

CHAPTER

73

**ENGINE FUEL AND
CONTROL**



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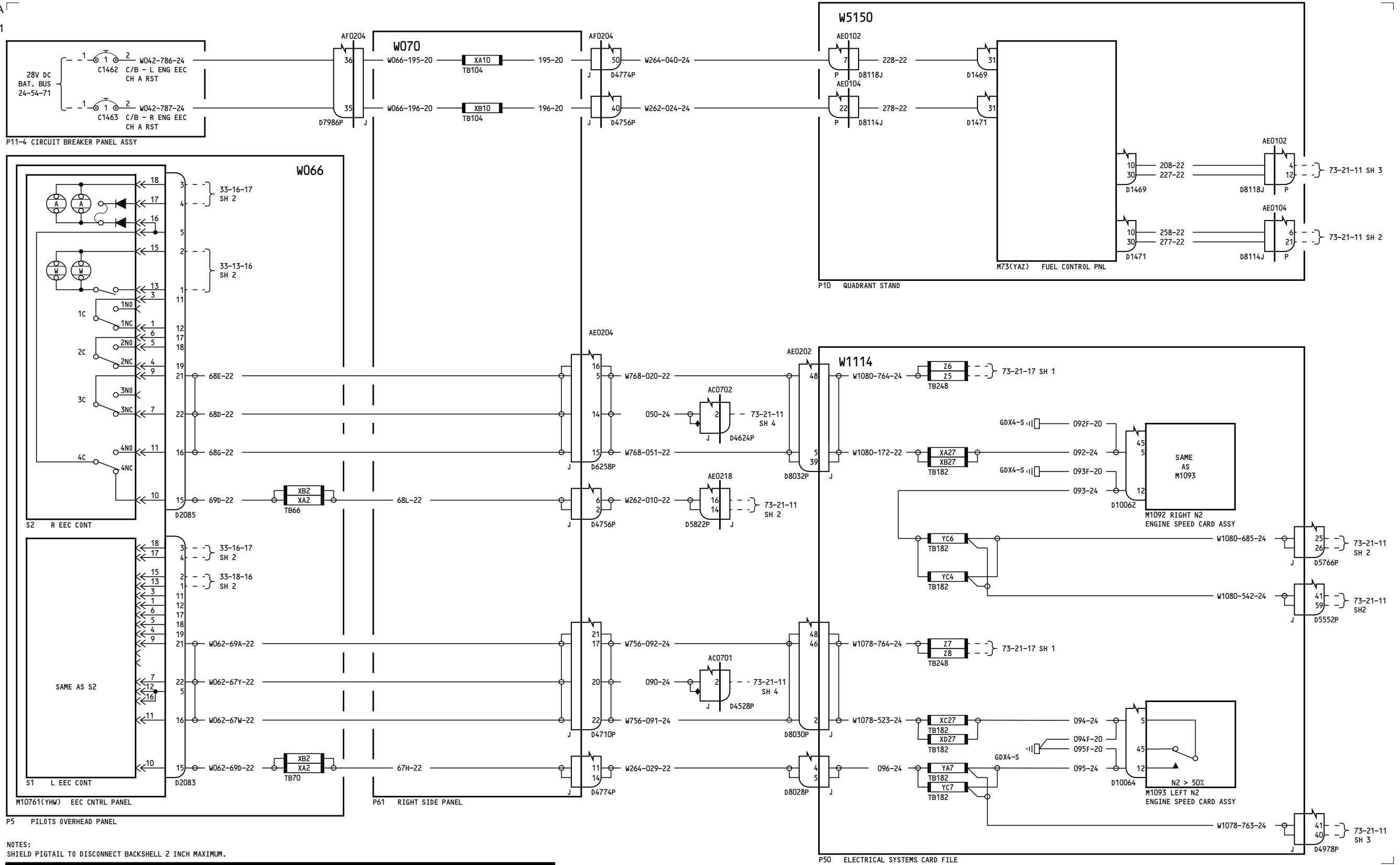
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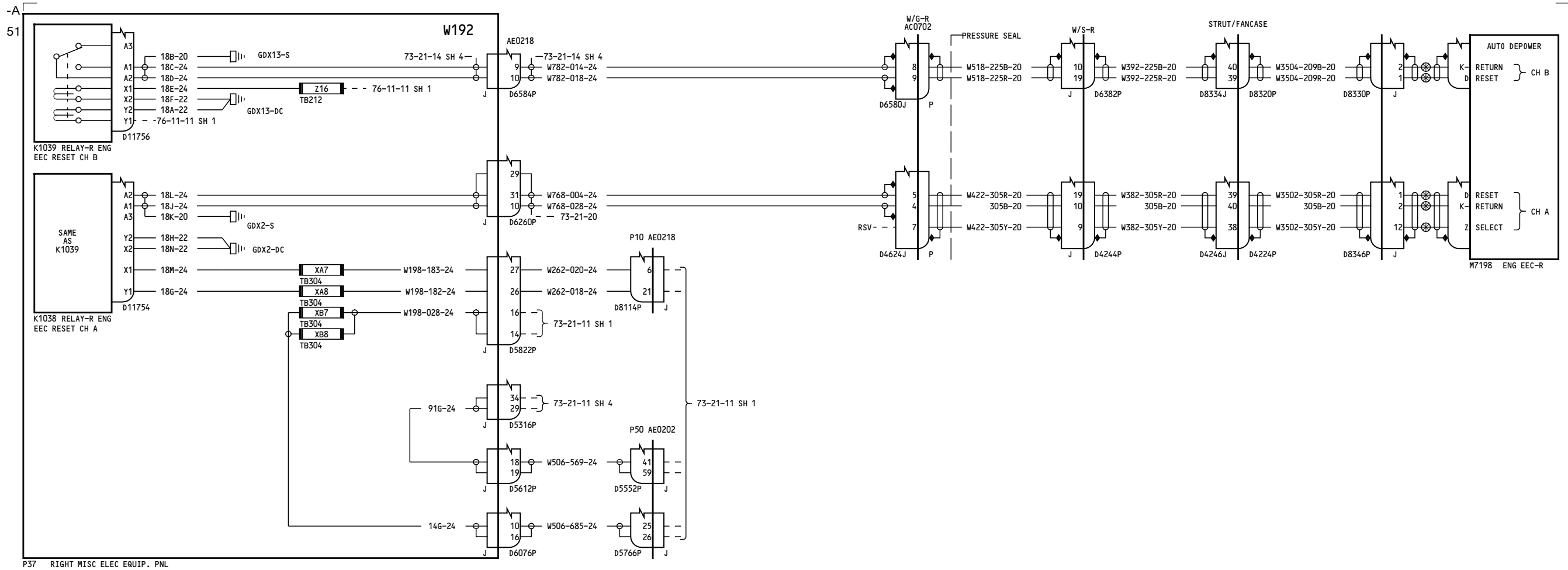
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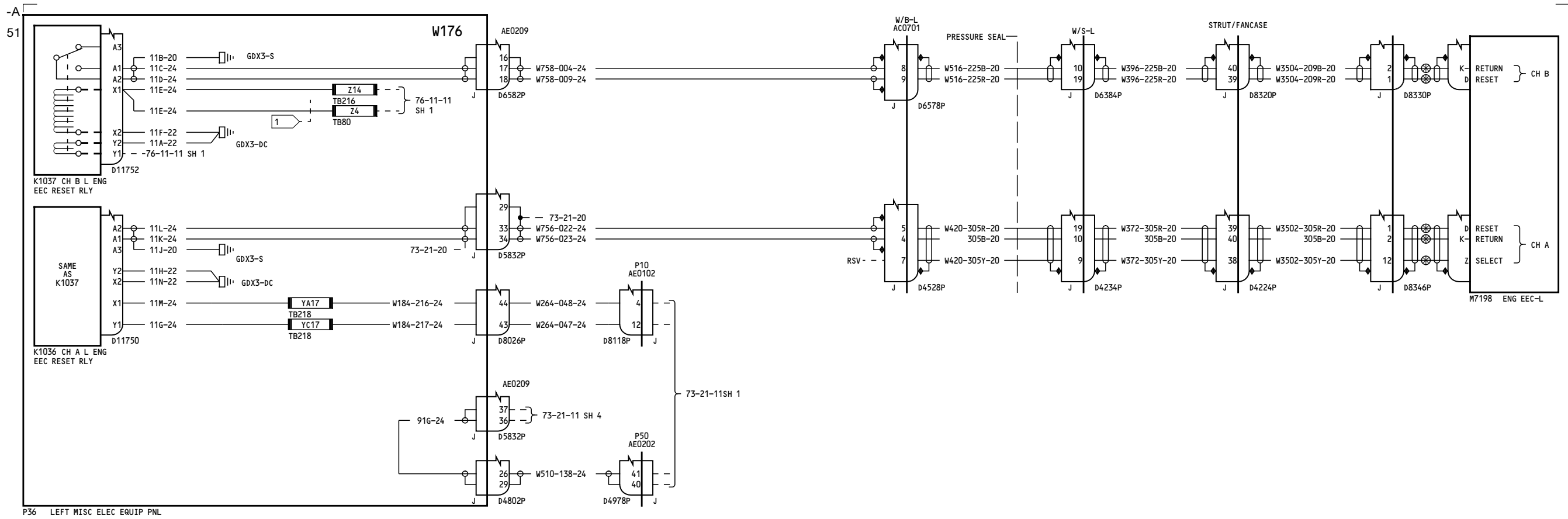
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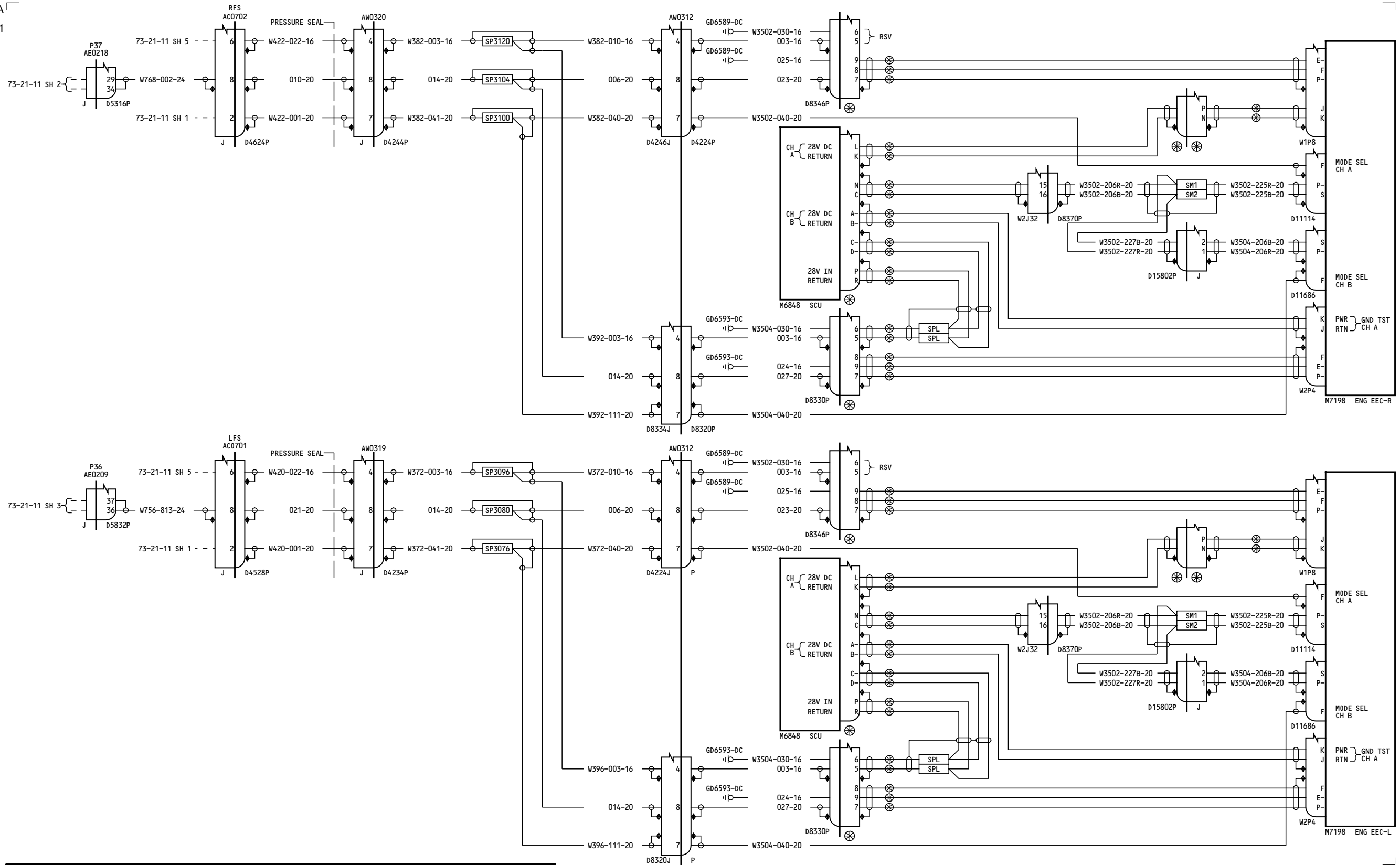
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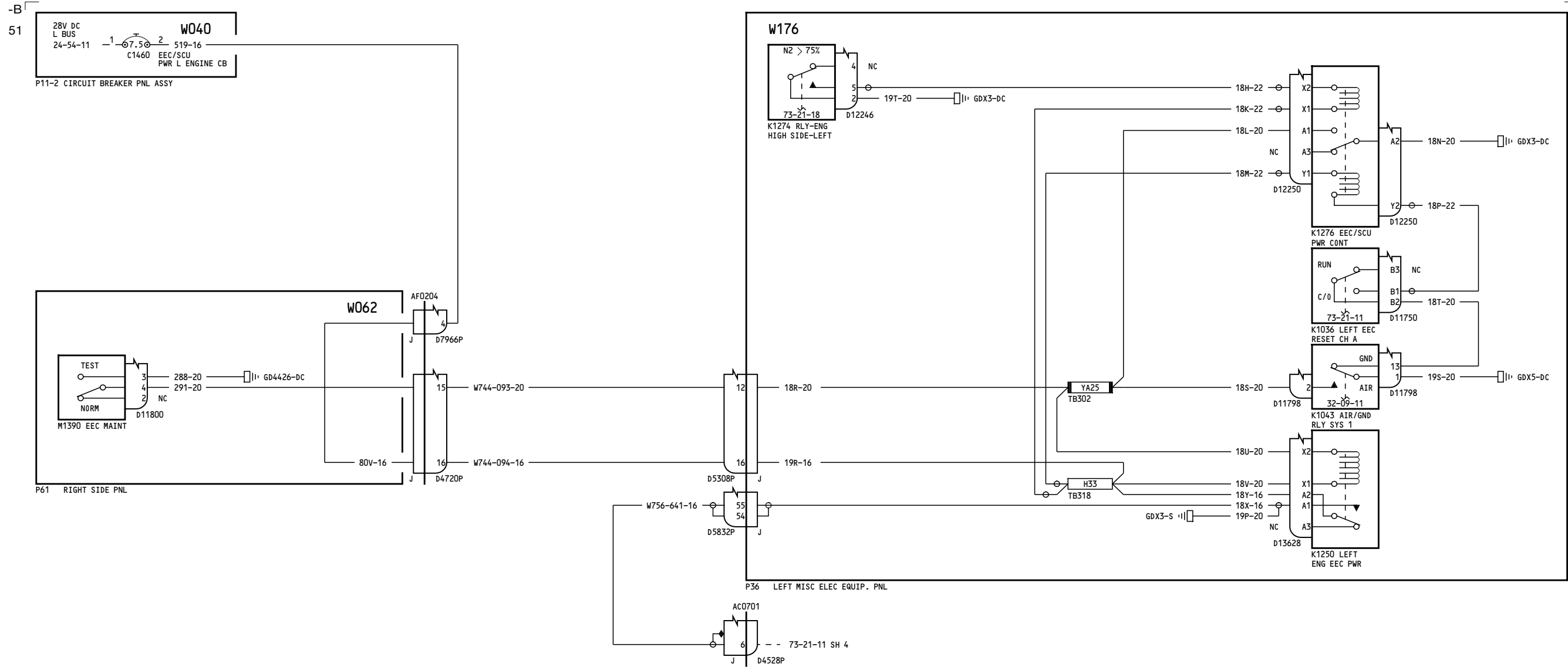
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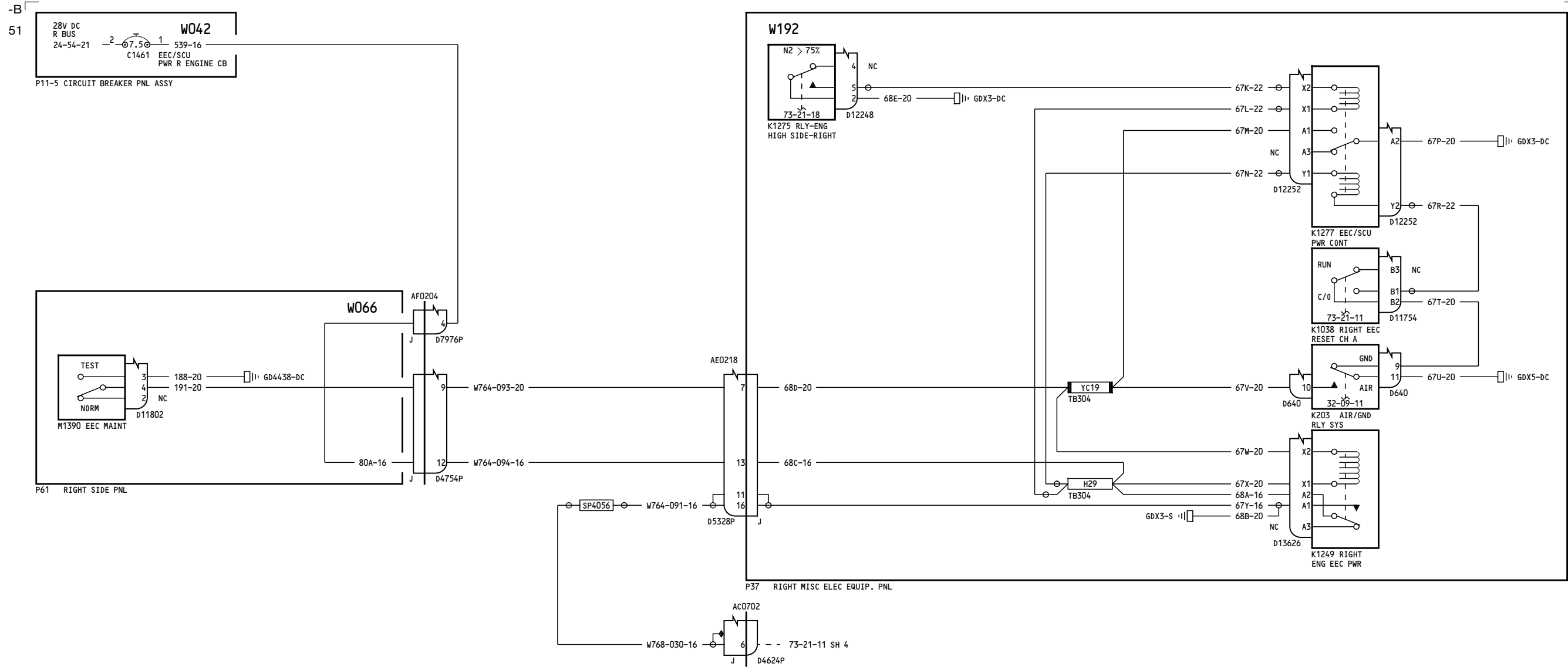
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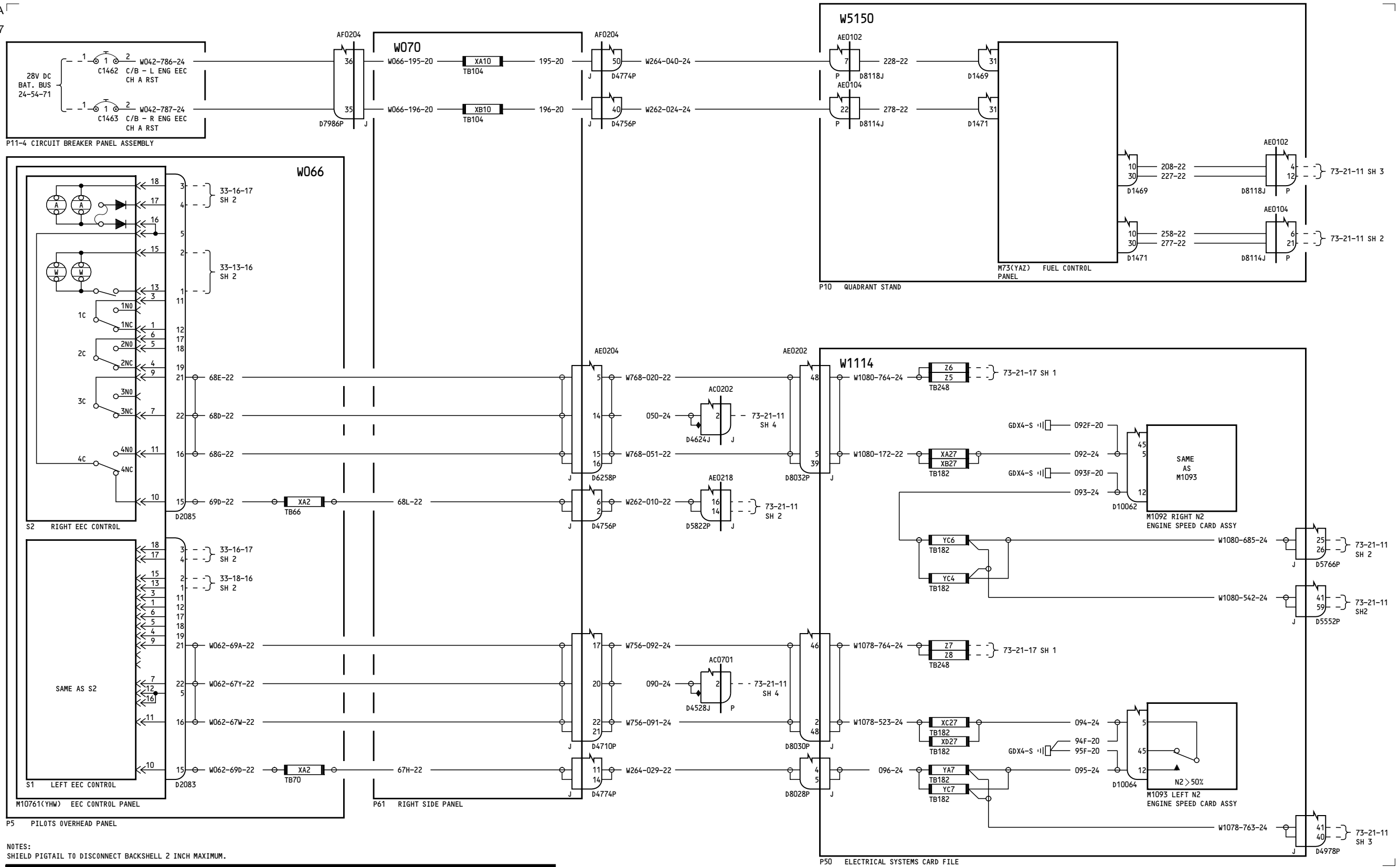
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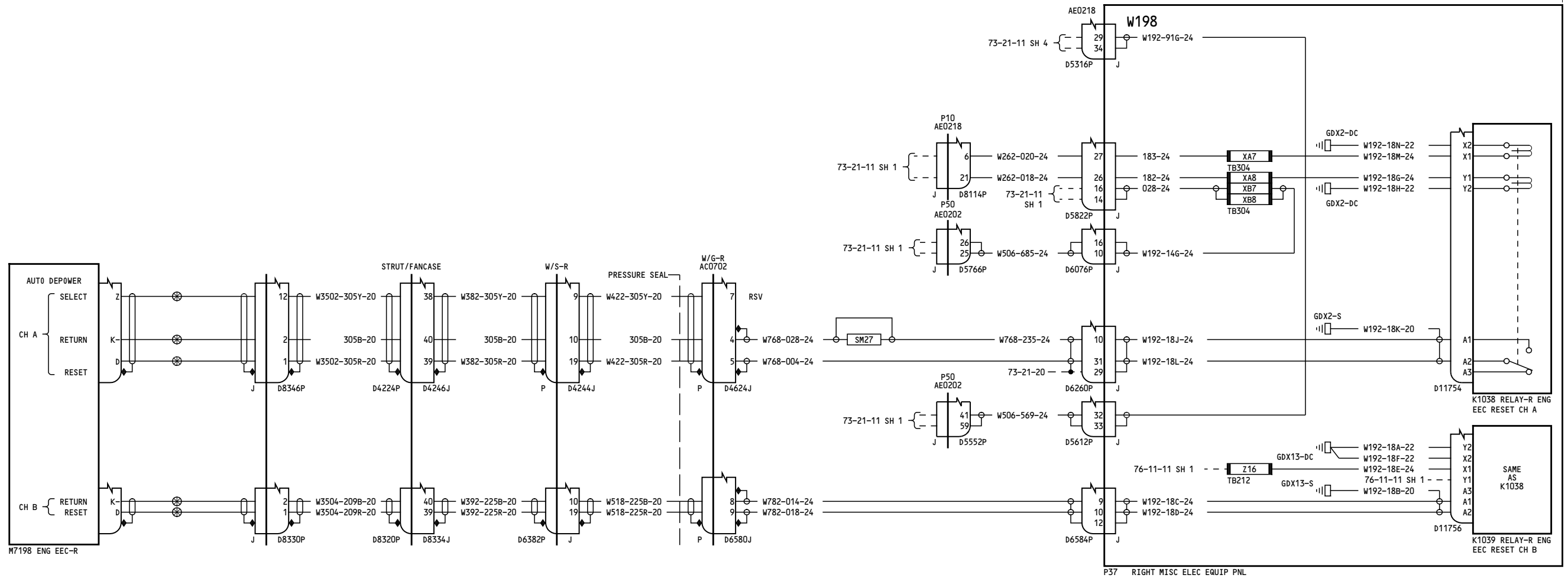
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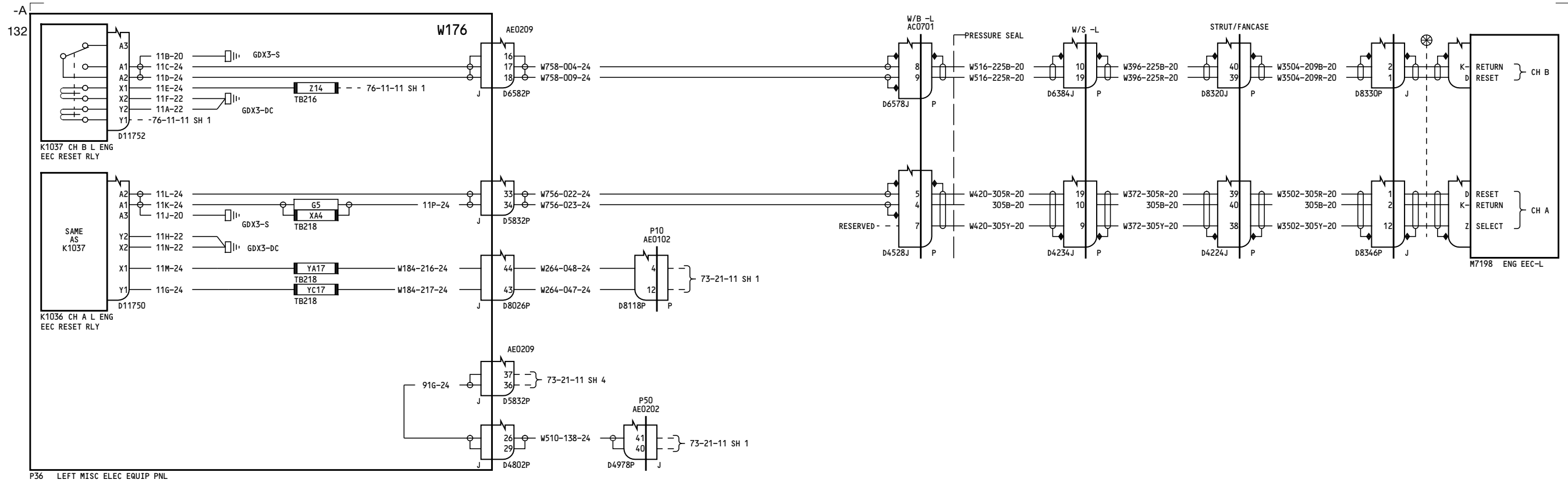
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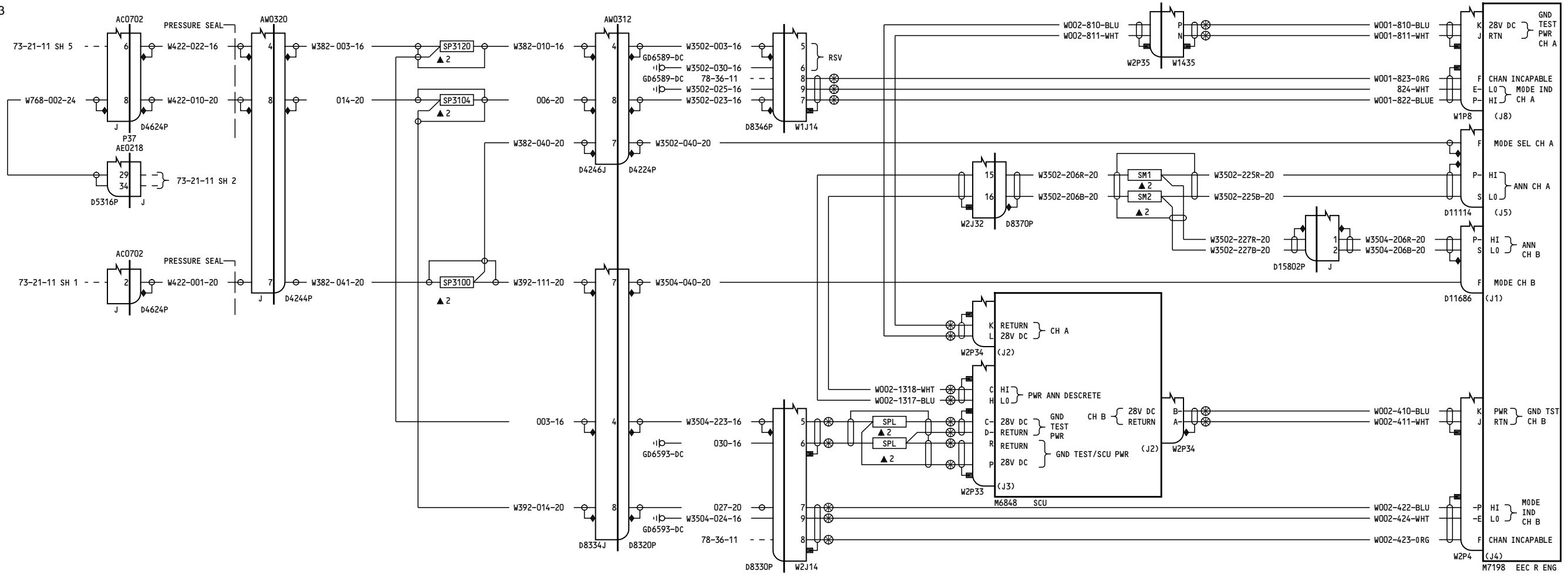
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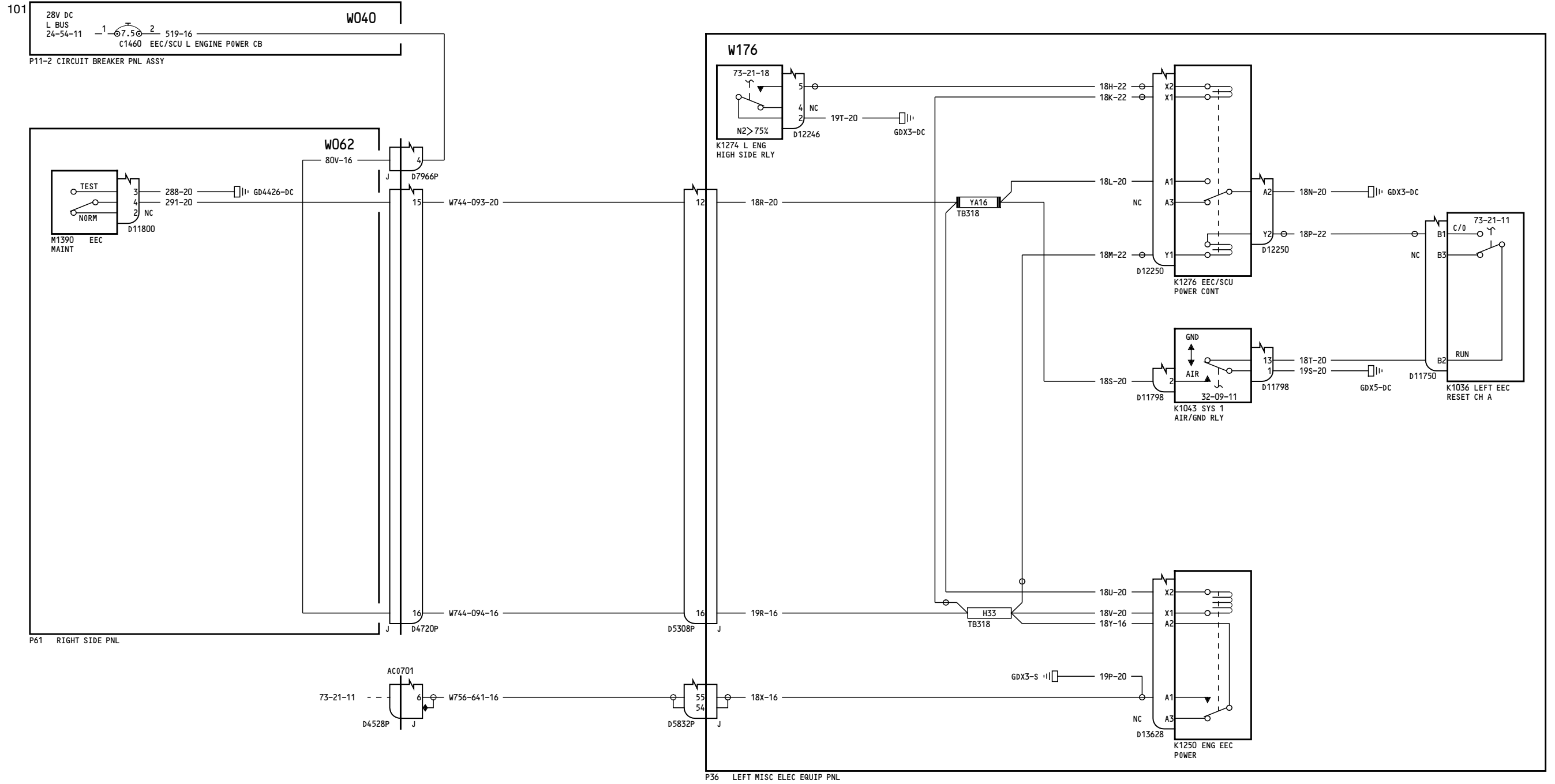
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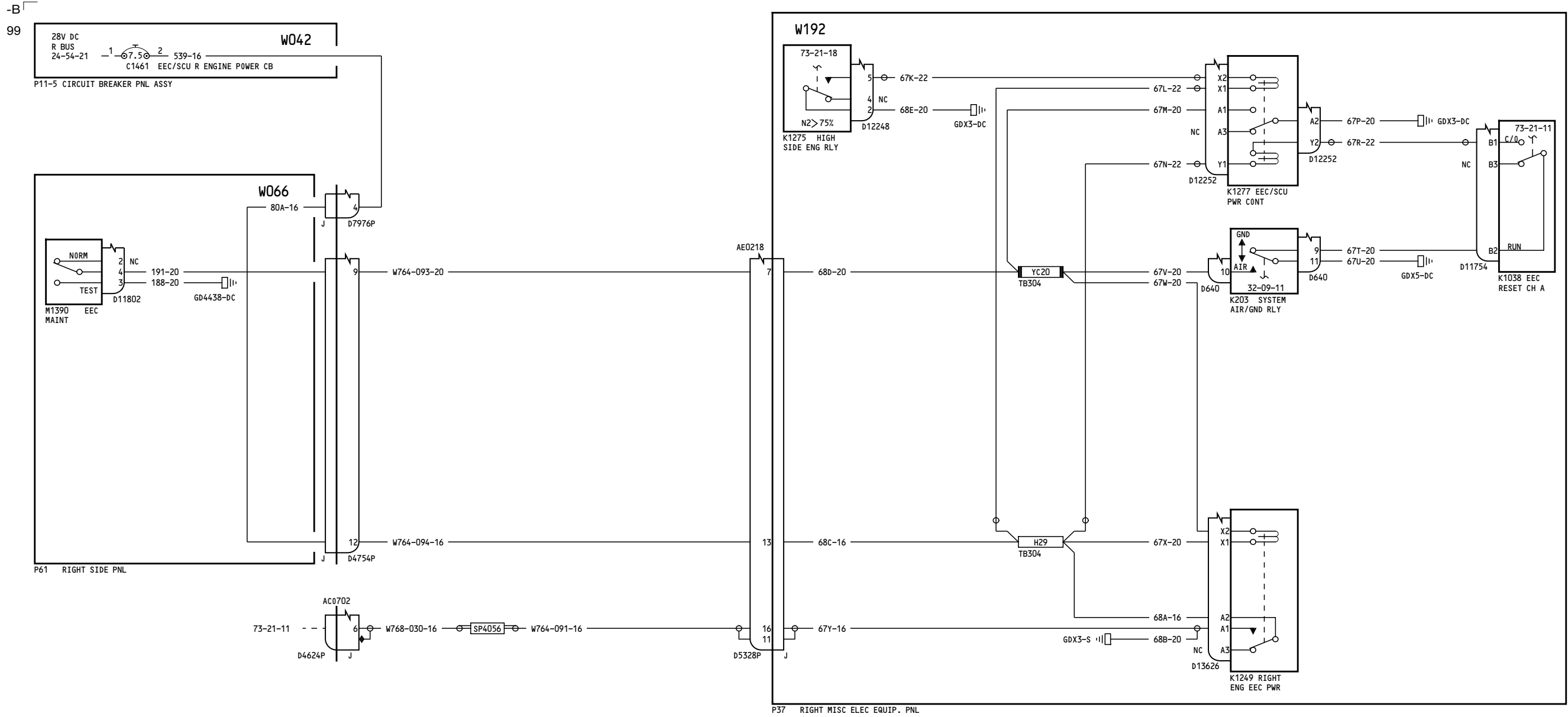
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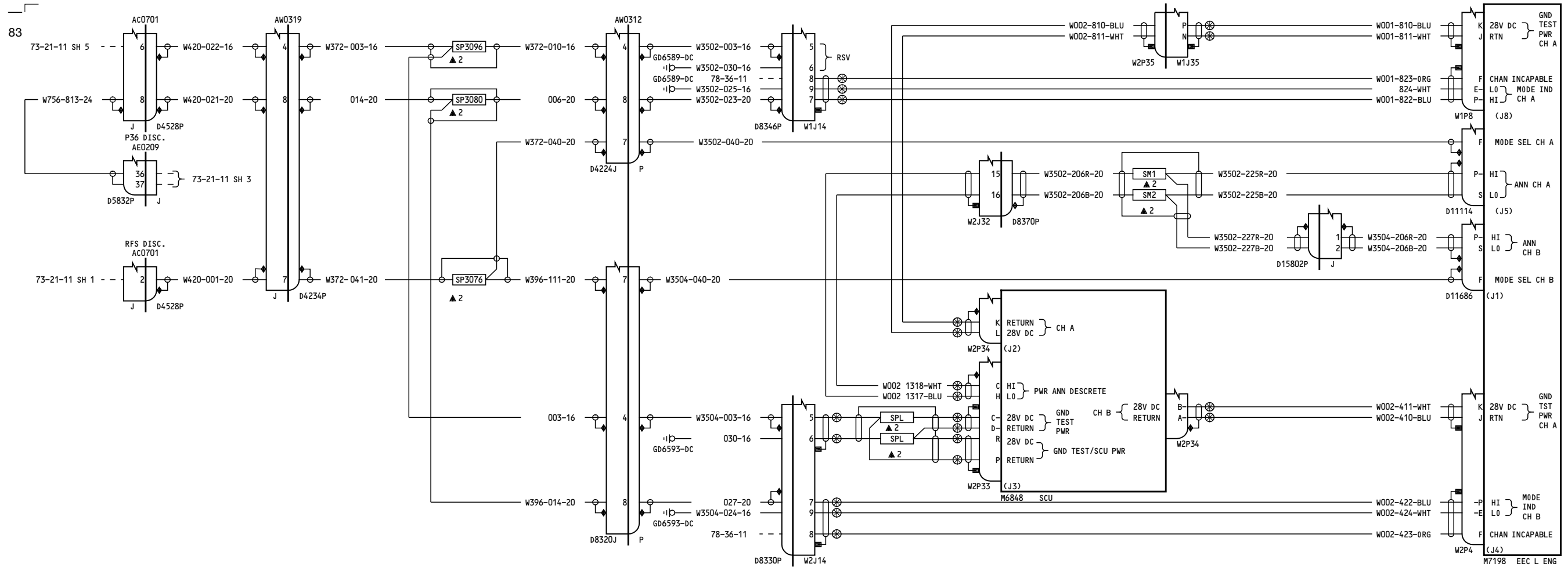
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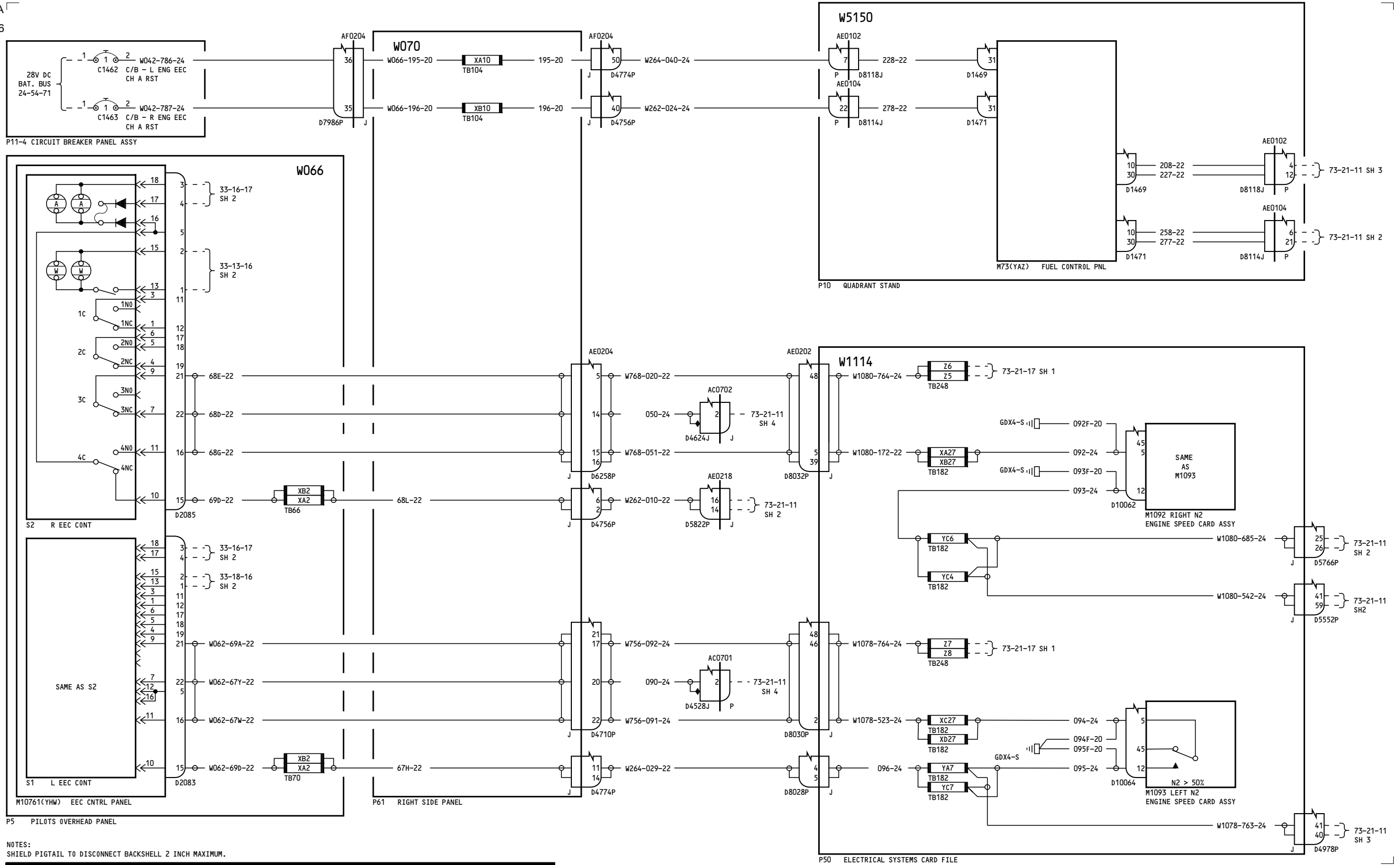
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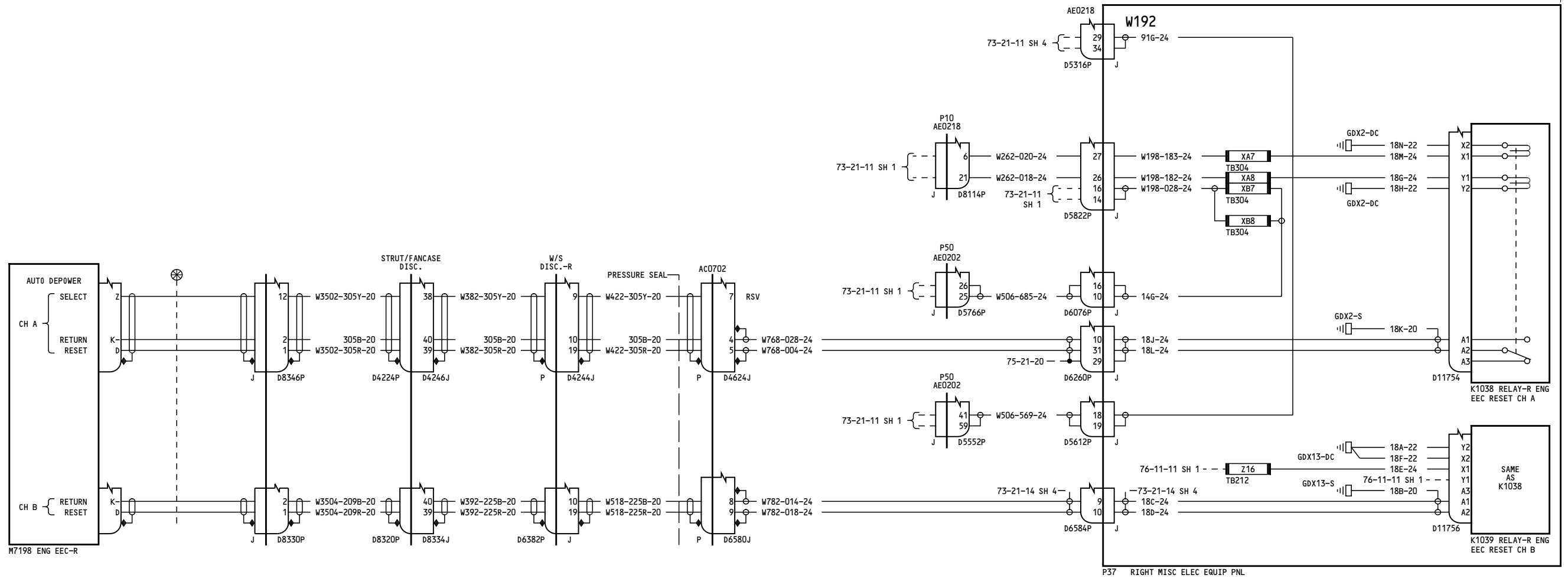
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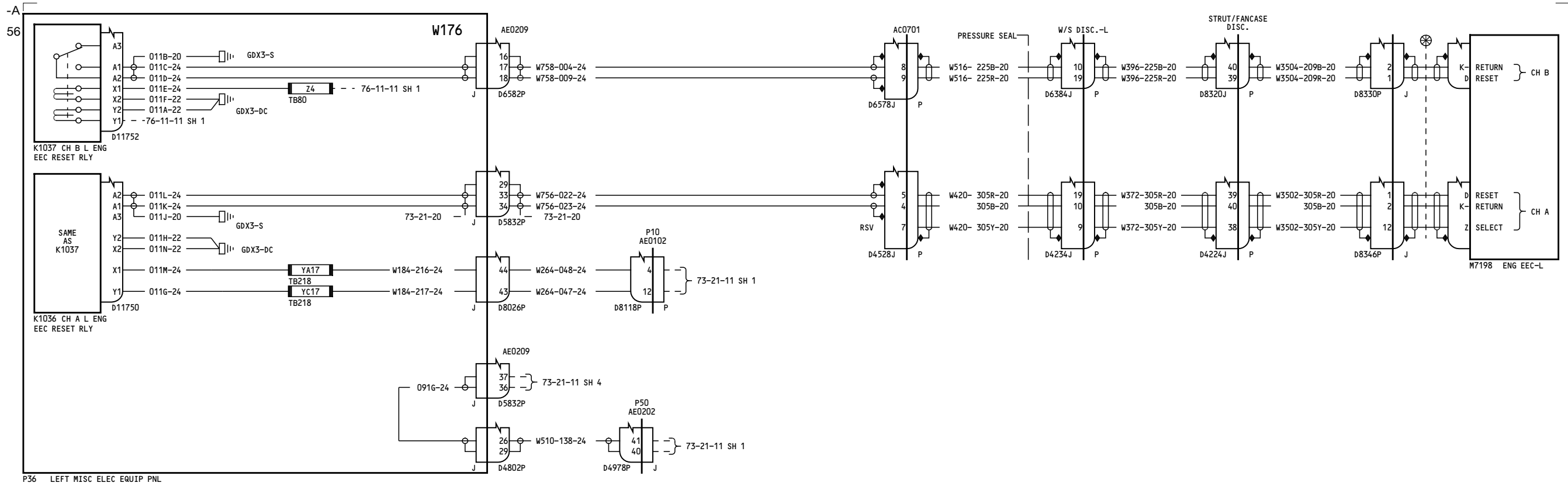
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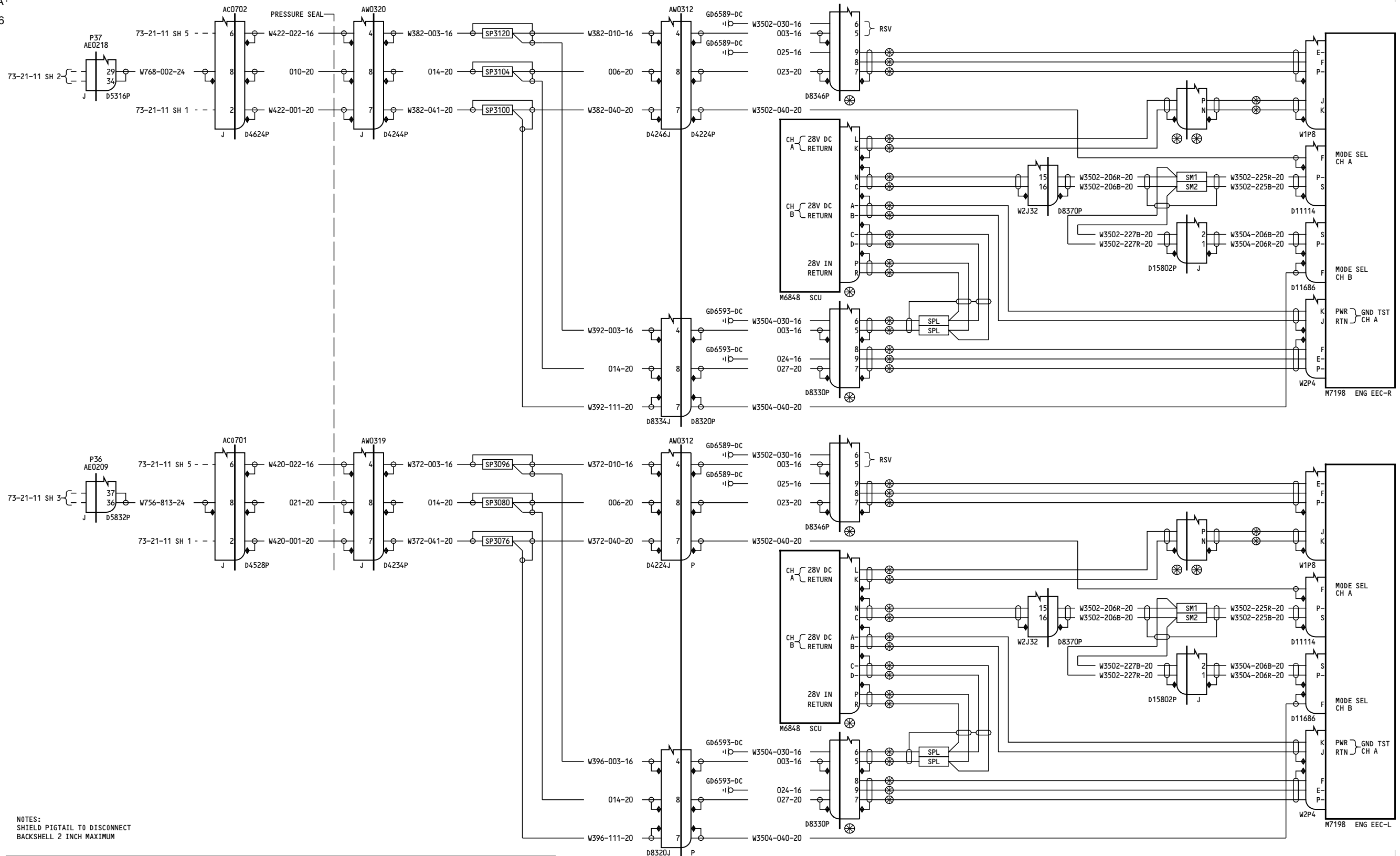
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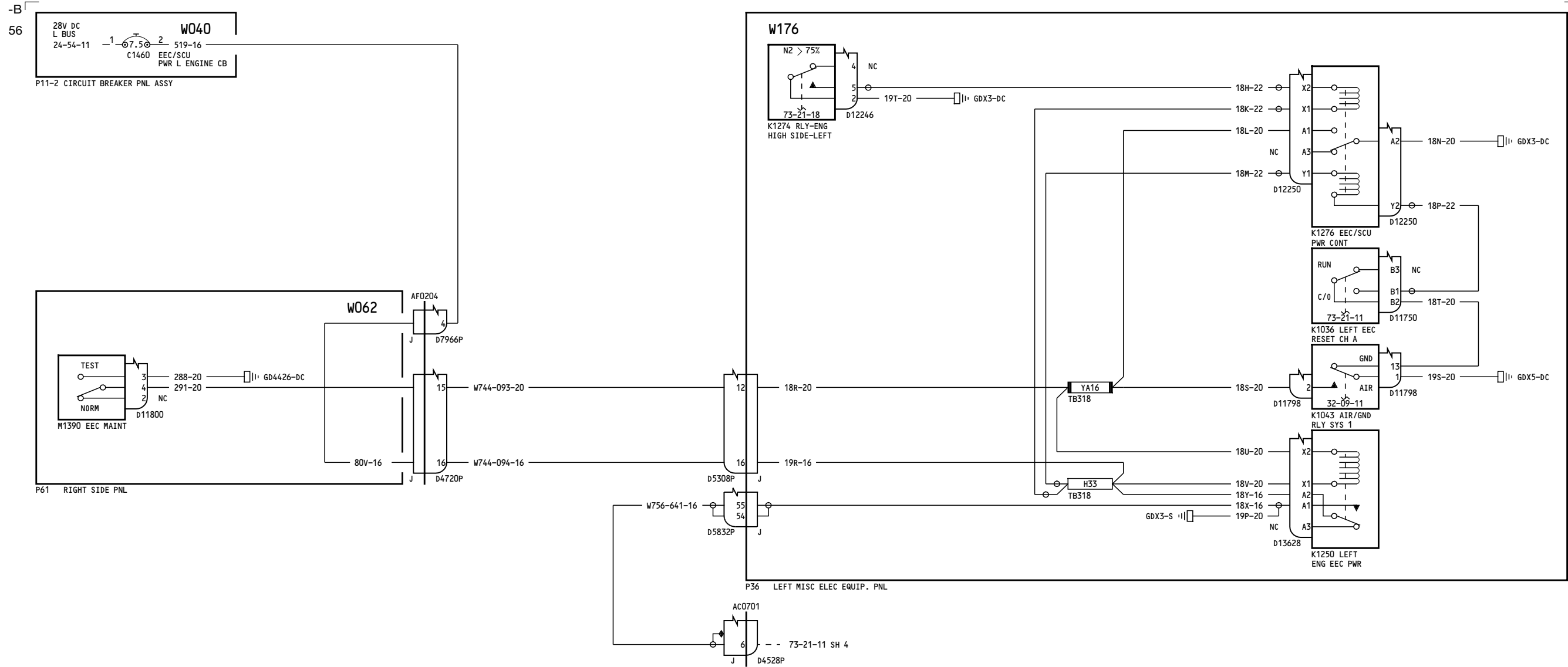
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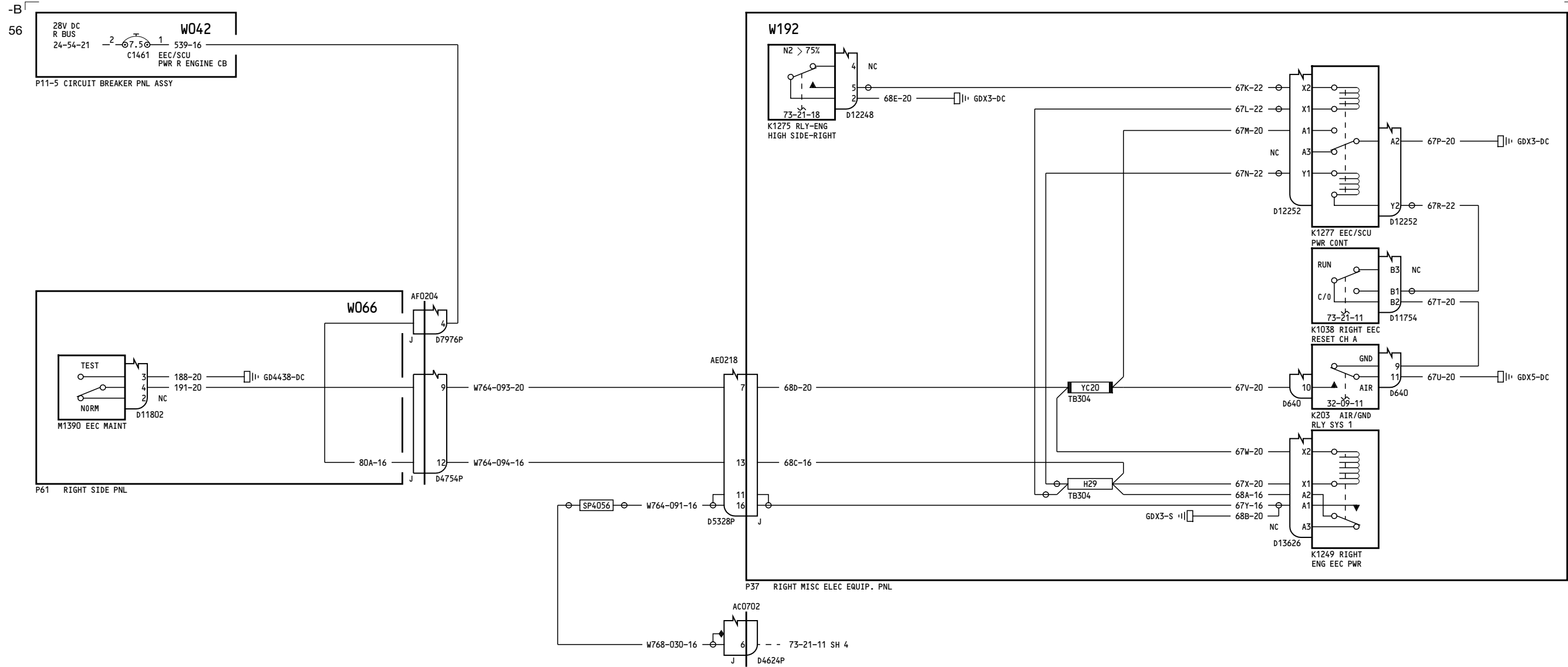
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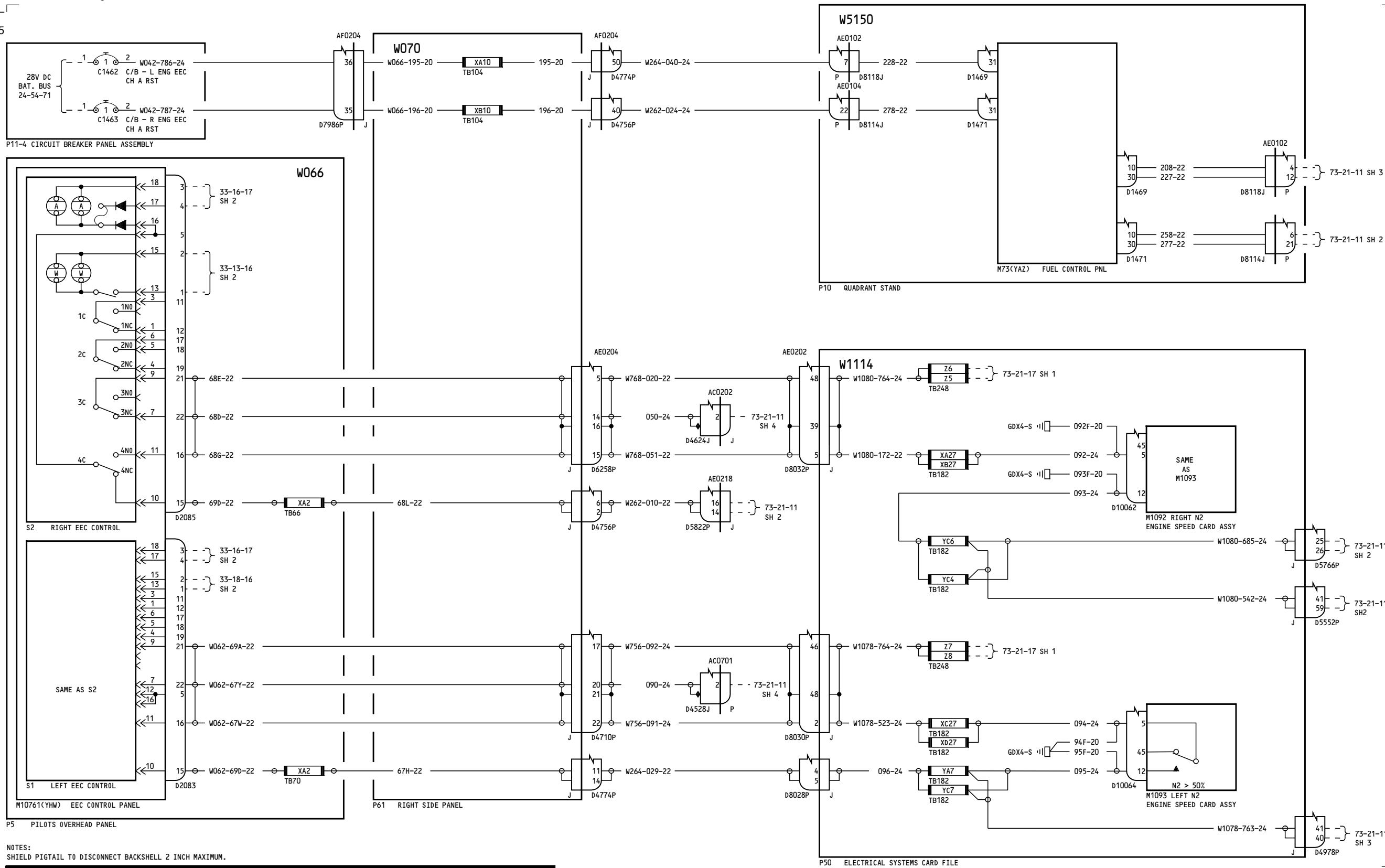
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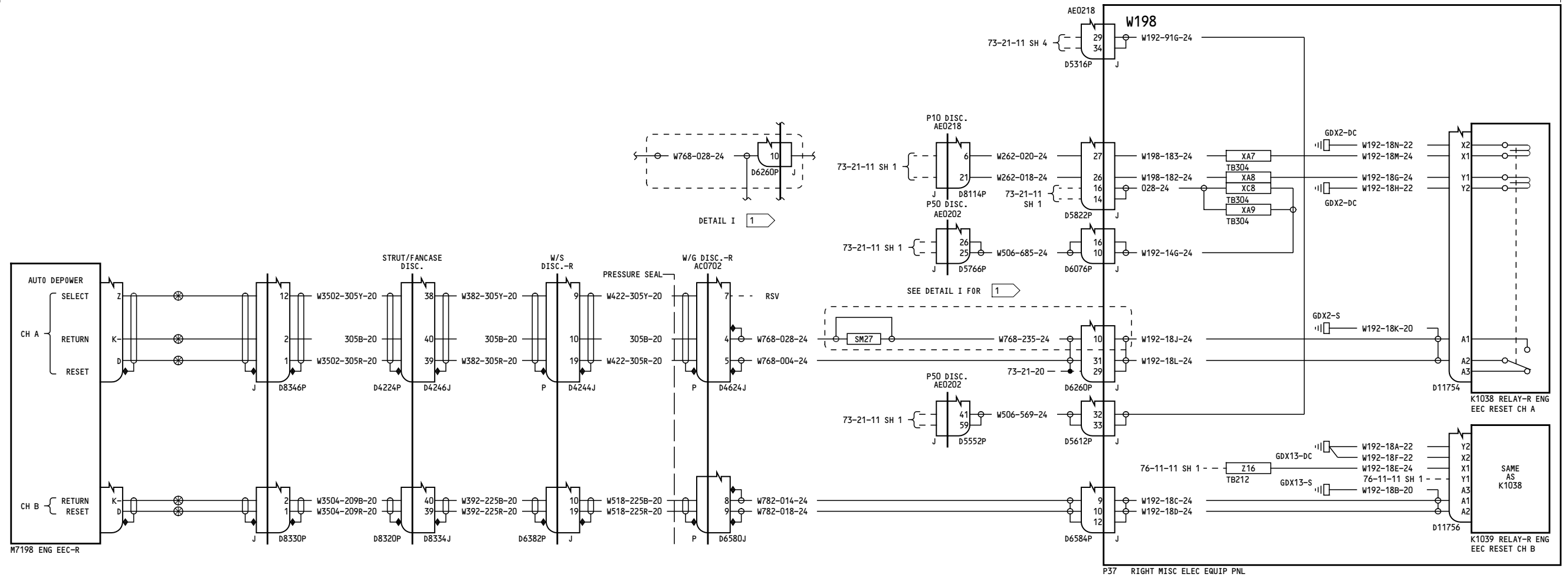
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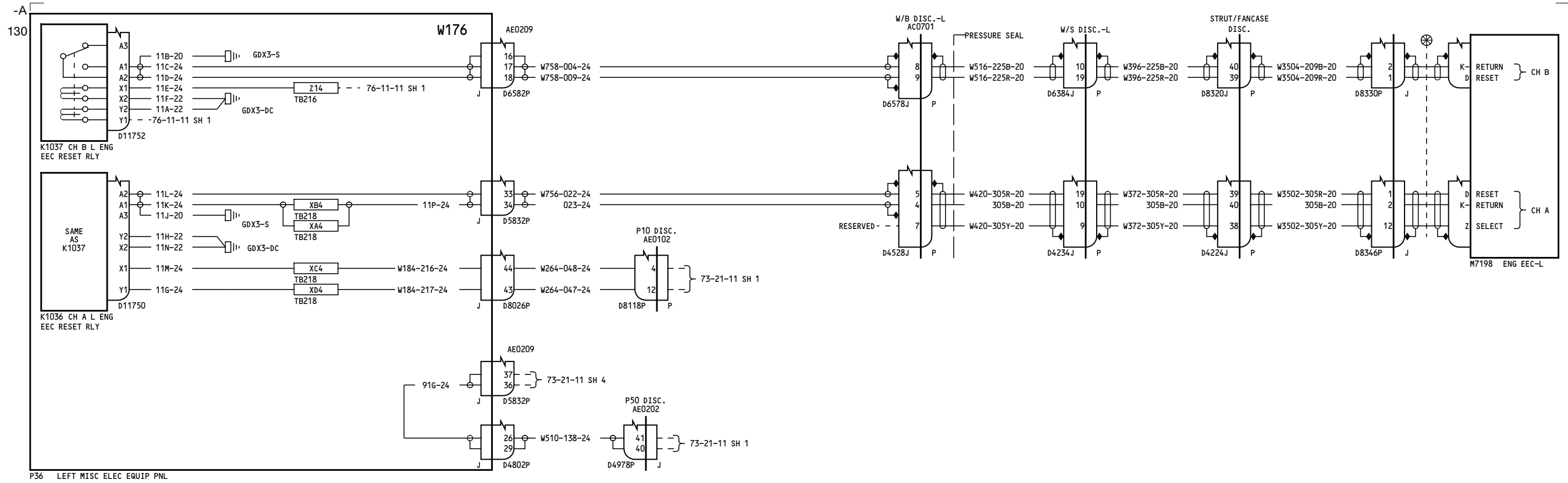
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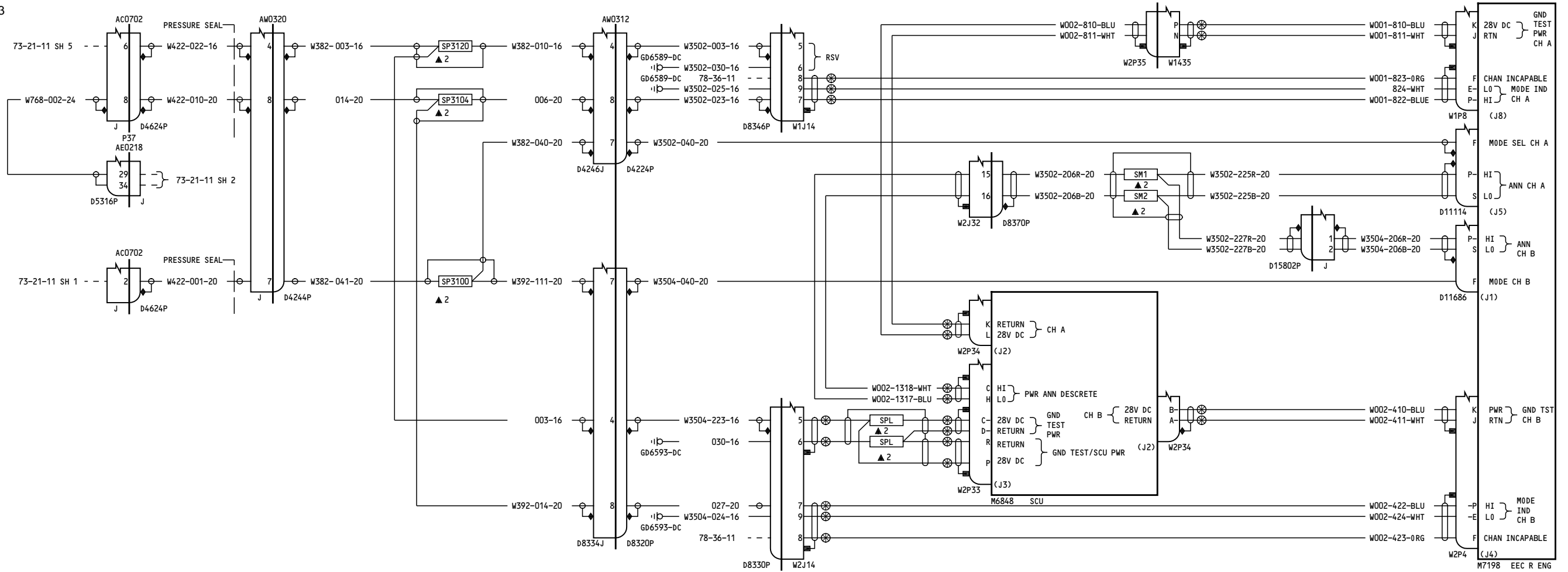
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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ELECTRONIC ENGINE CONTROL & INDICATION DISCRETIVES

