

부산도시철도 1호선 전동차 40량 제동회로 도면집

NO.	도면번호(40량)	도면명칭	Size	적용차종						비고
				Tc1	M1	M2	T1	T2	Tc2	
1	RMA10001FG0	BRAKE PIPING DIAGRAM (1/4)	A3	○	—	—	—	—	○	
2	RMA10002FG0	BRAKE PIPING DIAGRAM (2/4)	A3	—	○	—	—	—	—	
3	RMA10003FG0	BRAKE PIPING DIAGRAM (3/4)	A3	—	—	○	—	—	—	
4	RMA10005FG0	BRAKE PIPING DIAGRAM (4/4)	A3	—	—	—	○	○	—	
5		BRAKE AIR DIAGRAM (총기 및 운전위치)	A3	○	○	○	○	○	○	
6		BRAKE AIR DIAGRAM (상용제동위치)	A3	○	○	○	○	○	○	
7		BRAKE AIR DIAGRAM (상용제동 완해위치)	A3	○	○	○	○	○	○	
8		BRAKE AIR DIAGRAM (비상제동위치)	A3	○	○	○	○	○	○	
9		BRAKE AIR DIAGRAM (비상제동 완해위치)	A3	○	○	○	○	○	○	
10		BRAKE AIR DIAGRAM (보안제동위치)	A3	○	○	○	○	○	○	
11		BRAKE AIR DIAGRAM (보안제동 완해위치)	A3	○	○	○	○	○	○	
12		BRAKE AIR DIAGRAM (Tc-CAR 주행위치)	A3	○	—	—	—	—	○	
13		BRAKE AIR DIAGRAM (Tc-CAR 제동위치)	A3	○	—	—	—	—	○	
14		BRAKE AIR DIAGRAM (Tc-CAR 완해위치)	A3	○	—	—	—	—	○	
15		BRAKE AIR DIAGRAM (Tc-CAR 주차제동위치)	A3	○	—	—	—	—	○	
16		BRAKE AIR DIAGRAM (Tc-CAR 운전위치)	A3	○	—	—	—	—	○	
17		BRAKE AIR DIAGRAM (Tc-CAR 제동위치)	A3	○	—	—	—	—	○	
18		BRAKE AIR DIAGRAM (Tc-CAR 완해위치)	A3	○	—	—	—	—	○	
19		BRAKE AIR DIAGRAM (Tc-CAR 제동완해작용 - 덤프밸브작동)	A3	○	—	—	—	—	○	
20		BRAKE AIR DIAGRAM (Tc-CAR 제동유지상태 - 덤프밸브작동)	A3	○	—	—	—	—	○	

TC1-CAR

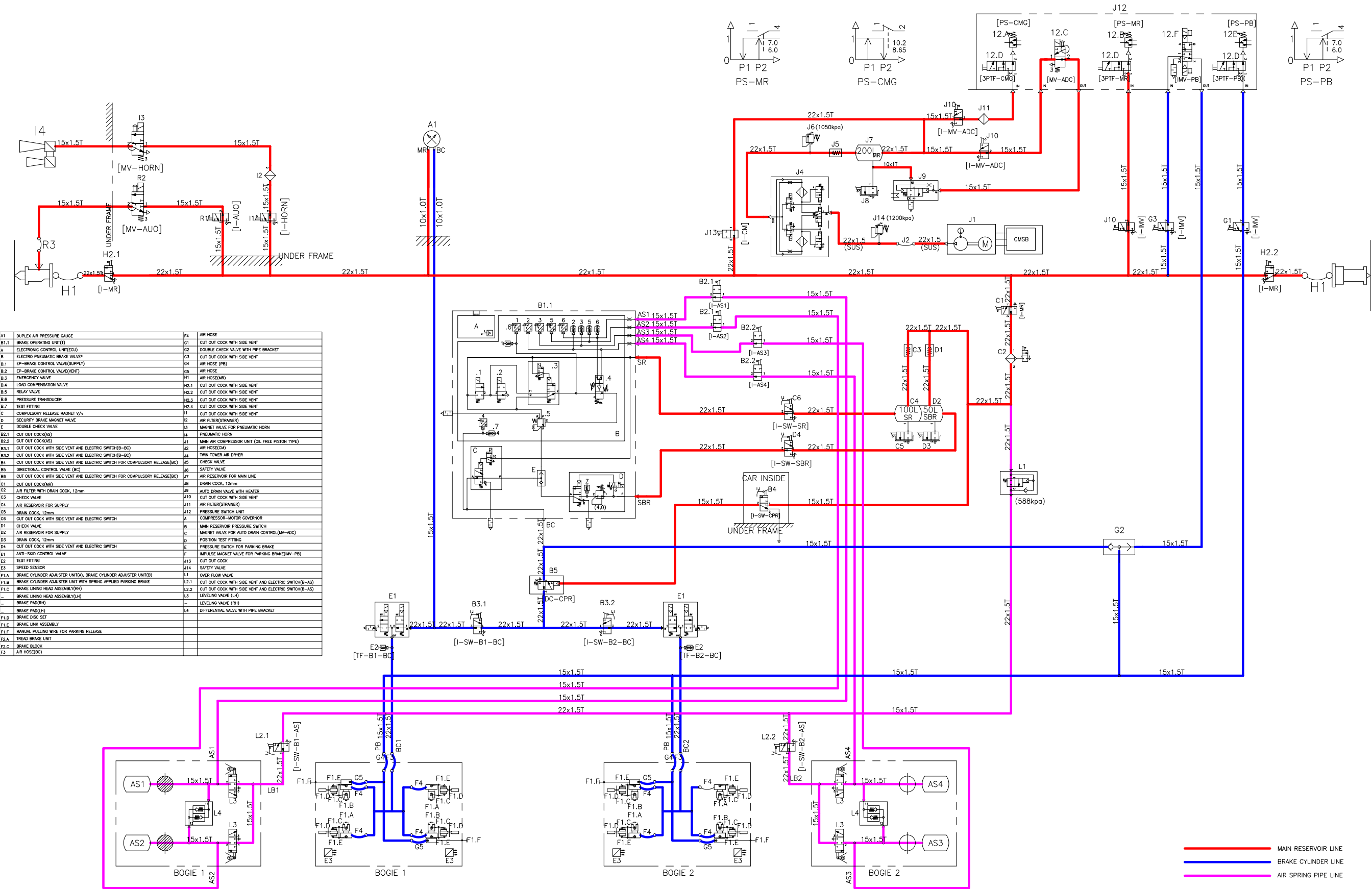
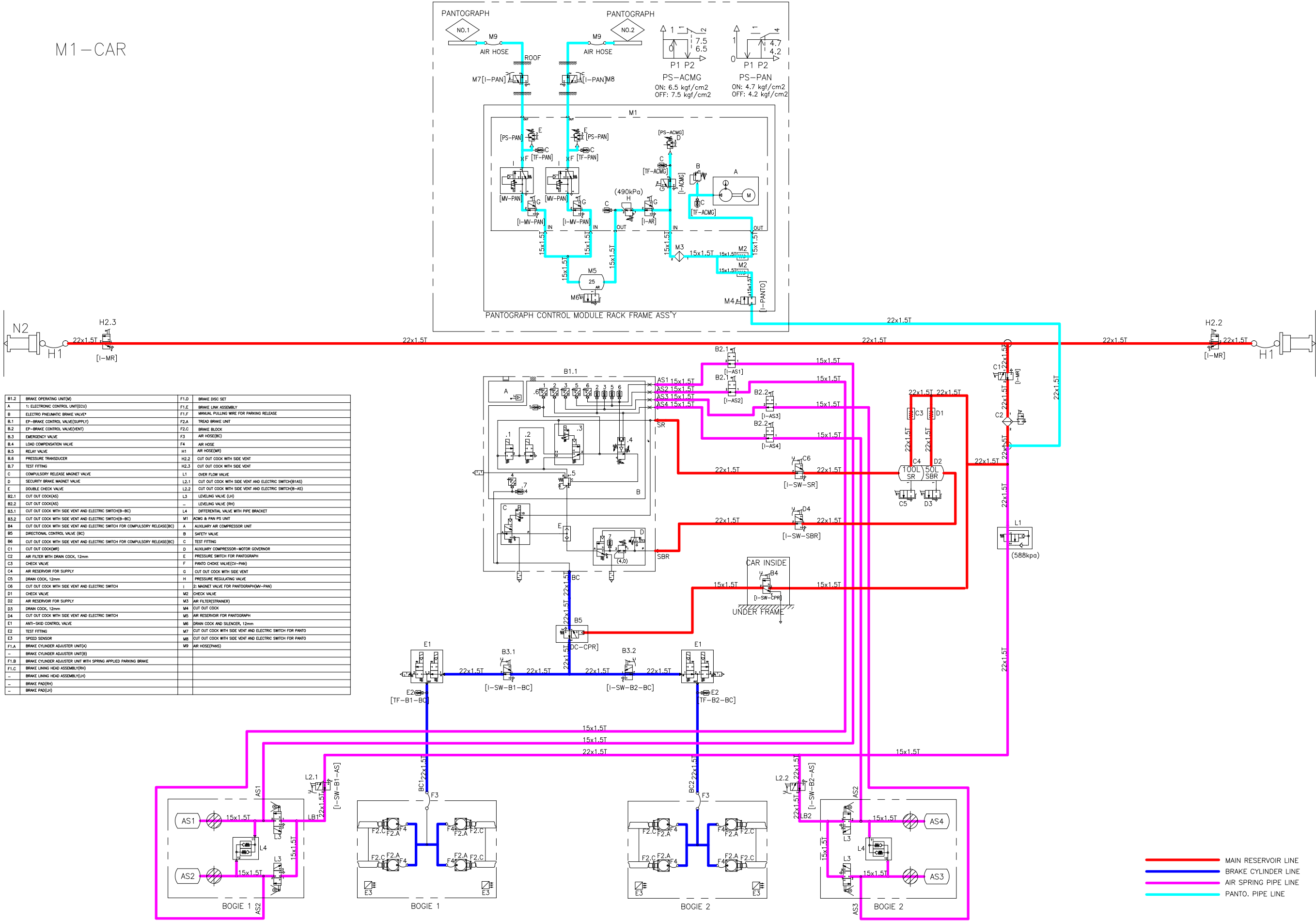


DIAGRAM BRAKE PIPING(TC1-CAR)

