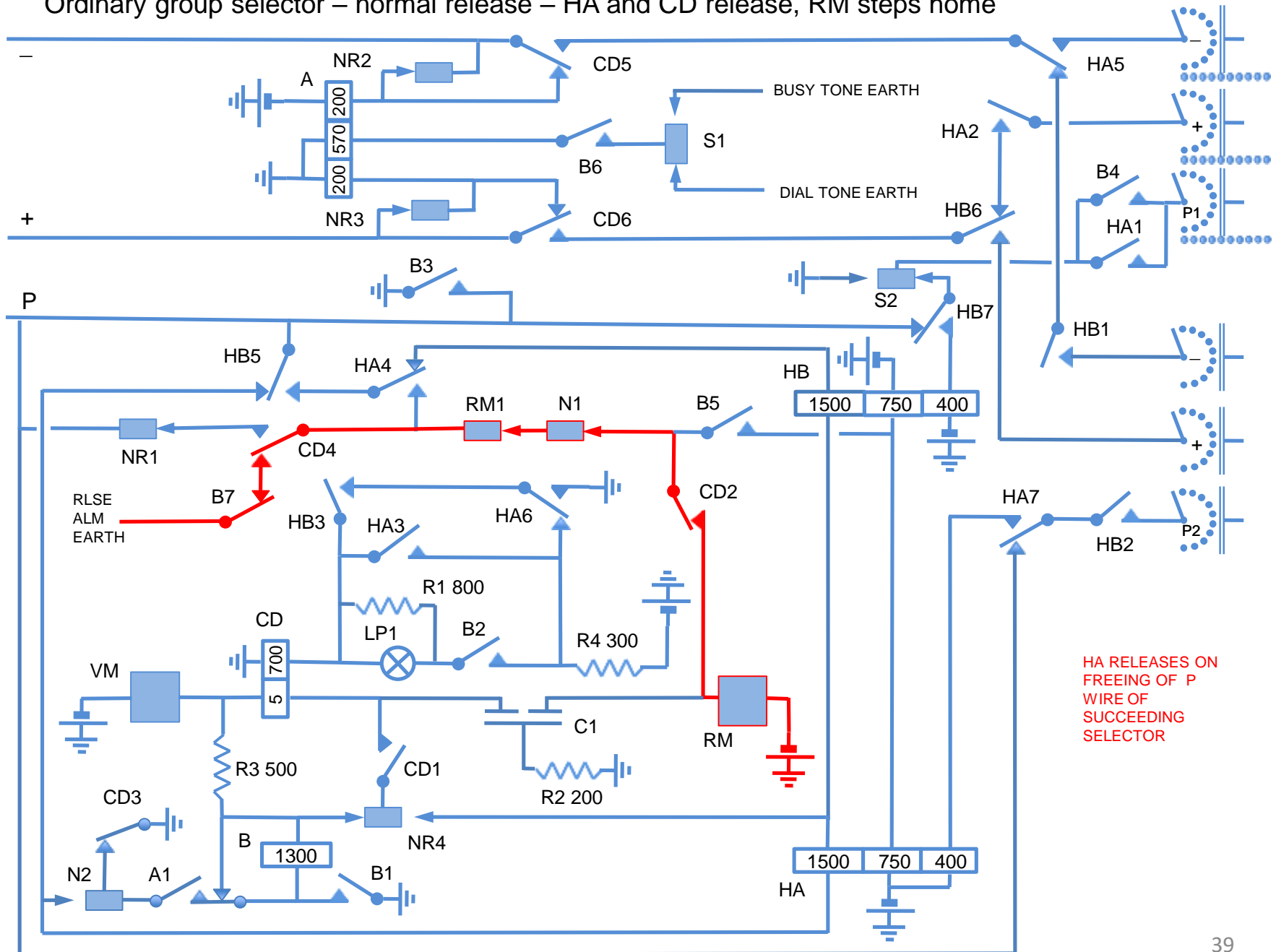
Ordinary group selector – free outlet found – HA and HB release, CD re-operates



Ordinary group selector – connecting – A and B release, HA operates on 1500 Ohm coil