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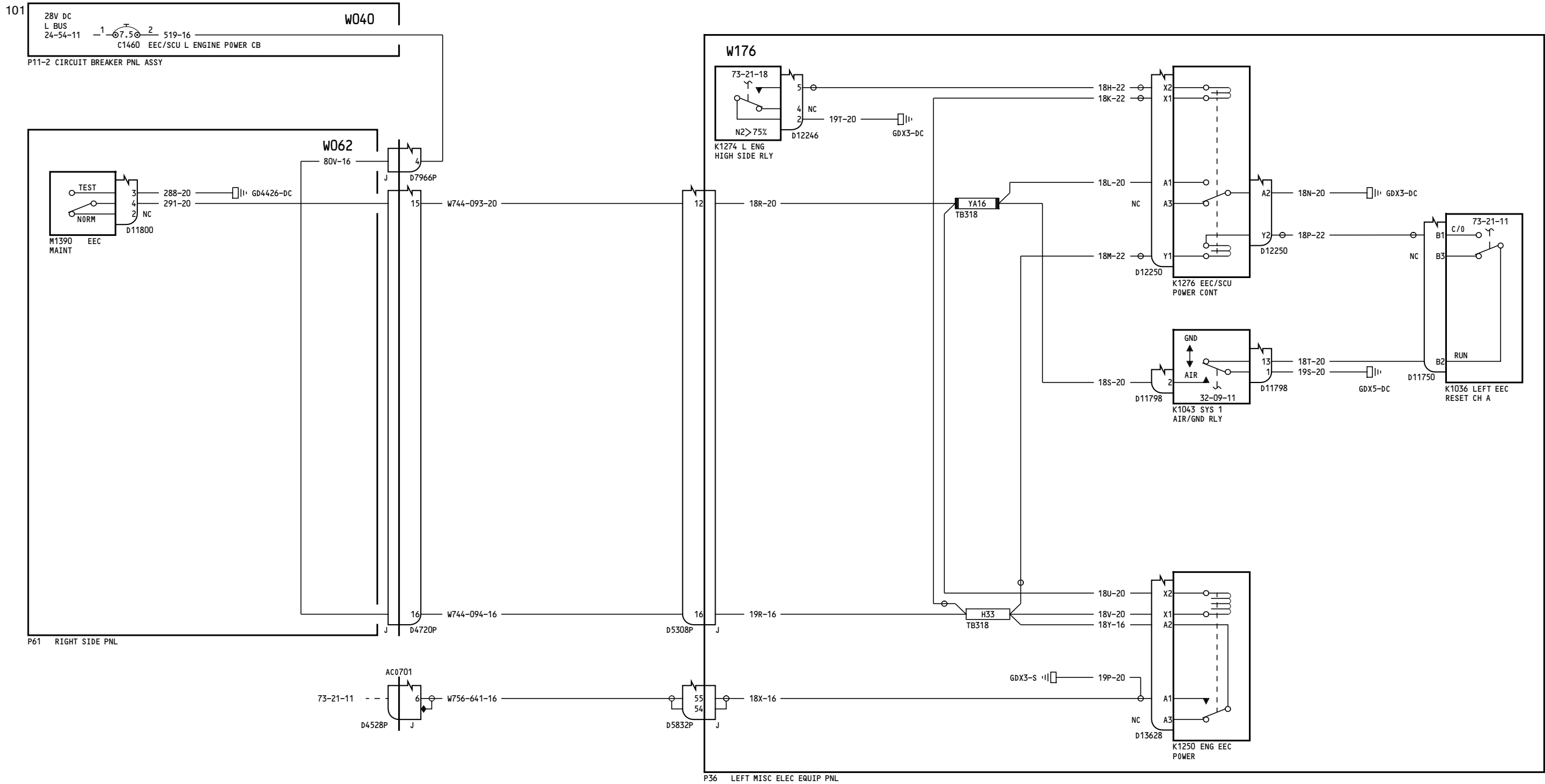
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NOTES:
SHEILD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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ELECTRONIC ENGINE CONTROL & INDICATION DISCRETES

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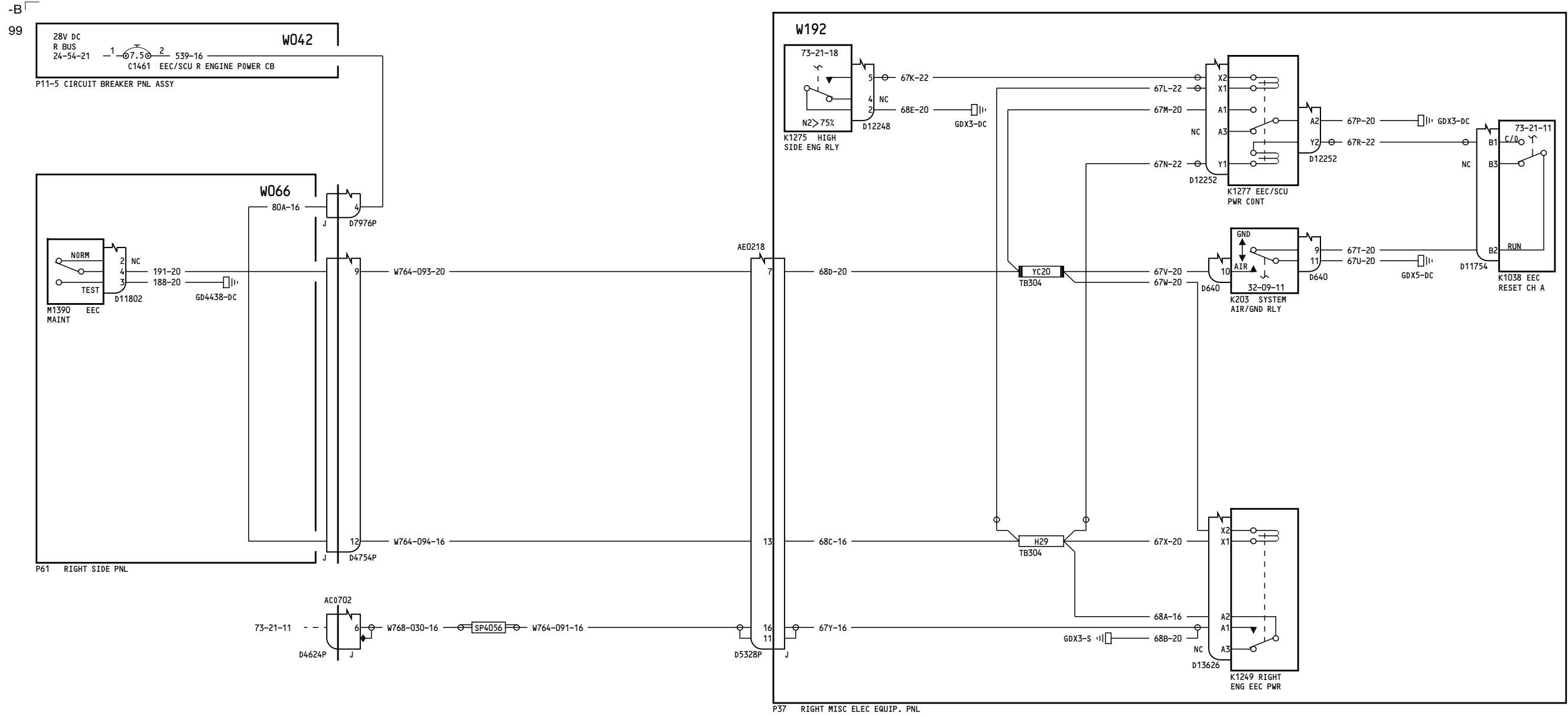
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NOTES:
SHIELD PIGTAIL TO DISCONNECT 2 INCH MAXIMUM

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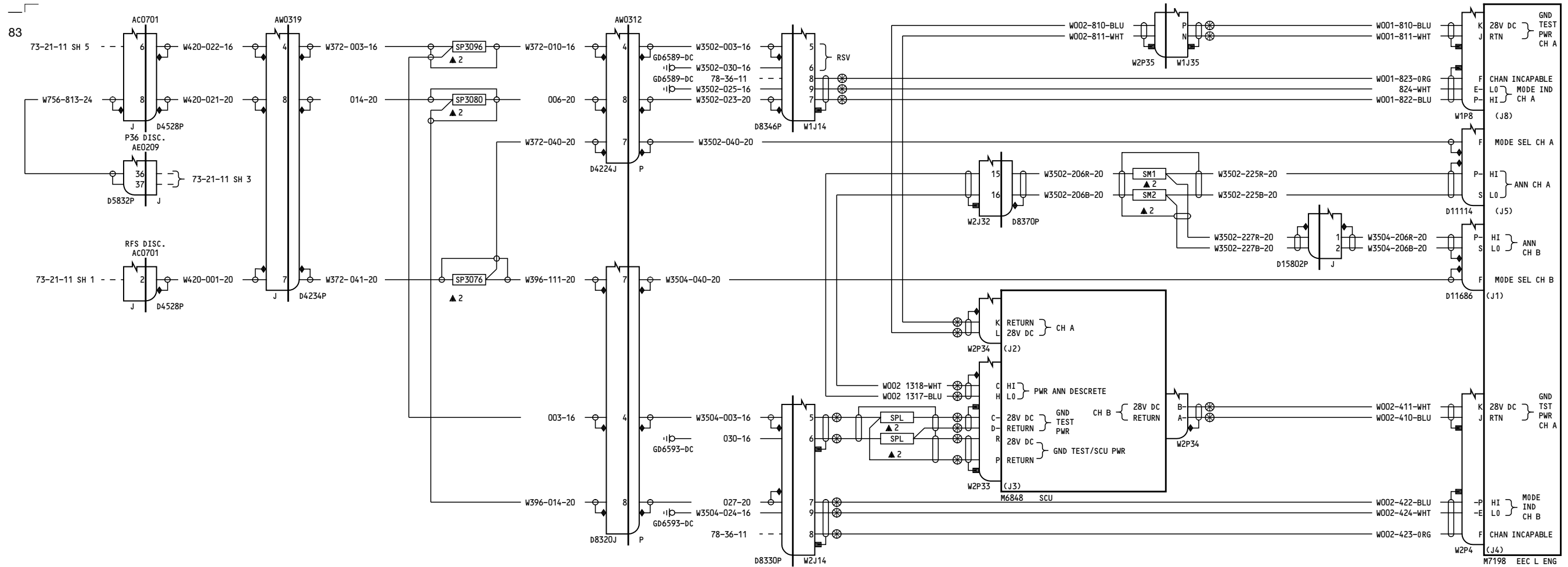
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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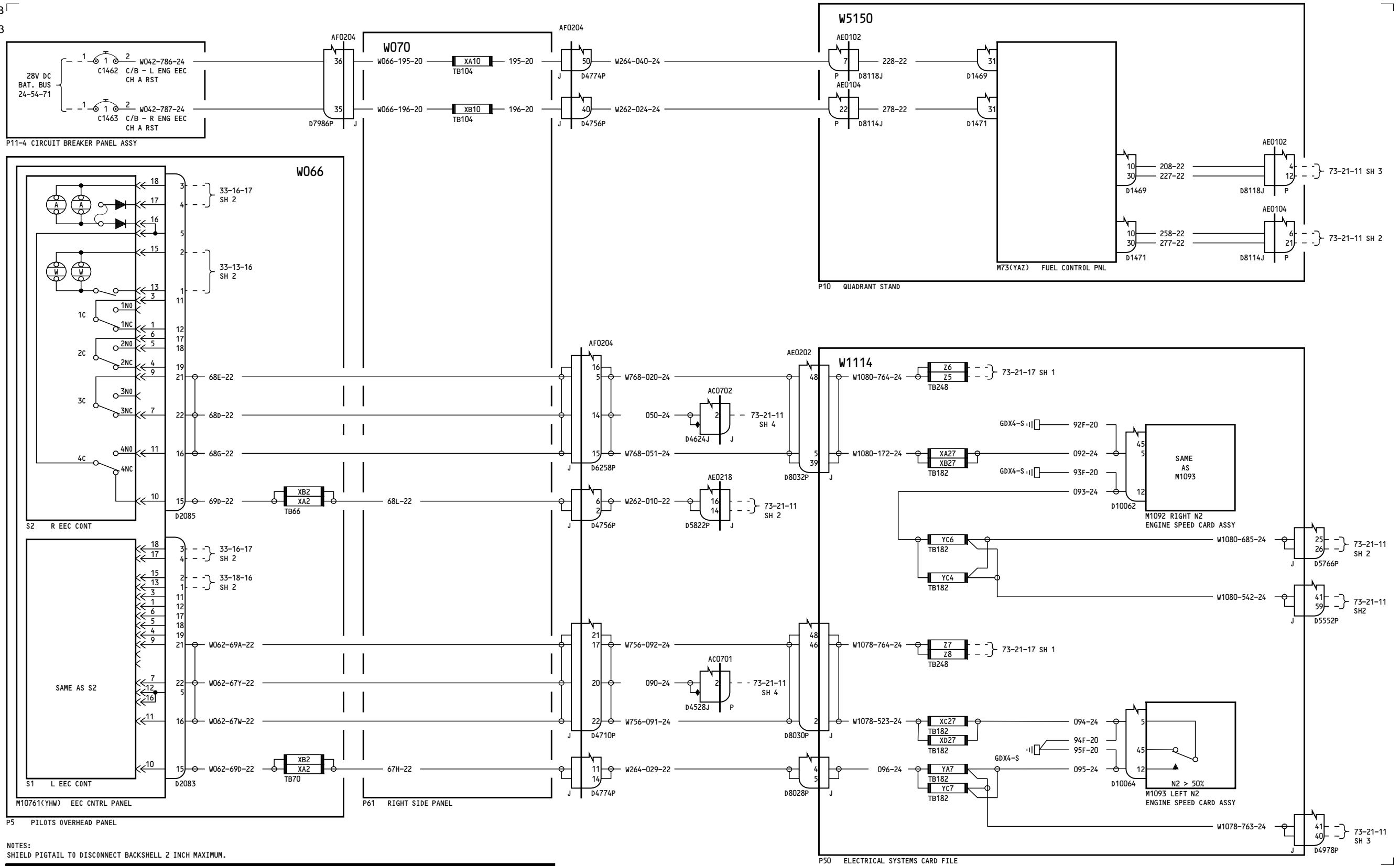
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM.