M1-CAR

M1-CAR ONLY



B1.2	BRAKE OPERATING UNIT(M)	F1.D	BRAKE DISC SET
A	1. ELECTRONIC CONTROL UNIT(ECU)	F1.E	BRAKE LINK ASSEMBLY
B	ELECTRO PNEUMATIC BRAKE VALVE	F1.F	MANUAL PULLING WIRE FOR PARKING RELEASE
B1.1	EP-BRAKE CONTROL VALVE(SUPPLY)	F2.A	TREAD BRAKE UNIT
B.2	EP-BRAKE CONTROL VALVE(VENT)	F2.C	BRAKE BLOCK
B.3	EMERGENCY VALVE	F3	AIR HOSE(BC)
B.4	LOAD COMPENSATION VALVE	F4	AIR HOSE
B.5	RELAY VALVE	H1	AIR HOSE(MR)
B.6	PRESSURE TRANSDUCER	H2.2	CUT OUT COCK WITH SIDE VENT
B.7	TEST FITTING	H2.3	CUT OUT COCK WITH SIDE VENT
C	COMPULSORY RELEASE MAGNET VALVE	L1	OVER FLOW VALVE
D	SECURITY BRAKE MAGNET VALVE	L2.1	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH(B1AS)
E	DOUBLE CHECK VALVE	L2.2	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH(B-AS)
B2.1	CUT OUT COCK(AS)	L3	LEVELING VALVE (LH)
B2.2	CUT OUT COCK(AS)	-	LEVELING VALVE (RH)
B3.1	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH(B-BC)	L4	DIFFERENTIAL VALVE WITH PIPE BRACKET
B3.2	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH(B-BC)	M1	ACMG & PAN PS UNIT
B4	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH FOR COMPULSORY RELEASE(BC)	A	AUXILIARY AIR COMPRESSOR UNIT
B5	DIRECTIONAL CONTROL VALVE (BC)	B	SAFETY VALVE
B6	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH FOR COMPULSORY RELEASE(BC)	C	TEST FITTING
C1	CUT OUT COCK(MR)	D	AUXILIARY COMPRESSOR-MOTOR GOVERNOR
C2	AIR FILTER WITH DRAIN COCK, 12mm	E	PRESSURE SWITCH FOR PANTOGRAPH
C3	CHECK VALVE	F	PANTO CHECK VALVE(OV-PAN)
C4	AIR RESERVOIR FOR SUPPLY	G	CUT OUT COCK WITH SIDE VENT
C5	DRAIN COCK, 12mm	H	PRESSURE REGULATING VALVE
C6	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH	I	2. MAGNET VALVE FOR PANTOGRAPH(MV-PAN)
D1	CHECK VALVE	M2	CHECK VALVE
D2	AIR RESERVOIR FOR SUPPLY	M3	AIR FILTER(STRAINER)
D3	DRAIN COCK, 12mm	M4	CUT OUT COCK
D4	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH	M5	AIR RESERVOIR FOR PANTOGRAPH
E1	ANTI-SKID CONTROL VALVE	M6	DRAIN COCK AND SILENCER, 12mm
E2	TEST FITTING	M7	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH FOR PANTO
E3	SPEED SENSOR	M8	CUT OUT COCK WITH SIDE VENT AND ELECTRIC SWITCH FOR PANTO
F1.A	BRAKE CYLINDER ADJUSTER UNIT(A)	M9	AIR HOSE(PANS)
-	BRAKE CYLINDER ADJUSTER UNIT(B)		
F1.B	BRAKE CYLINDER ADJUSTER UNIT WITH SPRING APPLIED PARKING BRAKE		
F1.C	BRAKE LINING HEAD ASSEMBLY(RH)		
-	BRAKE LINING HEAD ASSEMBLY(LH)		
-	BRAKE PAD(RH)		
-	BRAKE PAD(LH)		

DIAGRAM BRAKE PIPING(M1-CAR)

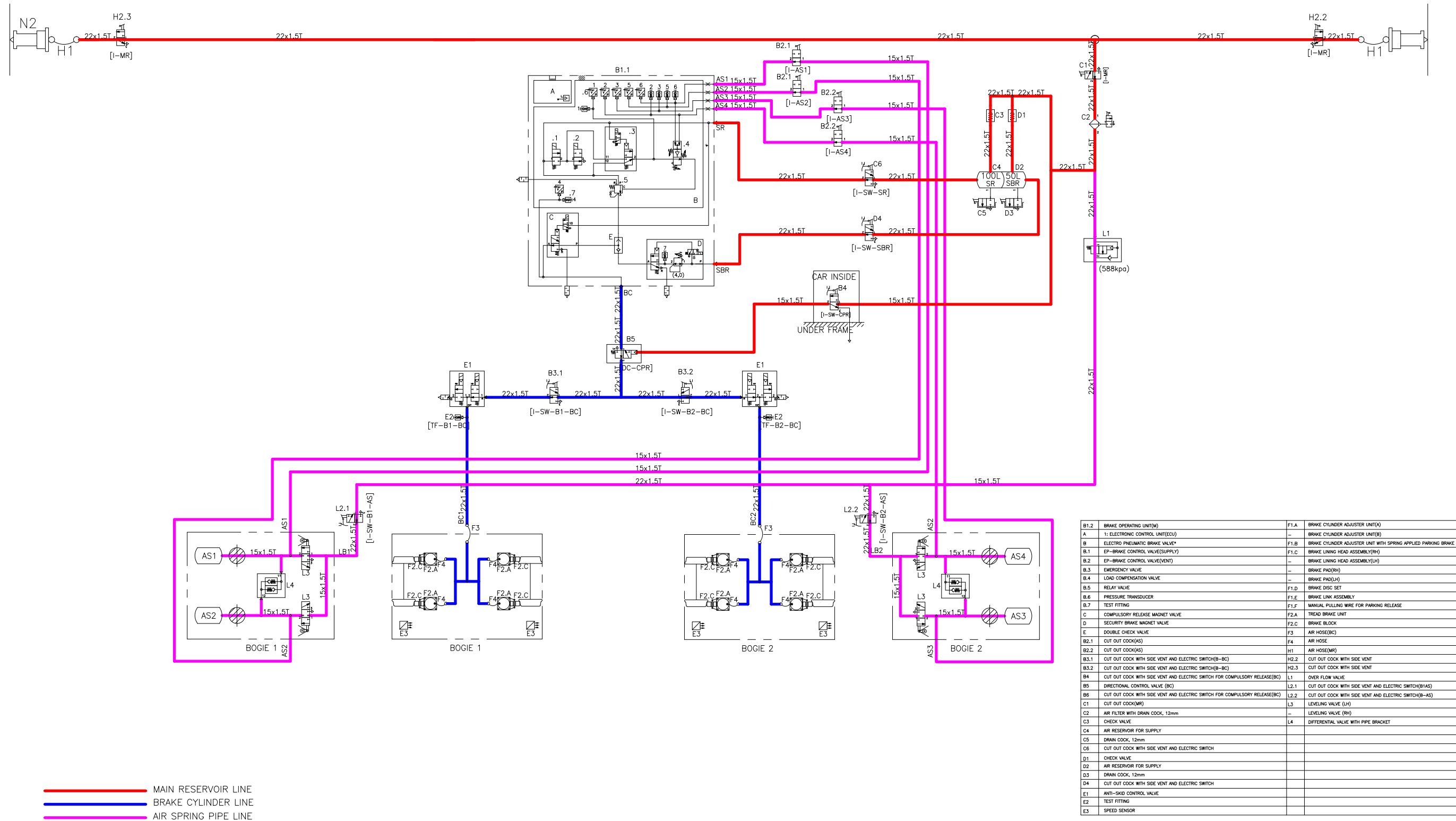


DIAGRAM BRAKE PIPING (M2-CAR)