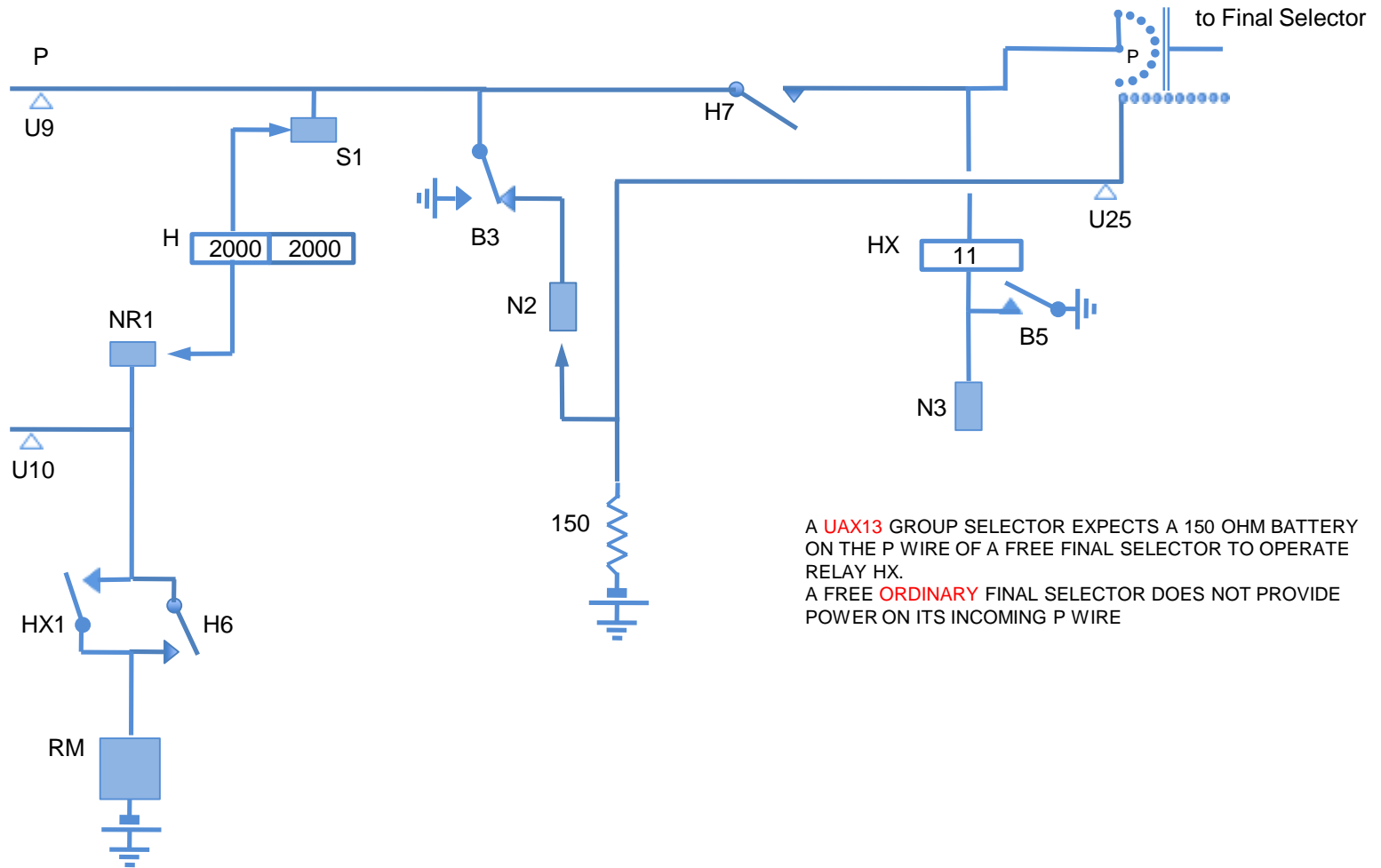


Ordinary group selector – normal release – HA and CD release, RM steps home

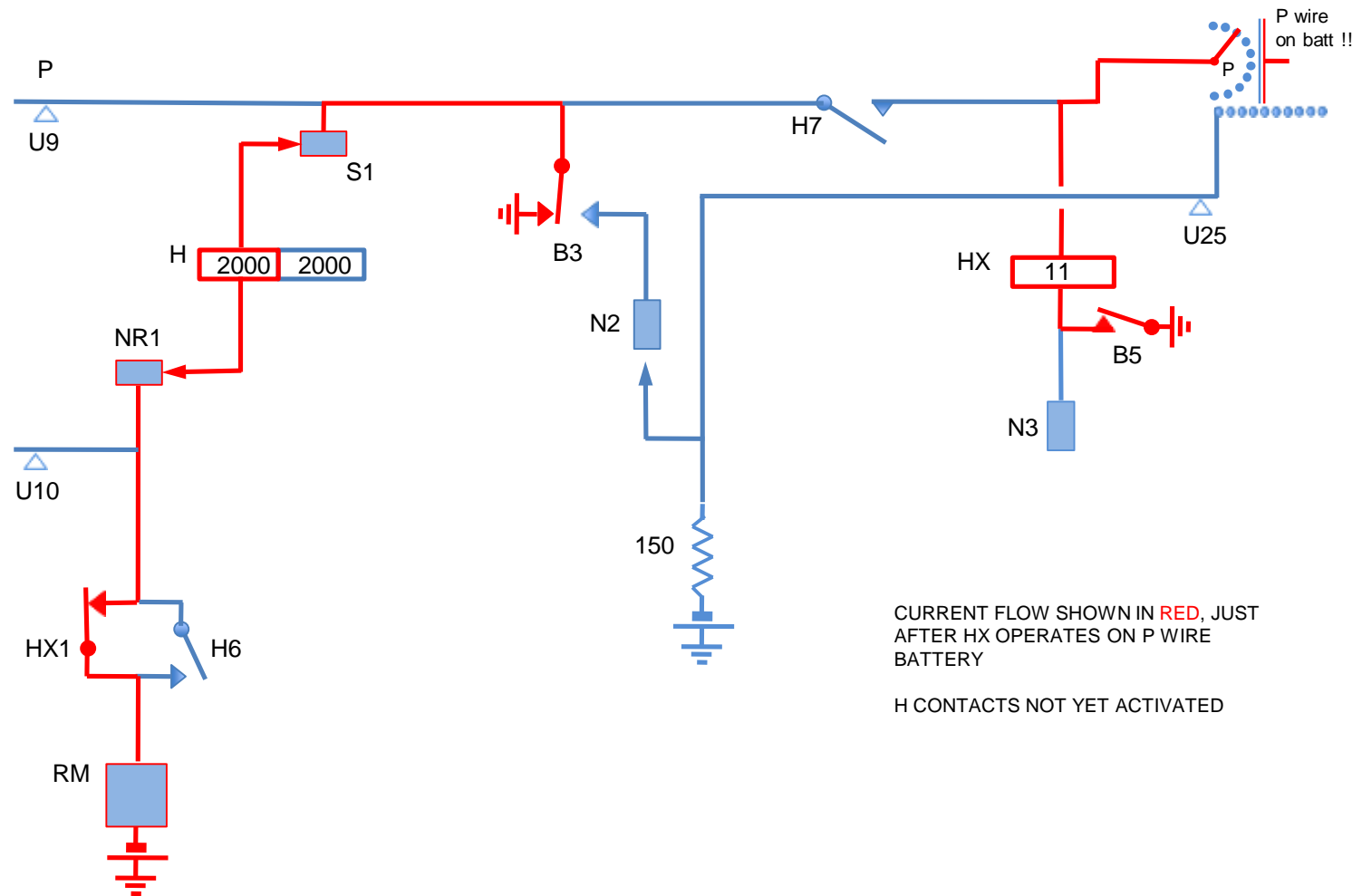