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ELECTRONIC ENGINE CONTROL & INDICATION DISCRETIVES

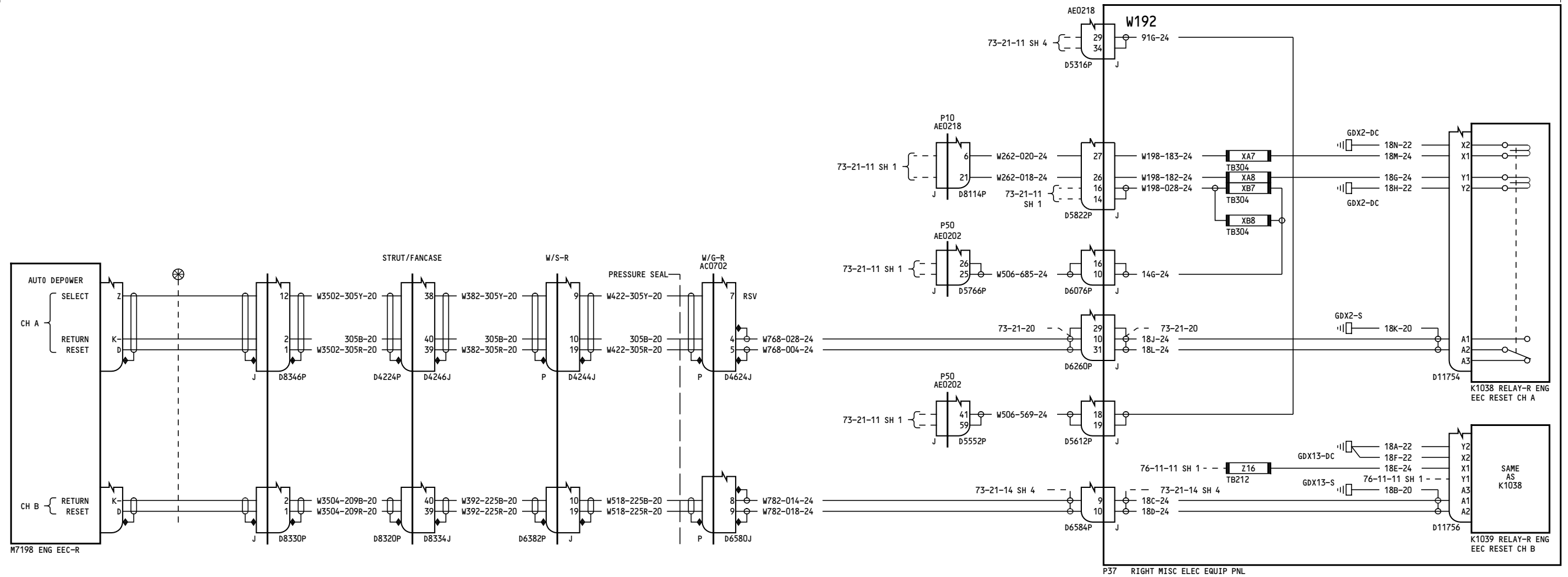
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM.

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ELECTRONIC ENGINE CONTROL & INDICATION DISCRETES

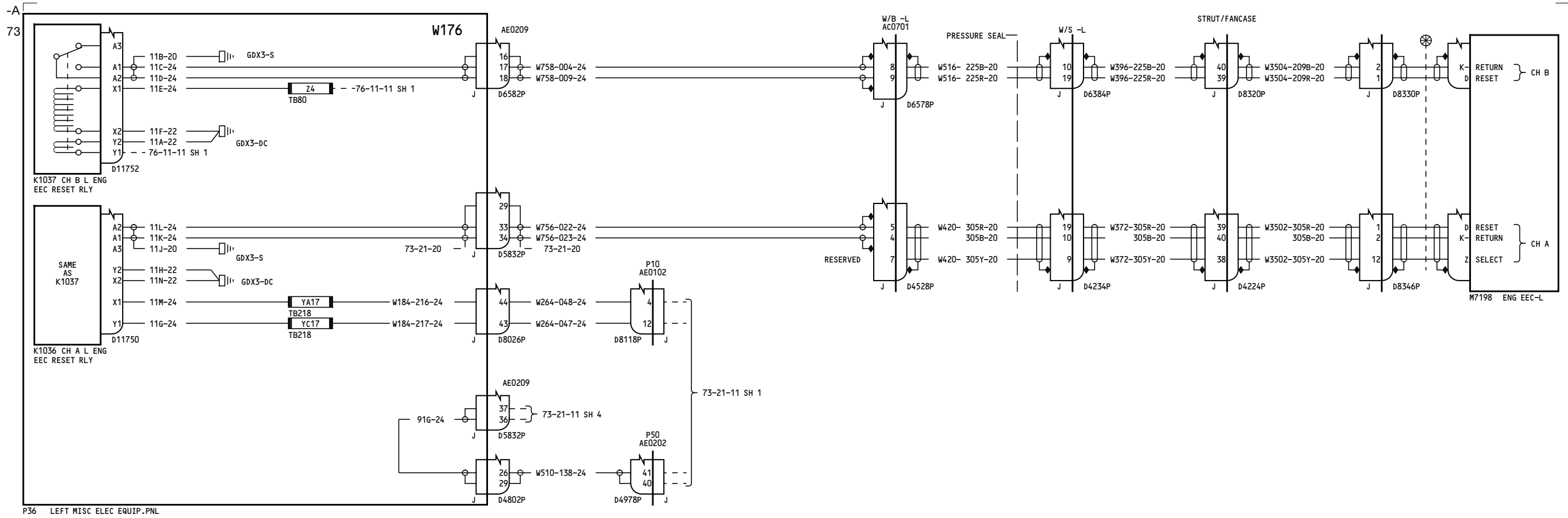
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P36 LEFT MISC ELEC EQUIP .PNL

NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM.

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ELECTRONIC ENGINE CONTROL & INDICATION DISCRETES

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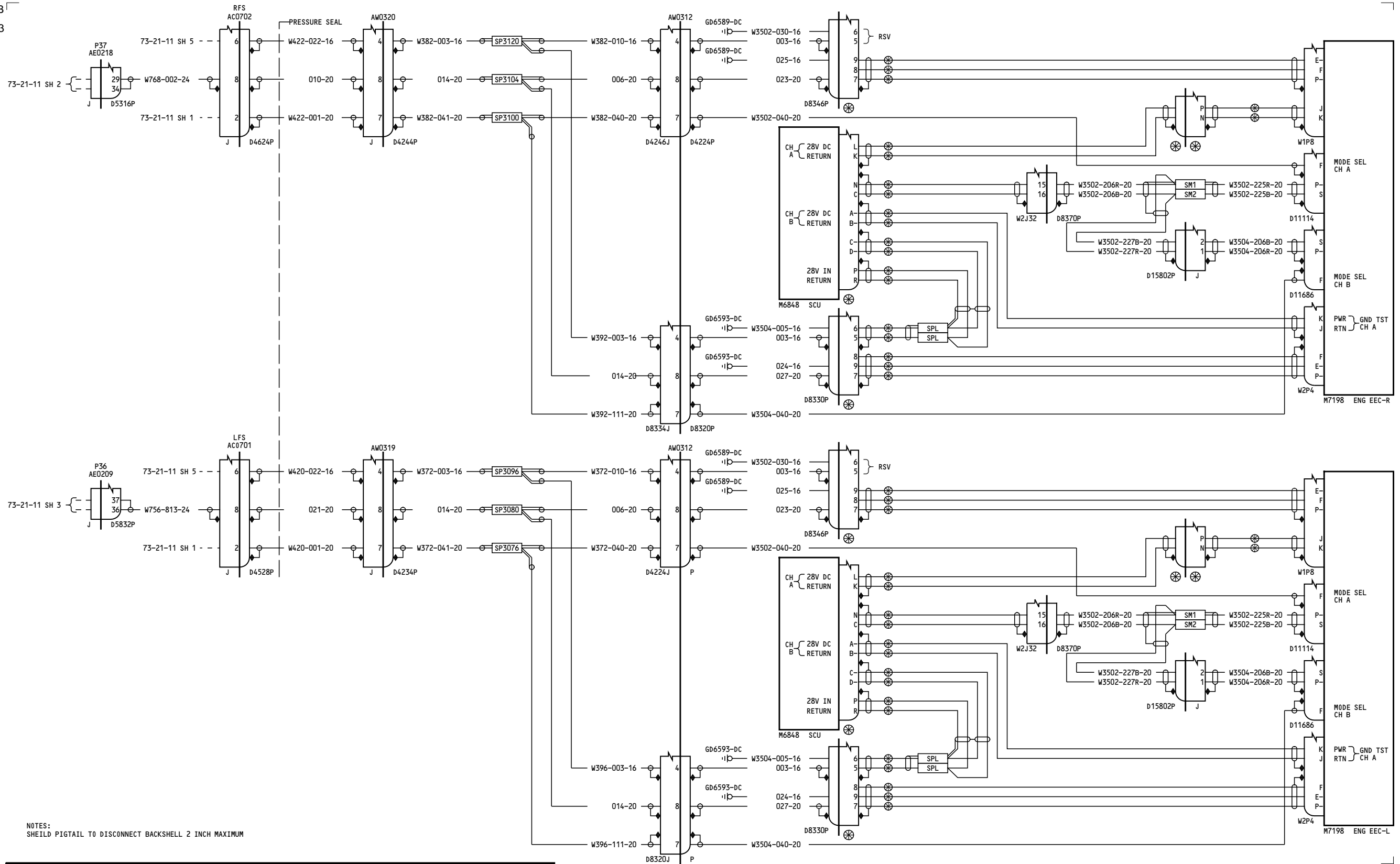
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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ELECTRONIC ENGINE CONTROL & INDICATION DISCRETES

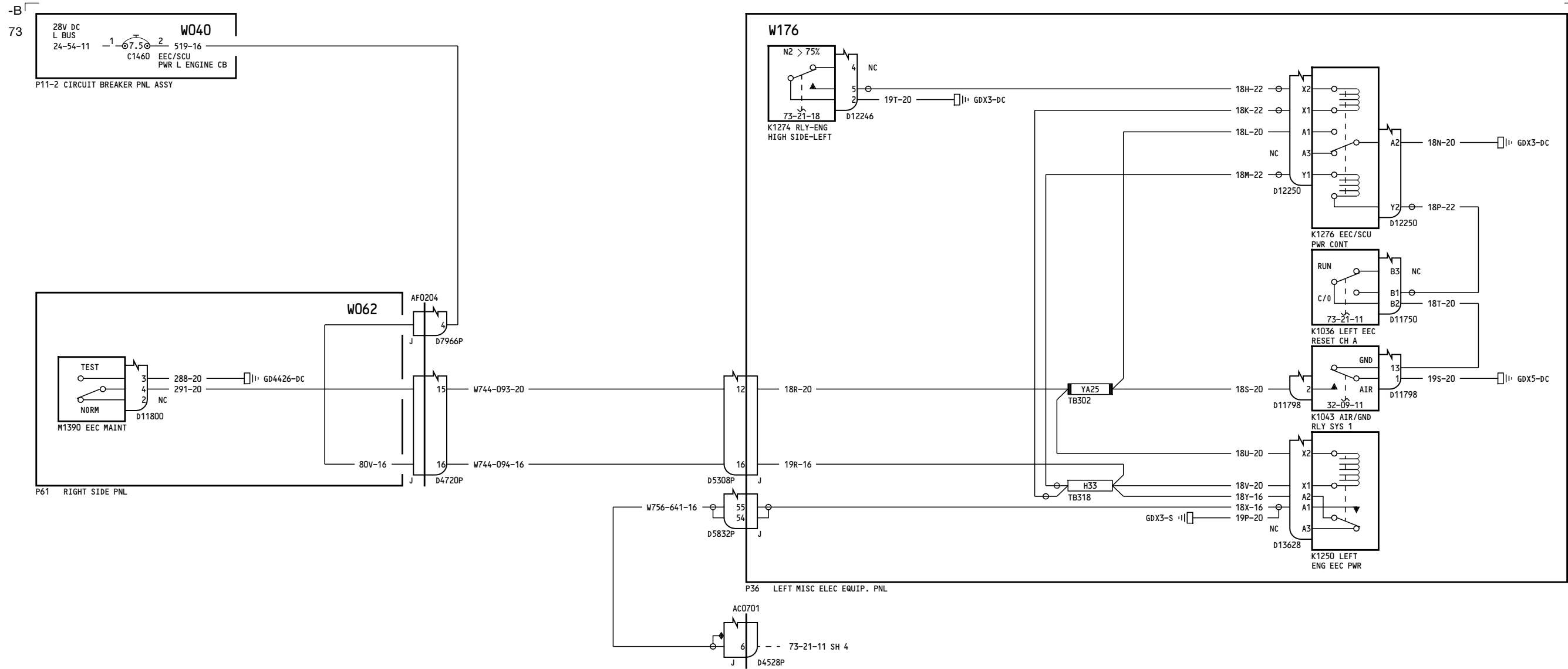
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NOTES:
SHEILD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM.

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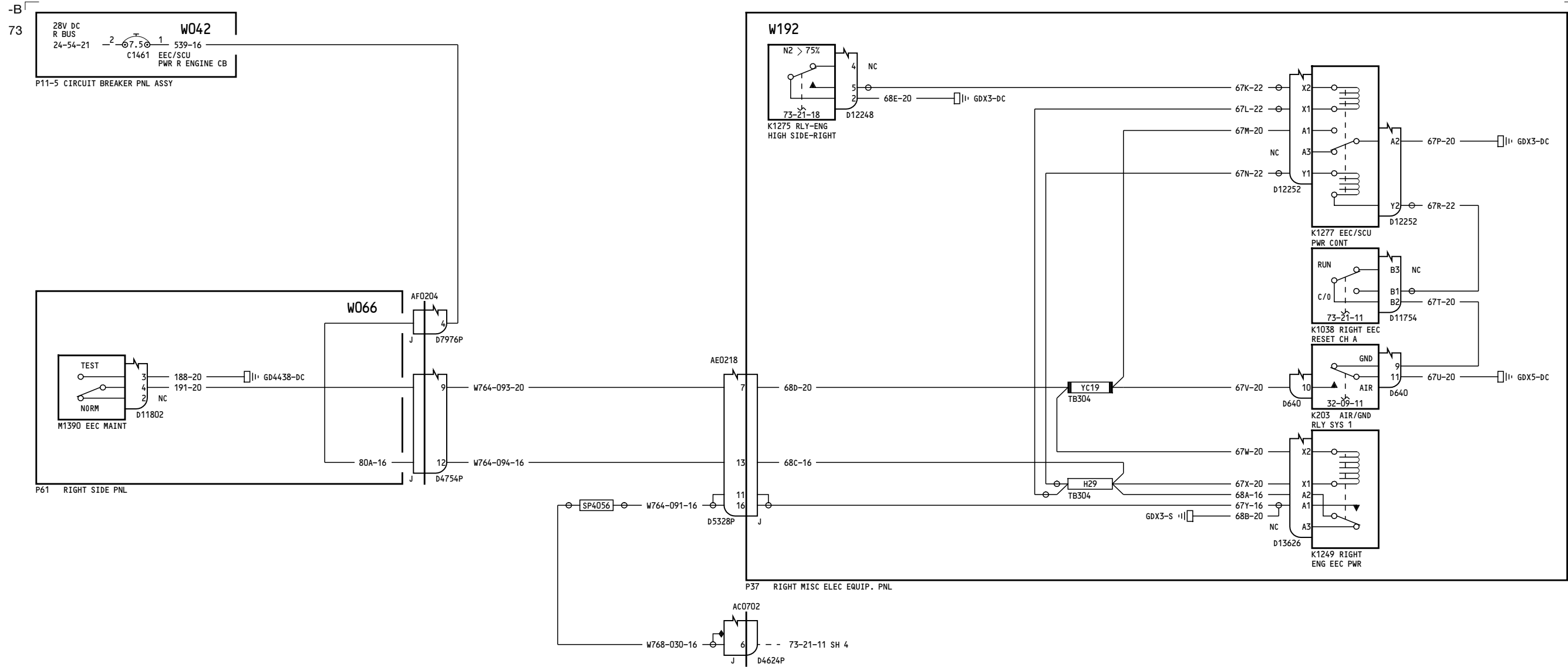
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NOTES:
SHEILD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM.

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ELECTRONIC ENGINE CONTROL & INDICATION DISCRETES

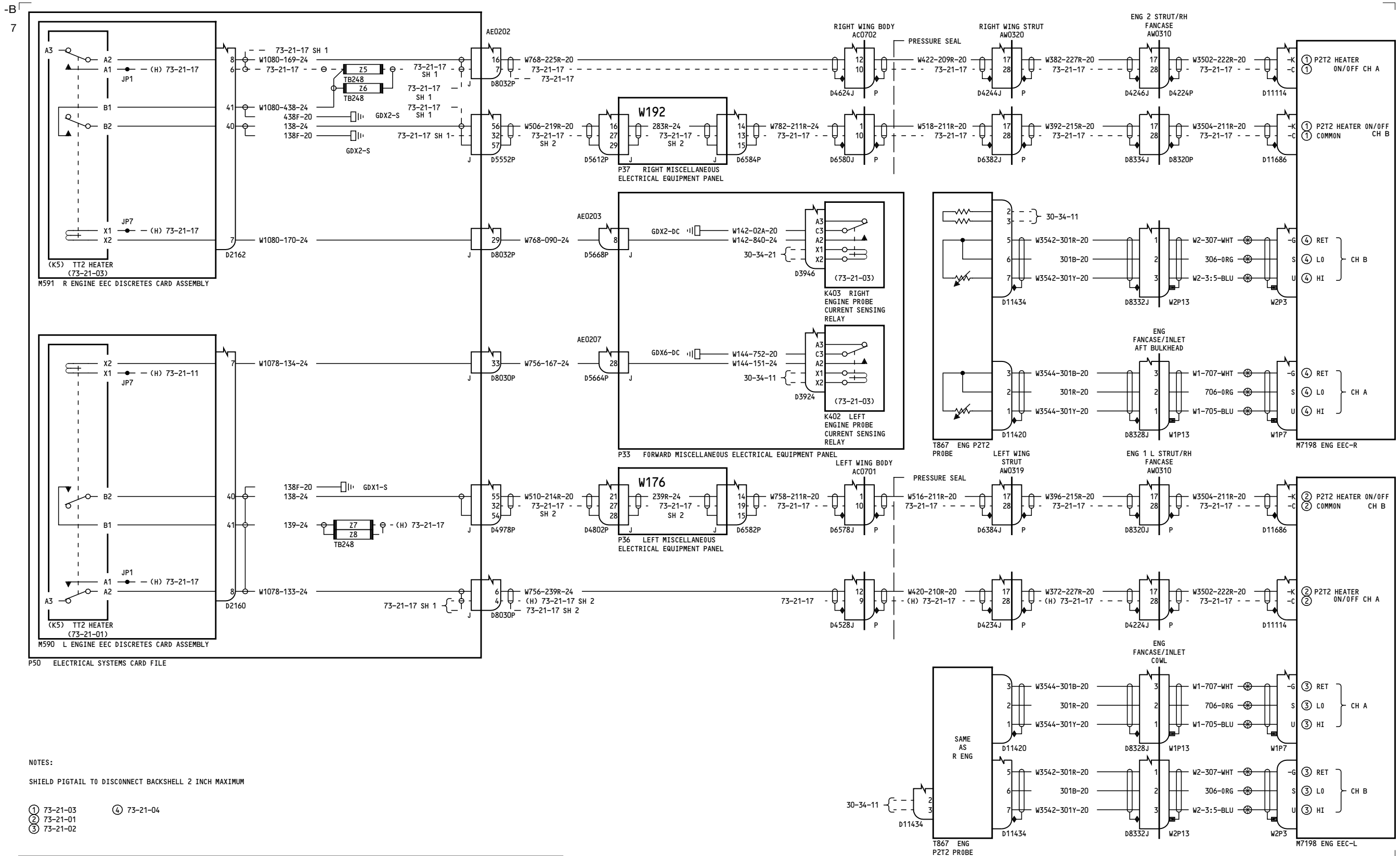
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NOTES:
 SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

① 73-21-03 ④ 73-21-04
 ② 73-21-01
 ③ 73-21-02

050-099, 150-199

TT2 ELECTRONIC ENGINE CONTROL DISCRETE

73-21-12

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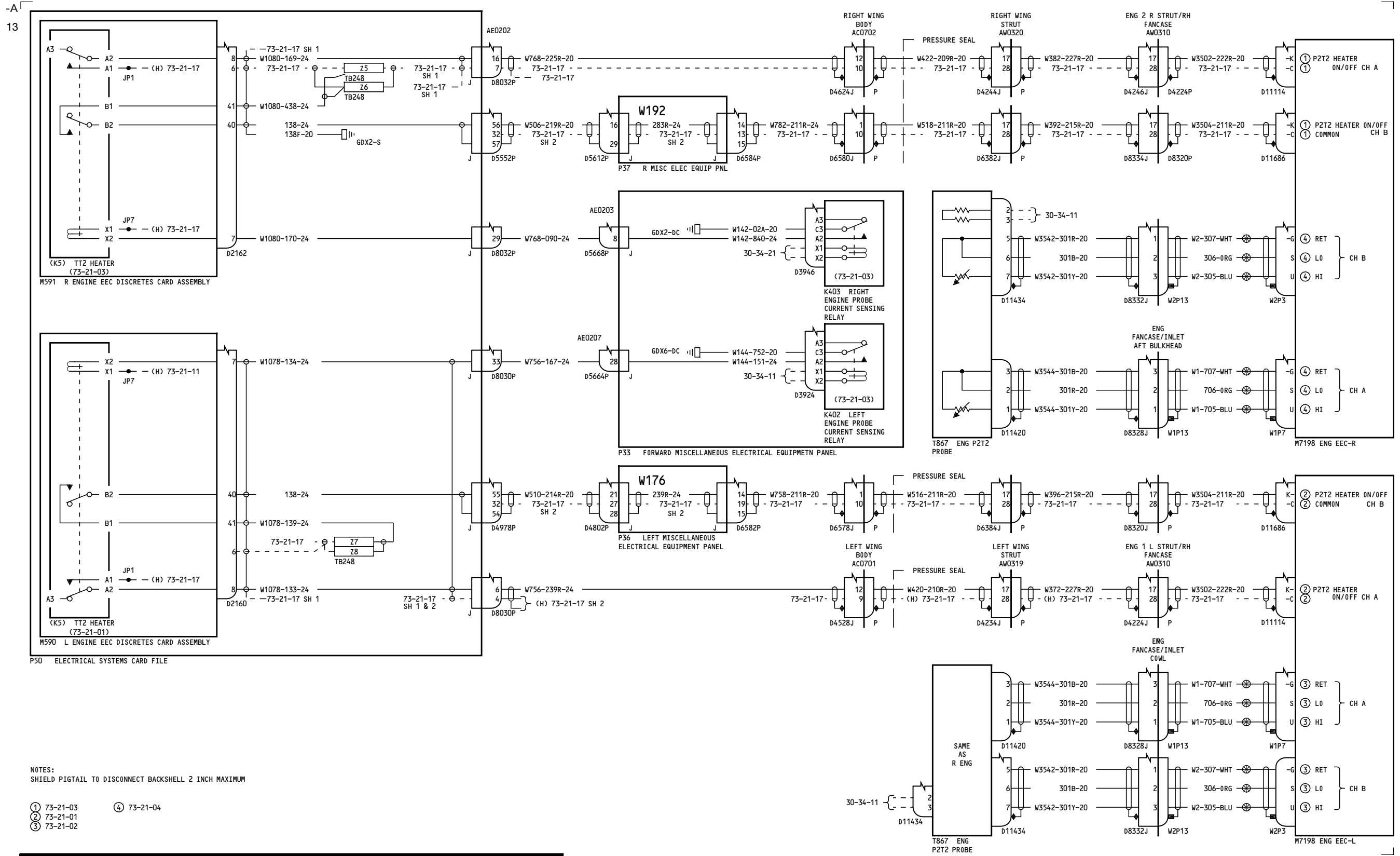
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

① 73-21-03 ④ 73-21-04
② 73-21-01
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275-276	<p>TT2 ELECTRONIC ENGINE CONTROL DISCRETE</p> <p>D280T132</p>
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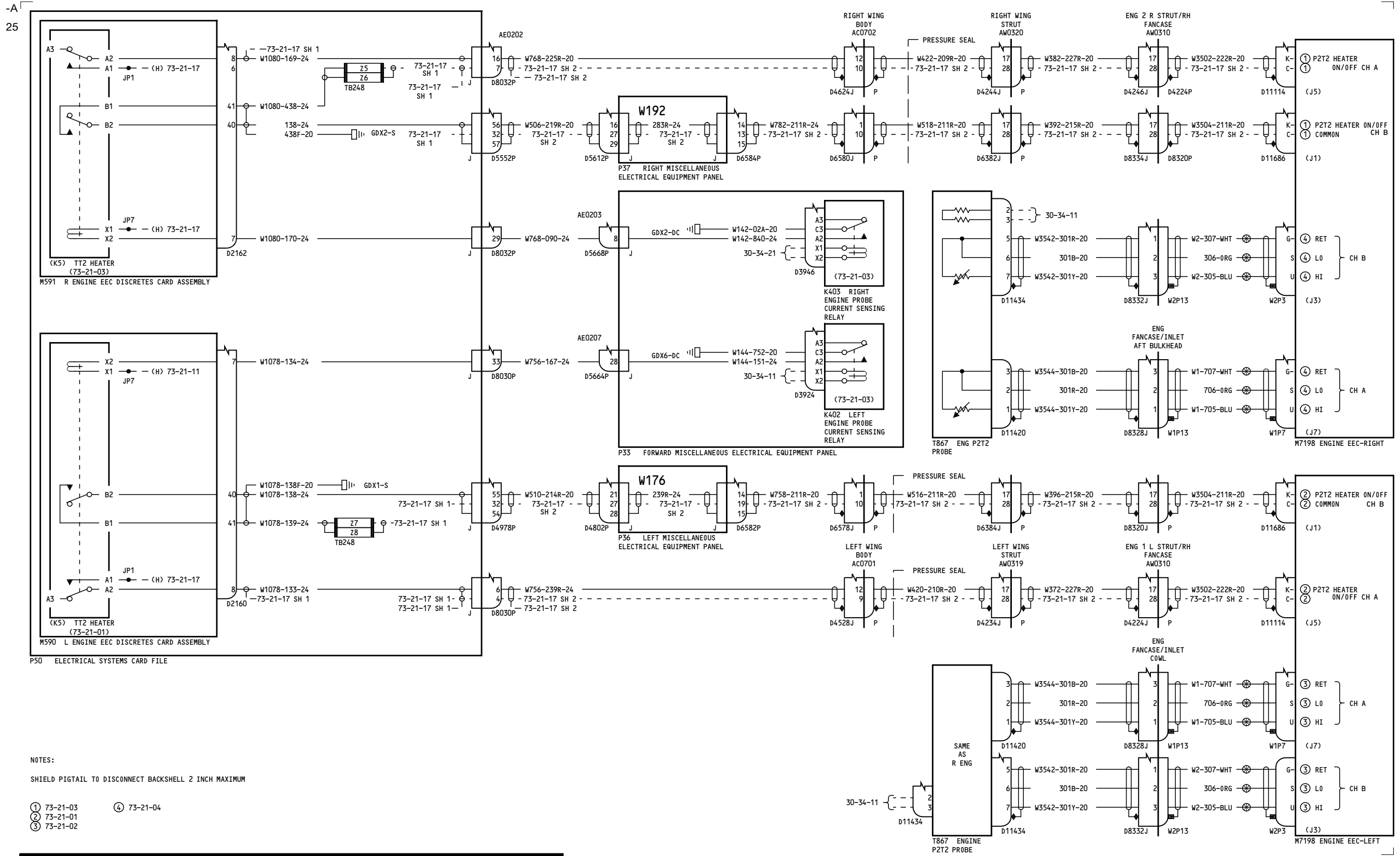
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NOTES:
 SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

① 73-21-03 ④ 73-21-04
 ② 73-21-01
 ③ 73-21-02

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TT2 ELECTRONIC ENGINE CONTROL DISCRETE

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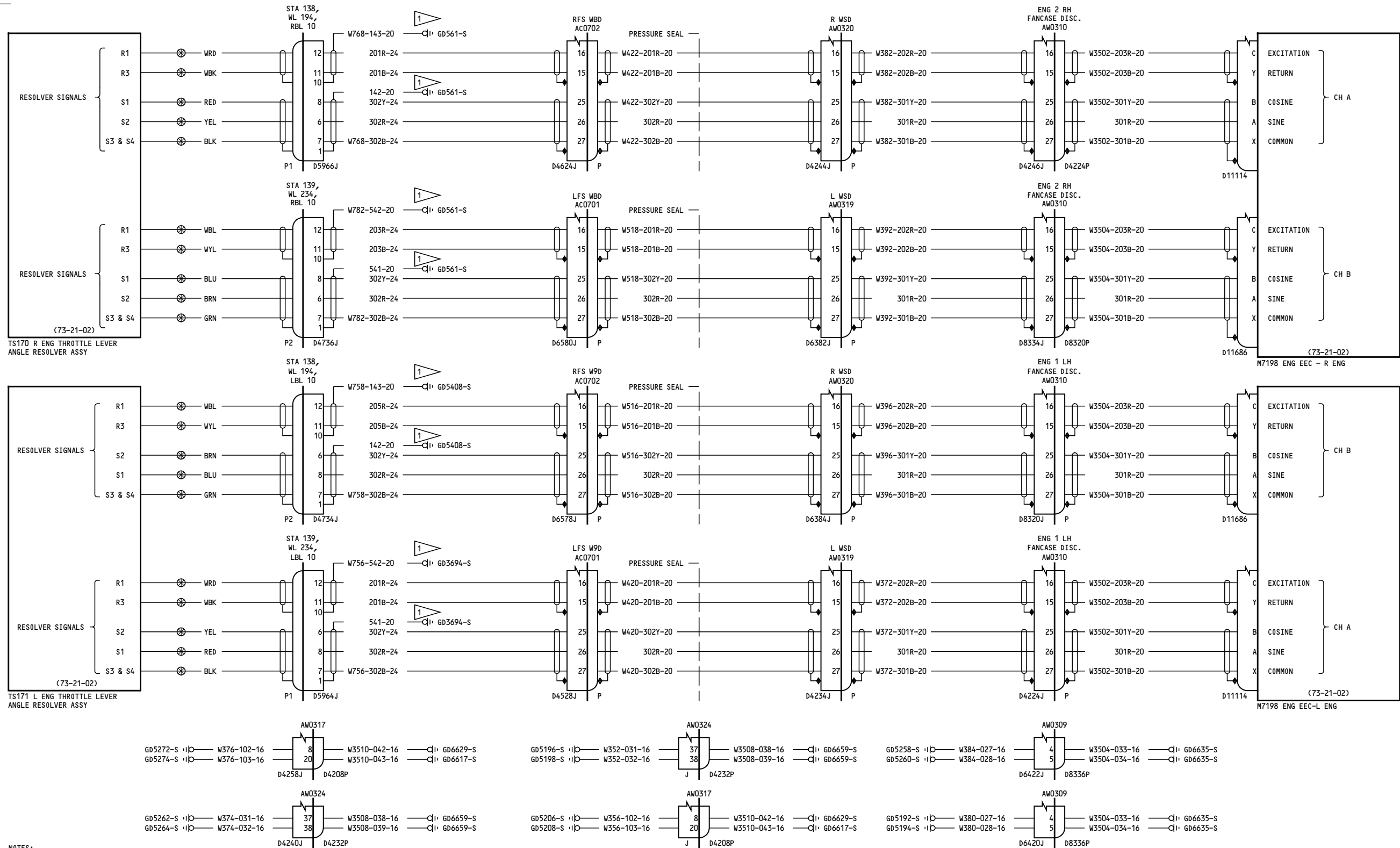
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THROTTLE LEVER ANGLE RESOLVER

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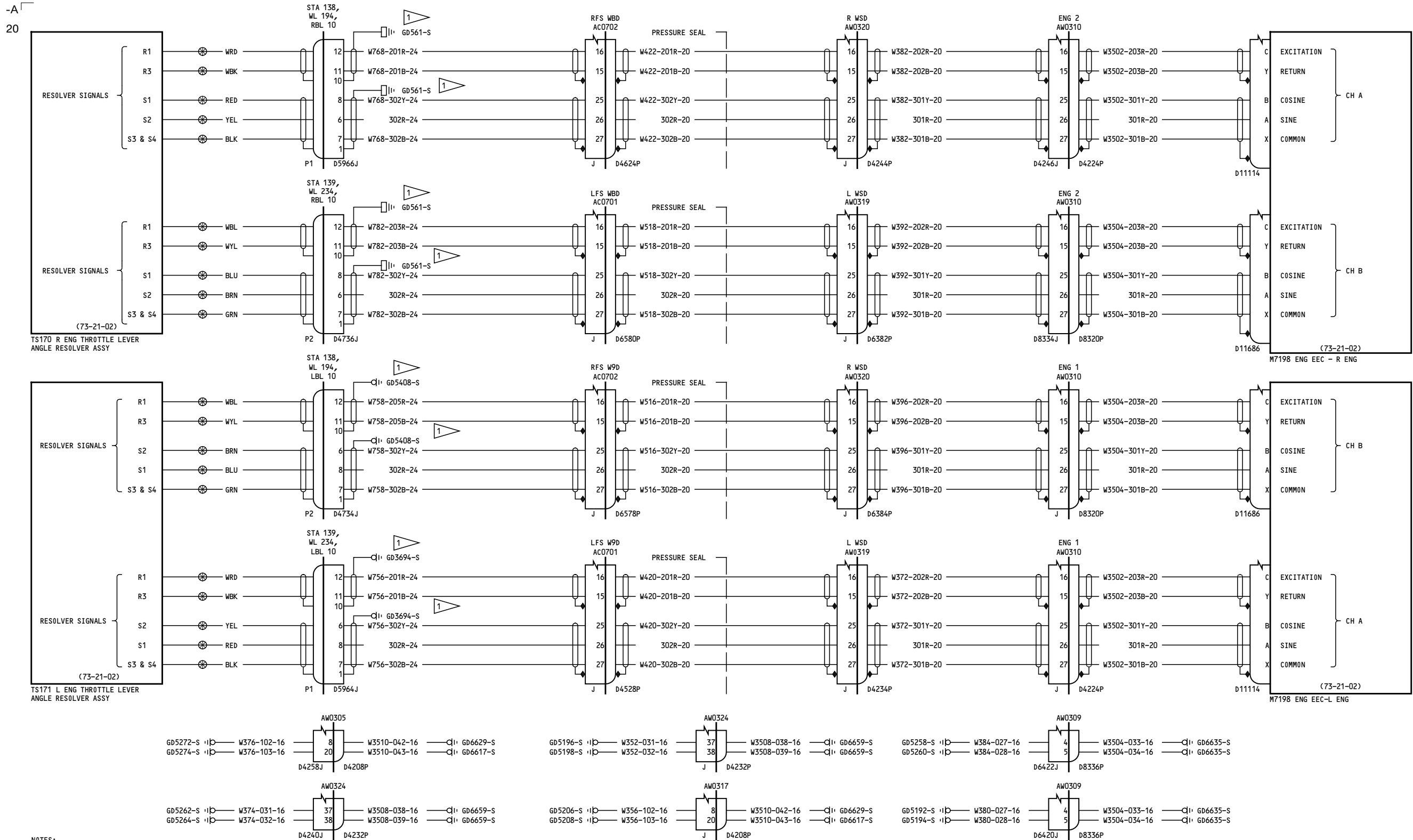
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NOTES:
 SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM SHIELD GROUND PIGTAILS 6 INCH MAX

157, 167-199, 280-299

THROTTLE LEVER ANGLE RESOLVER

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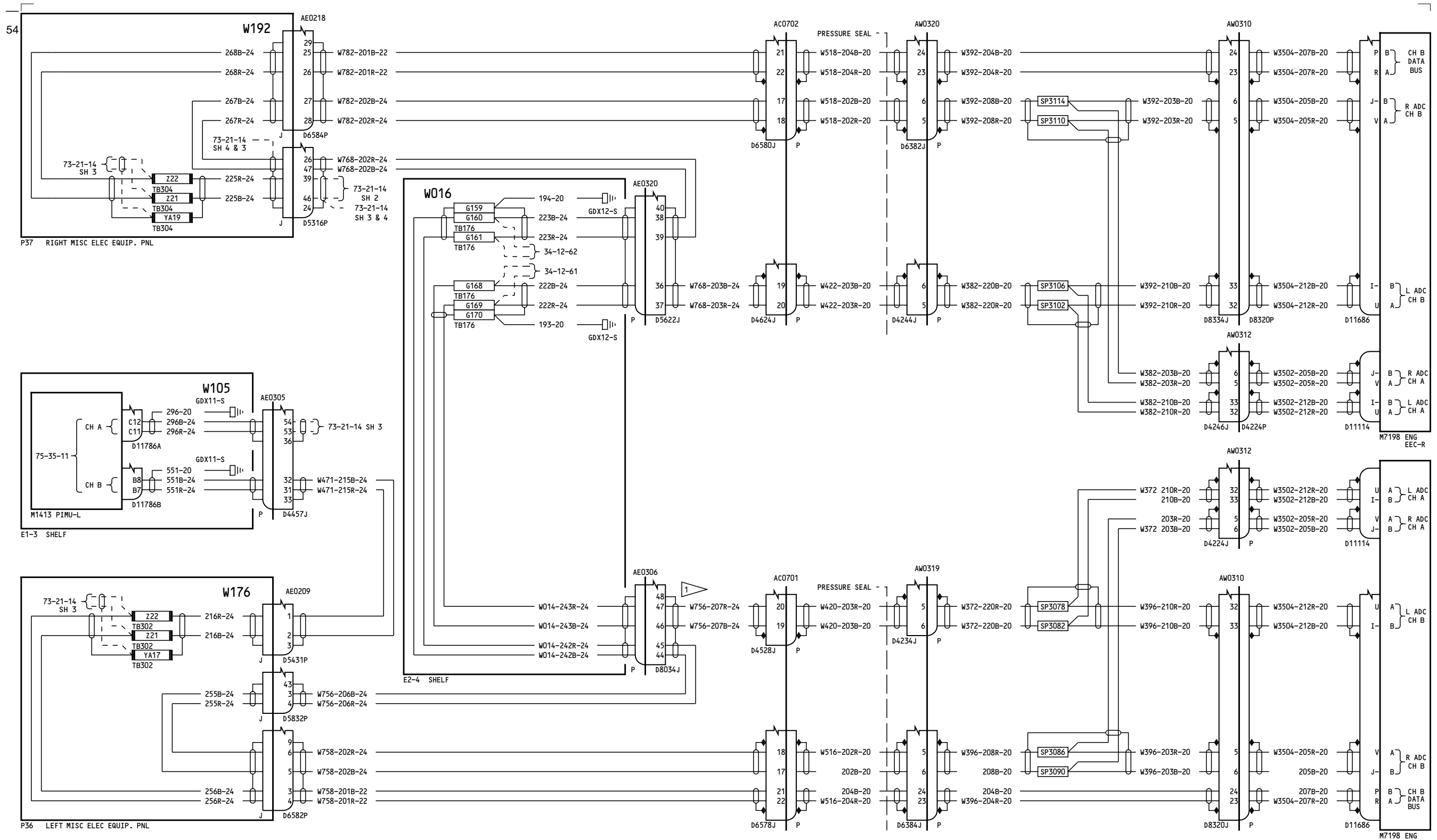
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NOTES:
SHIELD PIGTAIL TO DISCONNECT
BACK SHELL 2 INCH MAXIMUM