TC2-CAR

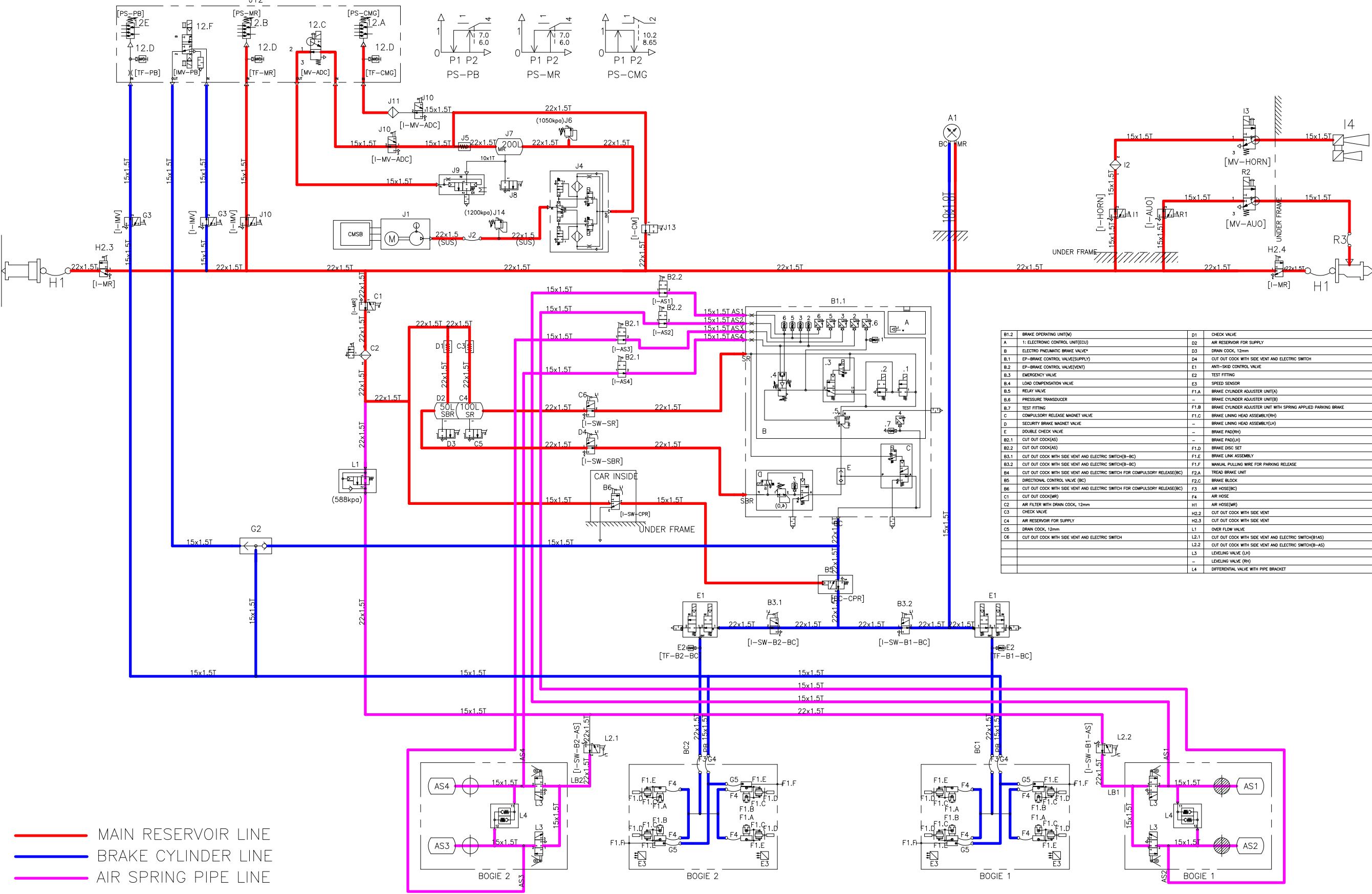
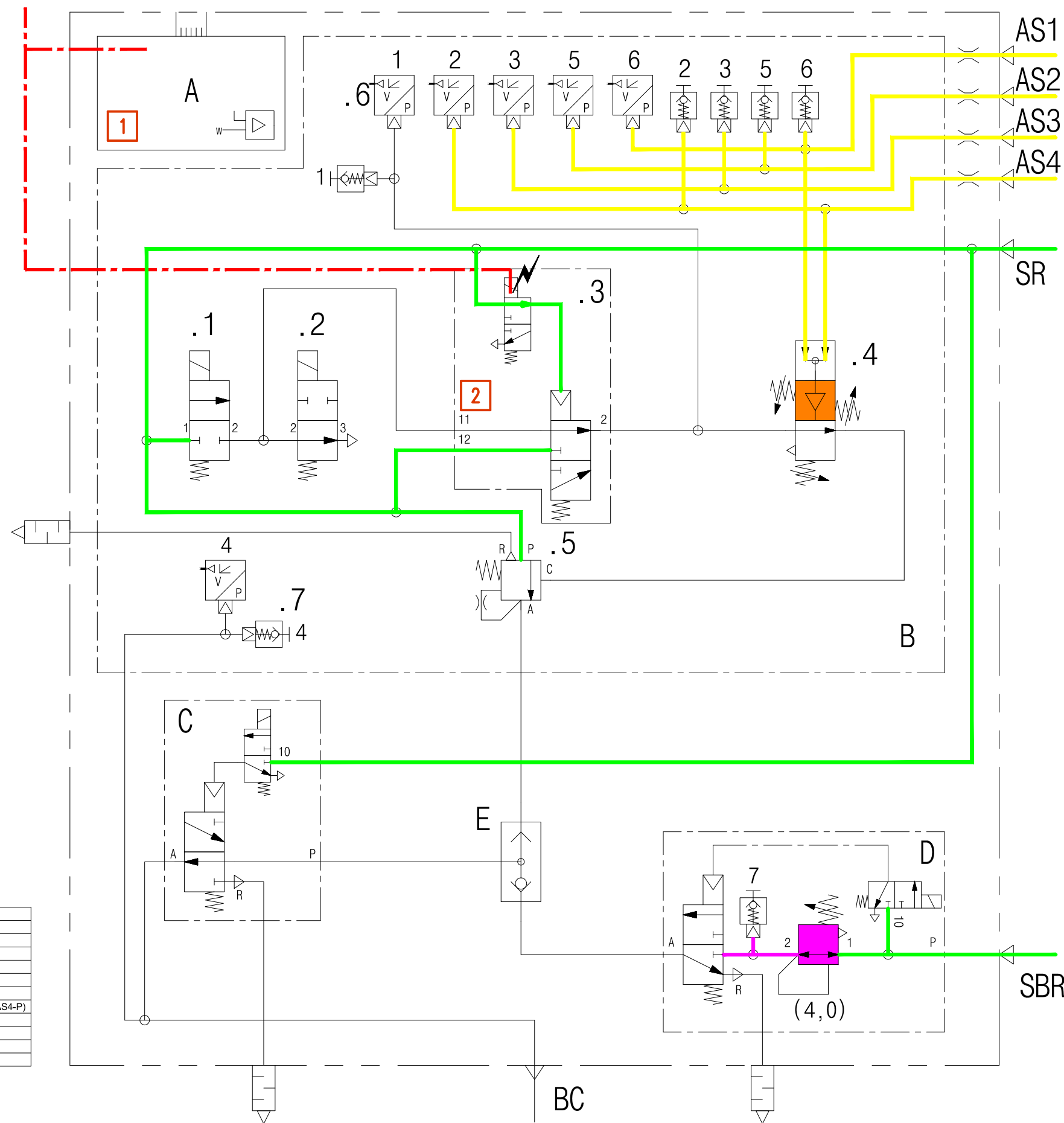


DIAGRAM BRAKE PIPING(TC2-CAR)

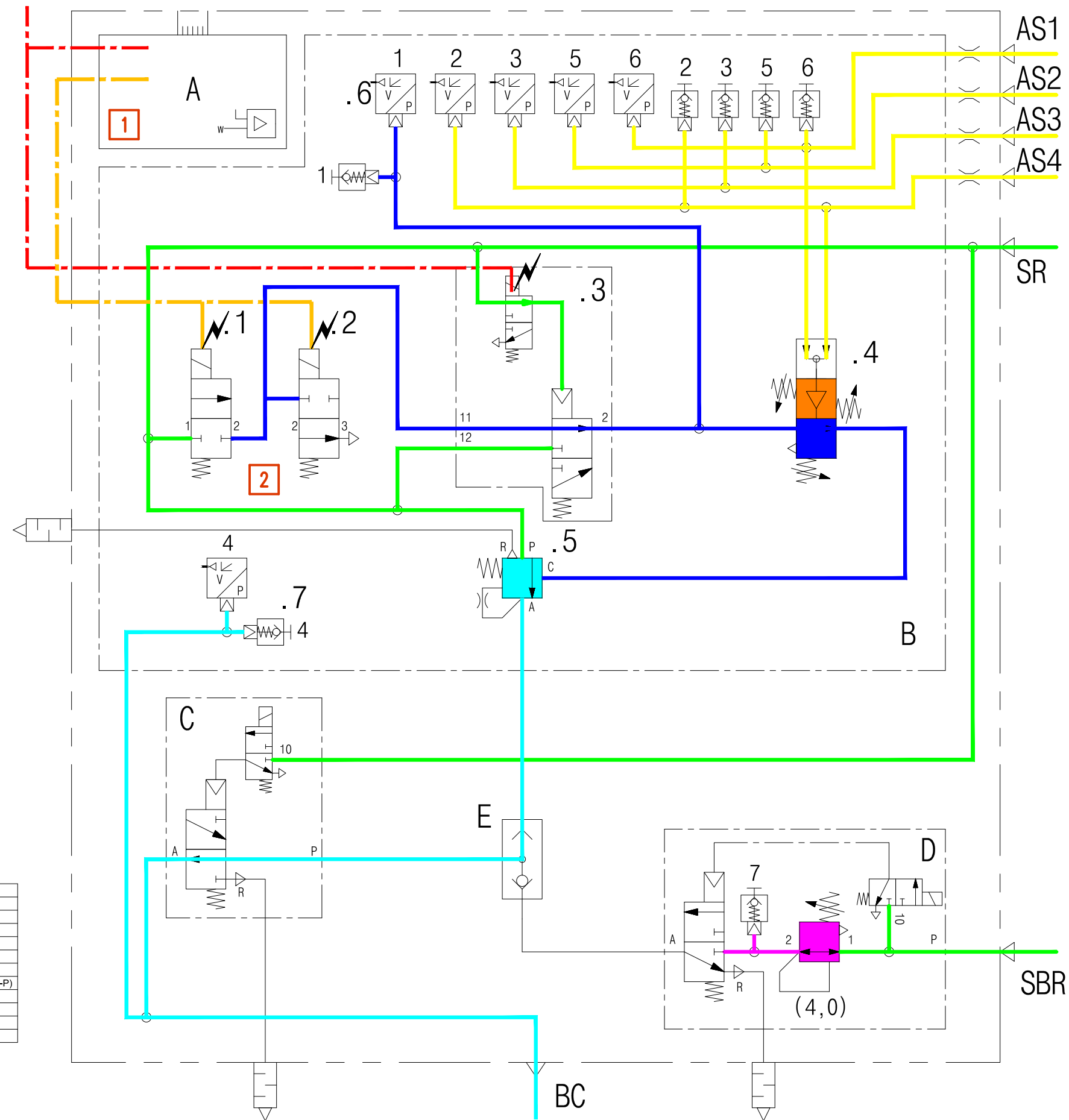
A	1: ELECTRONIC CONTROL UNIT(ECU)
B	1: MAIN BRAKE VALVE
B.1	1: EP-BRAKE CONTROL VALVE (SUPPLY)
B.2	1: EP-BRAKE CONTROL VALVE (VENT)
B.3	1: EMERGENCY VALVE
B.4	1: LOAD COMPENSATION VALVE
B.5	1: RELAY VALVE
B.6	6: PRESSURE TRANSDUCER (AC-P/BC-P/AS1-P/AS2-P/AS3-P/AS4-P)
B.7	7: TEST FITTING (AC-T/BC-T/AS1-T/AS2-T/AS3-T/AS4-T/SCB-T)
C	1: COMPULSORY RELEASE MAGNET VALVE
D	1: SECURITY BRAKE MAGNET VALVE
E	1: DOUBLE CHECK VALVE



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- 주공기압력 배기
- 변동하중압력 공급
- 평균된 압력 공급
- 조정된 압력 공급
- 조정된 압력 배기
- 작용제어압력 공급(비상제동)
- 작용제어압력 배기
- 작용제어압력 공급(상용제동)
- 작용제어압력 배기
- 제동작용압력 공급
- 제동작용압력 배기