HA RELEASES ON
FREING OF P
WIRE OF
SUCCEEDING
SELECTOR

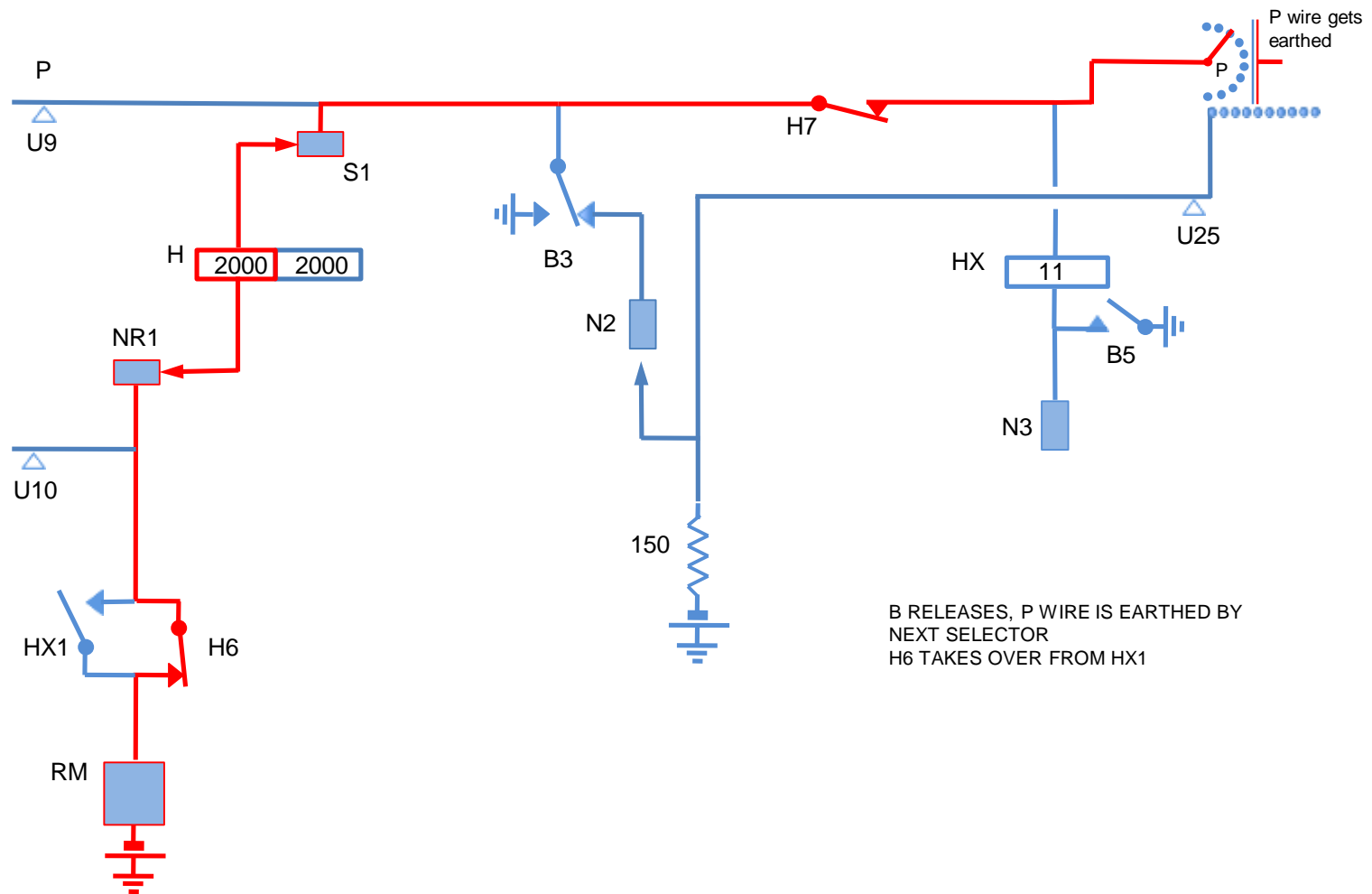
UAX13 Group Selector connected to an Ordinary Final Selector (Example: ATW 600670 connected to ATW 52160)

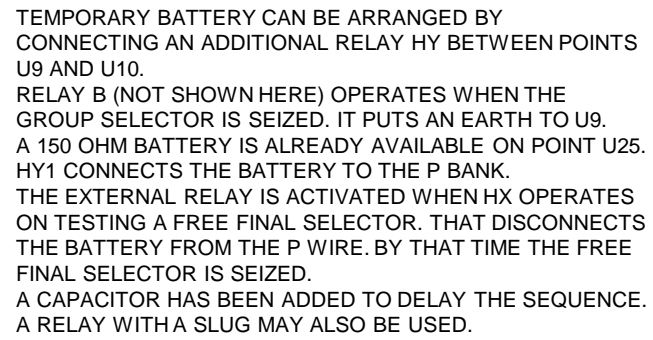


When group selector and final selector are both UAX13 – HX operates on 150 Ohm P wire battery