1 SHIELD GROUND PIGTAIL 6 INCH MAXIMUM

050-051

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DATA BUSES**

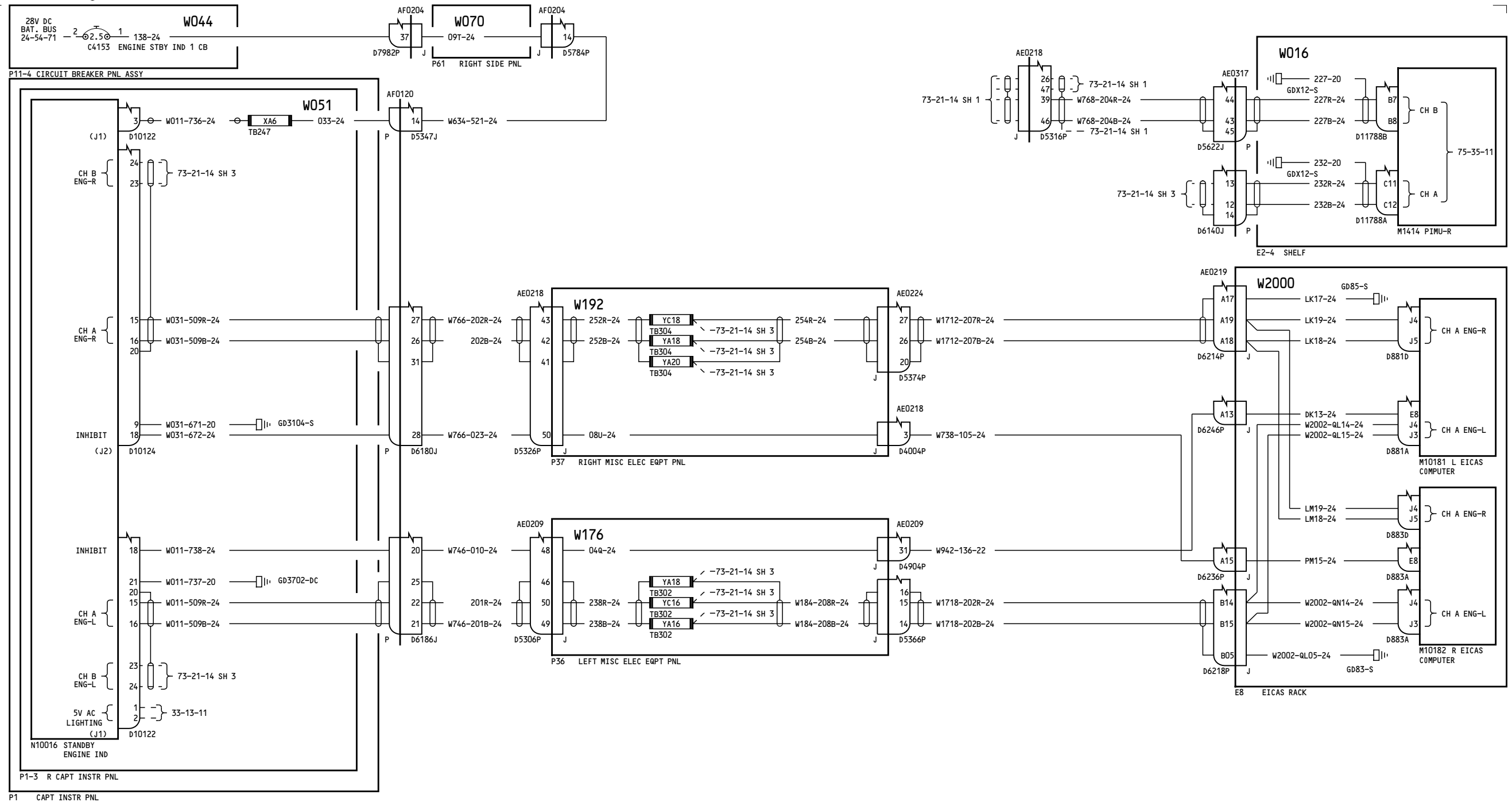
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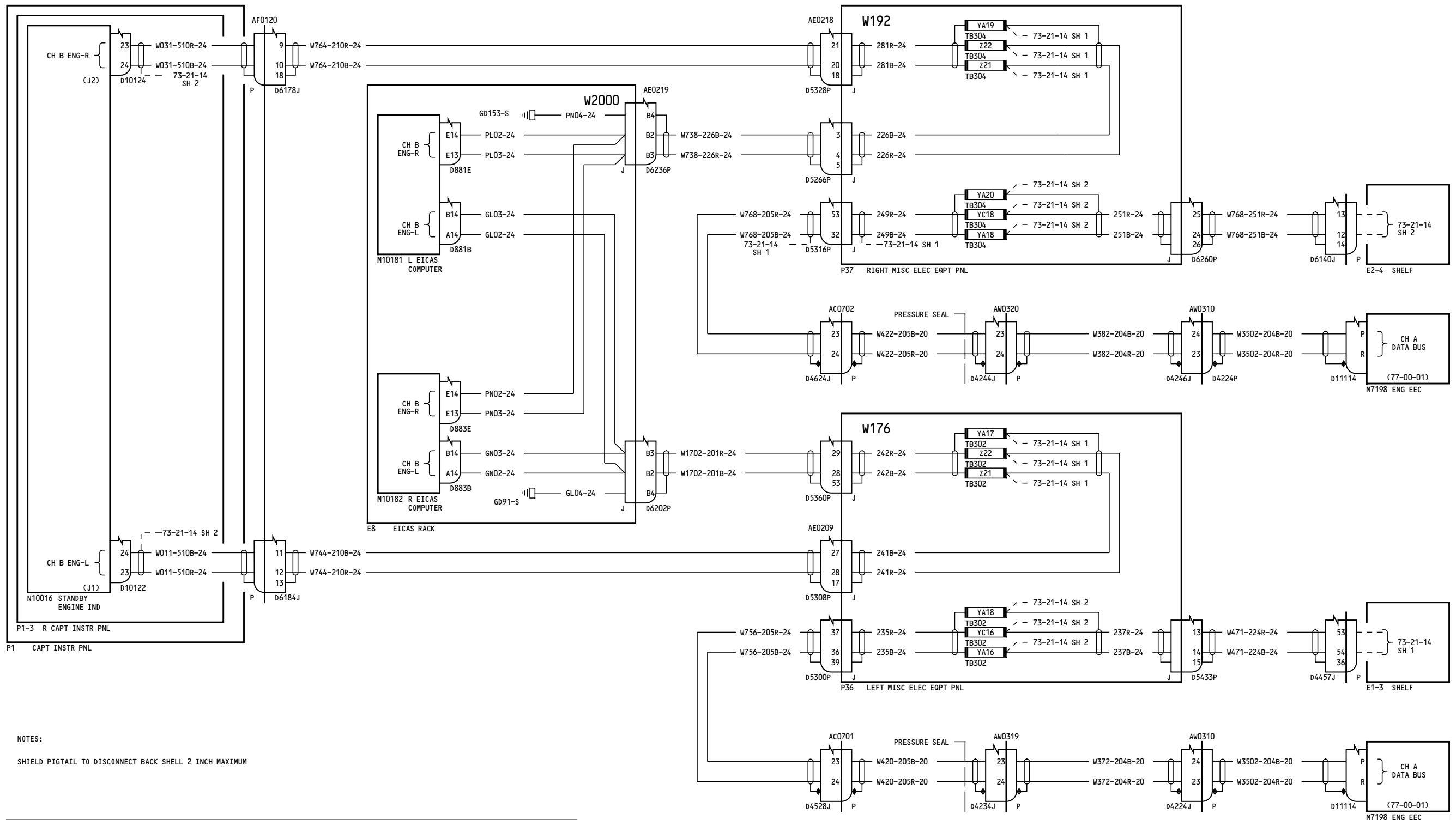
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM

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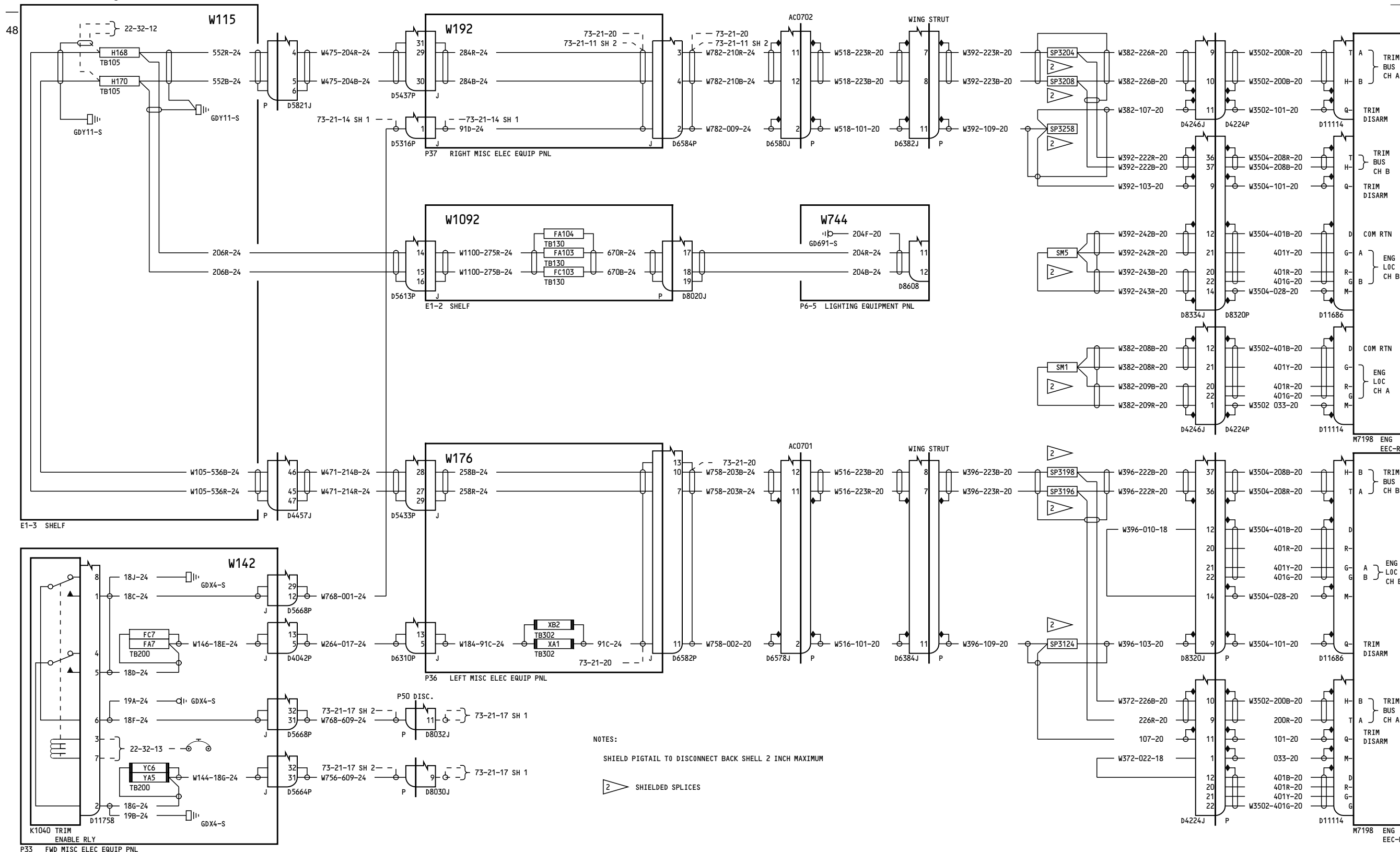
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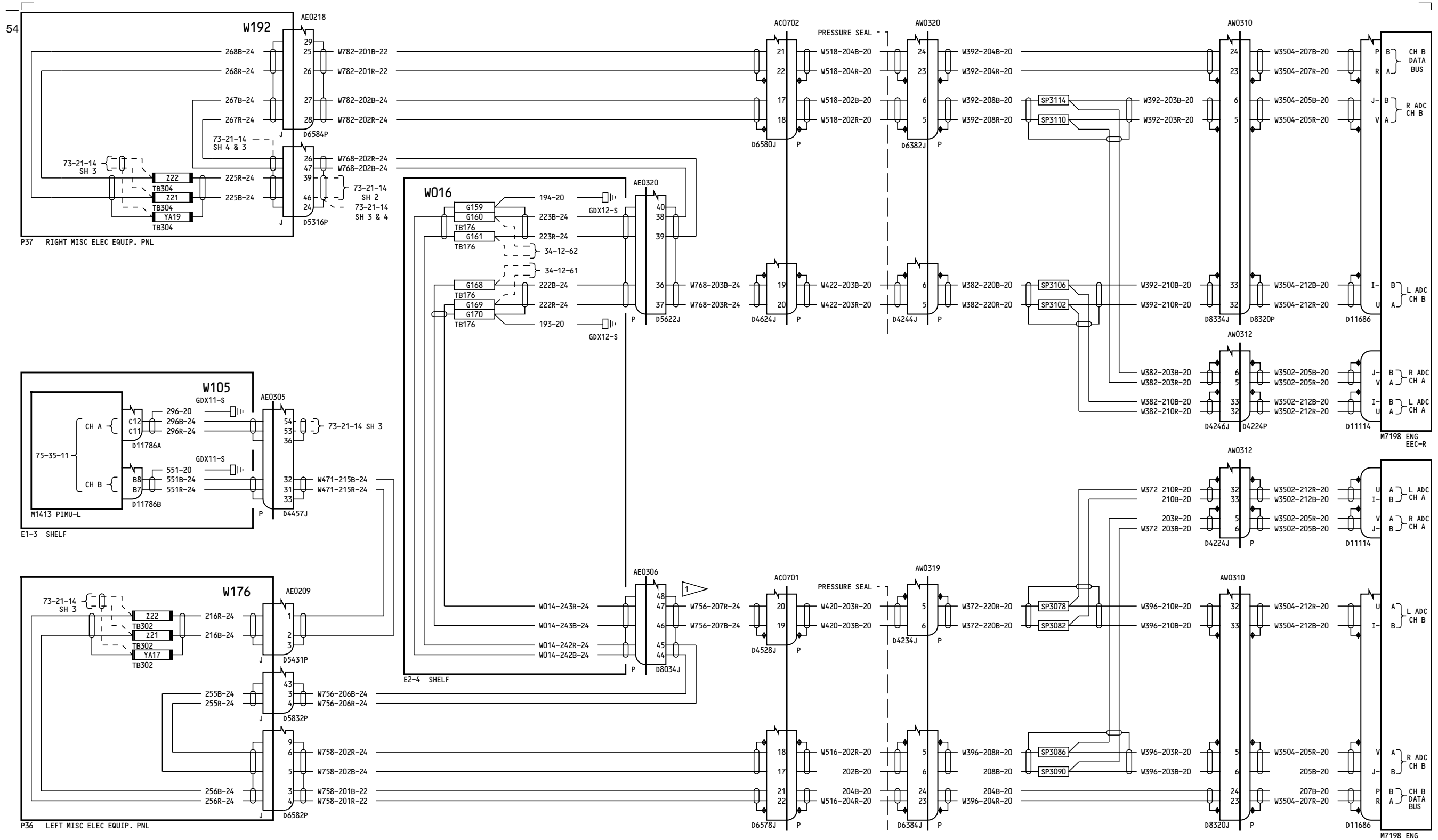
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ELECTRONIC ENGINE CONTROL DATA BUSES

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NOTES:
SHIELD PIGTAIL TO DISCONNECT
BACK SHELL 2 INCH MAXIMUM

SHIELD GROUND PIGTAIL 6 INCH MAXIMUM

050

**ELECTRONIC ENGINE CONTROL
DATA BUSES**

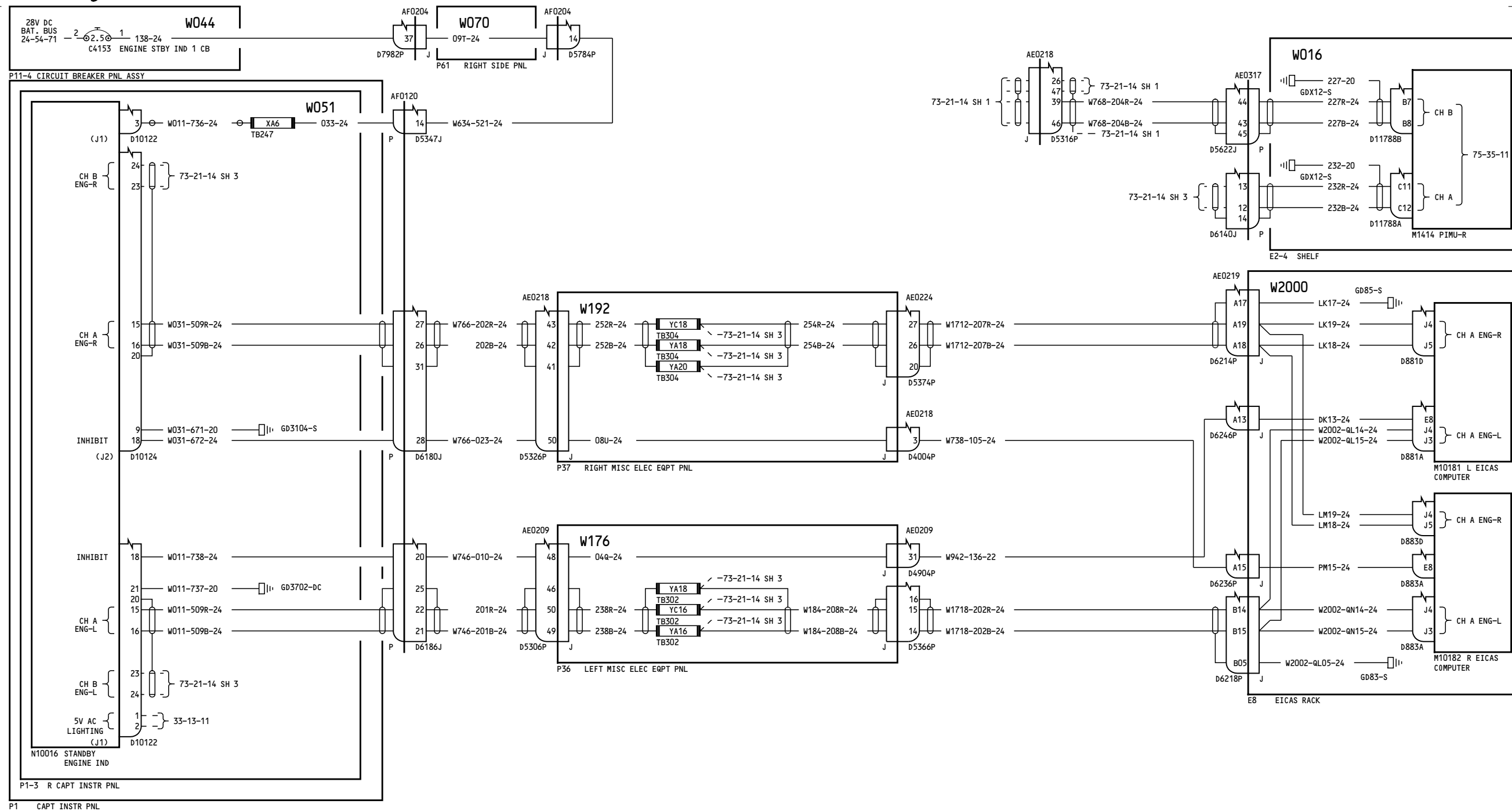
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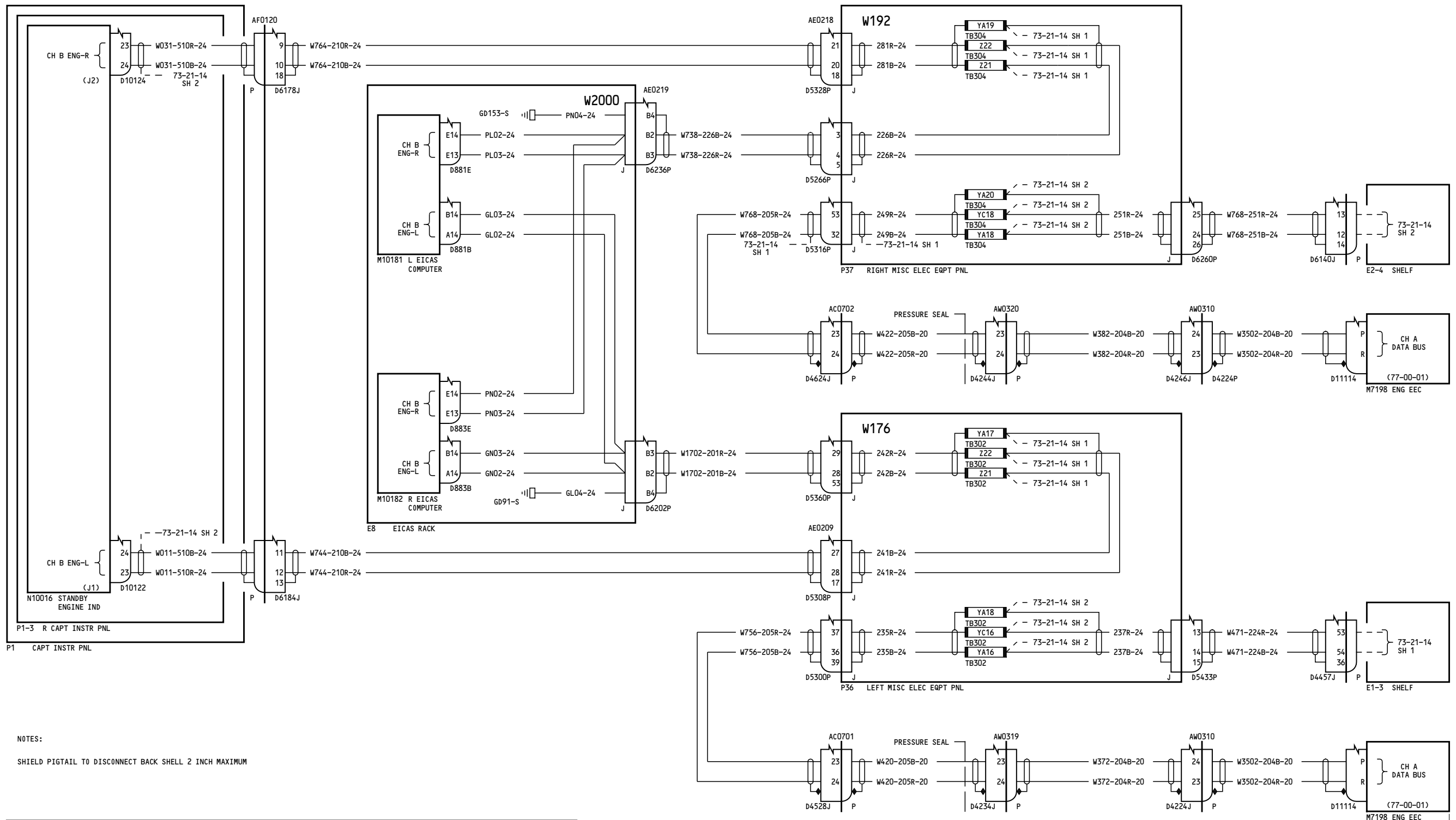
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM

050

ELECTRONIC ENGINE CONTROL DATA BUSES

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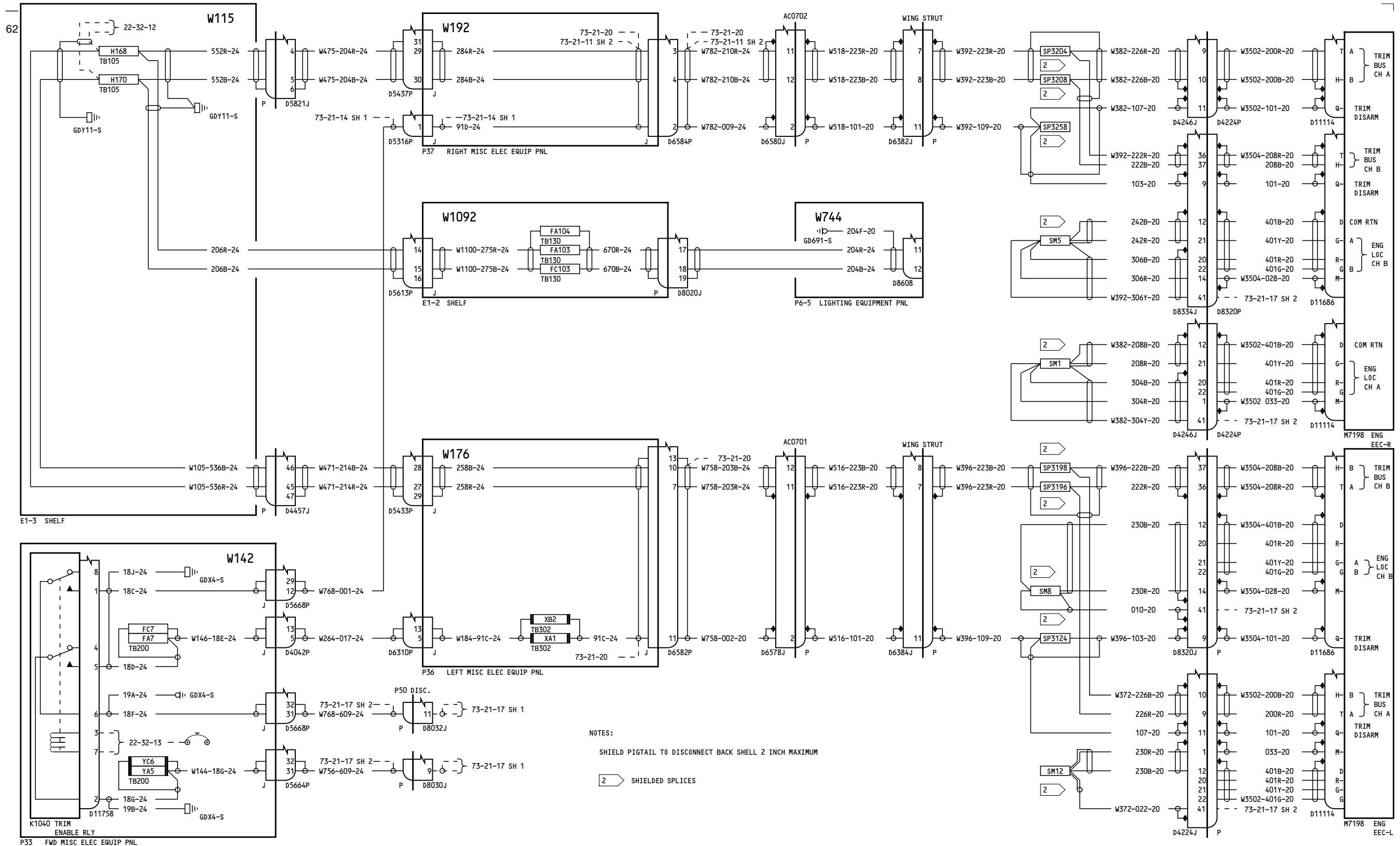
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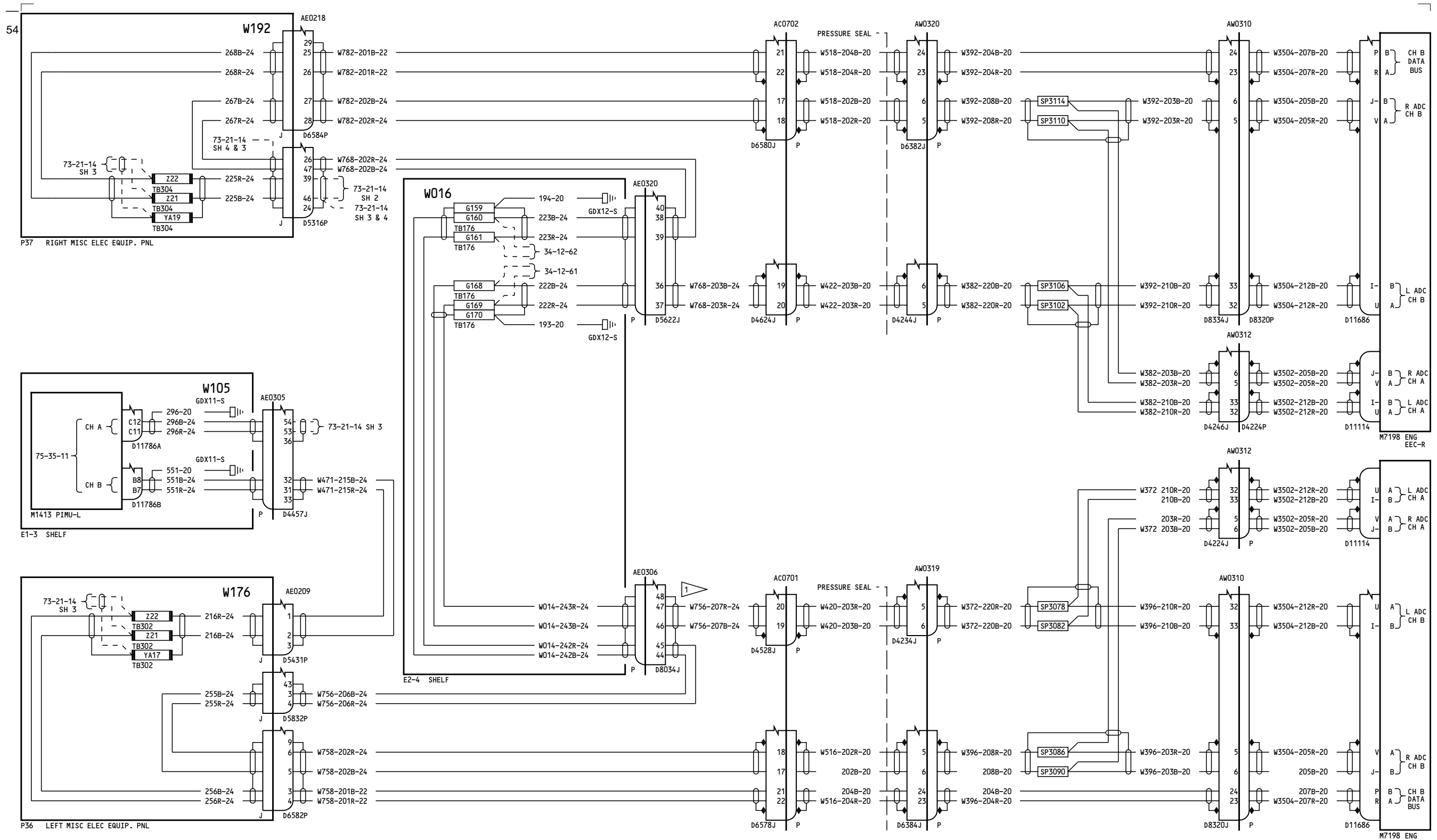
NOTES:
 SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM
 [Symbol] SHIELDED SPLICES

050
ELECTRONIC ENGINE CONTROL DATA BUSES
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NOTES:
SHIELD PIGTAIL TO DISCONNECT
BACK SHELL 2 INCH MAXIMUM

1 SHIELD GROUND PIGTAIL 6 INCH MAXIMUM

051

**ELECTRONIC ENGINE CONTROL
DATA BUSES**

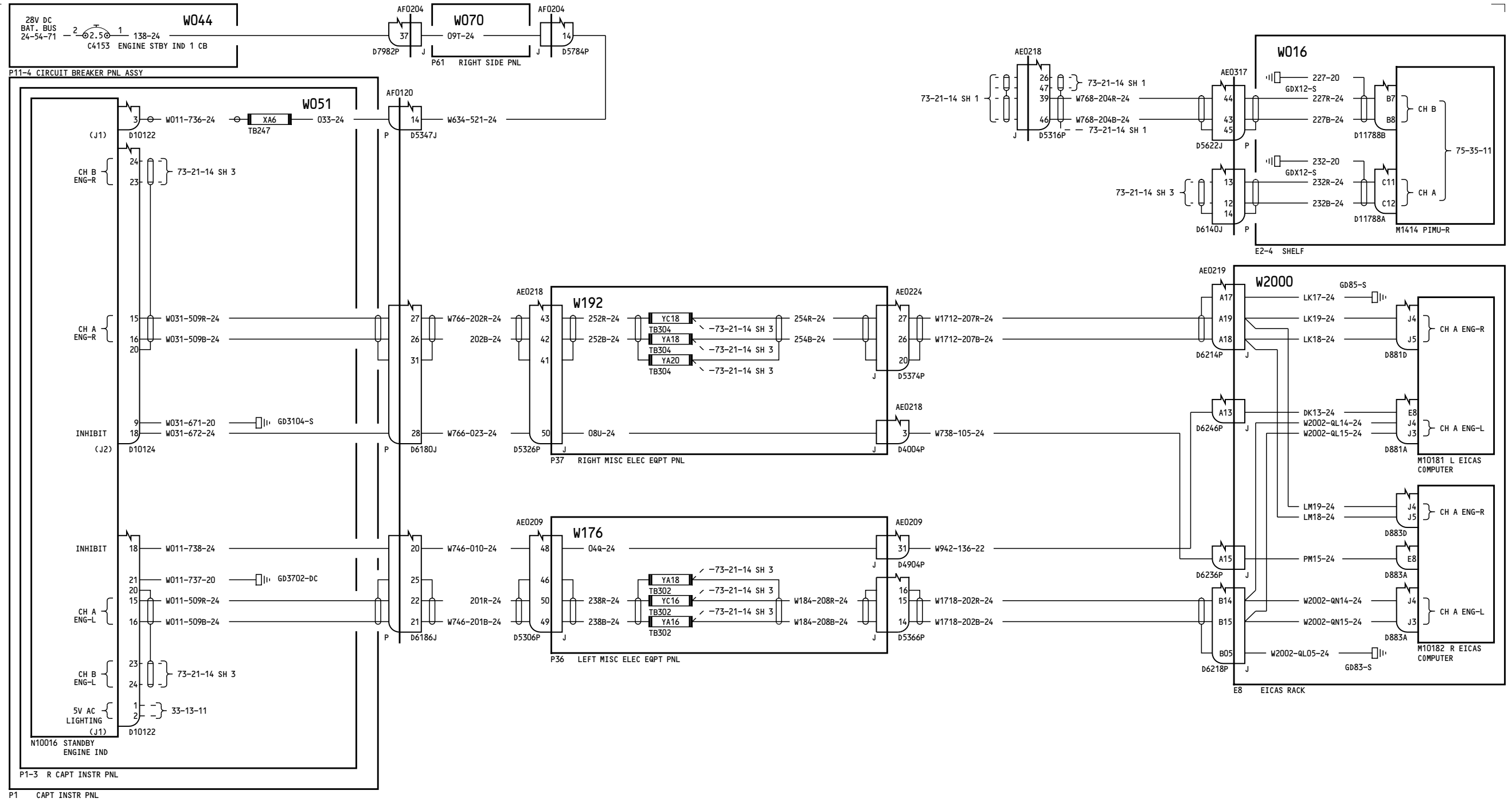
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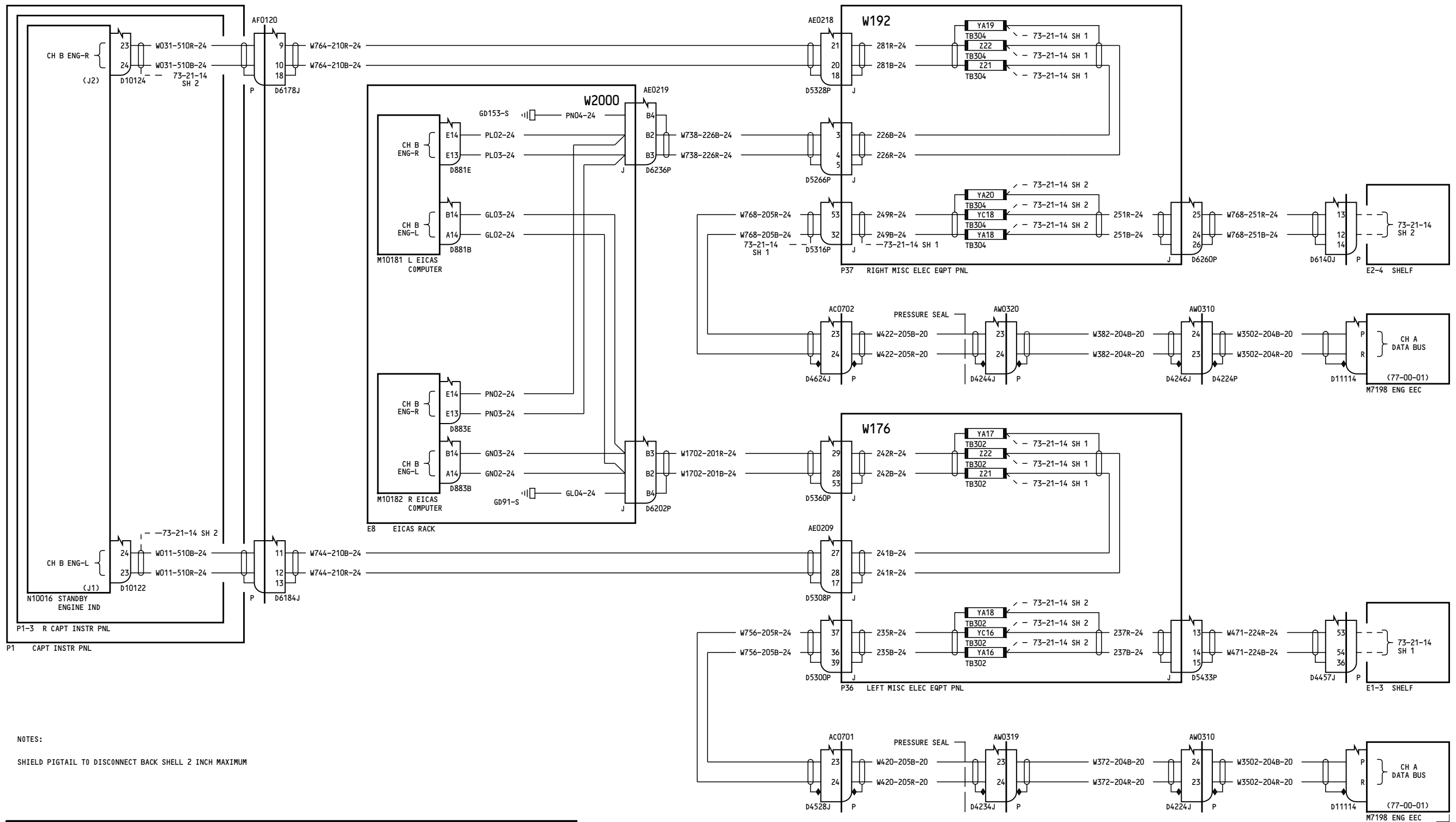
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM

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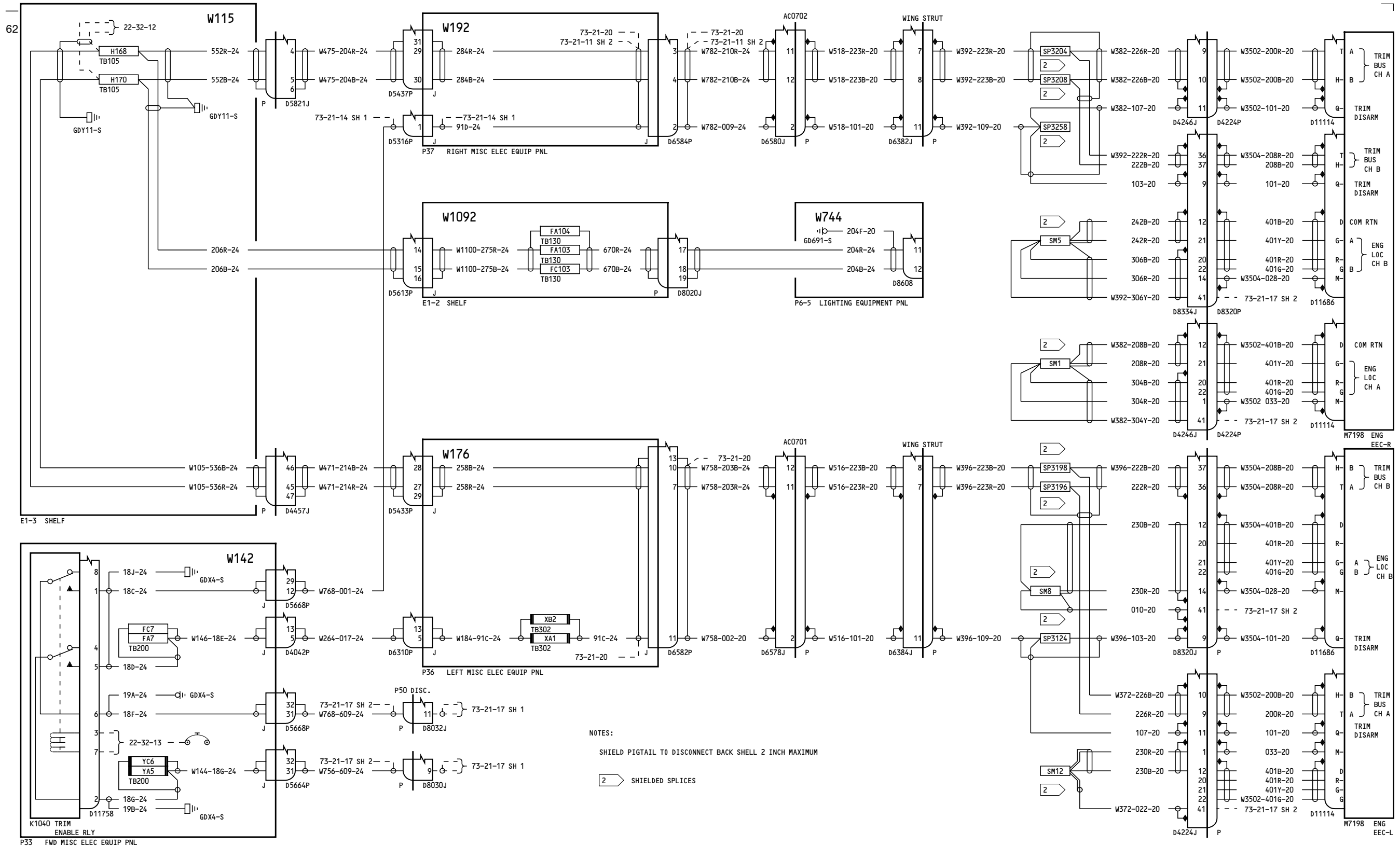
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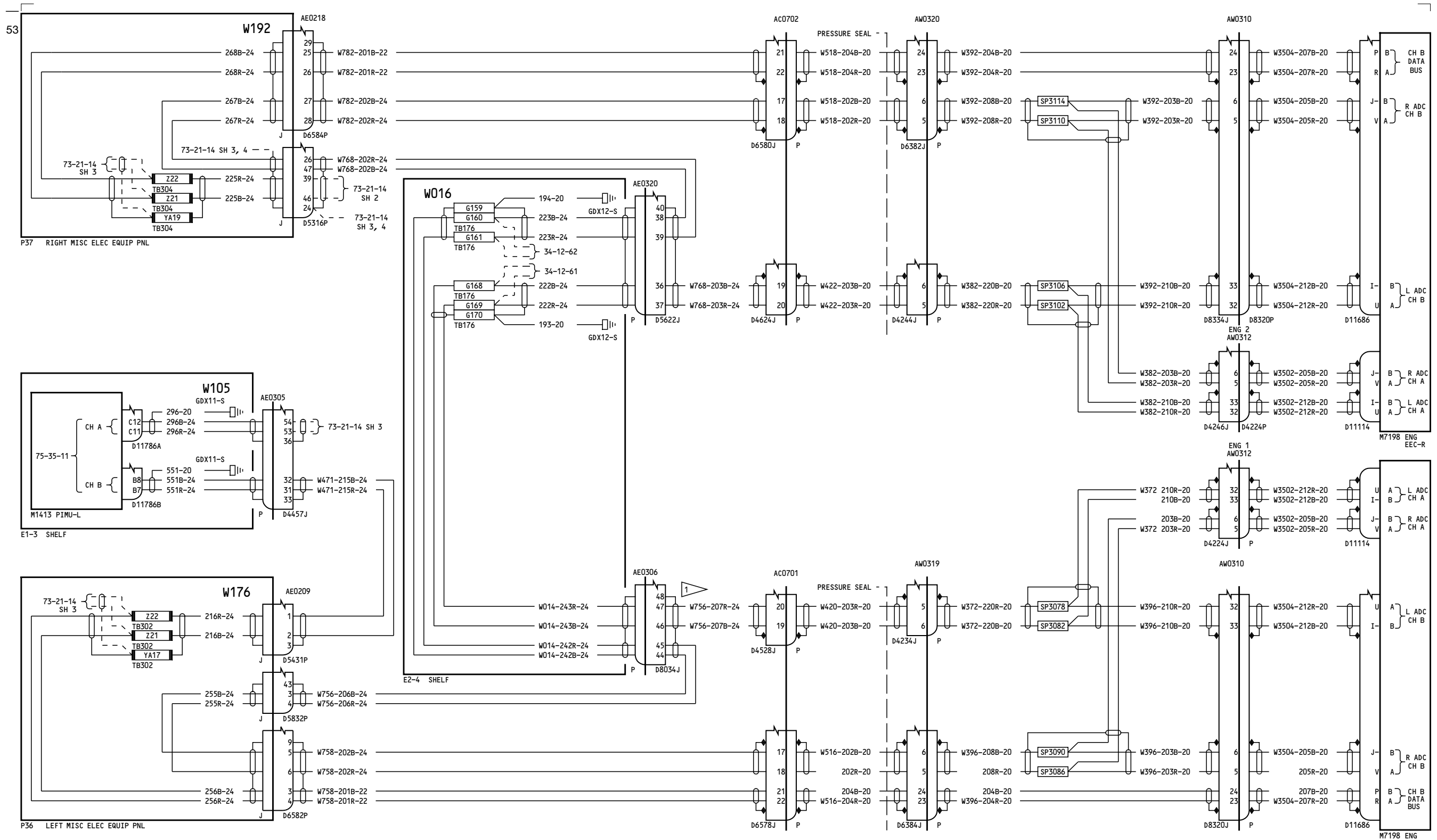
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 [Symbol] SHIELDED SPLICES

051
ELECTRONIC ENGINE CONTROL DATA BUSES
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SHIELD PIGTAIL TO DISCONNECT
BACK SHELL 2 INCH MAXIMUM

1 SHIELD GROUND PIGTAIL 6 INCH MAXIMUM

150-154, 162-165, 275-276

ELECTRONIC ENGINE CONTROL DATA BUSES

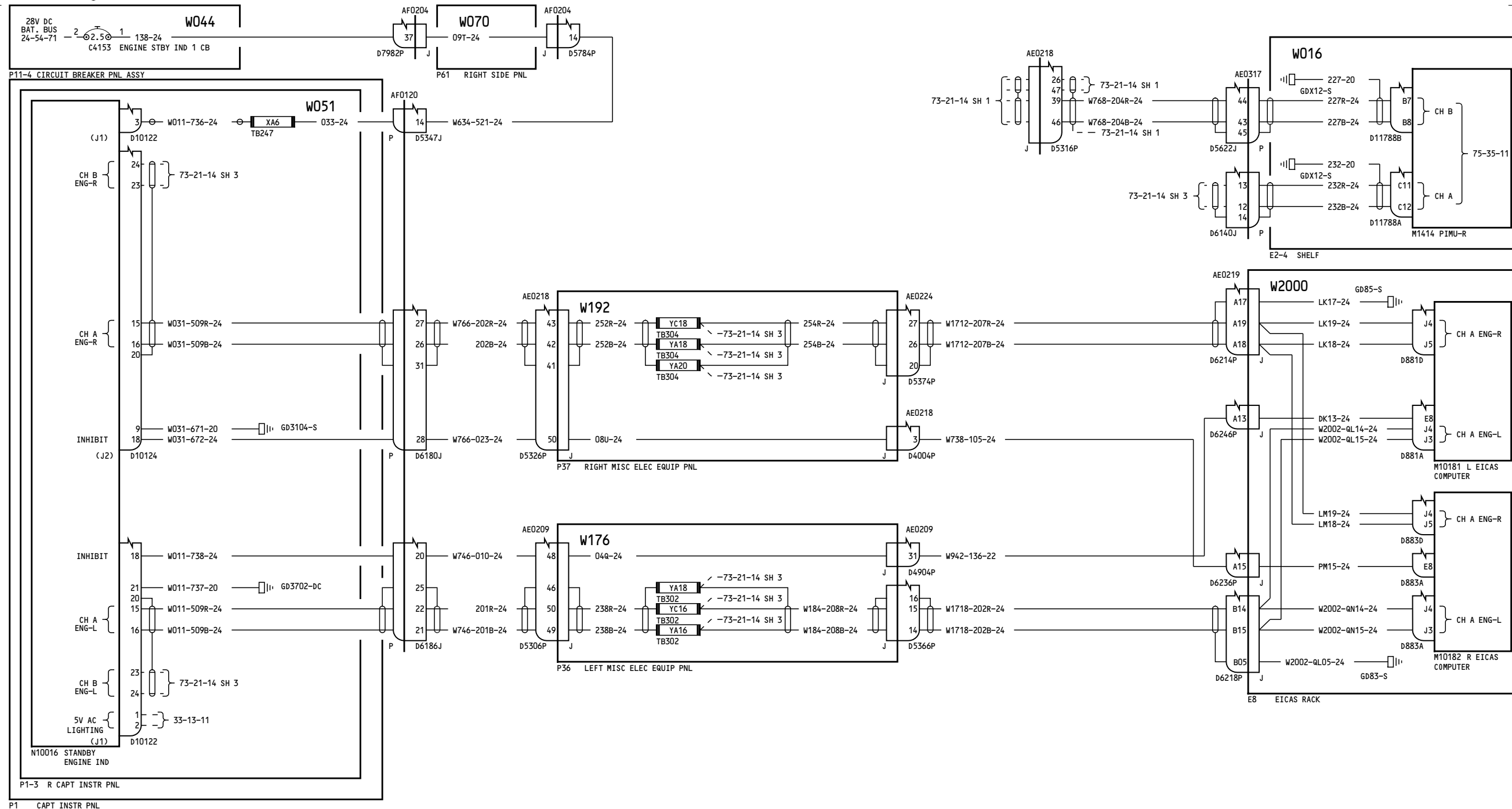
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150-154, 162-165, 275-276

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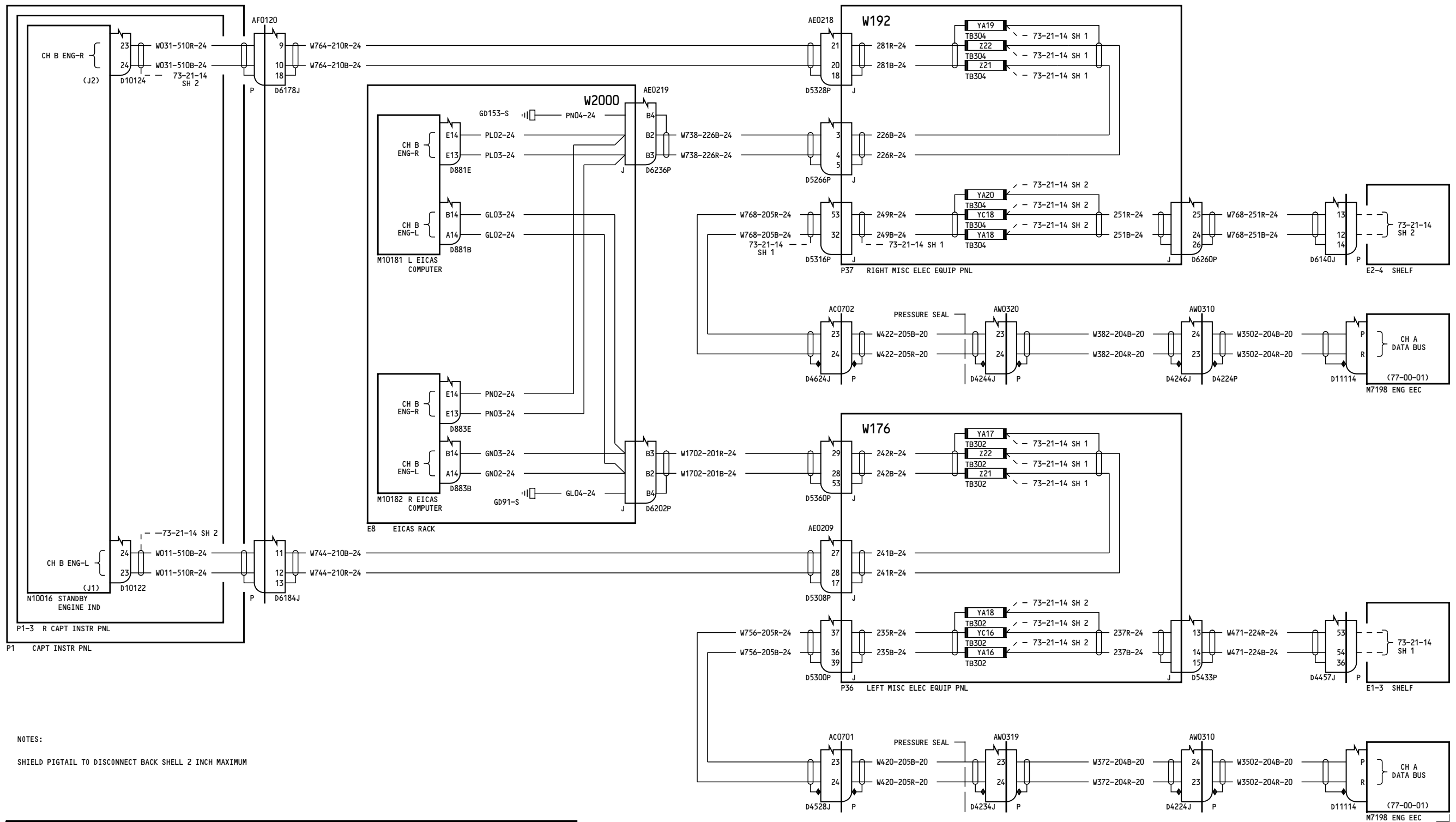
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM

150-154, 162-165, 275-276

ELECTRONIC ENGINE CONTROL DATA BUSES

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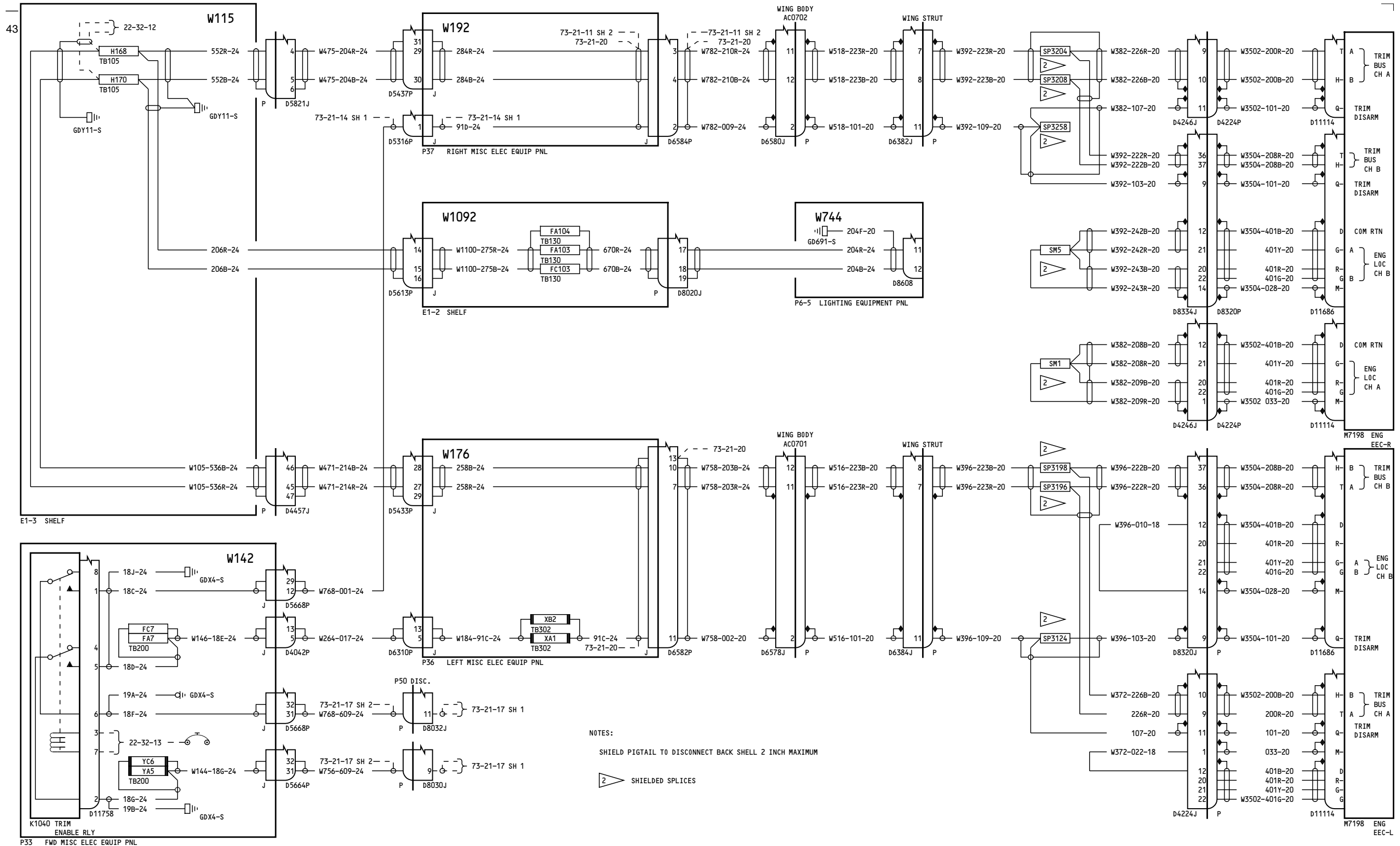
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150-154, 162-165, 275-276

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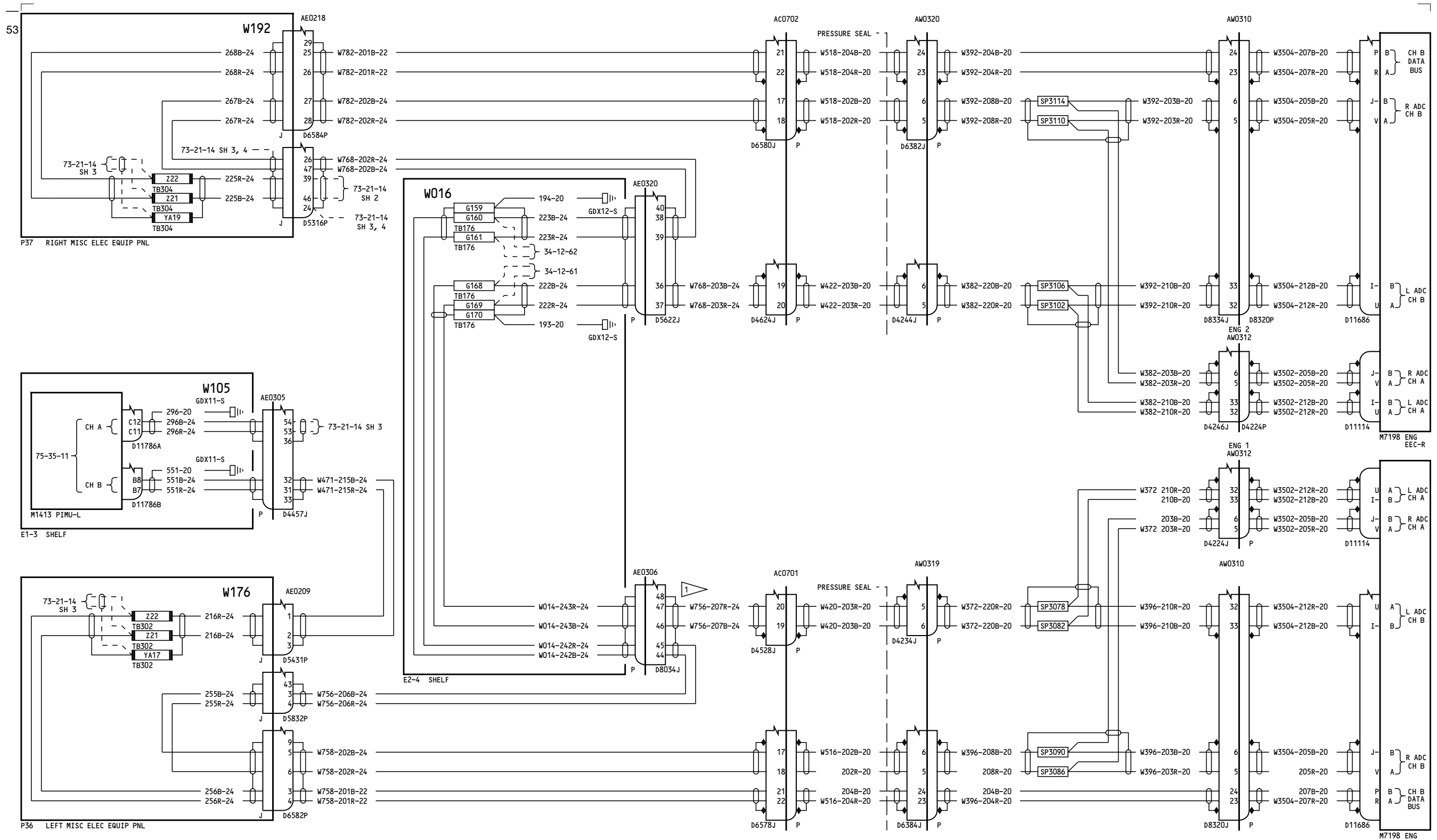
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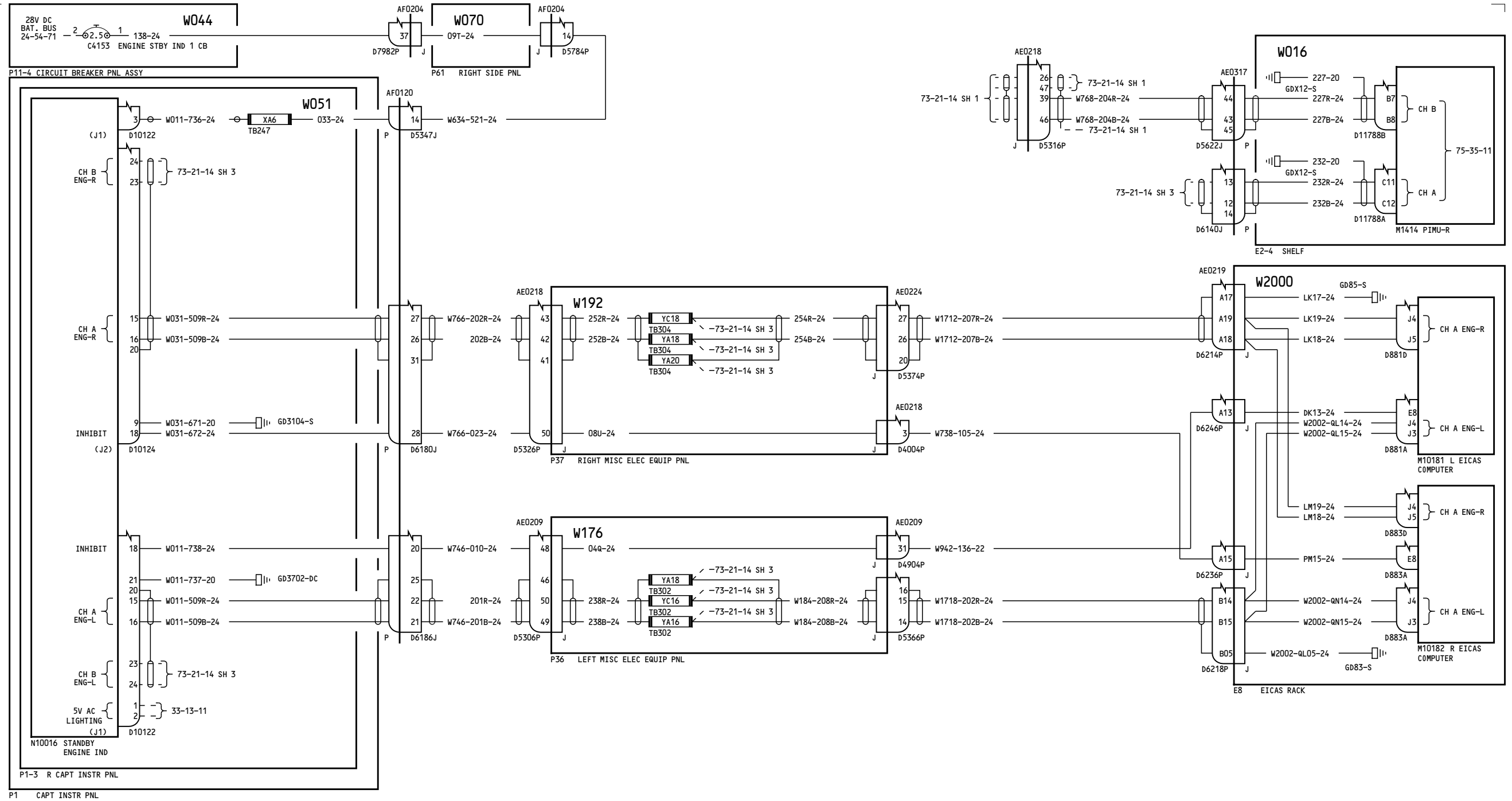
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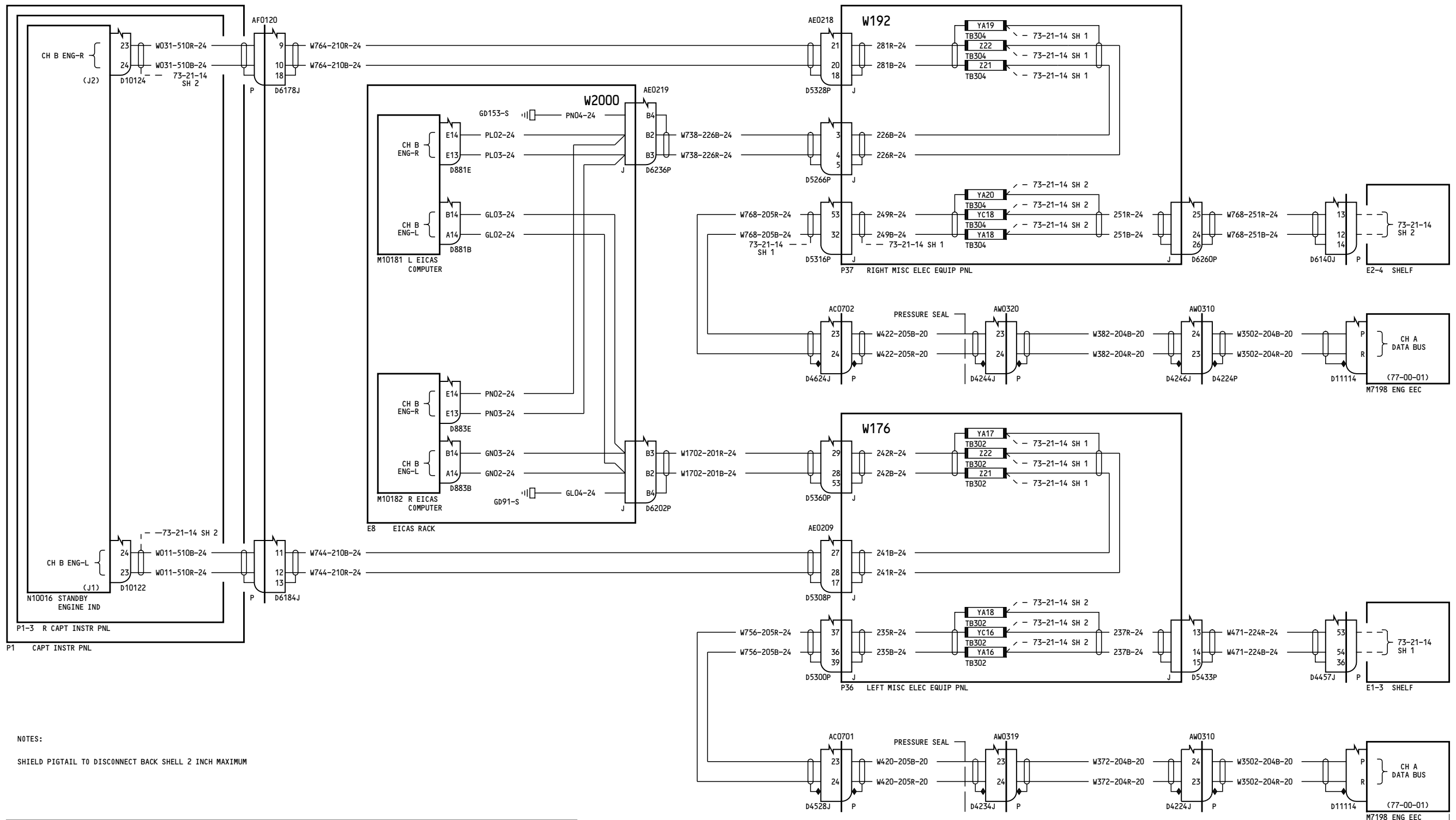
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NOTES:
SHIELD PIGTAIL TO DISCONNECT
BACK SHELL 2 INCH MAXIMUM

1 SHIELD GROUND PIGTAIL 6 INCH MAXIMUM





NOTES:
SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM

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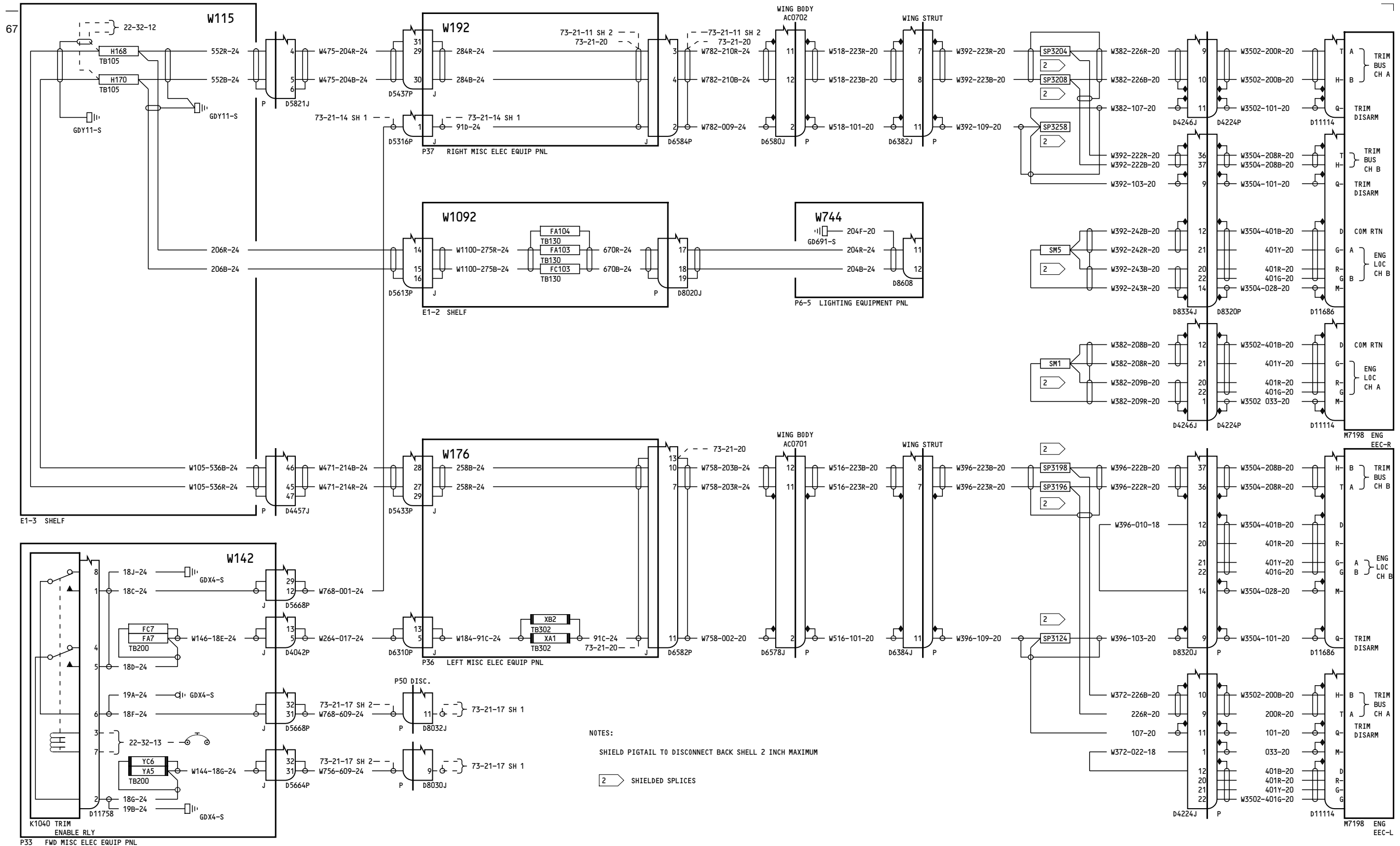
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NOTES:
 SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM
 [Symbol] SHIELDED SPLICES

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ELECTRONIC ENGINE CONTROL DATA BUSES
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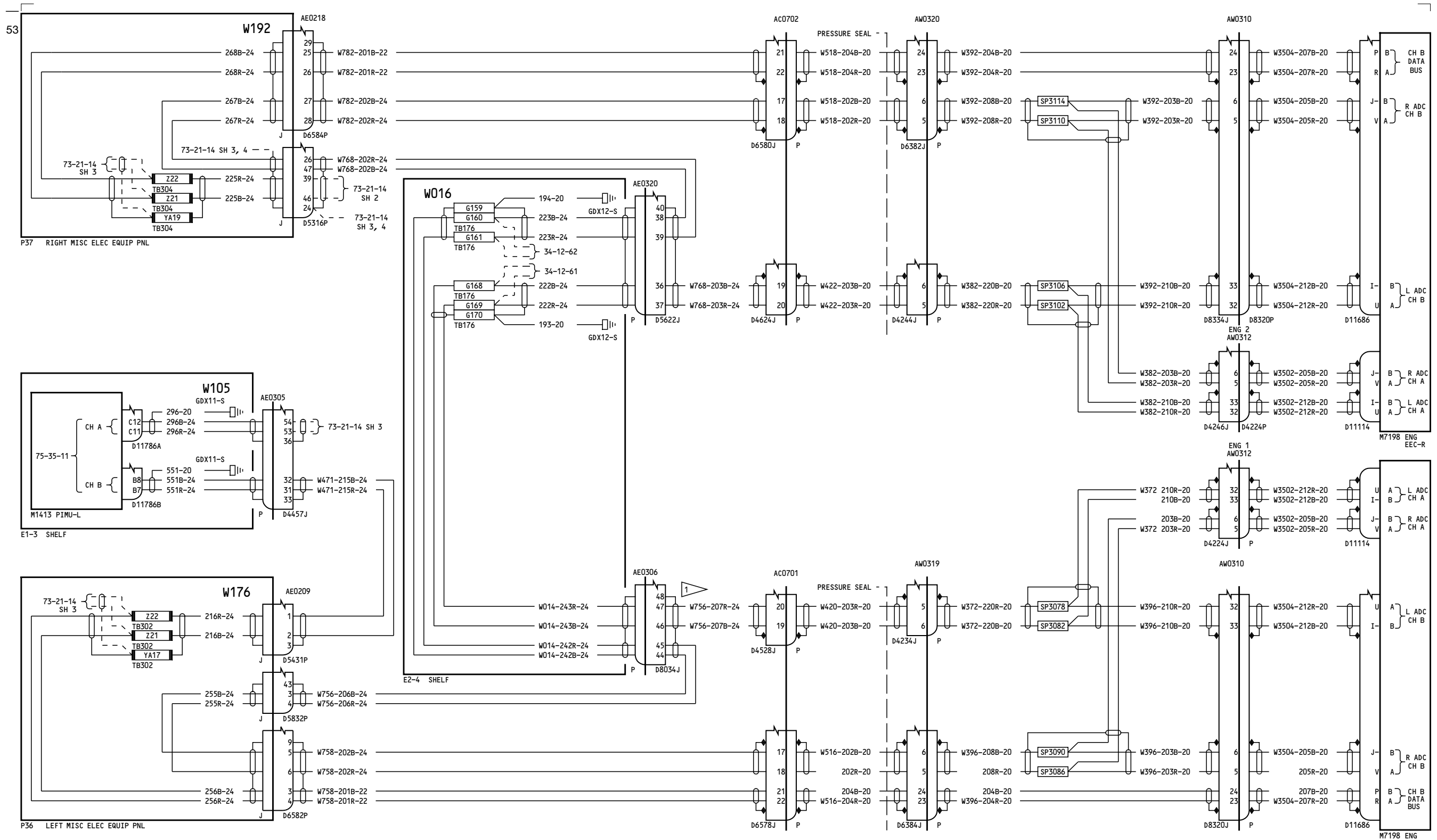
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NOTES:
SHIELD PIGTAIL TO DISCONNECT
BACK SHELL 2 INCH MAXIMUM