운전준비 및 제동 완해도

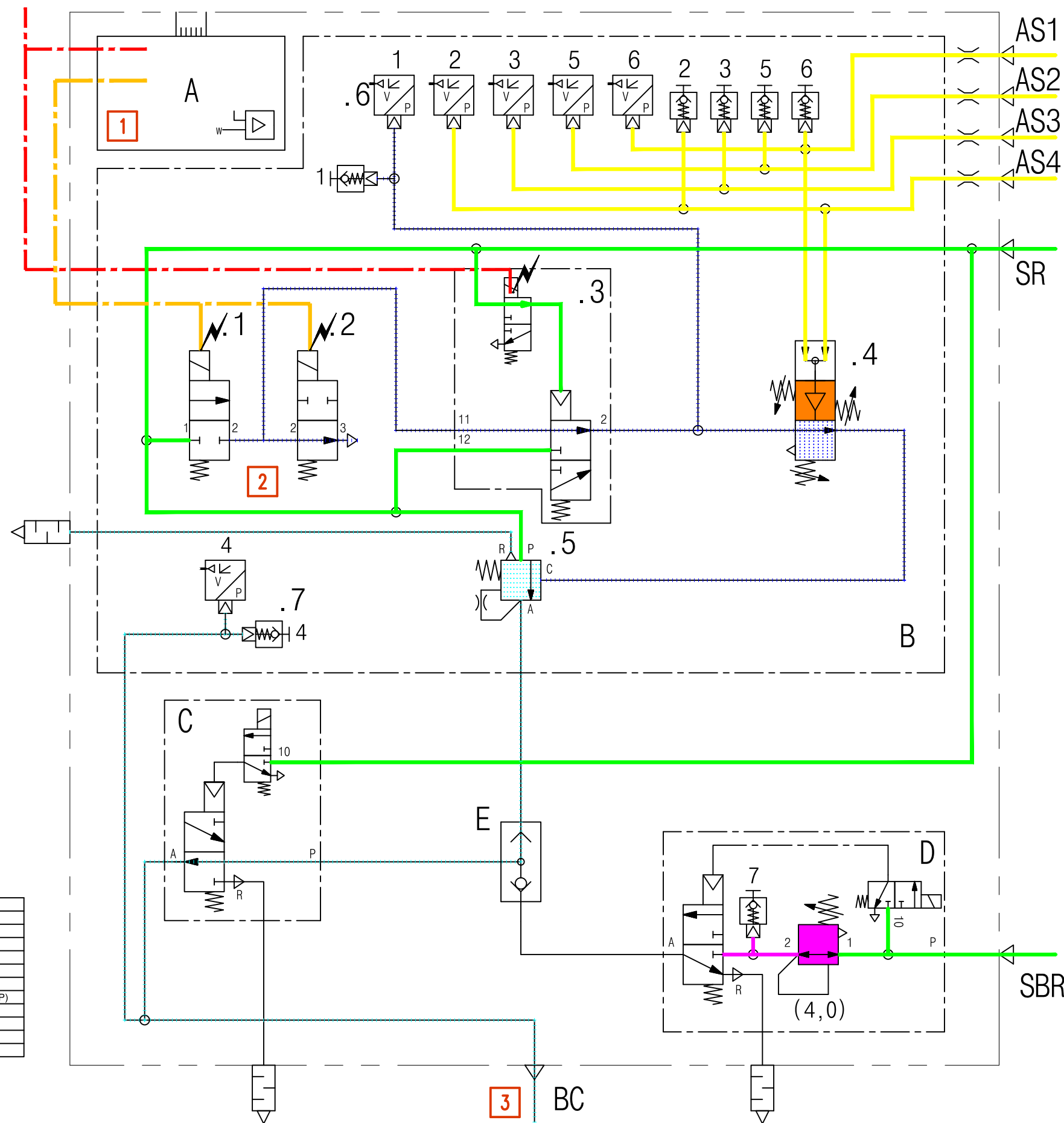
A	1: ELECTRONIC CONTROL UNIT(ECU)
B	1: MAIN BRAKE VALVE
B.1	1: EP-BRAKE CONTROL VALVE (SUPPLY)
B.2	1: EP-BRAKE CONTROL VALVE (VENT)
B.3	1: EMERGENCY VALVE
B.4	1: LOAD COMPENSATION VALVE
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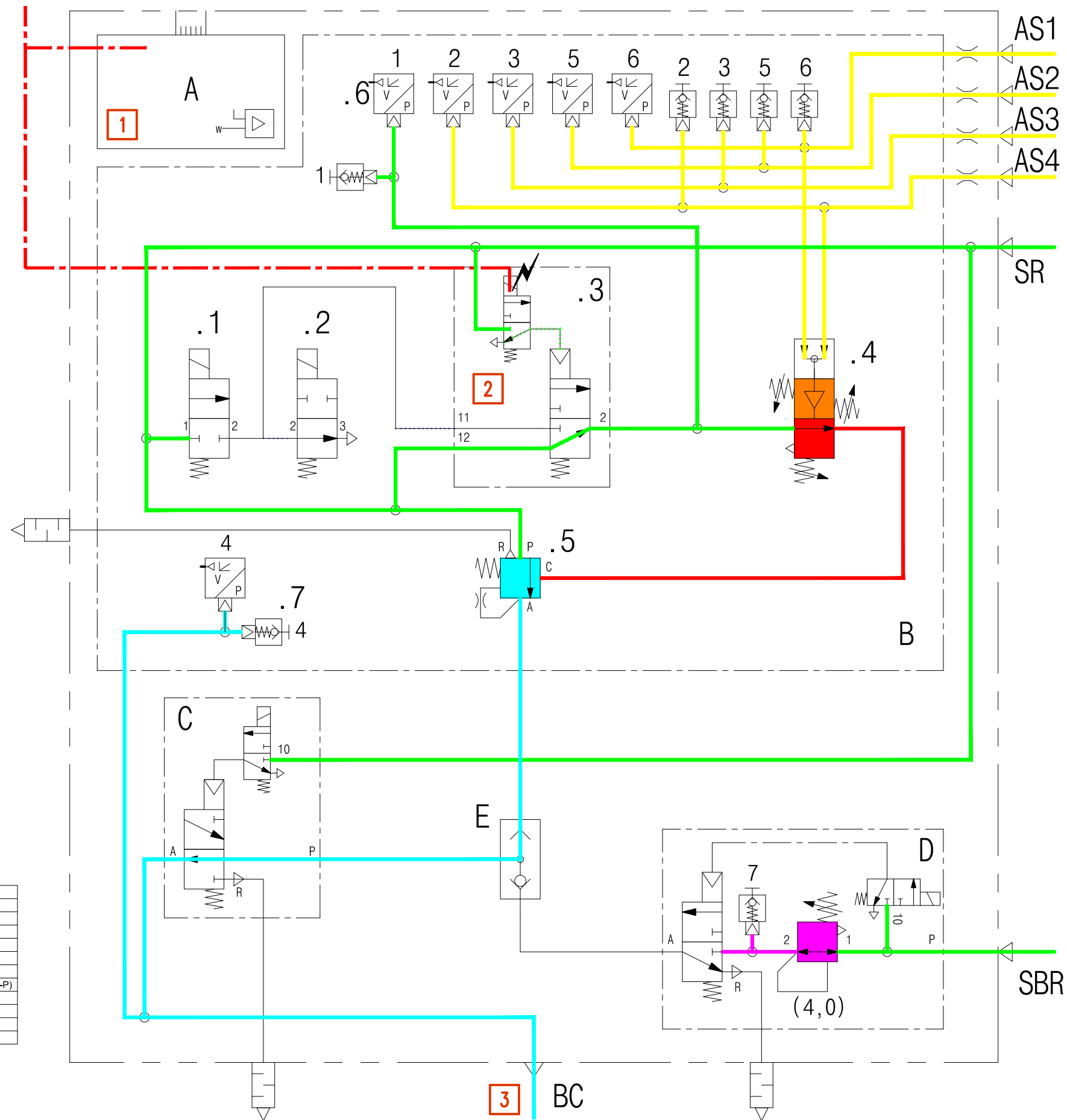
상용제동 작용도

A	ELECTRONIC CONTROL UNIT(ECU)
B	MAIN BRAKE VALVE
B.1	EP-BRAKE CONTROL VALVE (SUPPLY)
B.2	EP-BRAKE CONTROL VALVE (VENT)
B.3	EMERGENCY VALVE
B.4	LOAD COMPENSATION VALVE
B.5	RELAY VALVE
B.6	PRESSURE TRANSDUCER (AC-P/BC-P/AS1-P/AS2-P/AS3-P/AS4-P)
B.7	TEST FITTING (AC-T/BC-T/AS1-T/AS2-T/AS3-T/AS4-T/SCB-T)
C	COMPULSORY RELEASE MAGNET VALVE
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E	DOUBLE CHECK VALVE