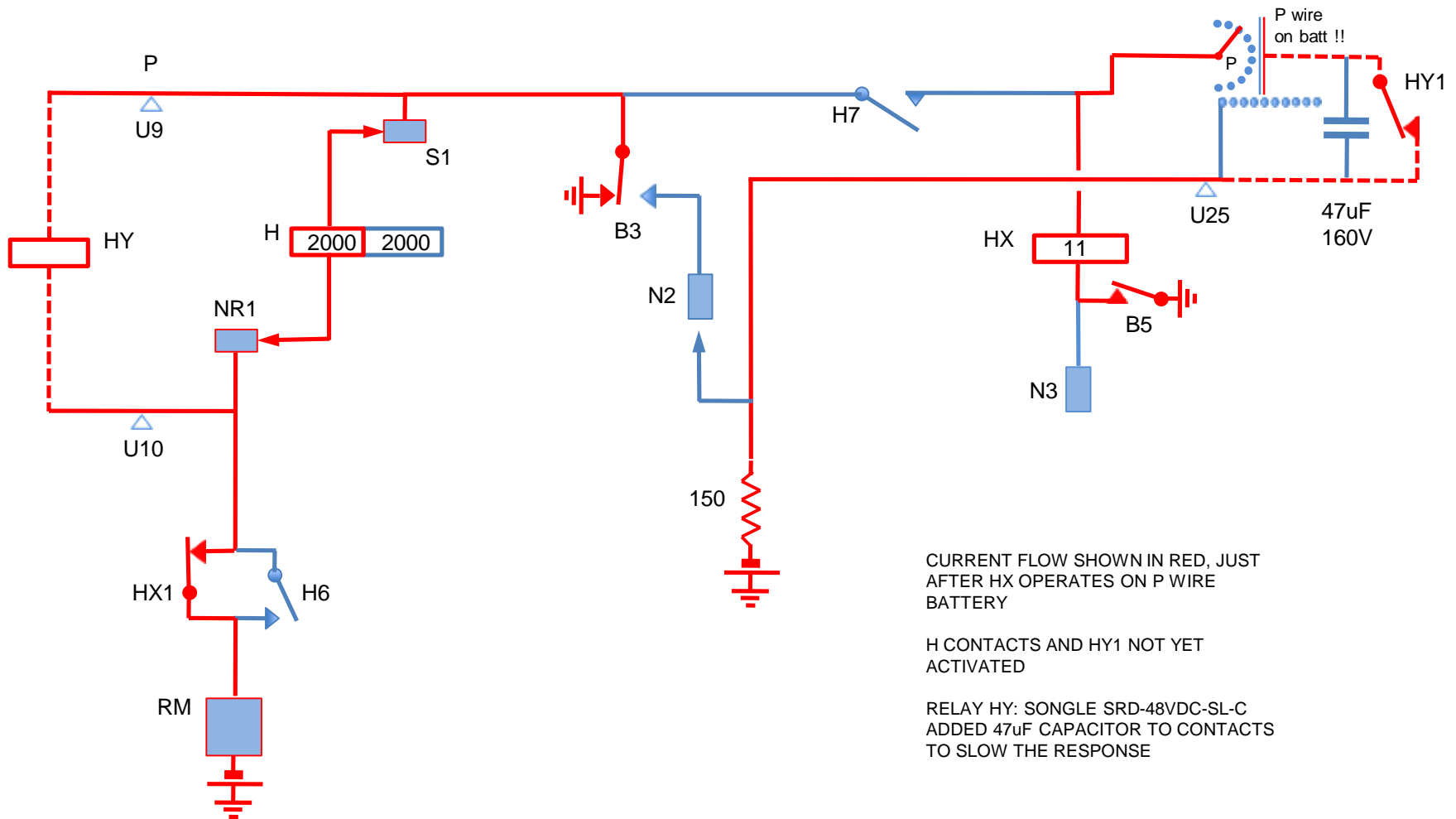


UAX13 group selector – connecting to next selector – H operates, B and HX release





UAX13 group selector – additional external relay HY to provide temporary batt on P wire



UAX13 group selector – connecting to ordinary selector – H and HY operate, B and HX release