1 SHIELD GROUND PIGTAIL 6 INCH MAXIMUM

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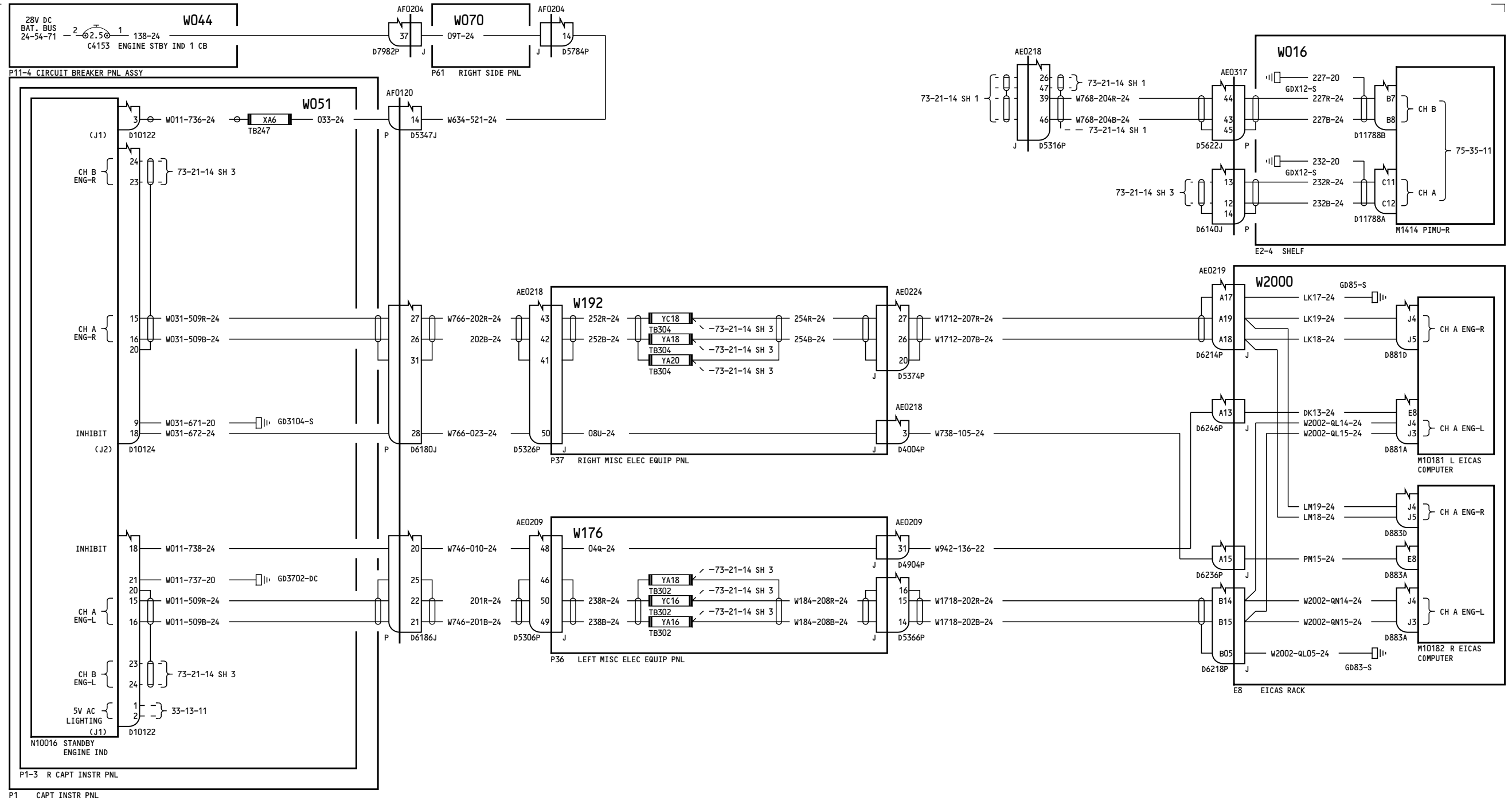
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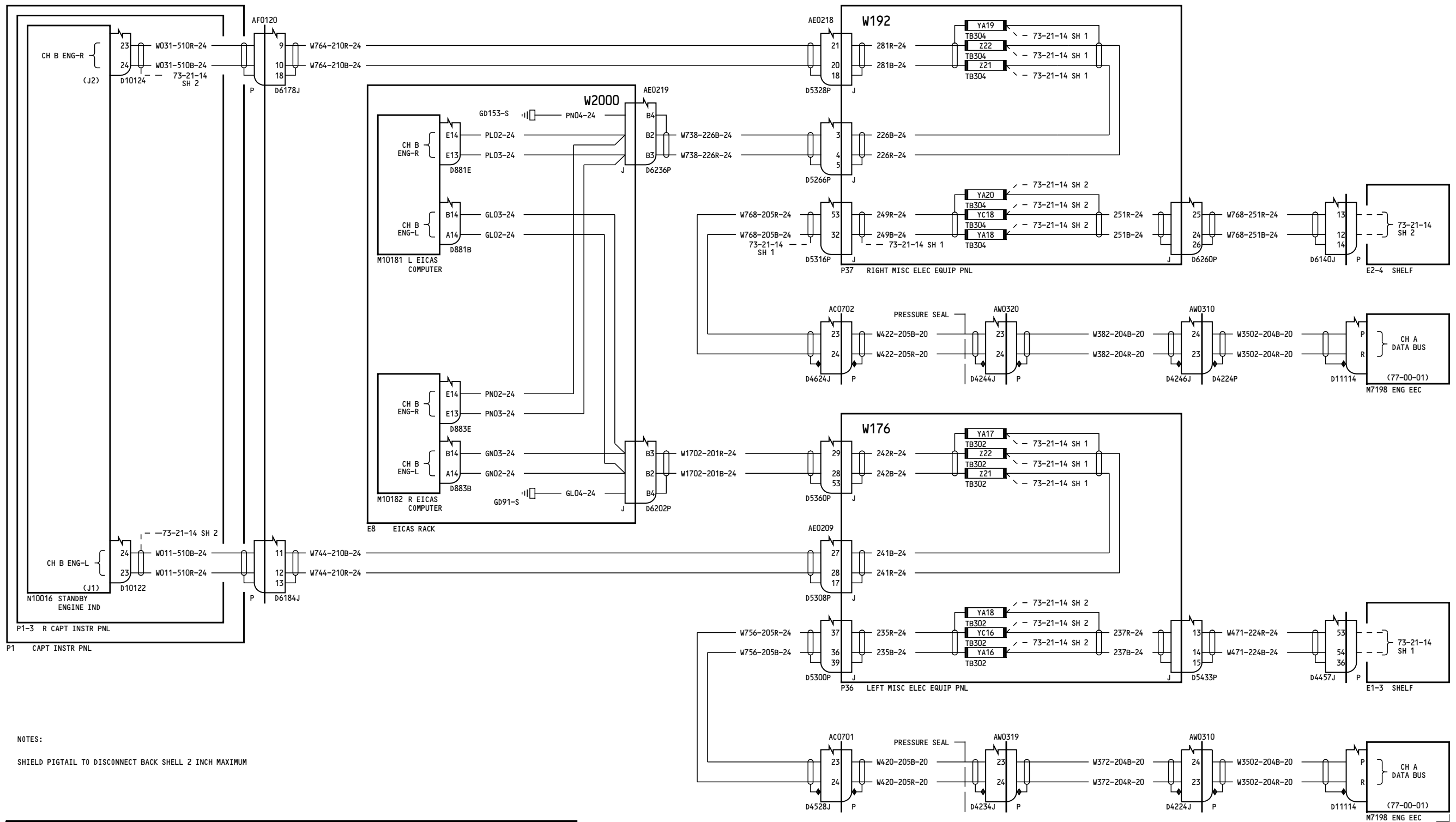
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NOTES:
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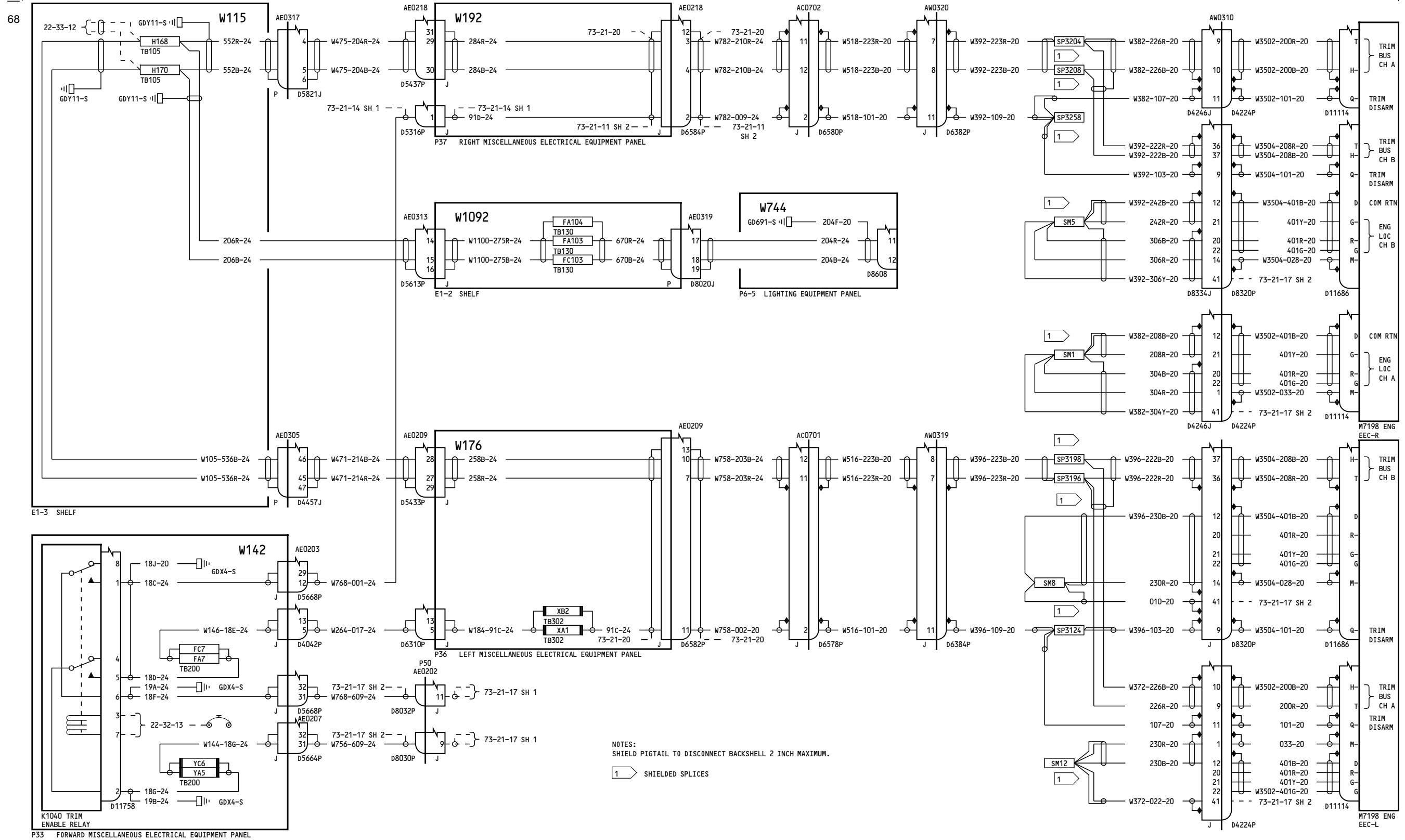
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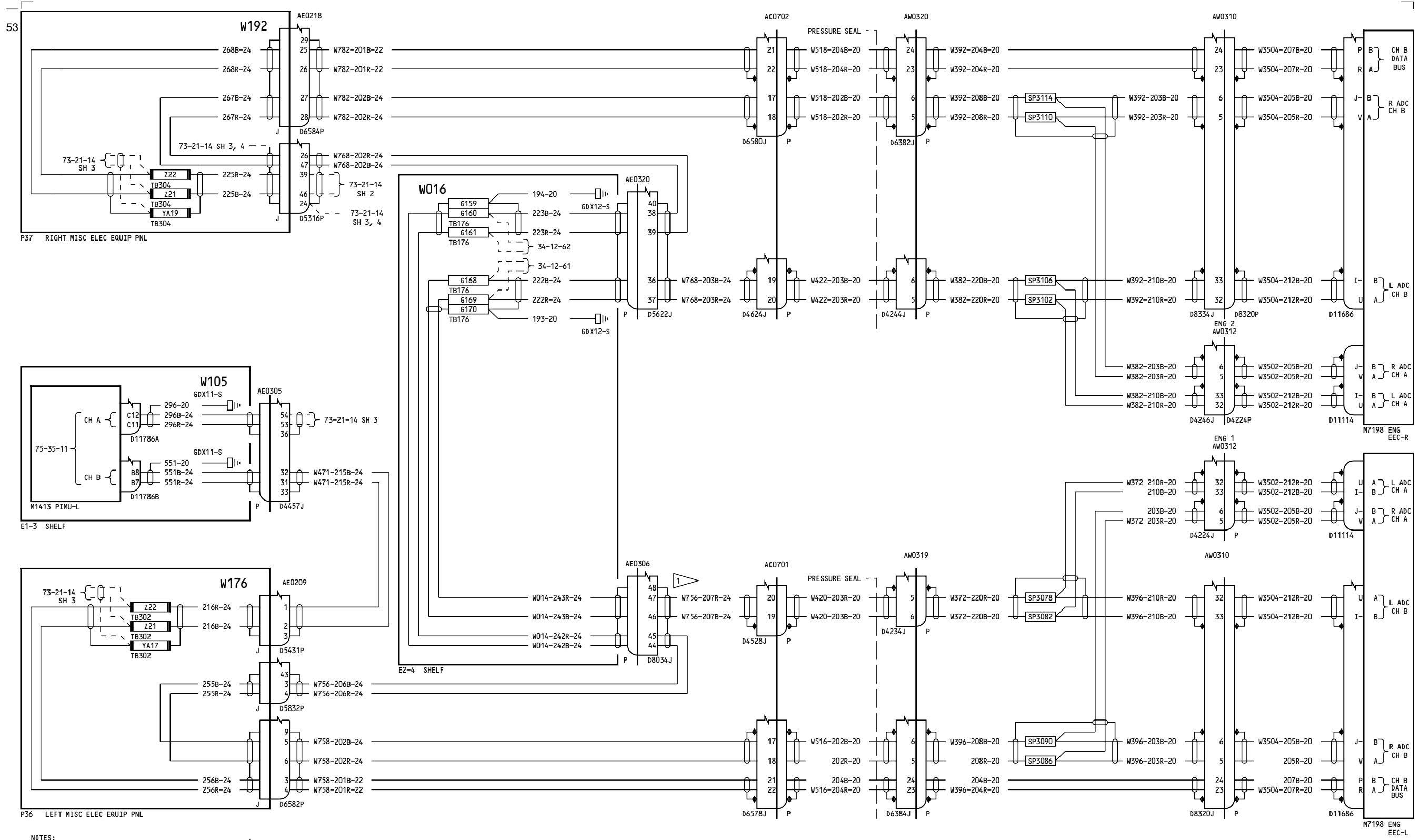
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 SHIELD PIGTAIL TO DISCONNECT
 BACK SHELL 2 INCH MAXIMUM

SHIELD GROUND PIGTAIL 6 INCH MAXIMUM

155-157, 166-199

**ELECTRONIC ENGINE CONTROL
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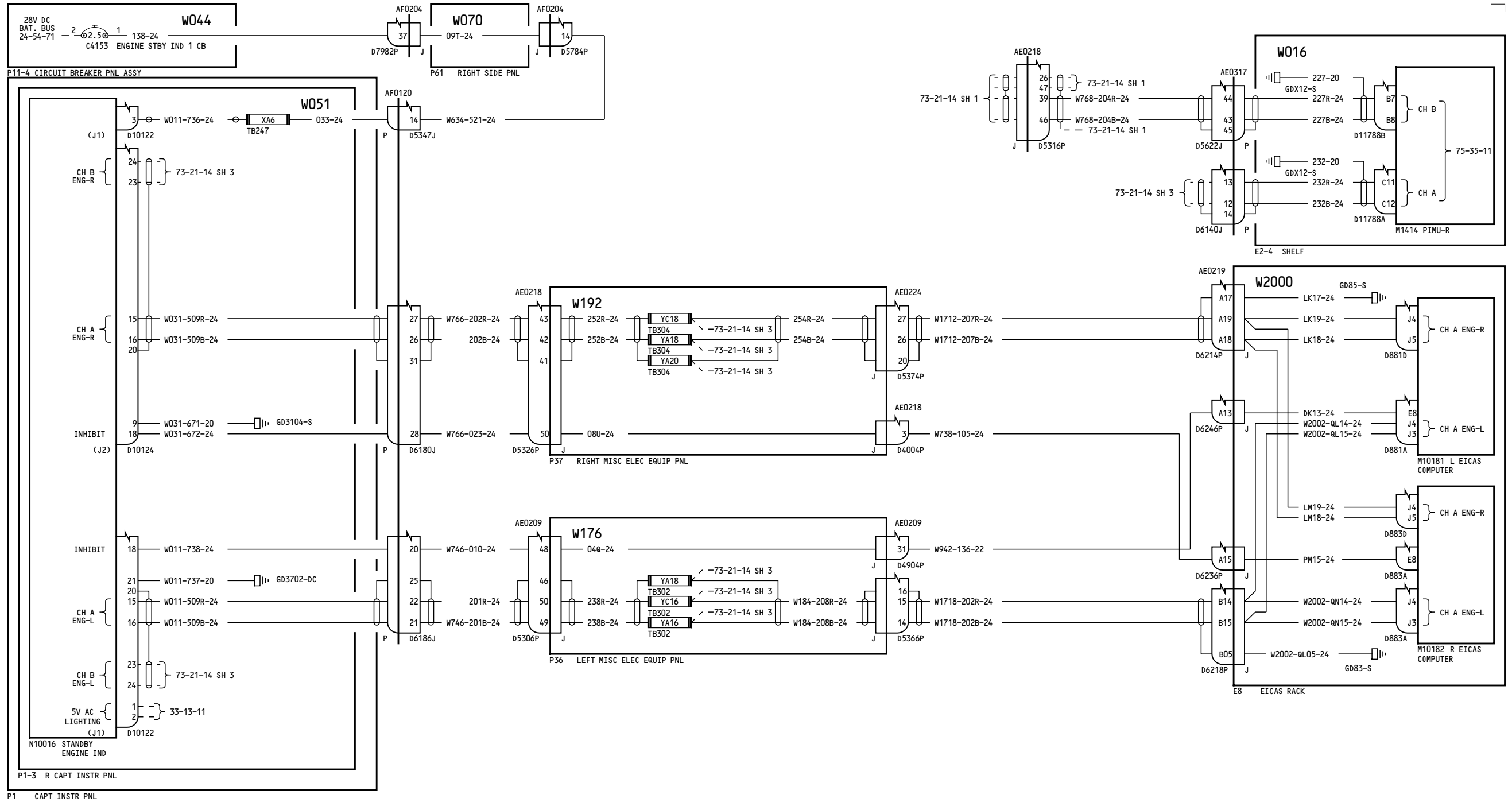
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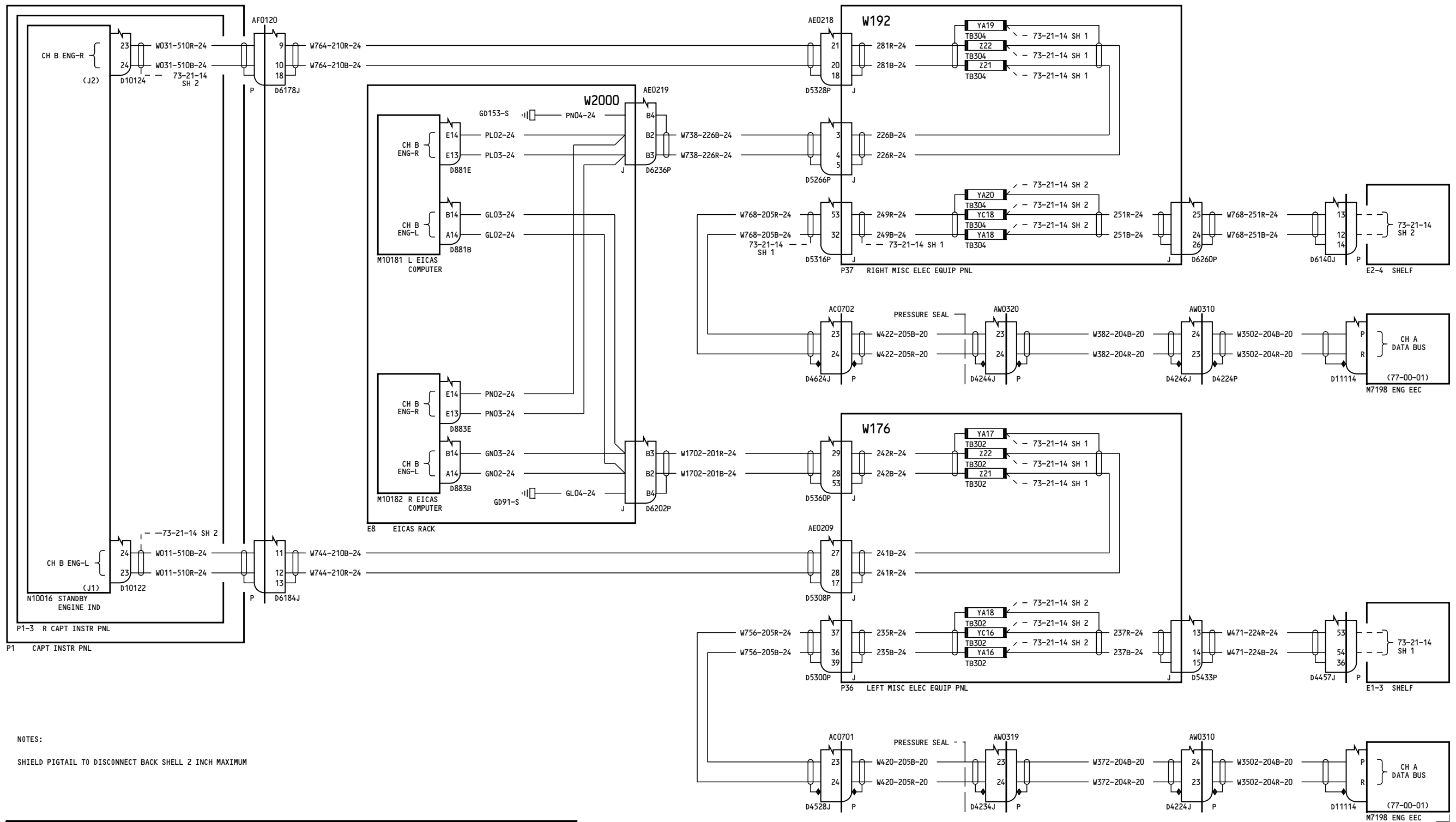
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM

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ELECTRONIC ENGINE CONTROL DATA BUSES

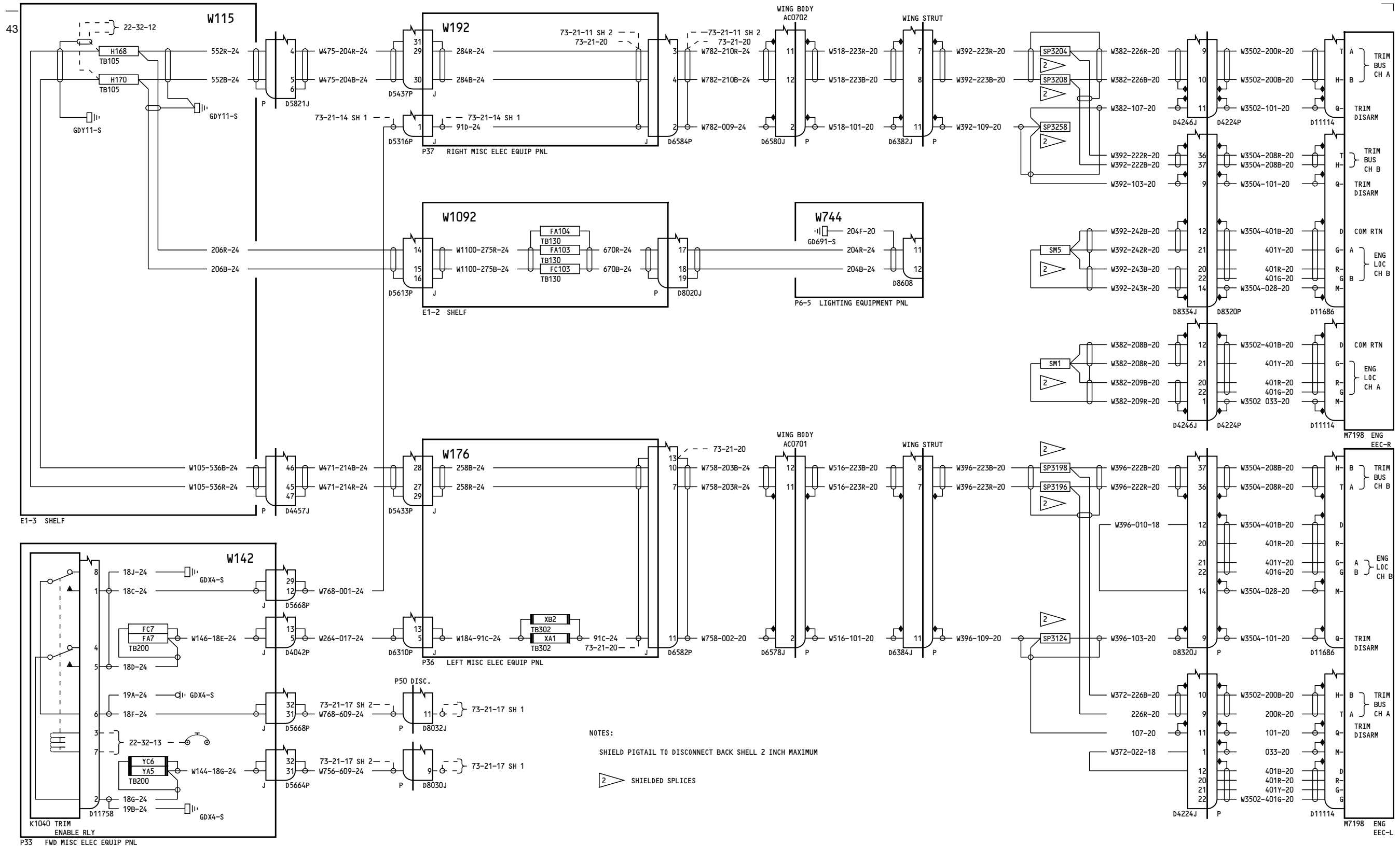
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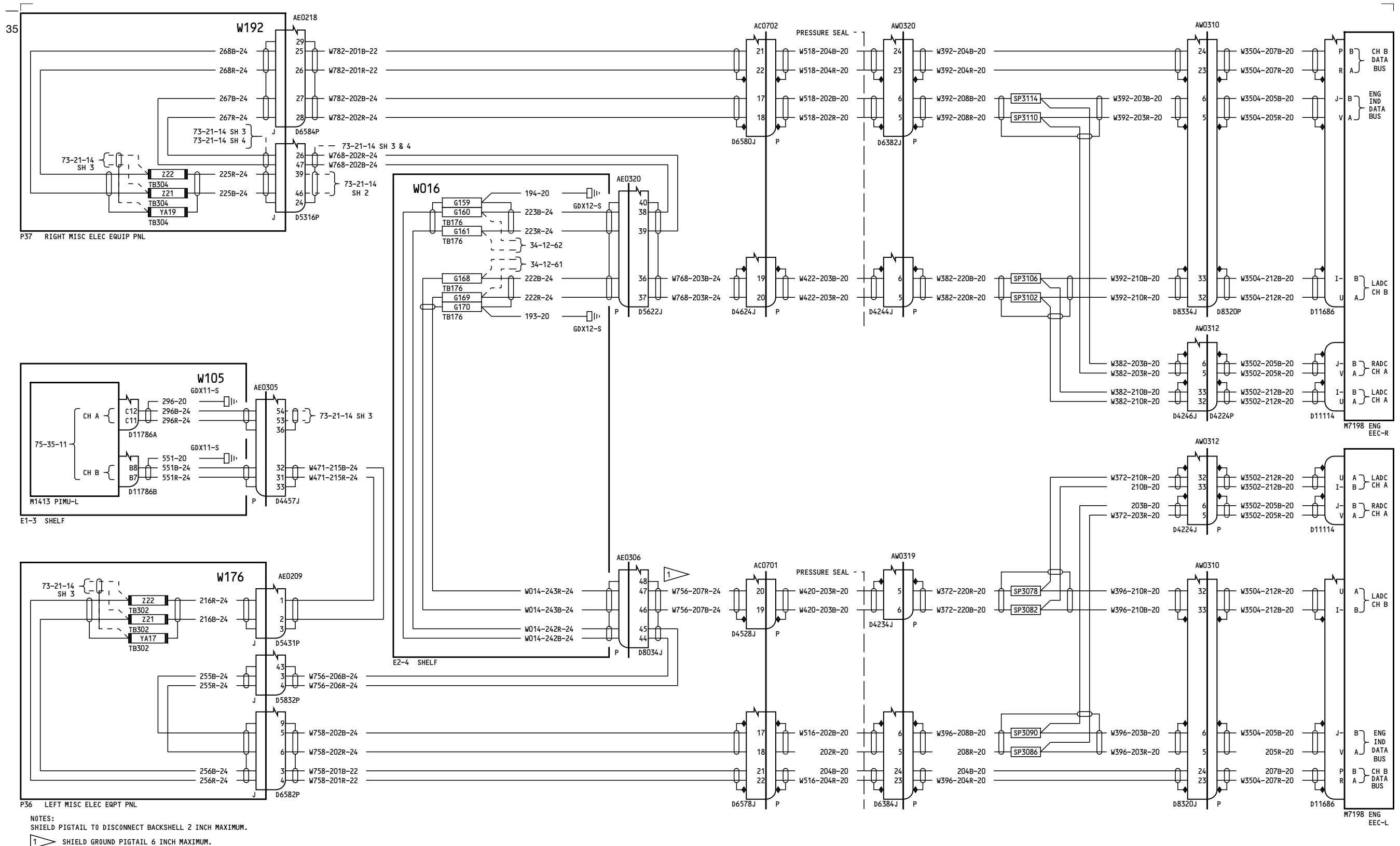
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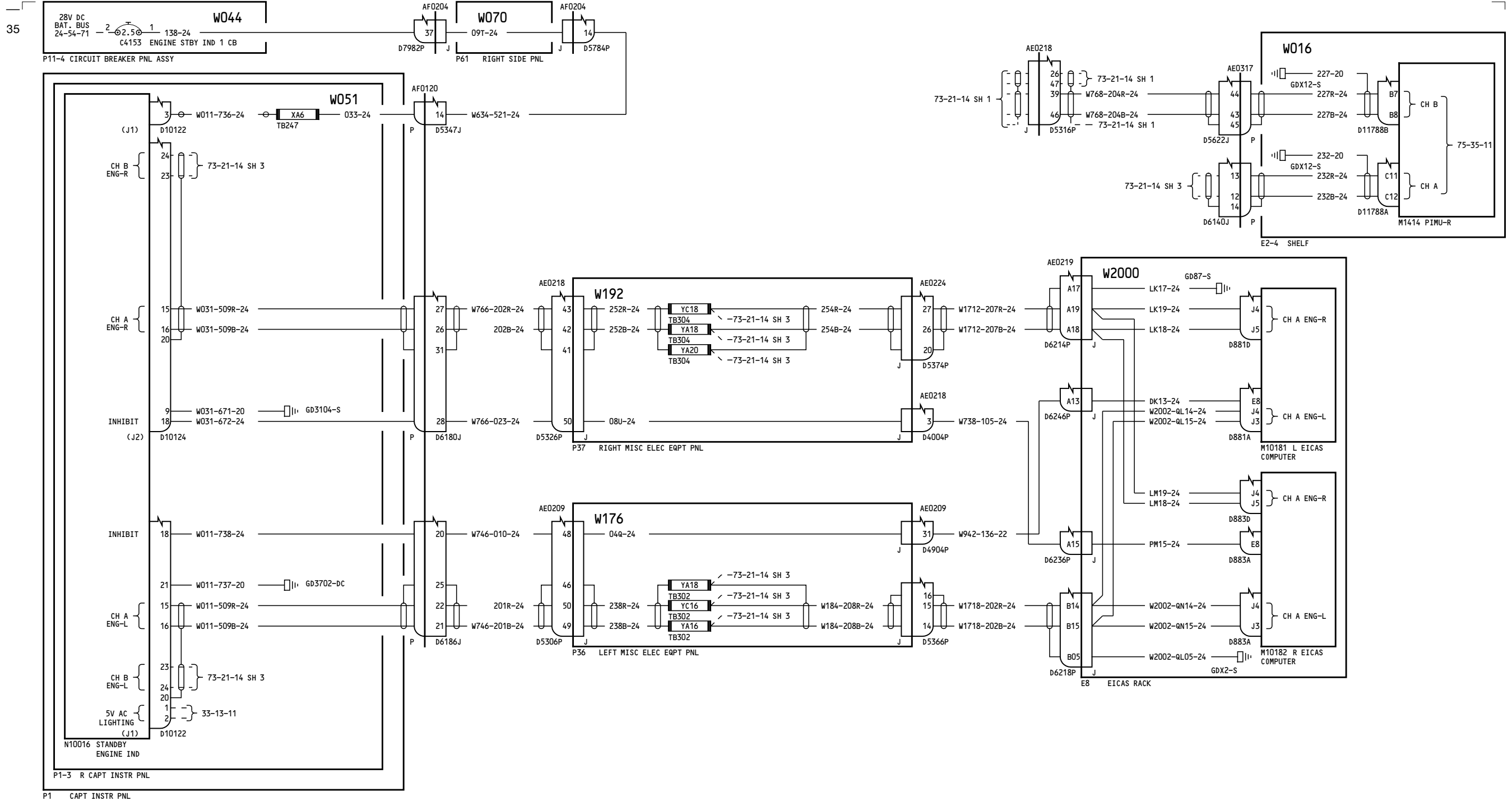
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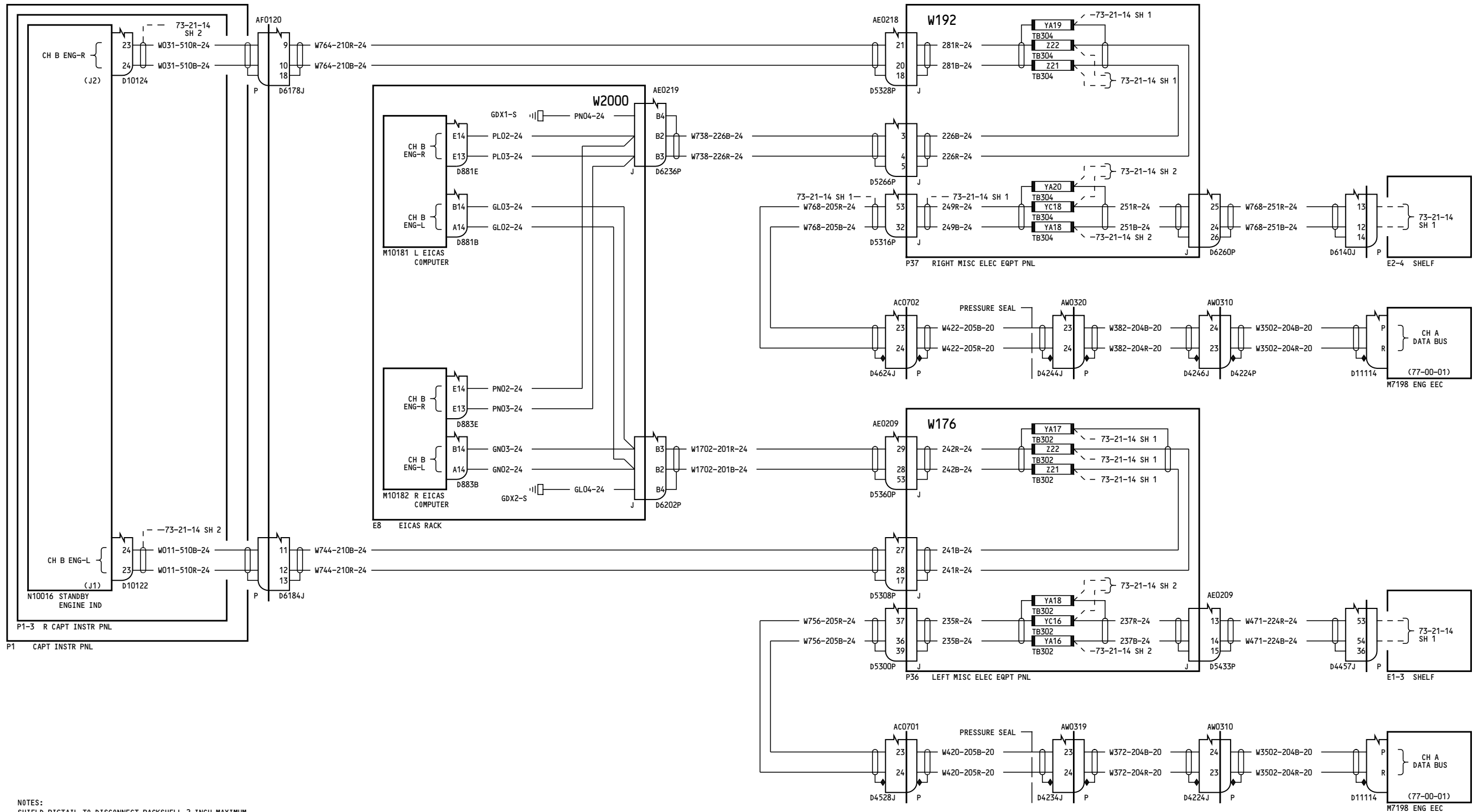
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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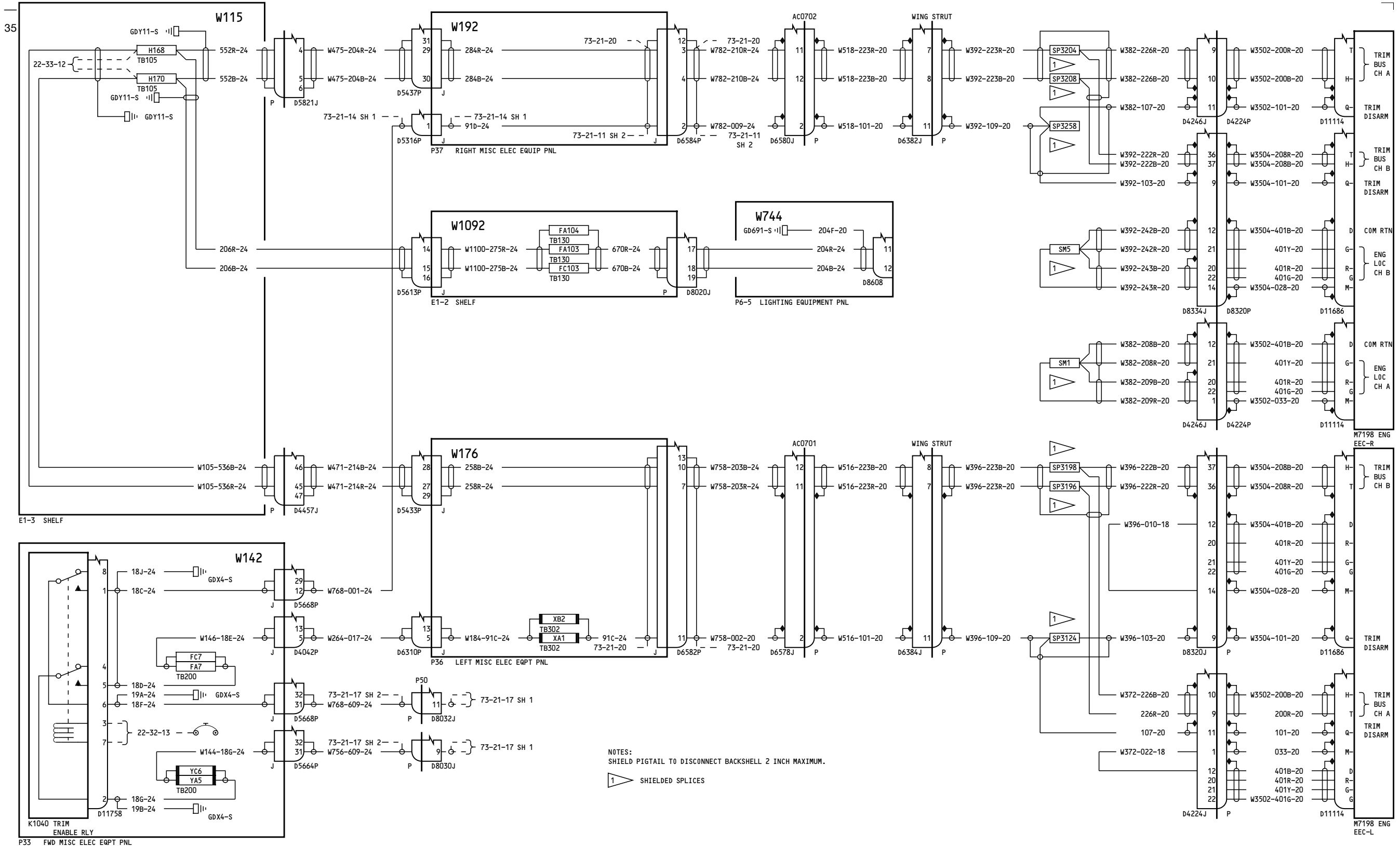
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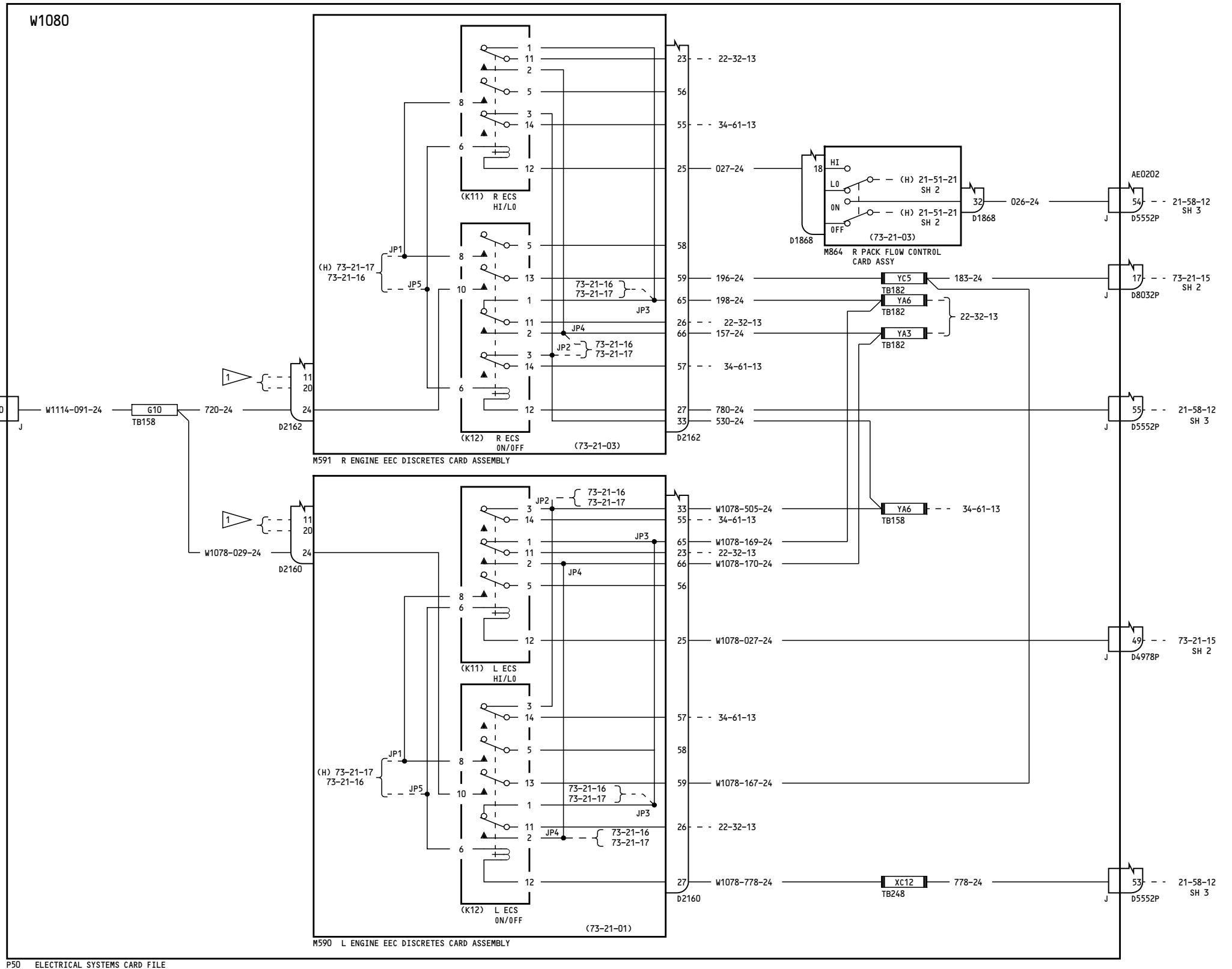
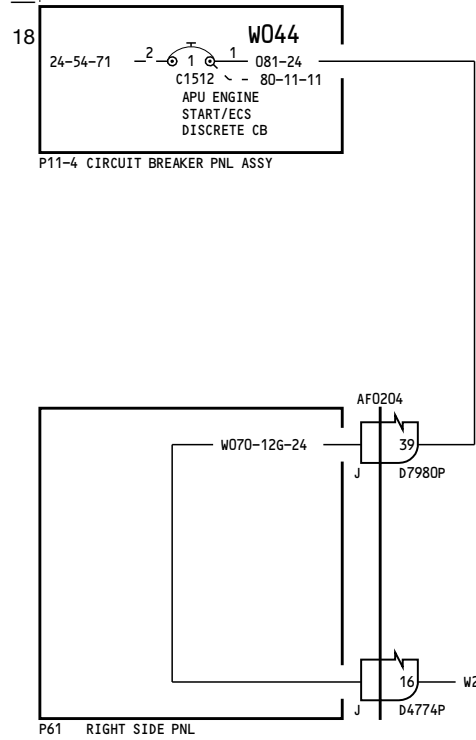
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SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM.
1 SHIELDED SPLICES

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NOTES:
1 CONNECTOR KEYING PLUGS