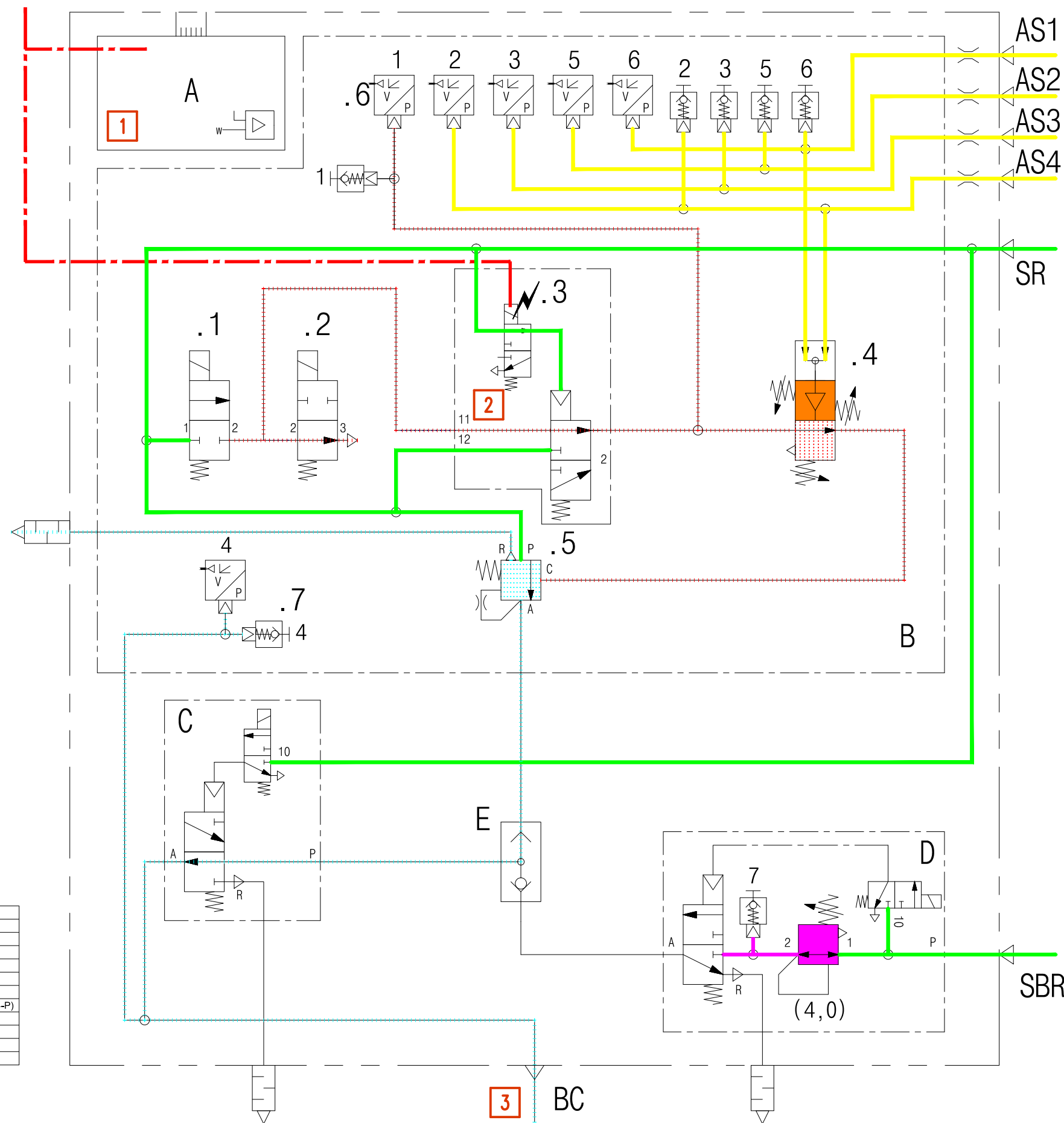
상용제동 완해도

A	1: ELECTRONIC CONTROL UNIT(ECU)
B	1: MAIN BRAKE VALVE
B.1	1: EP-BRAKE CONTROL VALVE (SUPPLY)
B.2	1: EP-BRAKE CONTROL VALVE (VENT)
B.3	1: EMERGENCY VALVE
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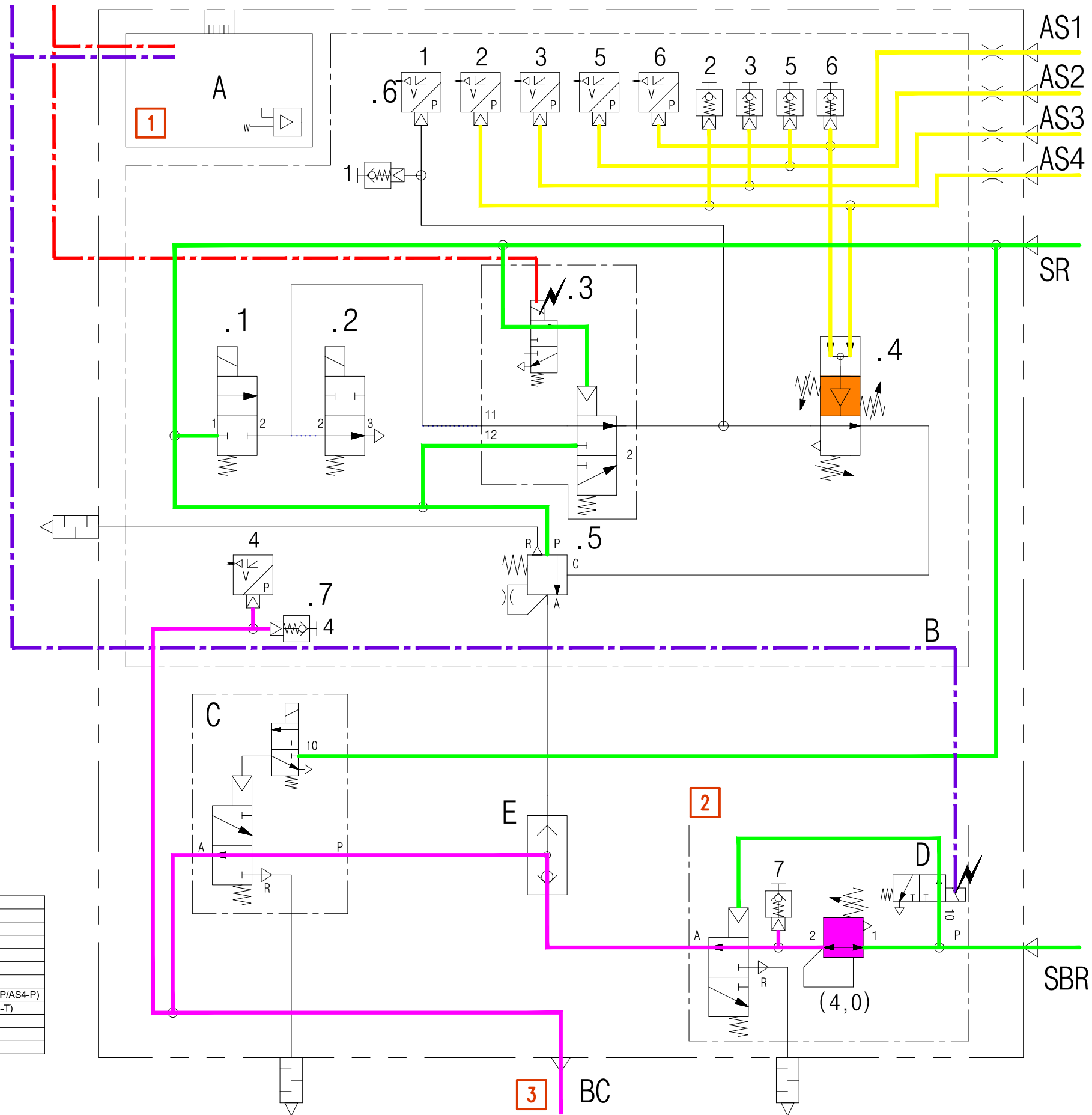
비상제동 작용도

A	1: ELECTRONIC CONTROL UNIT(ECU)
B	1: MAIN BRAKE VALVE
B.1	1: EP-BRAKE CONTROL VALVE (SUPPLY)
B.2	1: EP-BRAKE CONTROL VALVE (VENT)
B.3	1: EMERGENCY VALVE
B.4	1: LOAD COMPENSATION VALVE
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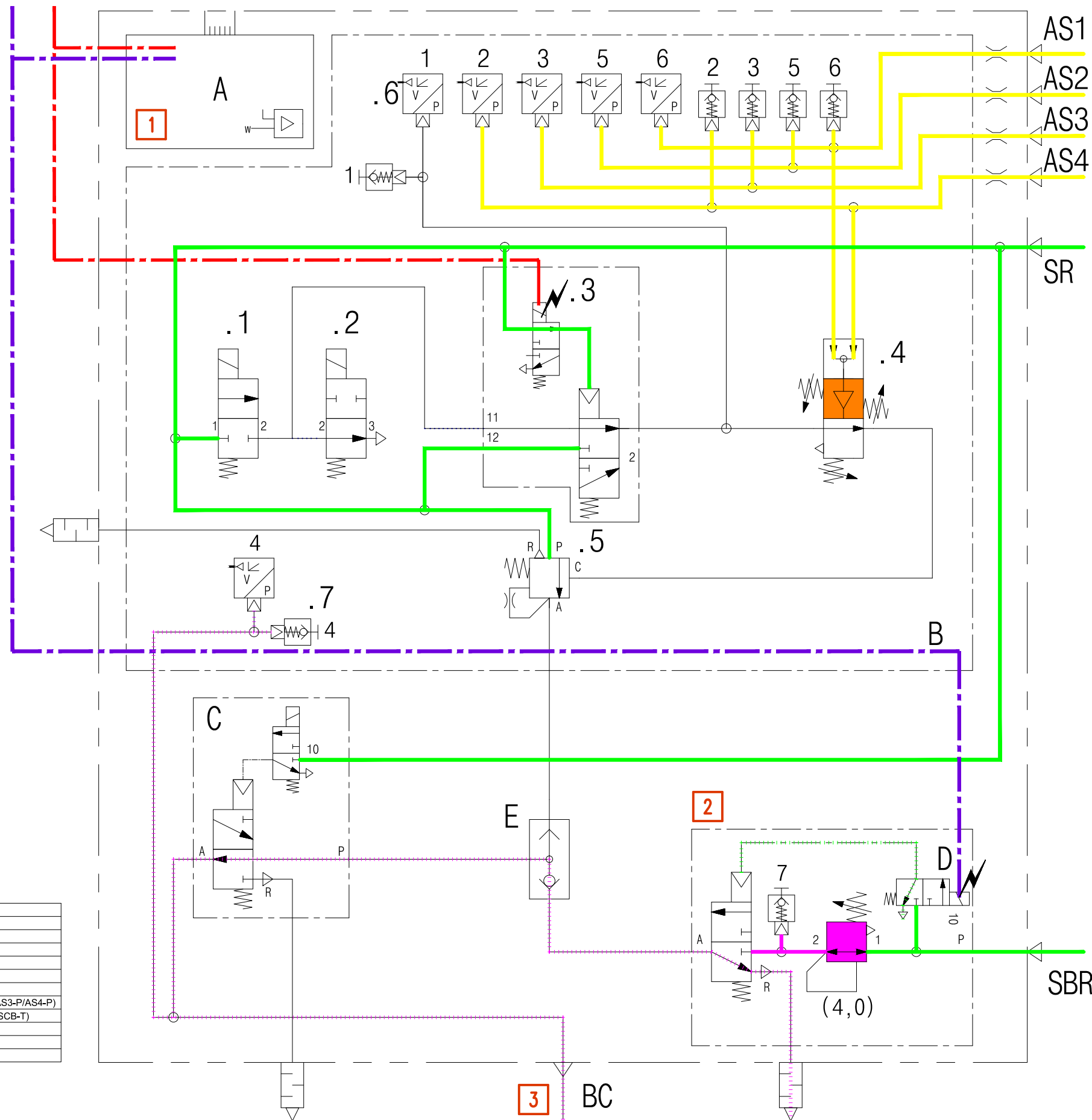
비상제동 완해도

A	1: ELECTRONIC CONTROL UNIT(ECU)
B	1: MAIN BRAKE VALVE
B.1	1: EP-BRAKE CONTROL VALVE (SUPPLY)
B.2	1: EP-BRAKE CONTROL VALVE (VENT)
B.3	1: EMERGENCY VALVE
B.4	1: LOAD COMPENSATION VALVE
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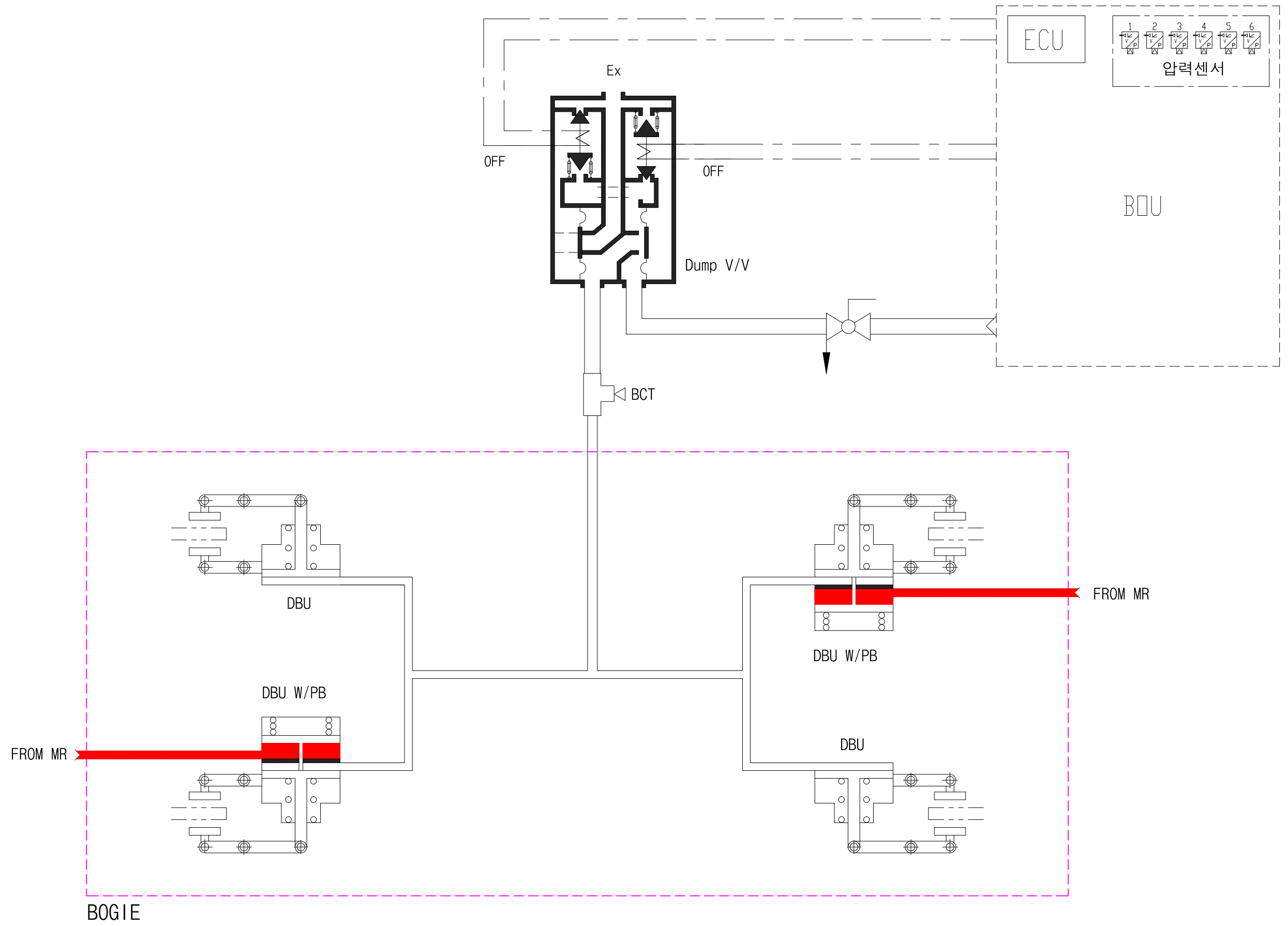
보안제동 작용도