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ELECTRONIC ENGINE CONTROL ENVIRONMENTAL CONTROL SYSTEM DISCRETES

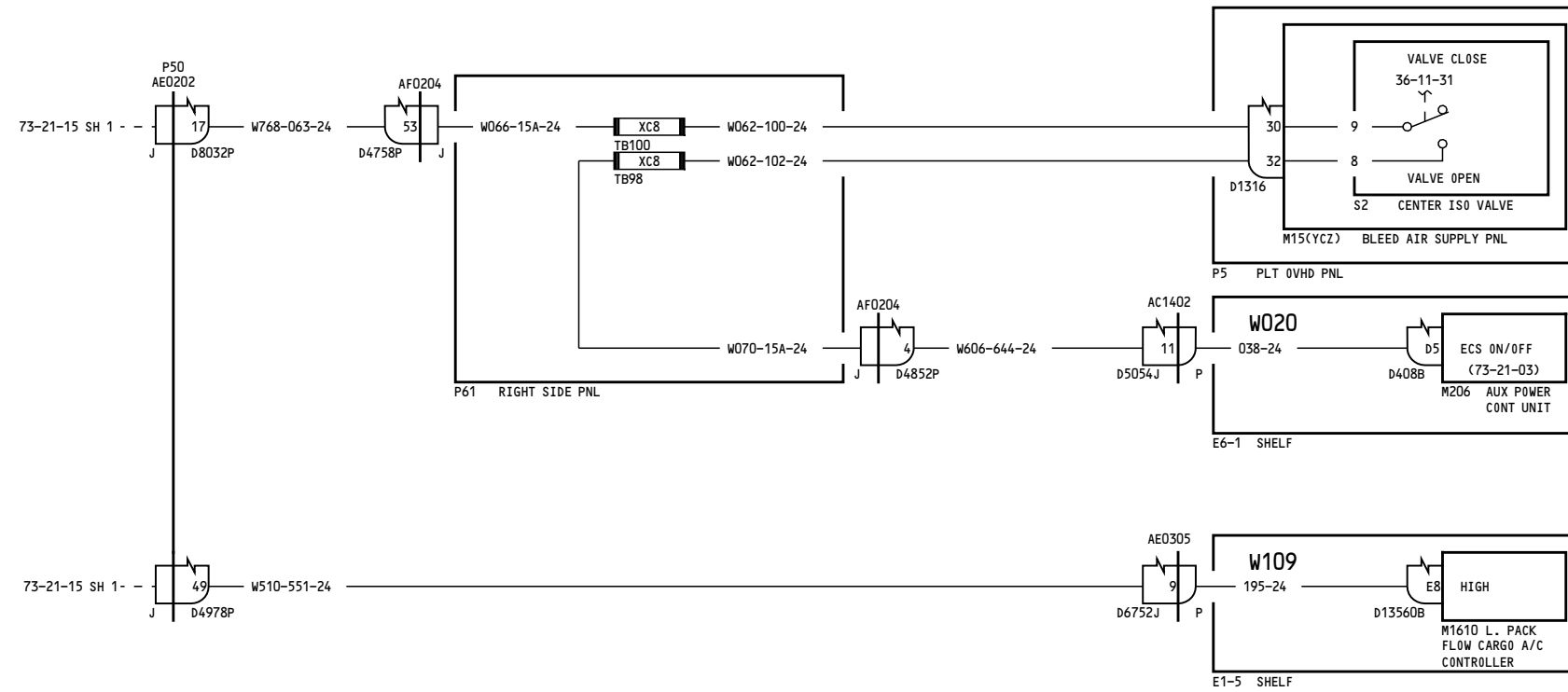
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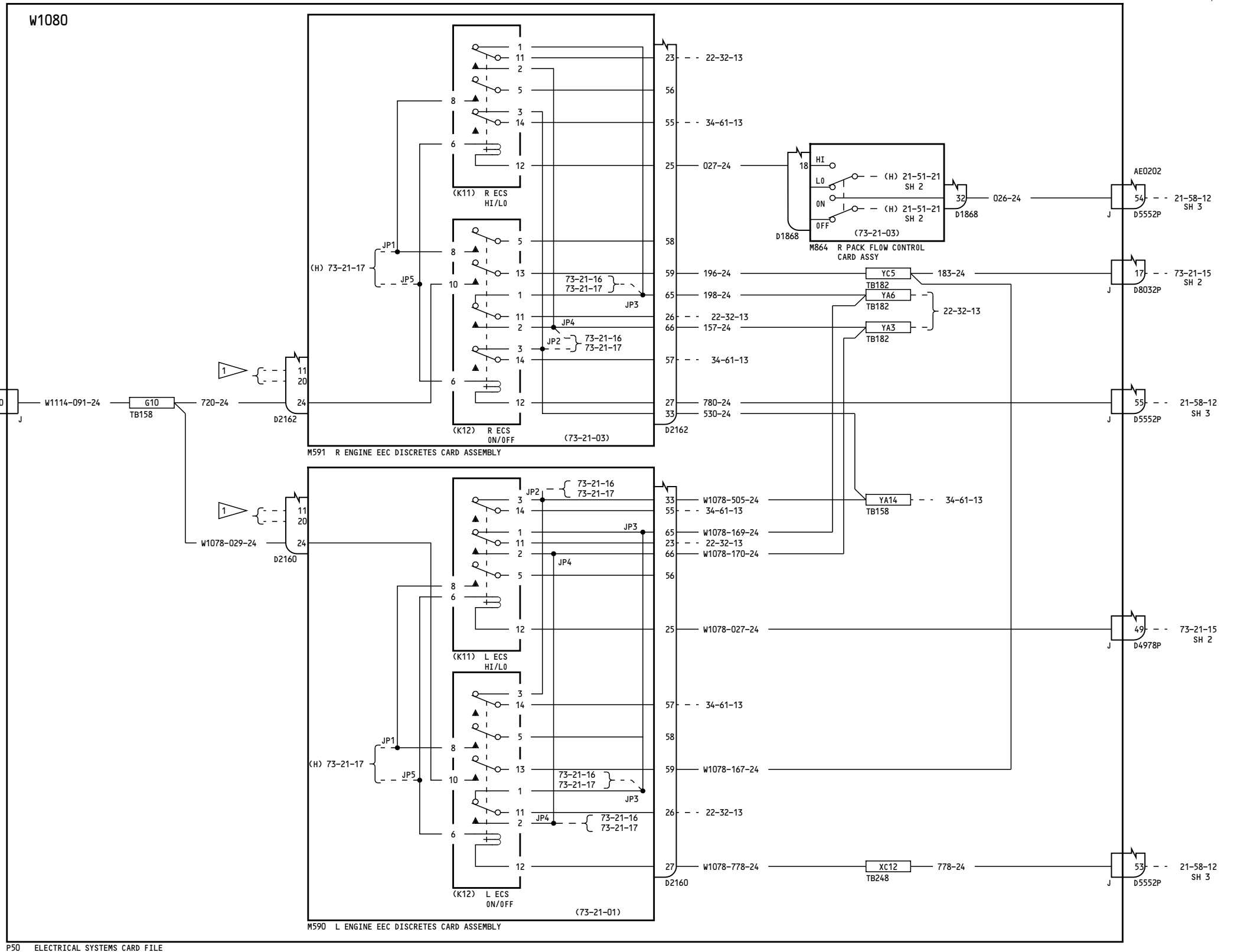
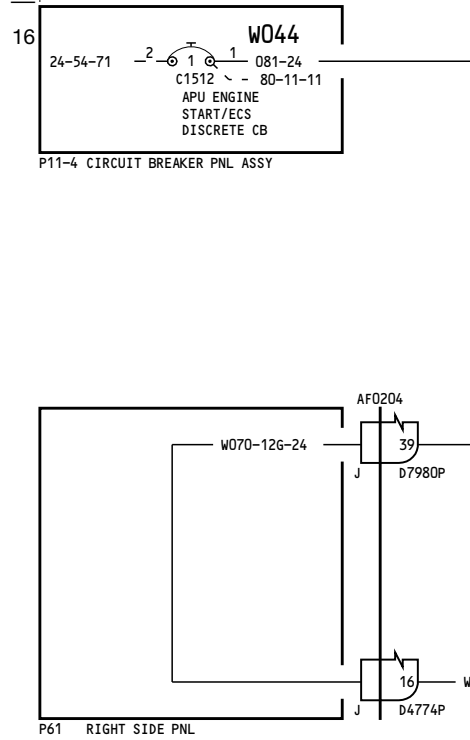
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NOTES:
 1 CONNECTOR KEYING PLUGS

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**ELECTRONIC ENGINE CONTROL
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 SYSTEM DISCRETES**

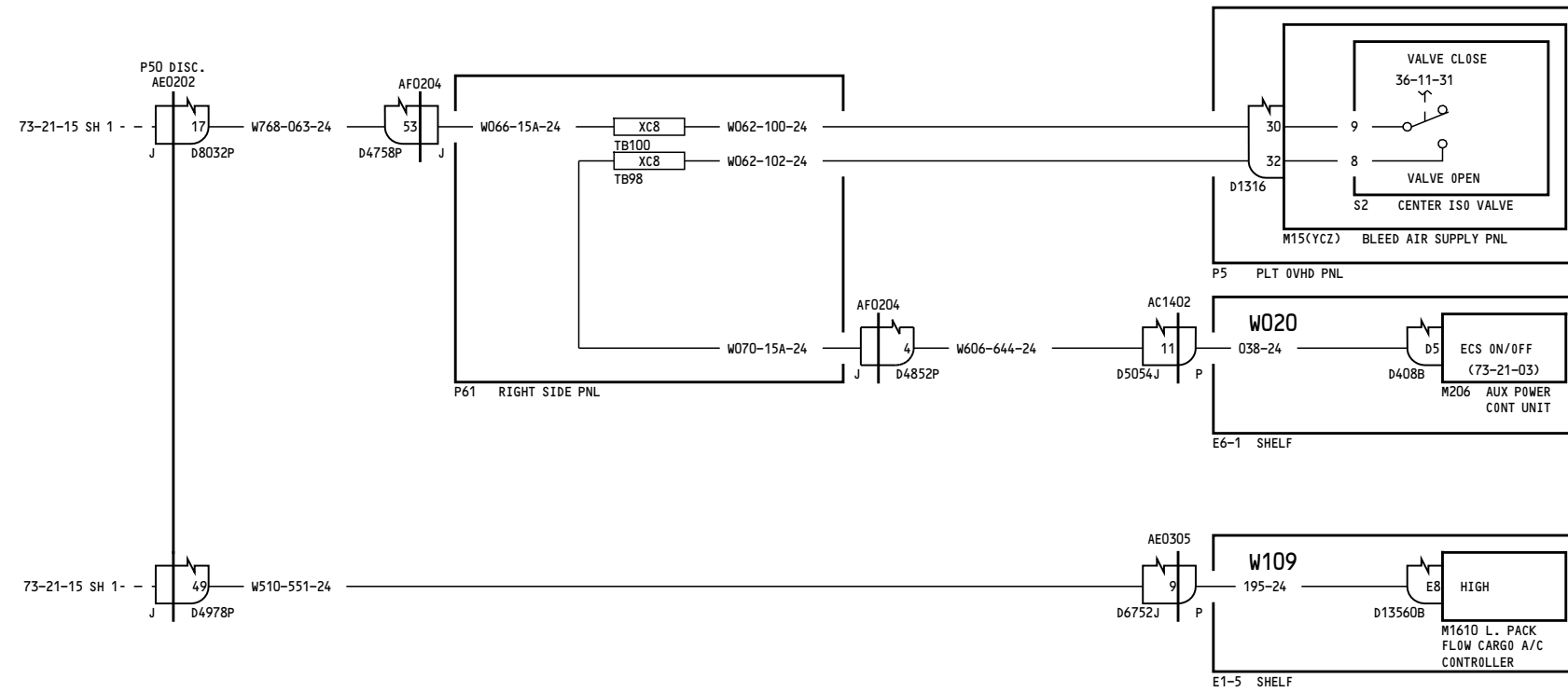
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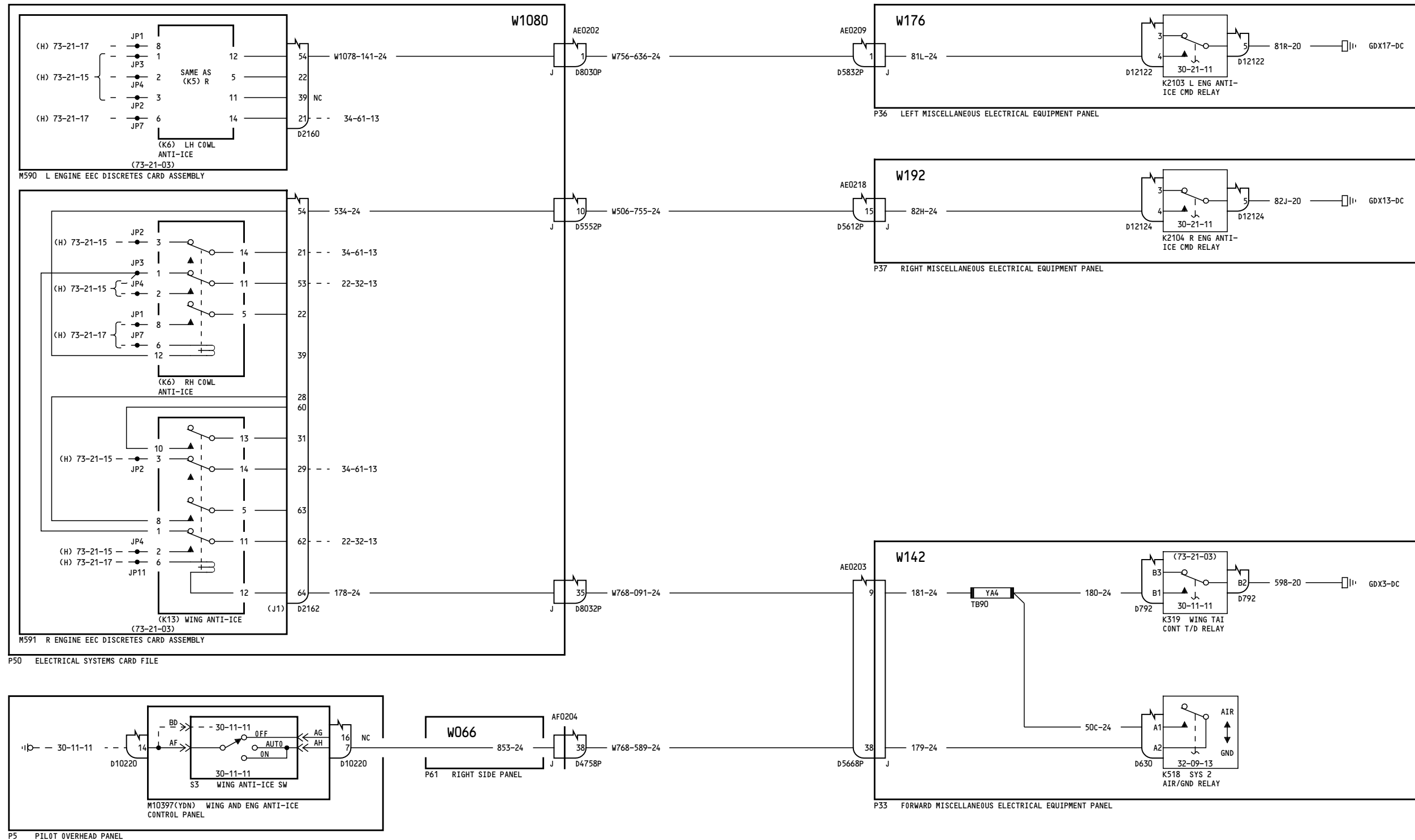
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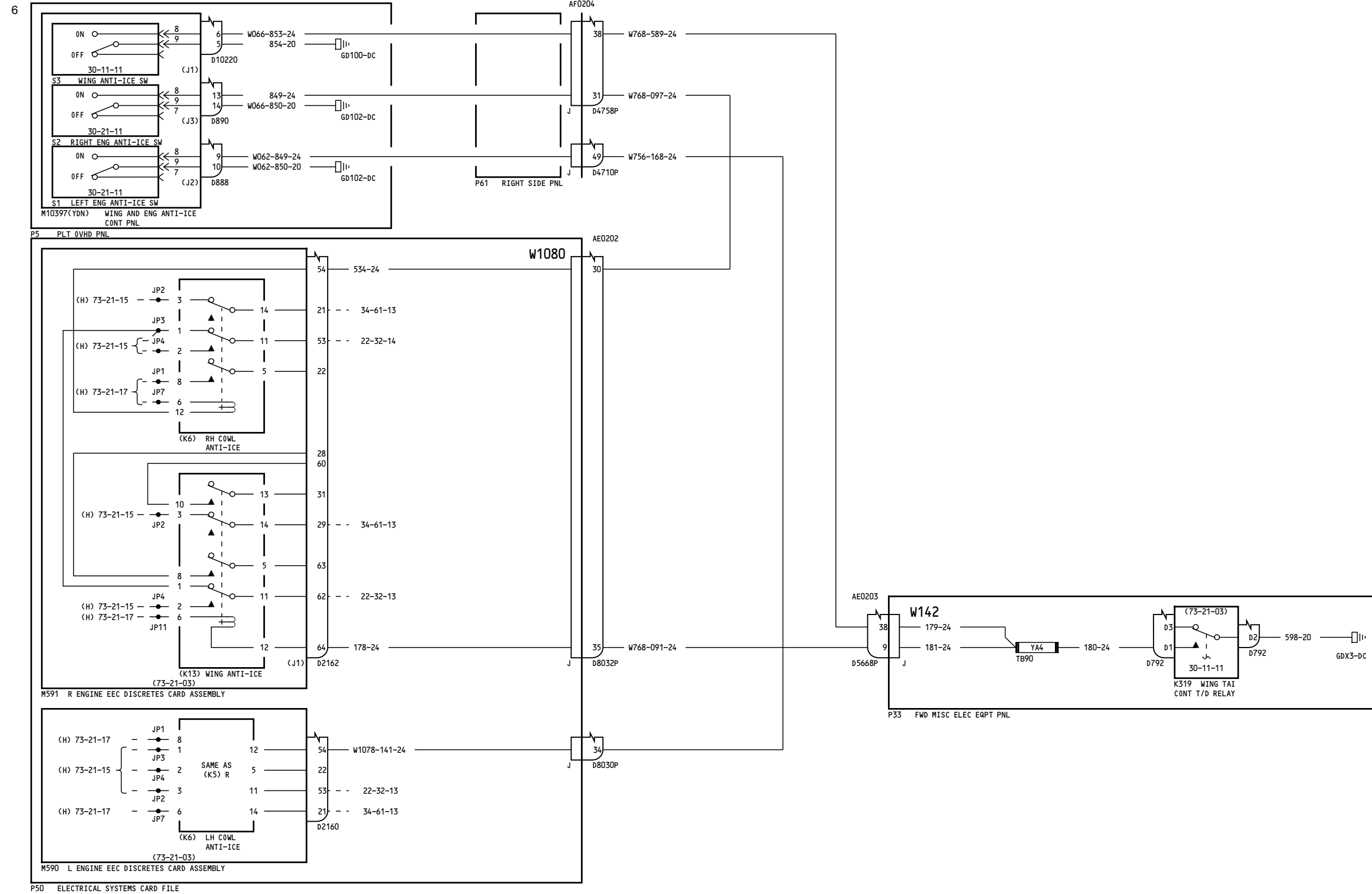
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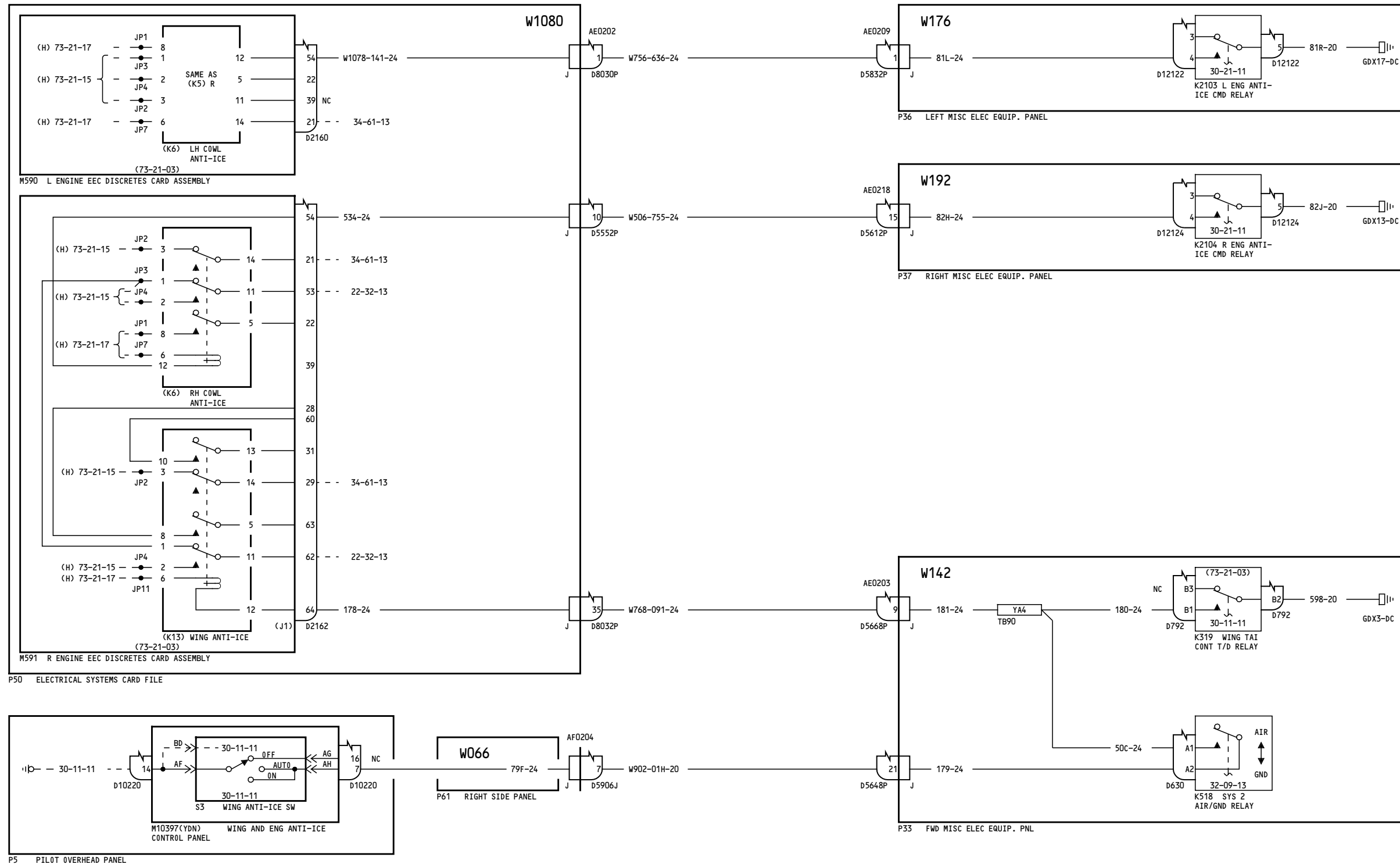
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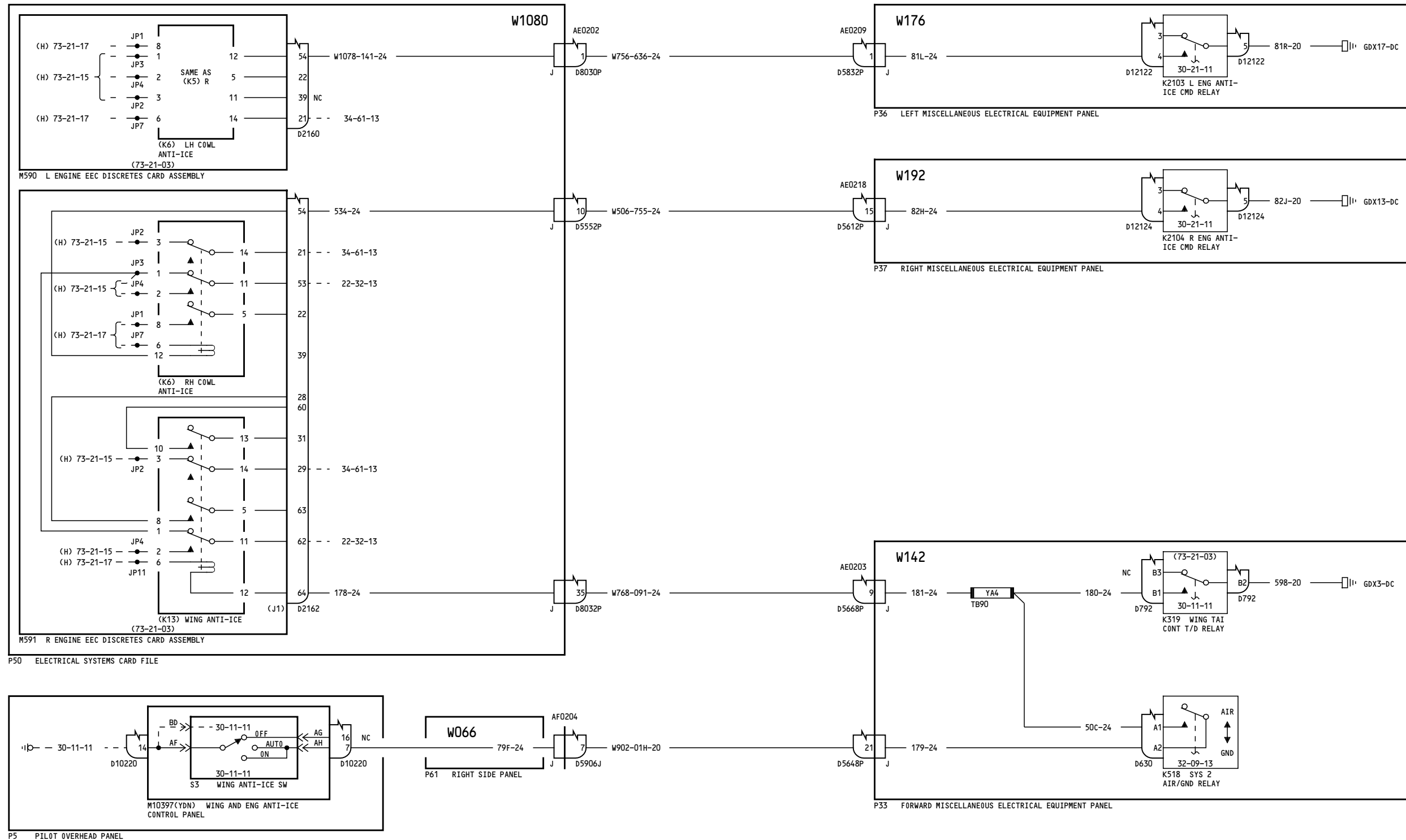
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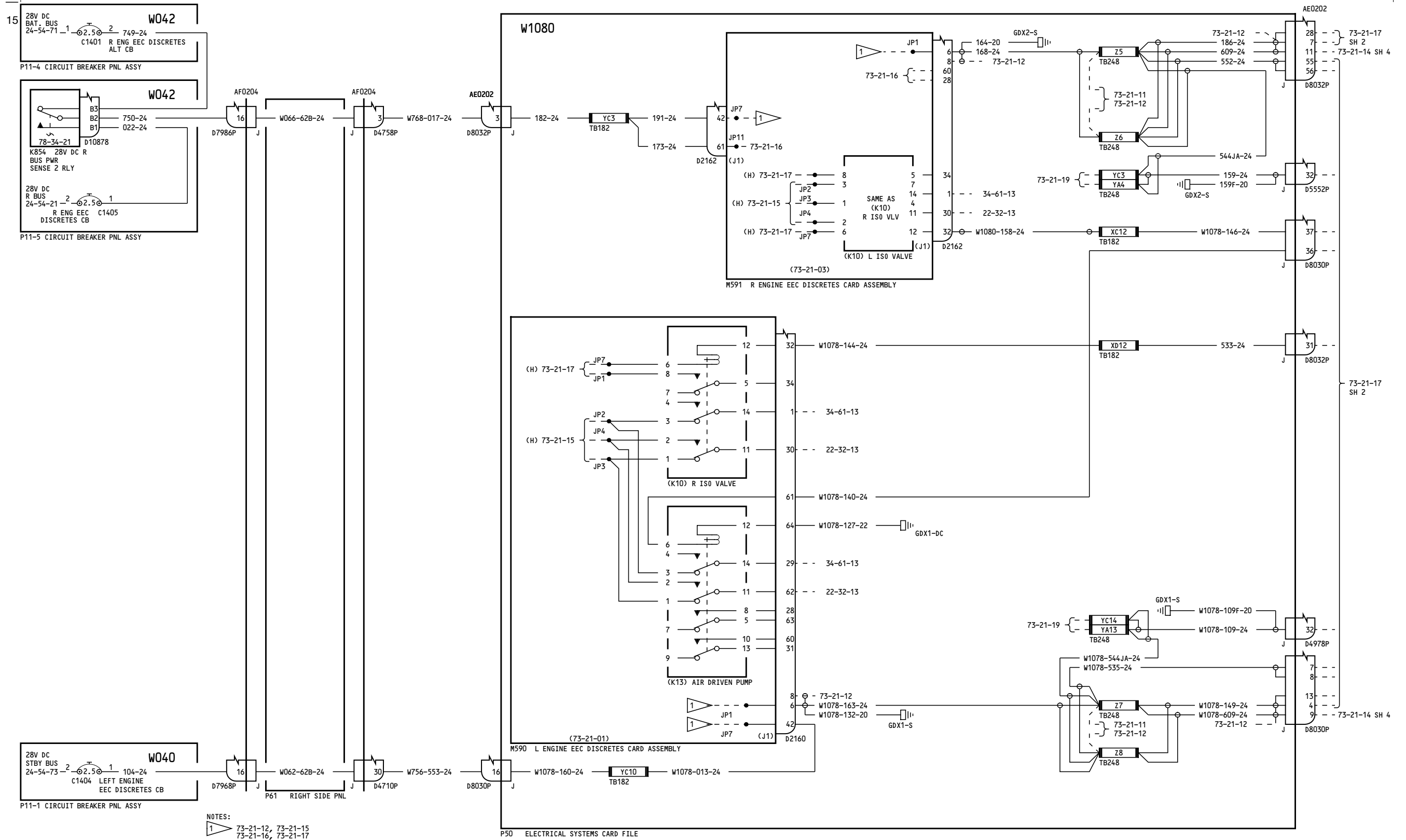
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 1 73-21-12, 73-21-15
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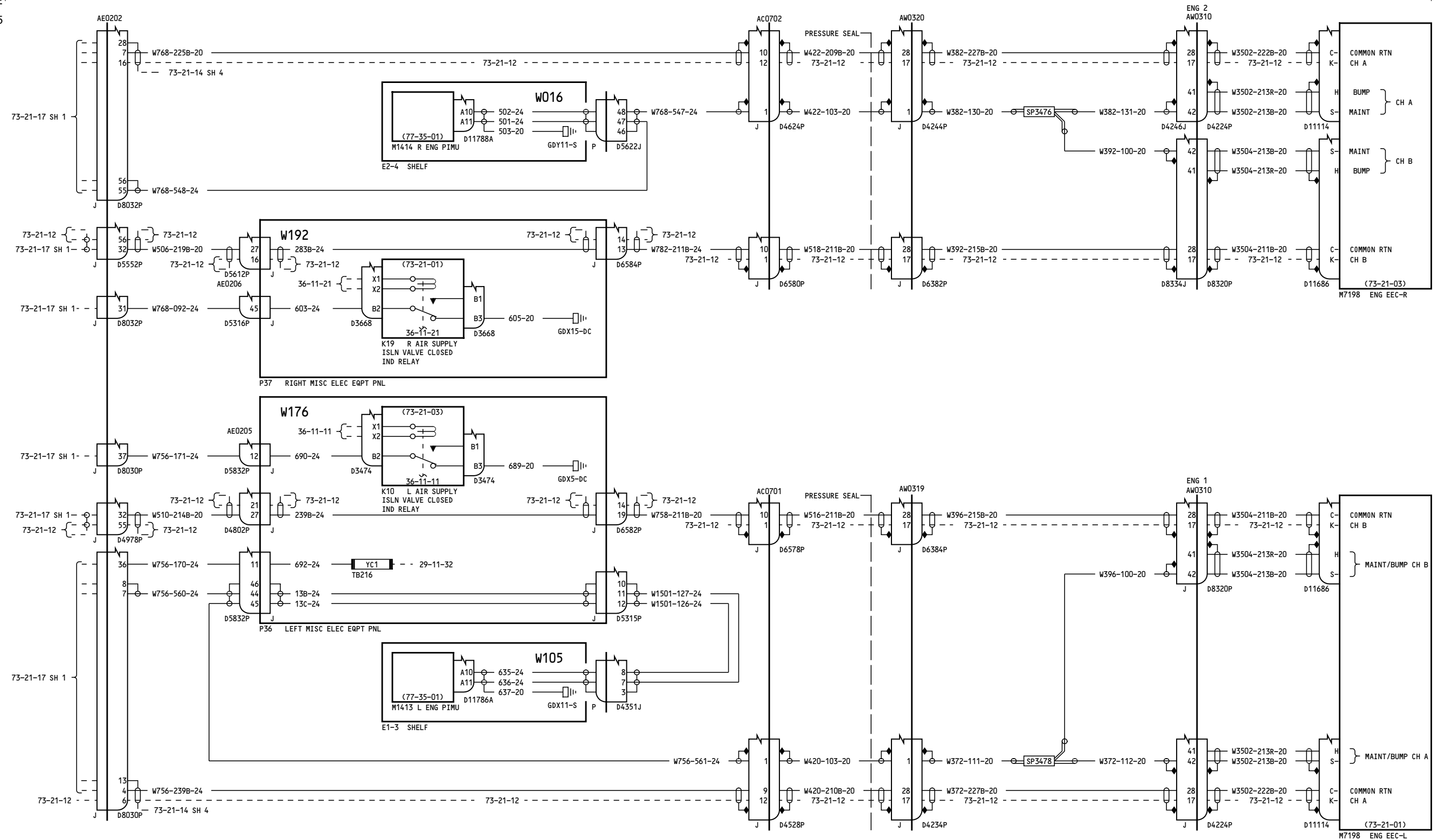
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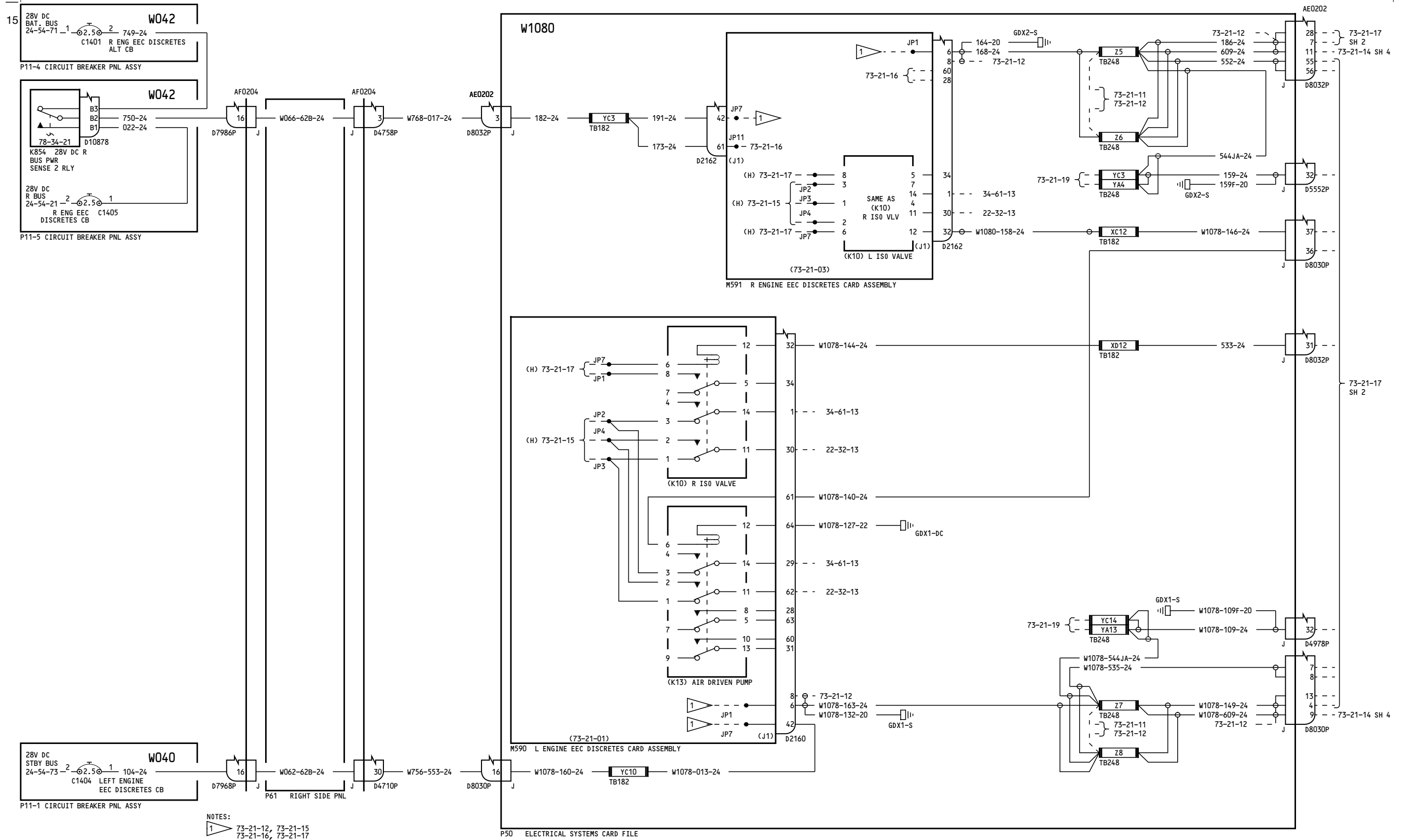