A	1: ELECTRONIC CONTROL UNIT(ECU)
B	1: MAIN BRAKE VALVE
B.1	1: EP-BRAKE CONTROL VALVE (SUPPLY)
B.2	1: EP-BRAKE CONTROL VALVE (VENT)
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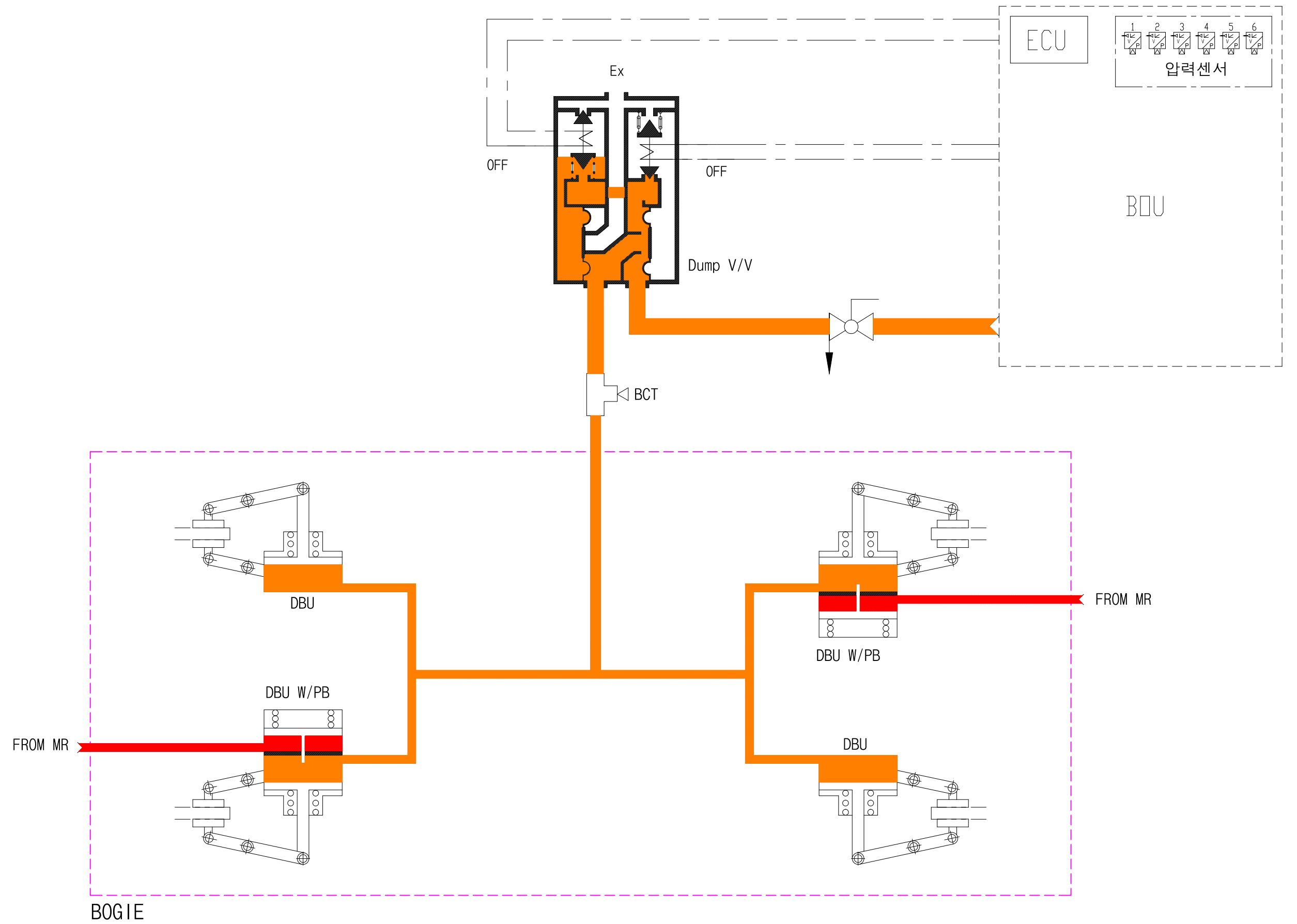


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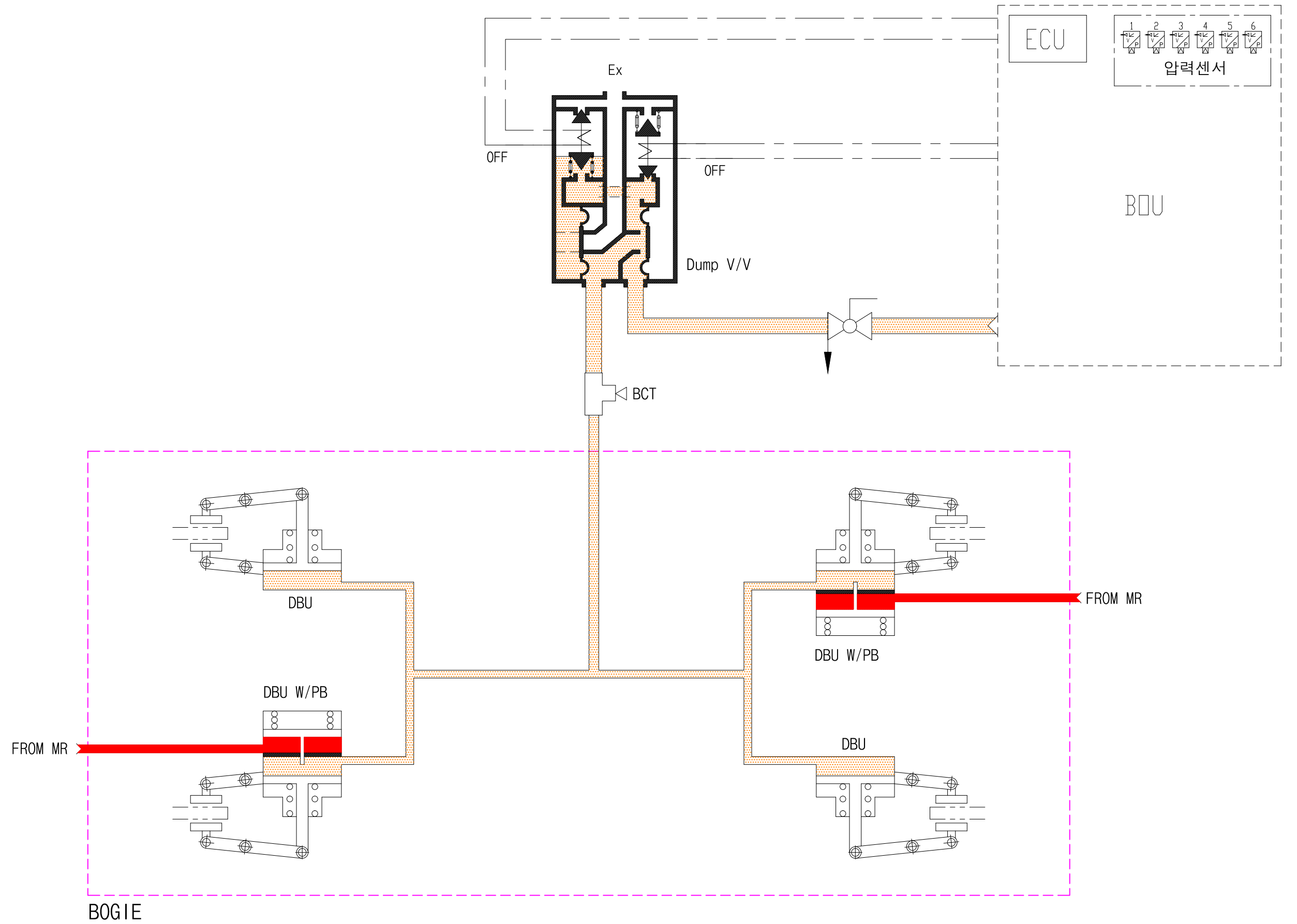
보안제동 완해도



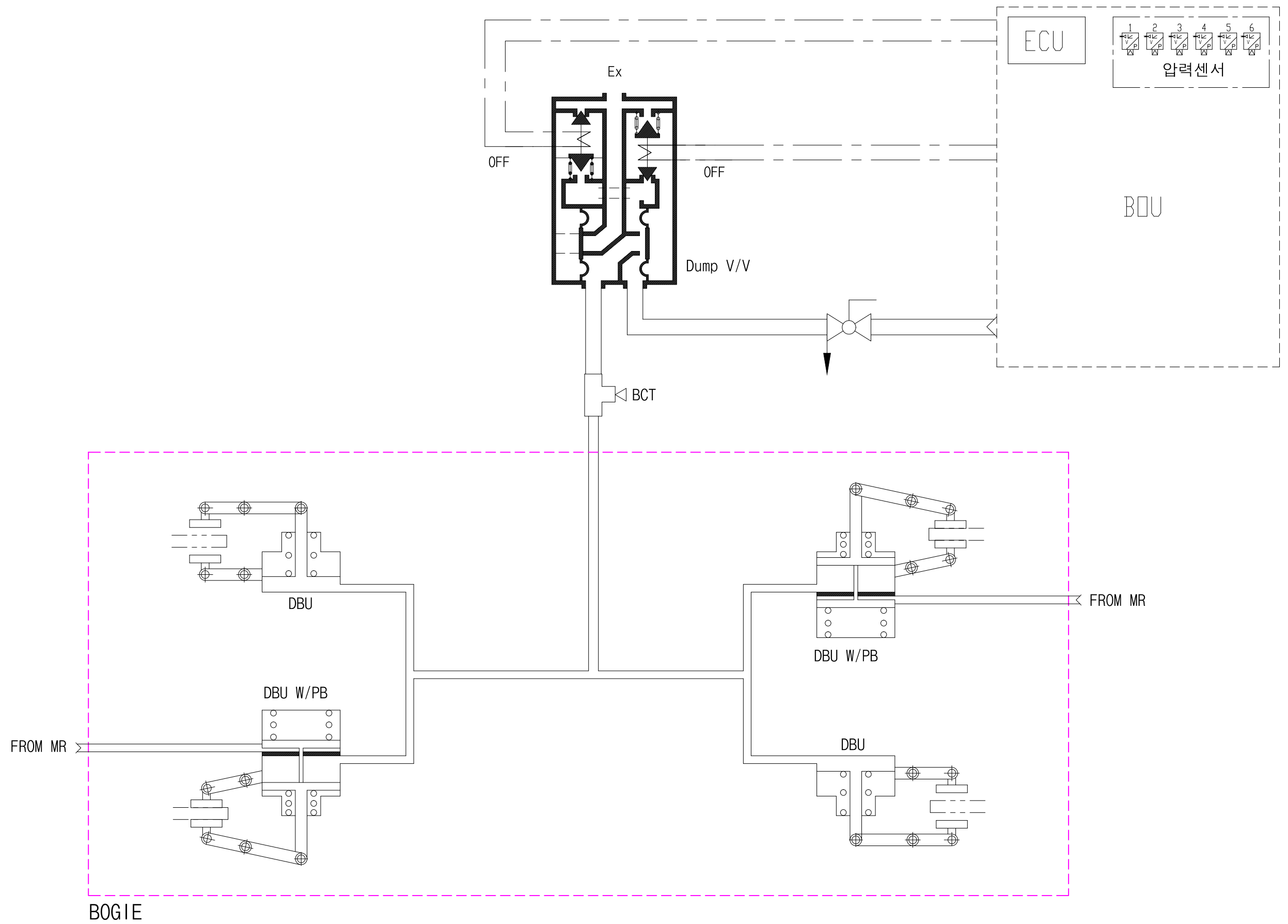
BRAKE AIR DIAGRAM (Tc-CAR 주행위치)



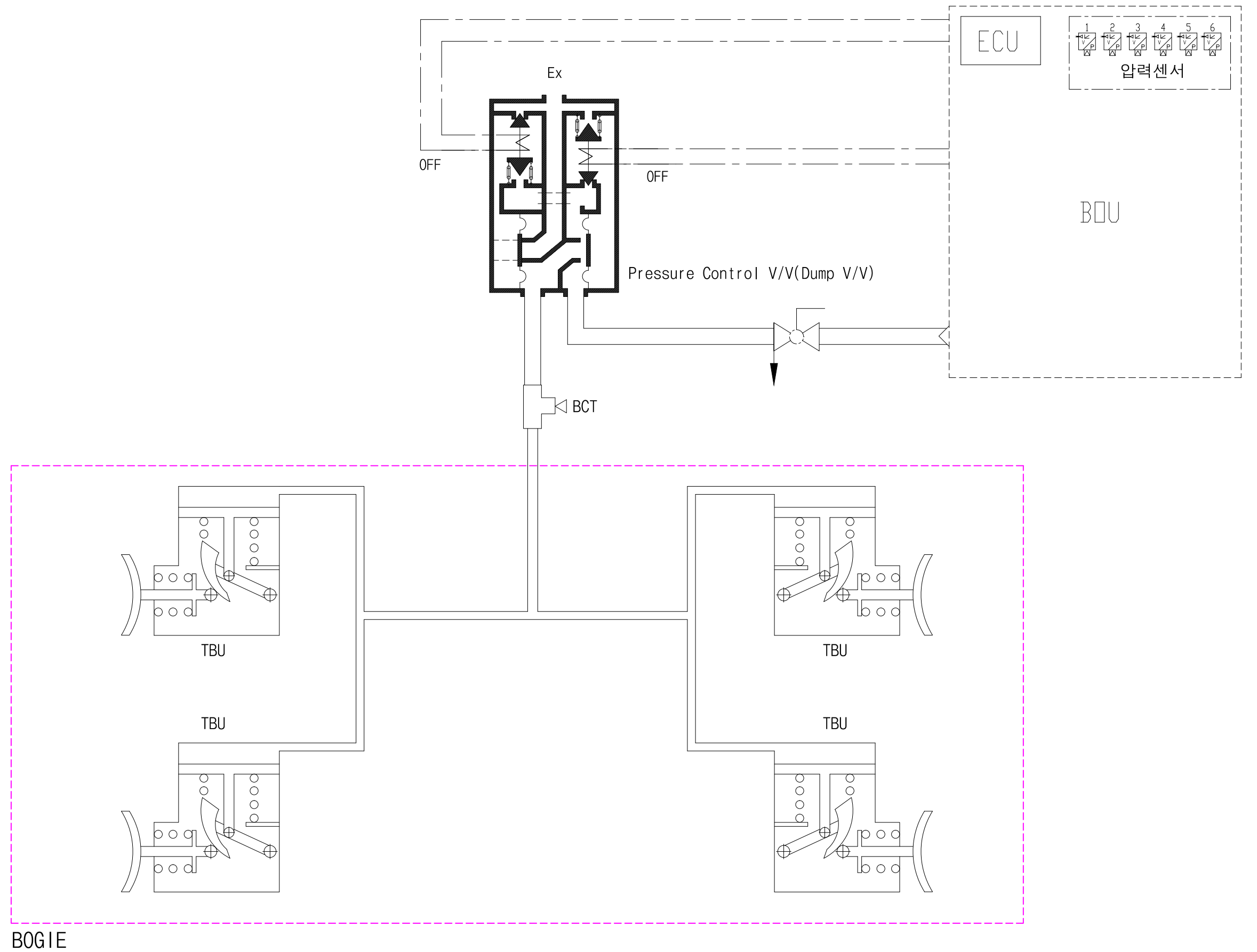
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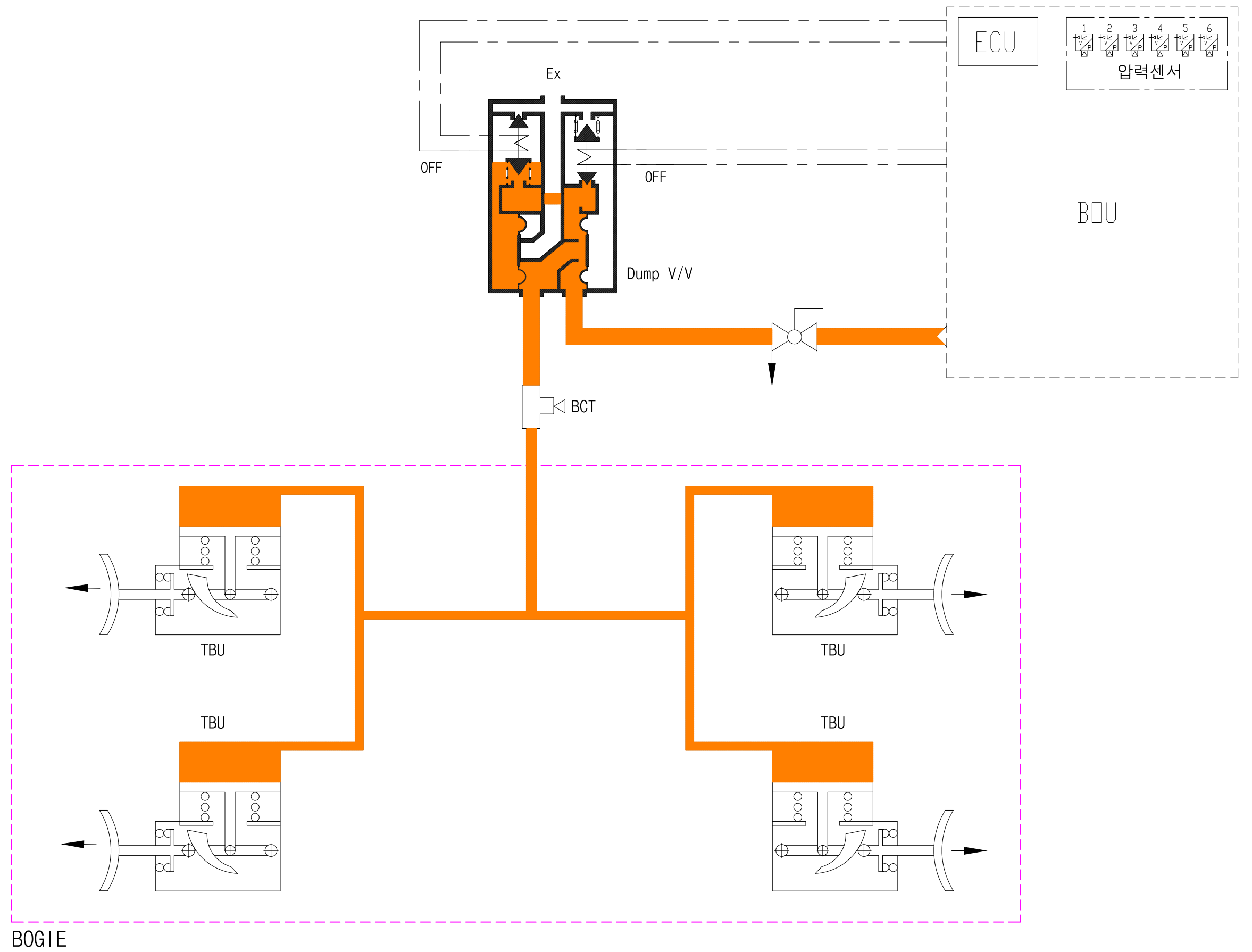
BRAKE AIR DIAGRAM (Tc-CAR 완해위치)



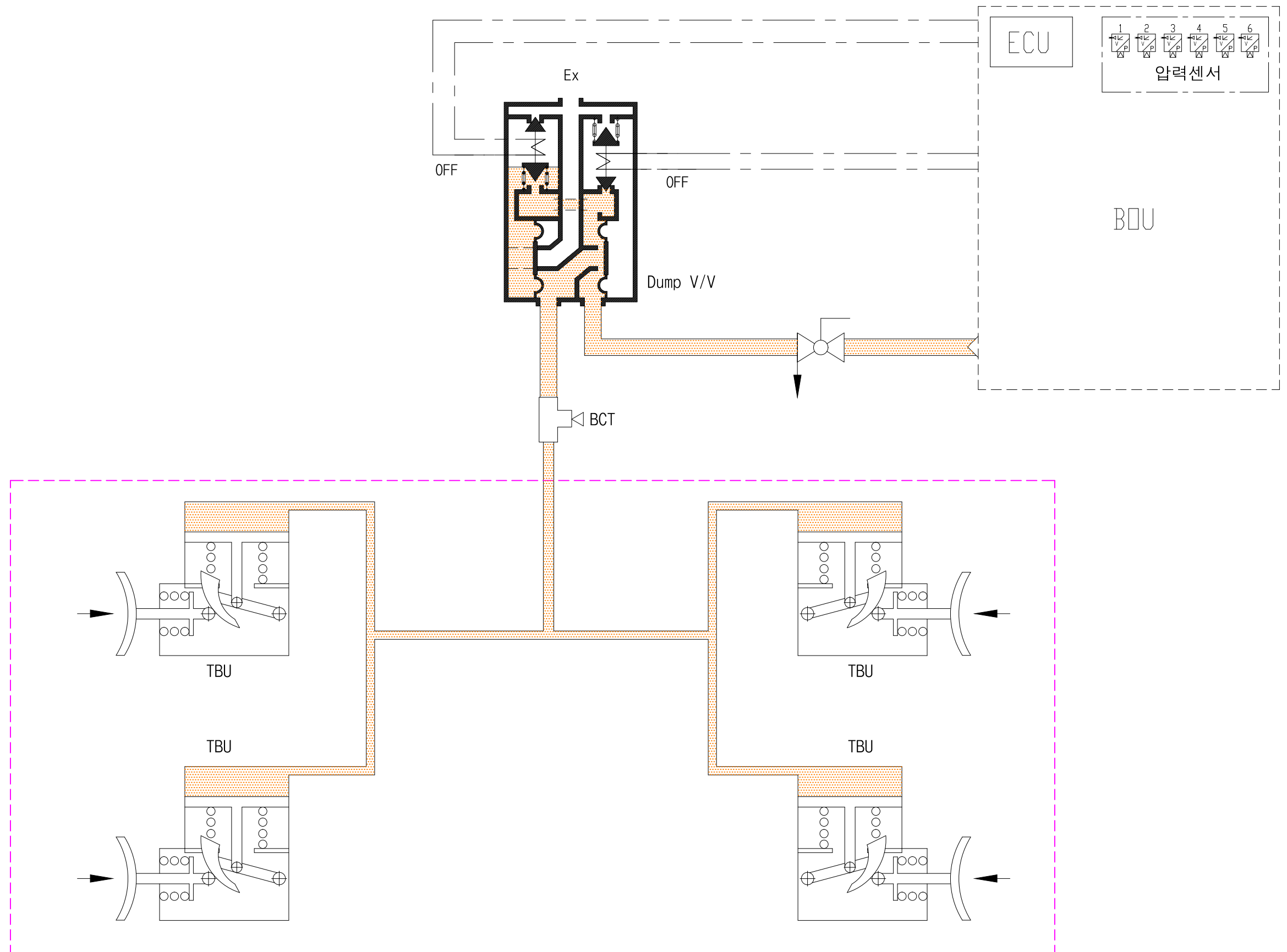
BRAKE AIR DIAGRAM (Tc-CAR 주차제동위치)



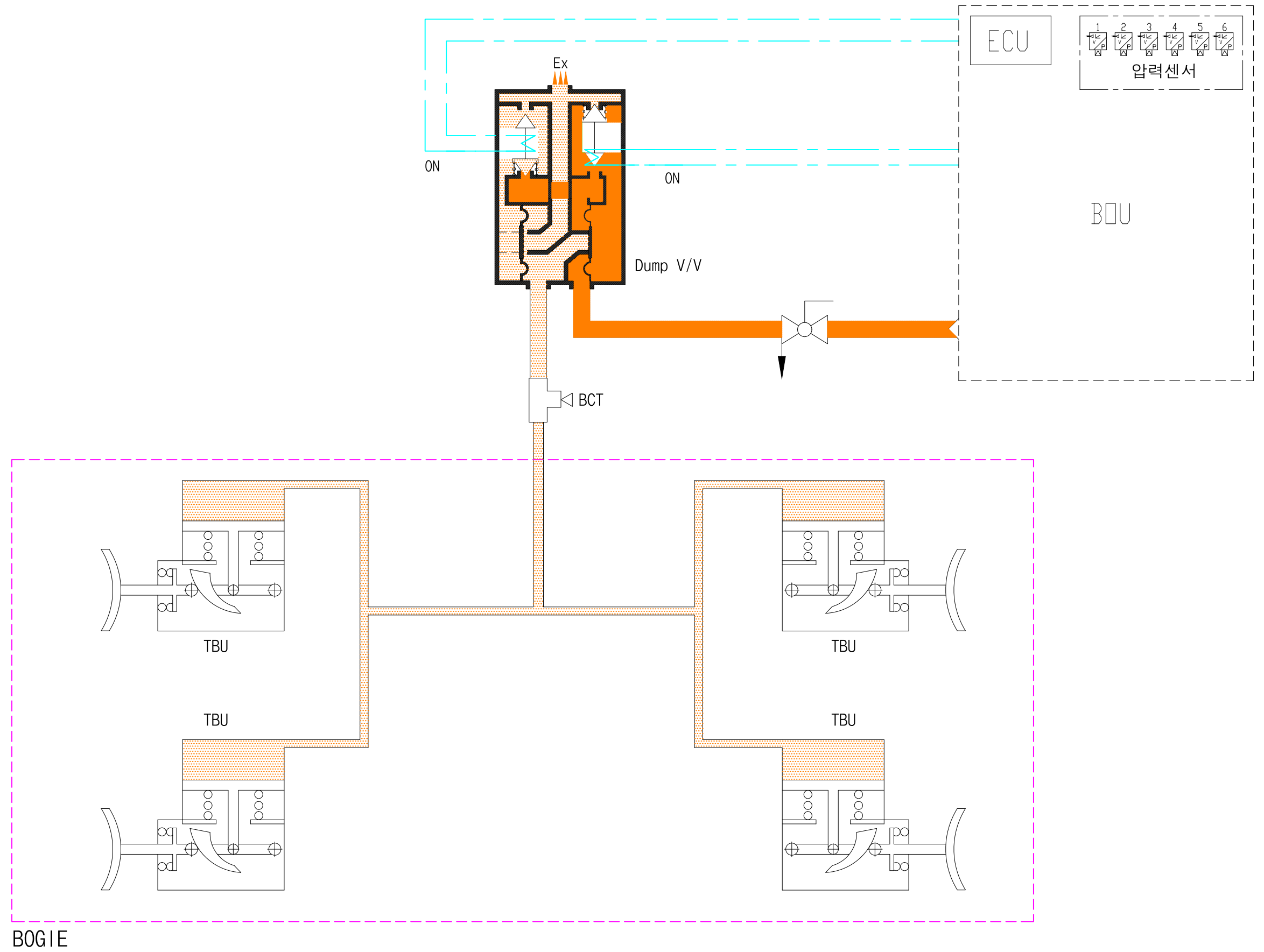
BRAKE AIR DIAGRAM (M-CAR 운전위치)



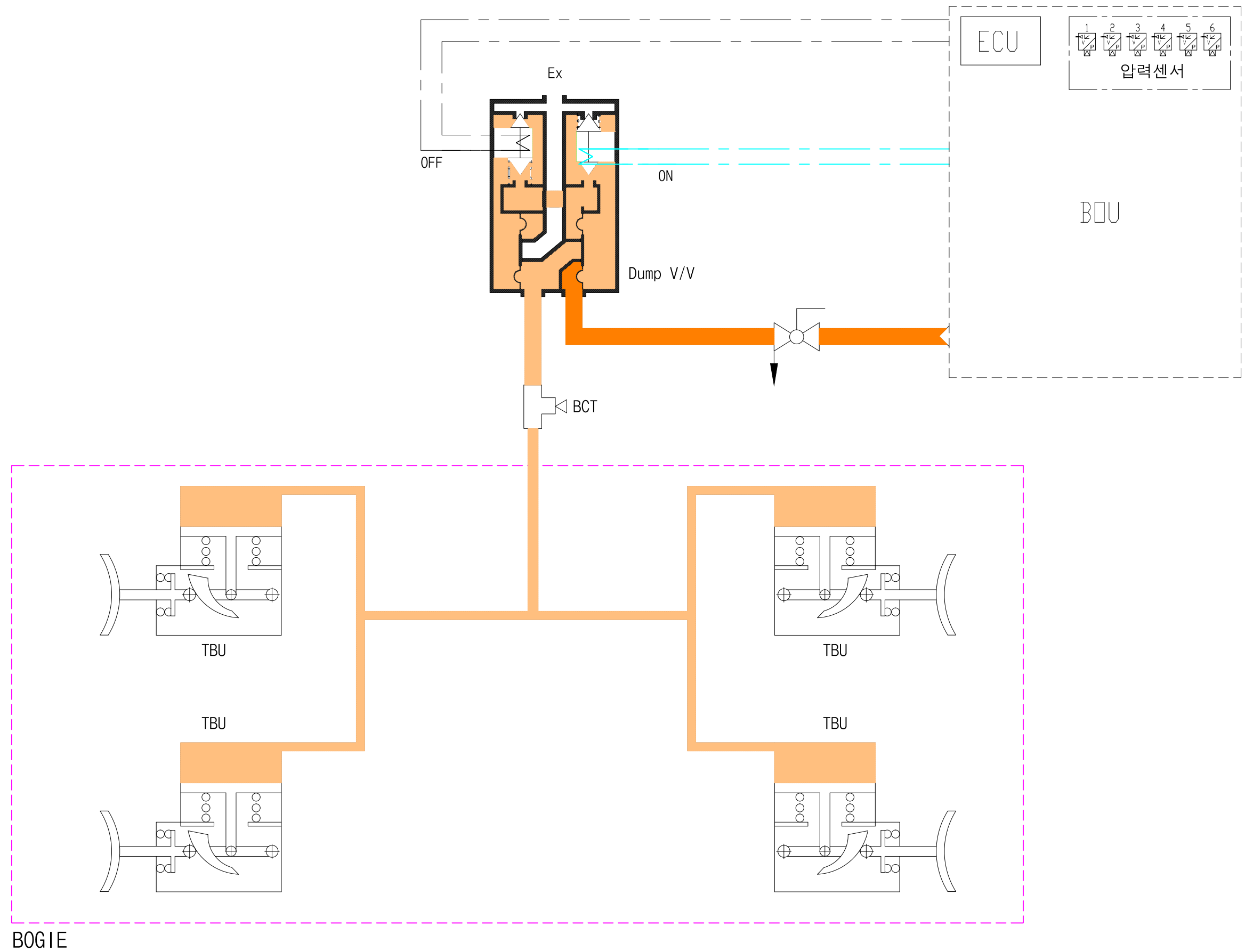
BRAKE AIR DIAGRAM (M-CAR 제동위치)



BRAKE AIR DIAGRAM (M-CAR 완해위치)



BRAKE AIR DIAGRAM (M-CAR 제동완해작용-덤프밸브작동)



BRAKE AIR DIAGRAM (M-CAR 제동유지작용-덤프밸브중립)