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SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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 1 73-21-12, 73-21-15
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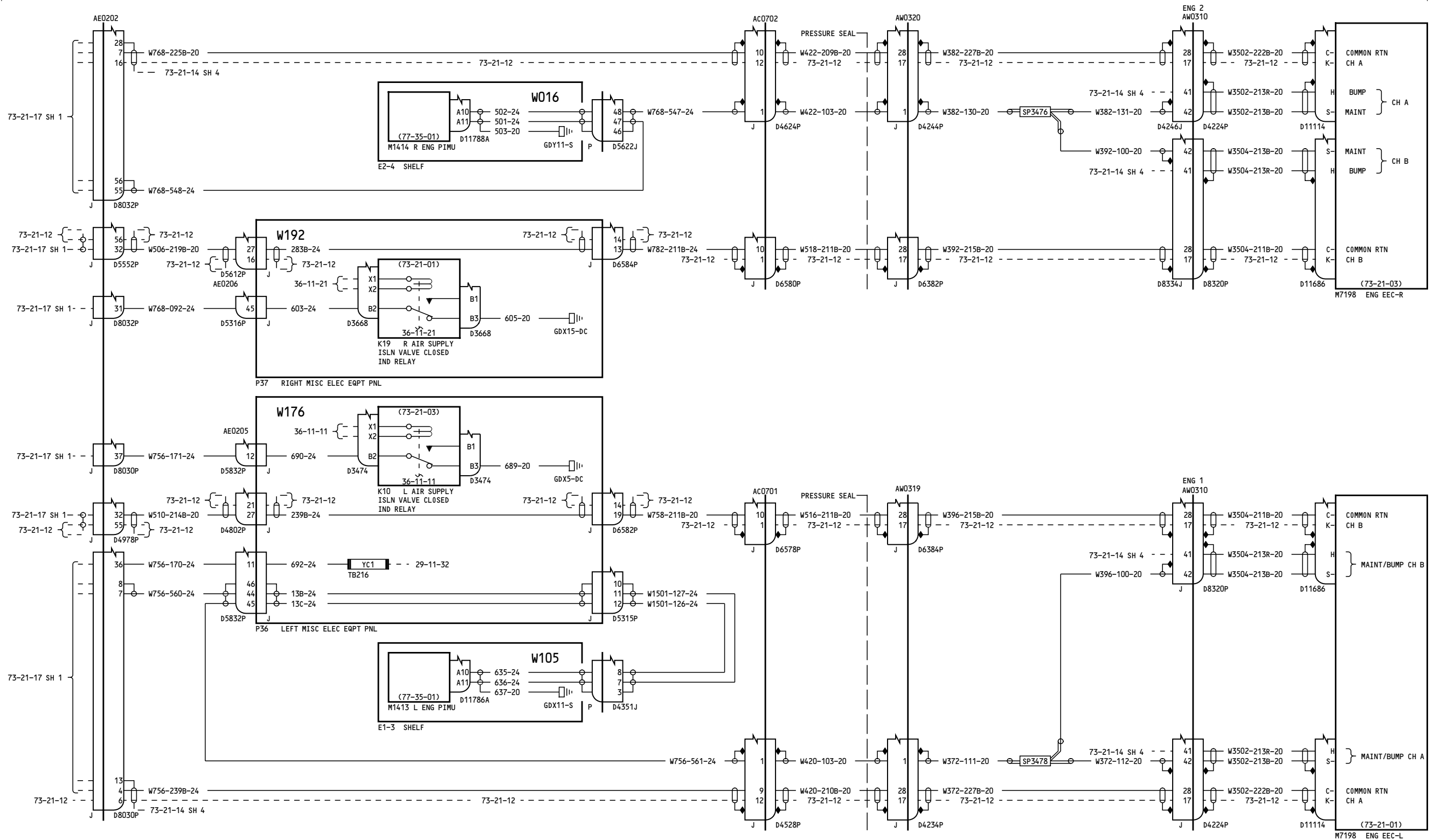
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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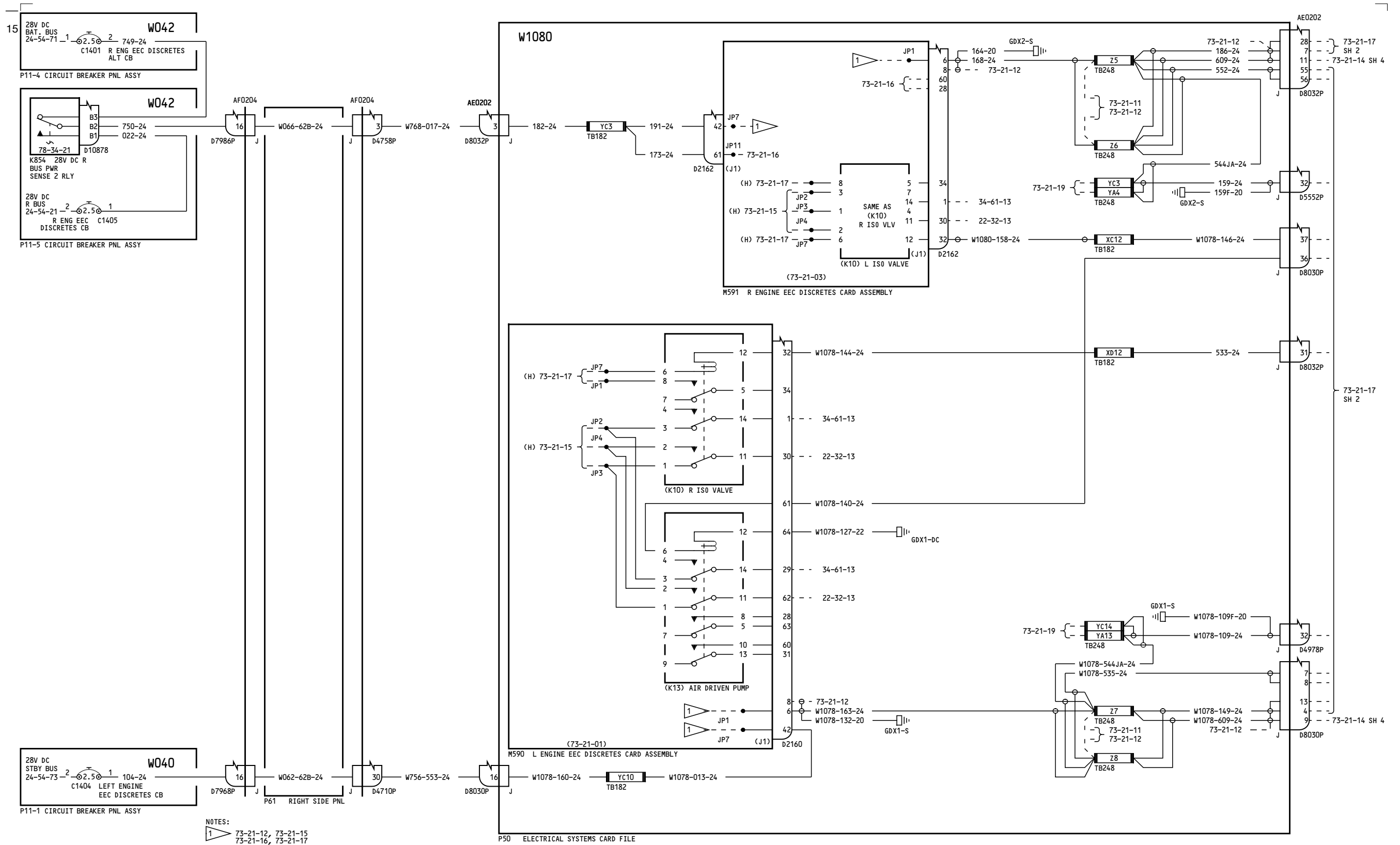
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 1 73-21-12, 73-21-15
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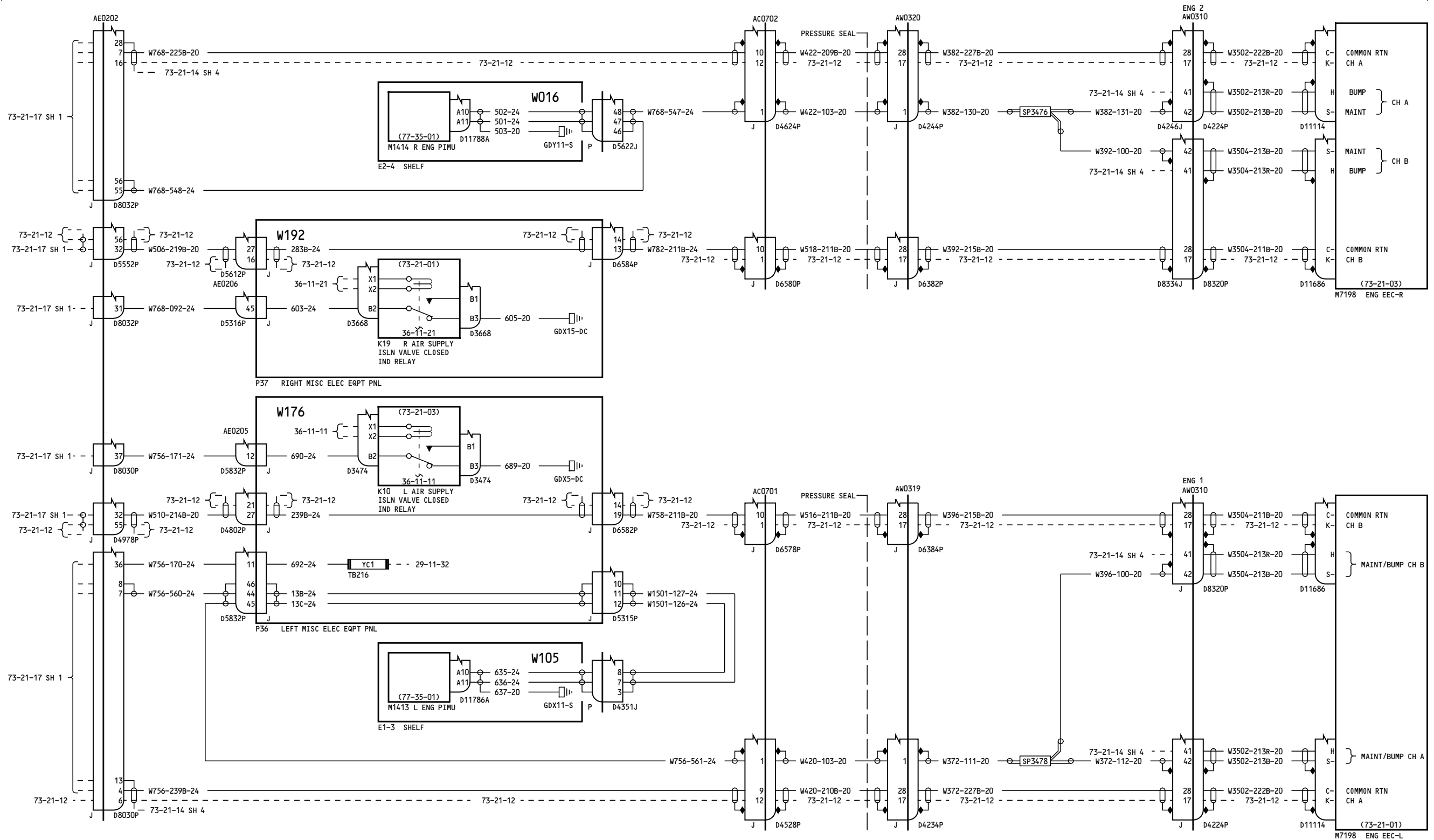
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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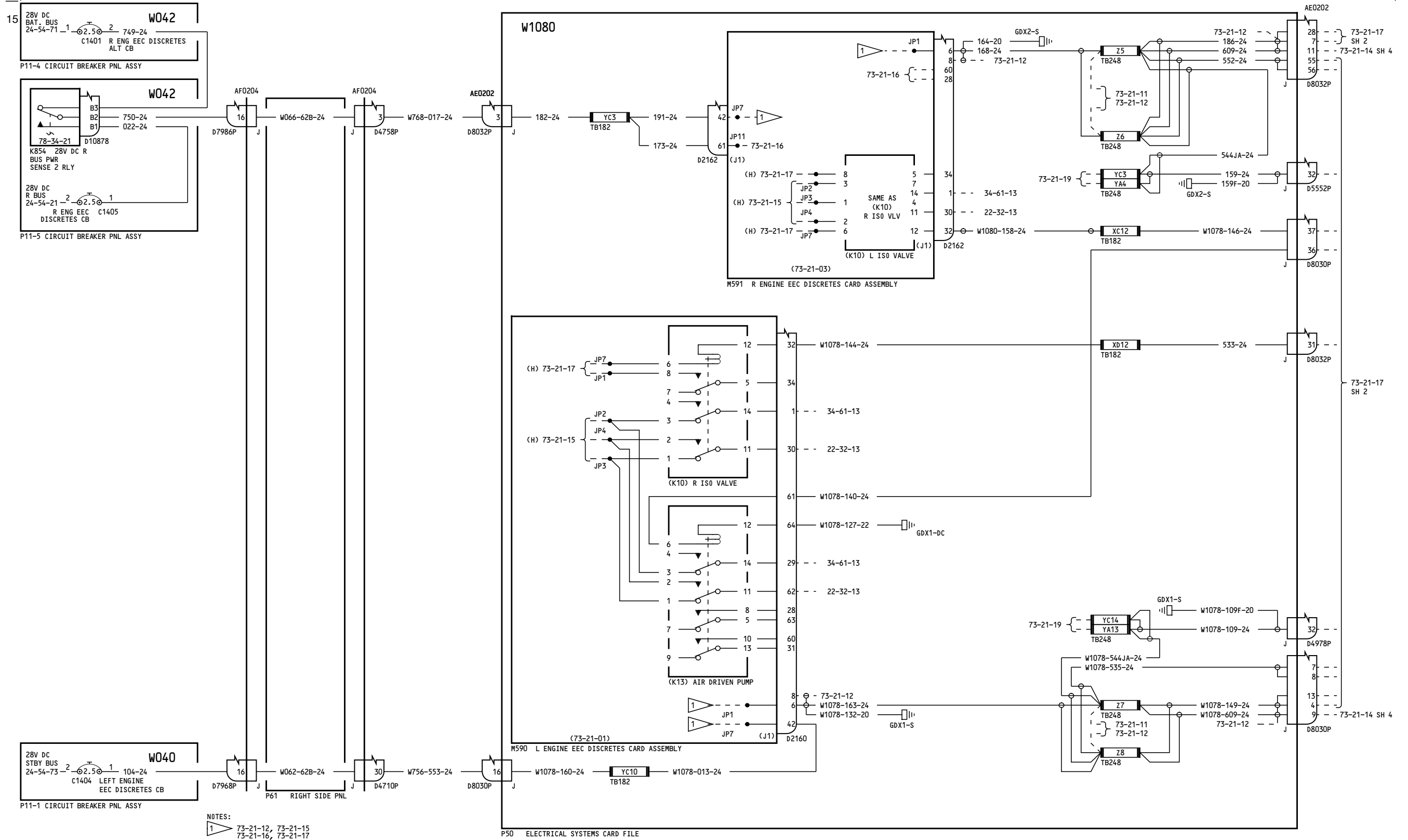
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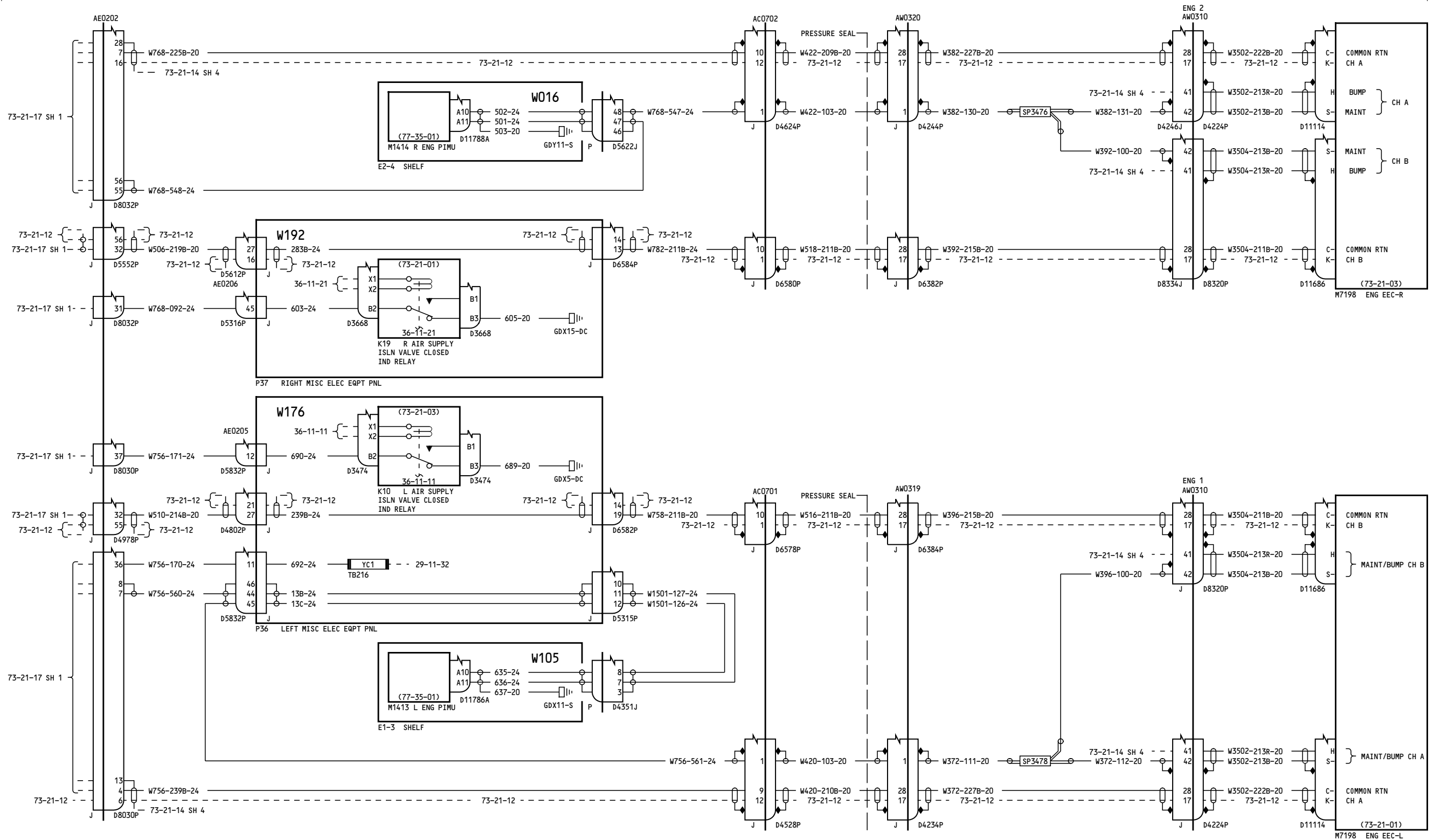
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1 73-21-12, 73-21-15
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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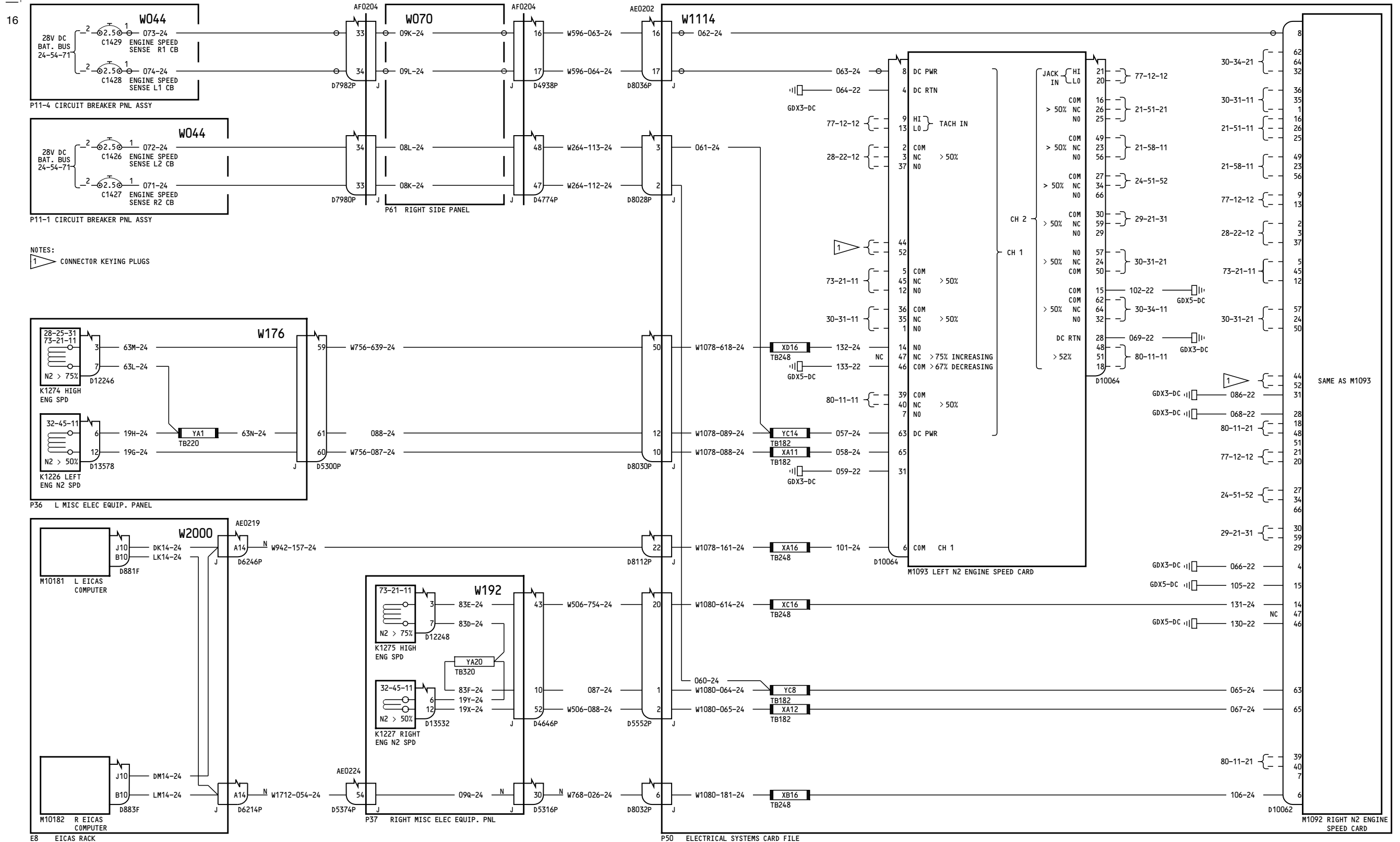
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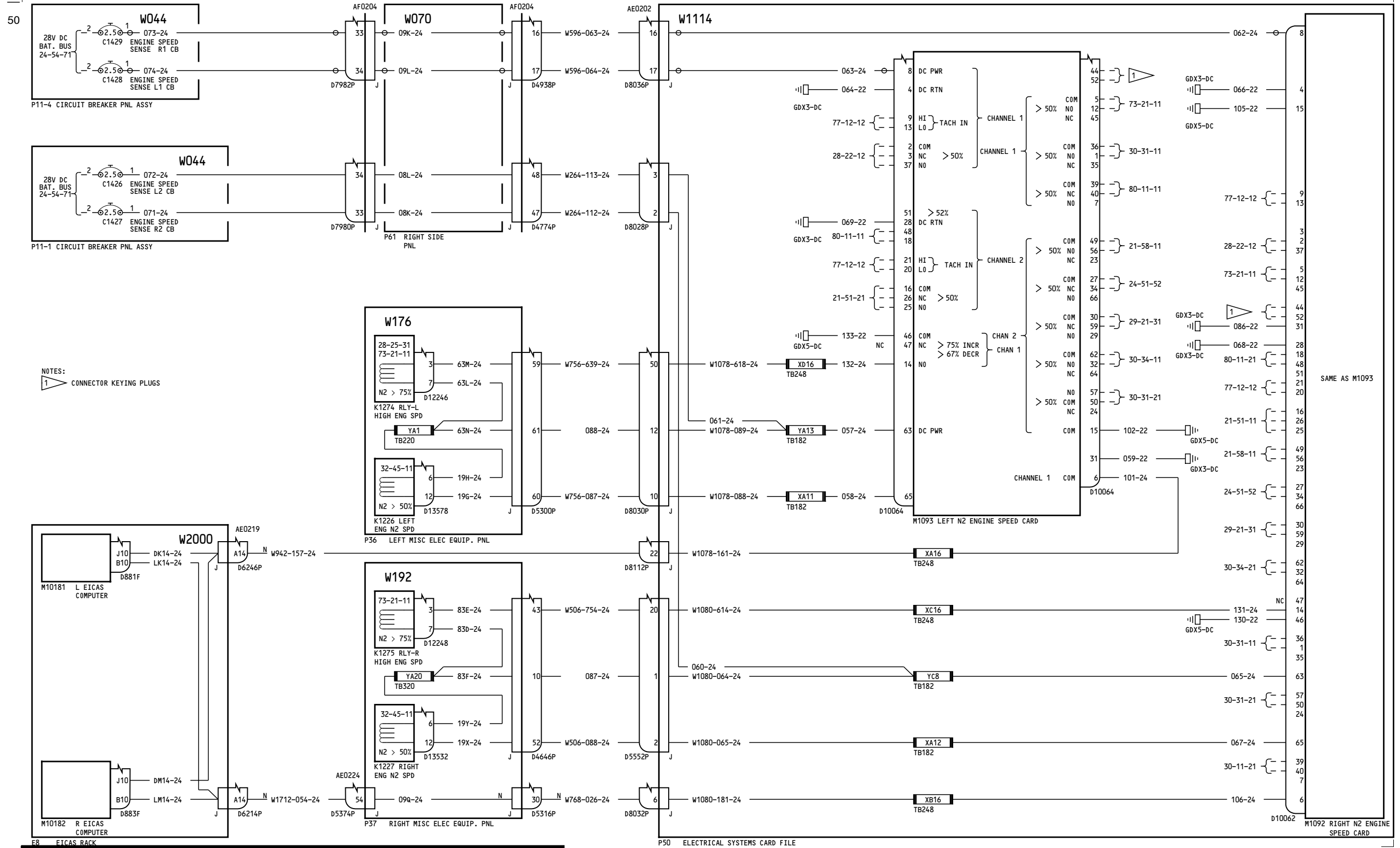
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NOTES:
1 CONNECTOR KEYING PLUGS

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ENGINE N2 DISCRETES
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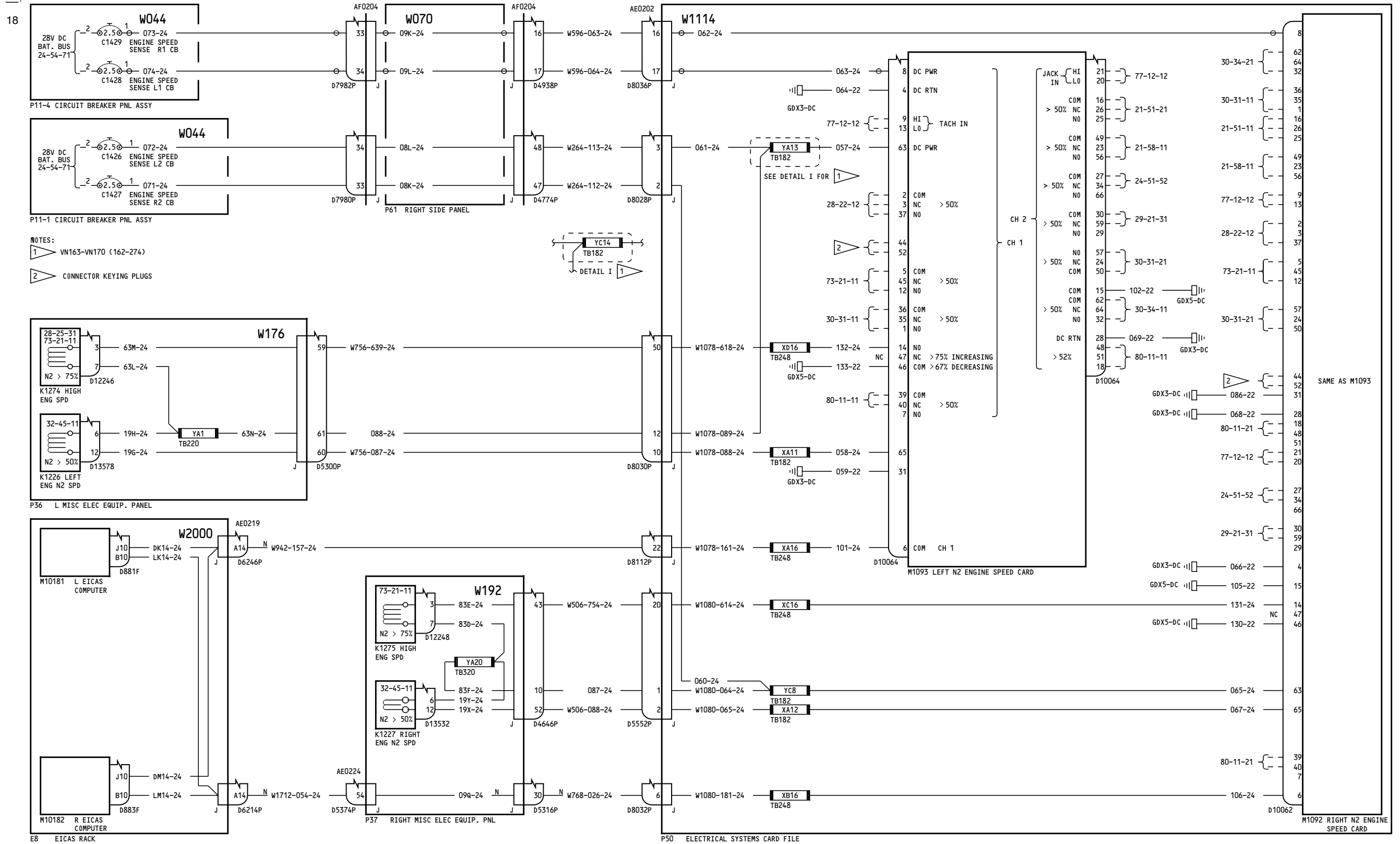
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ENGINE N2 DISCRETES

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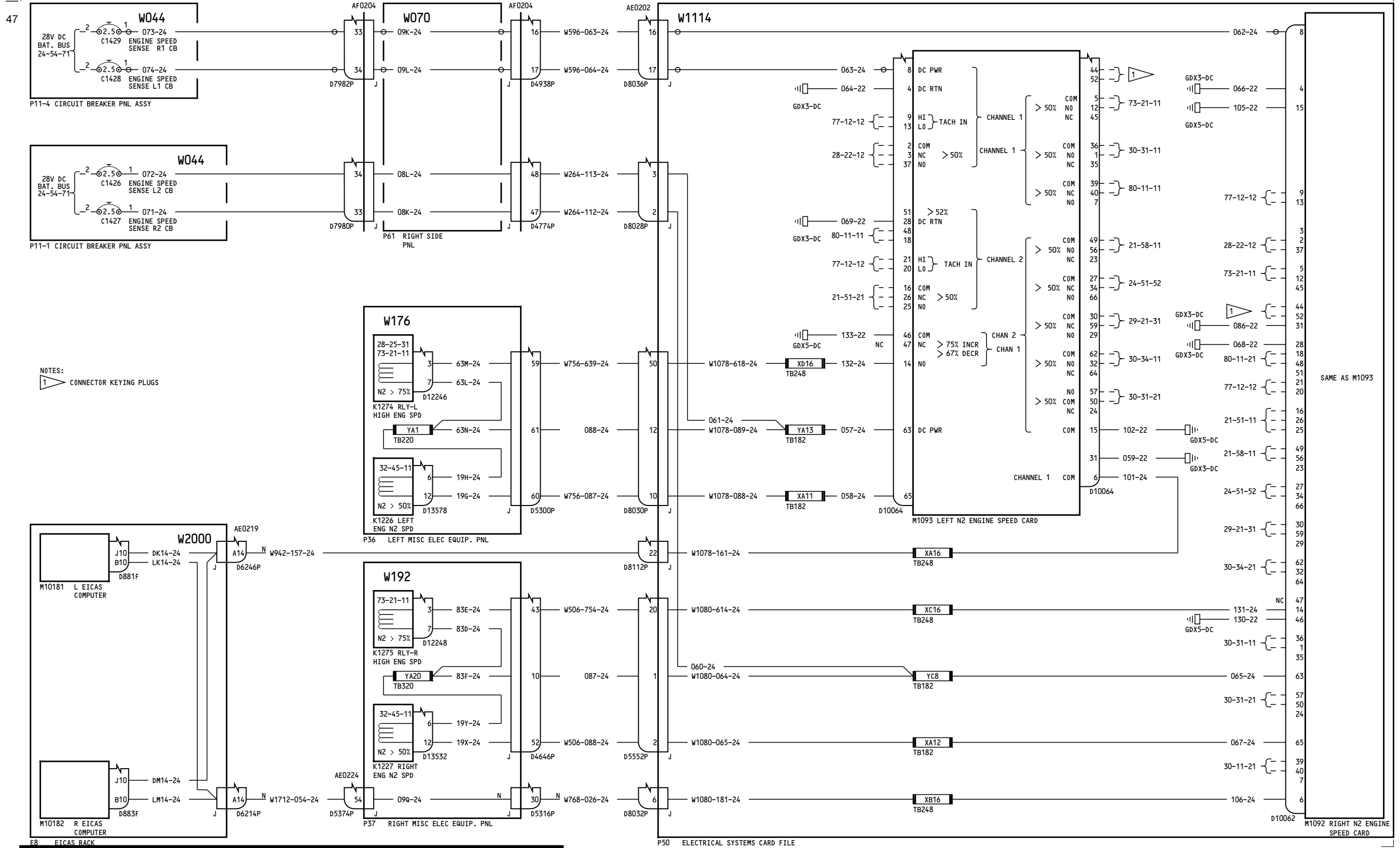
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1 CONNECTOR KEYING PLUGS

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ENGINE N2 DISCRETES
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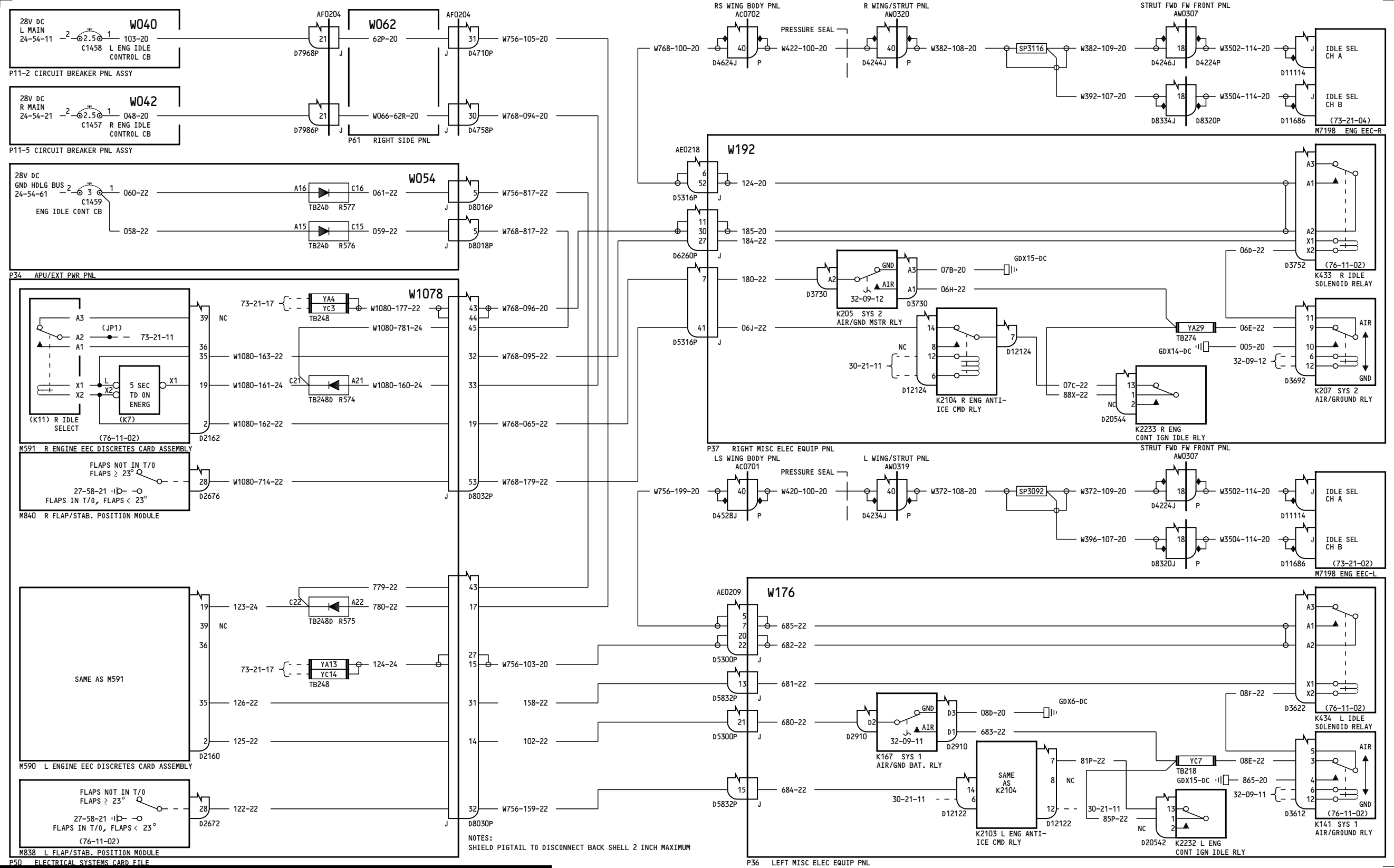
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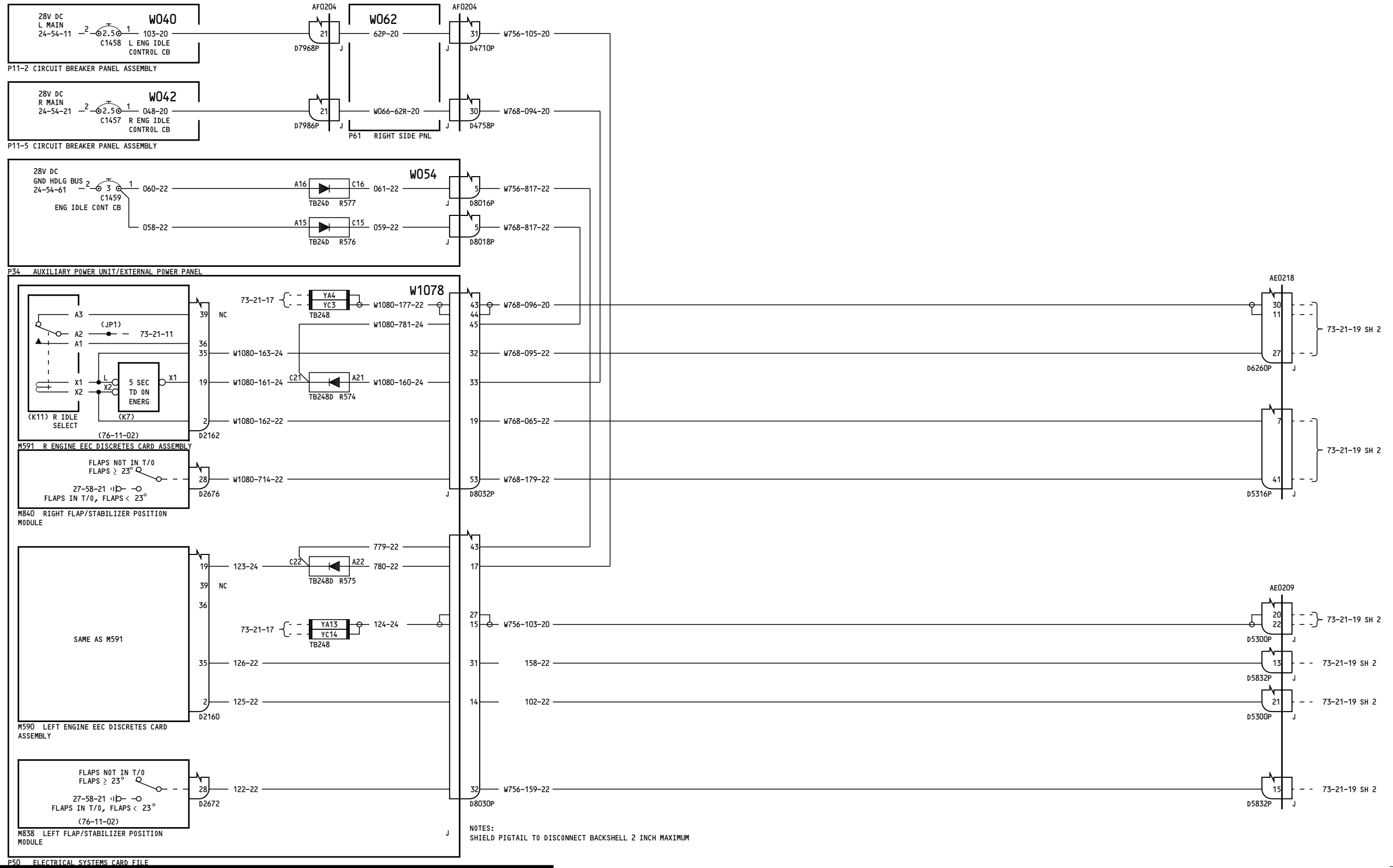
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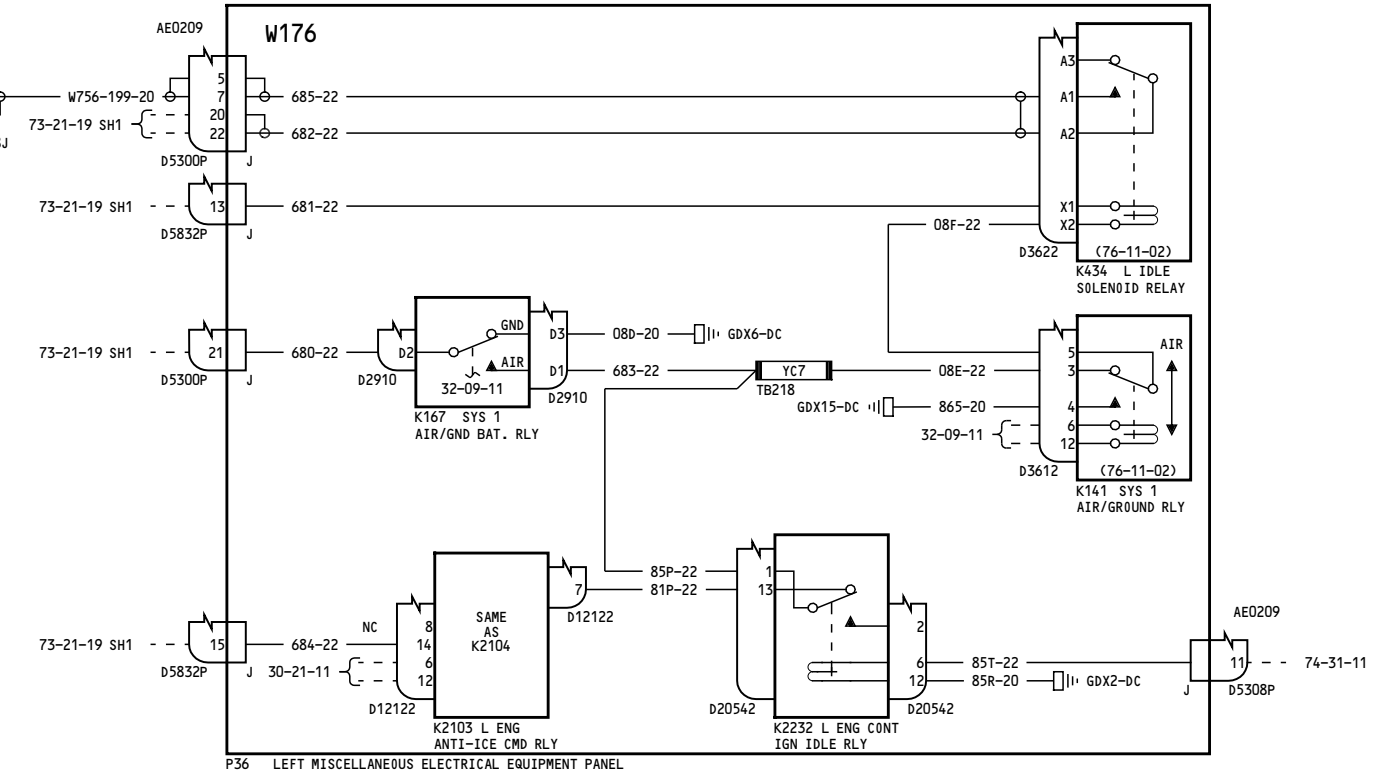
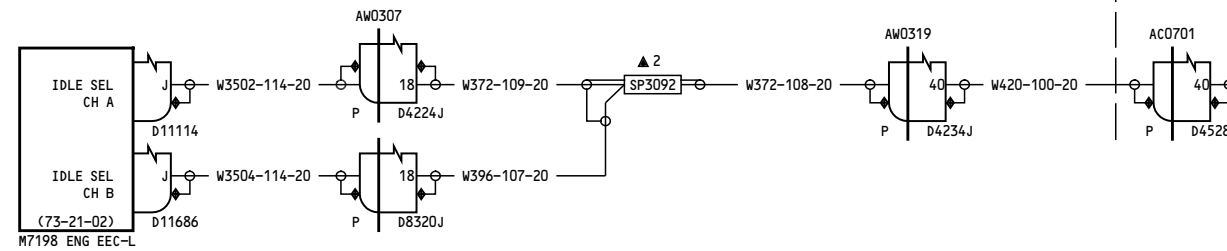
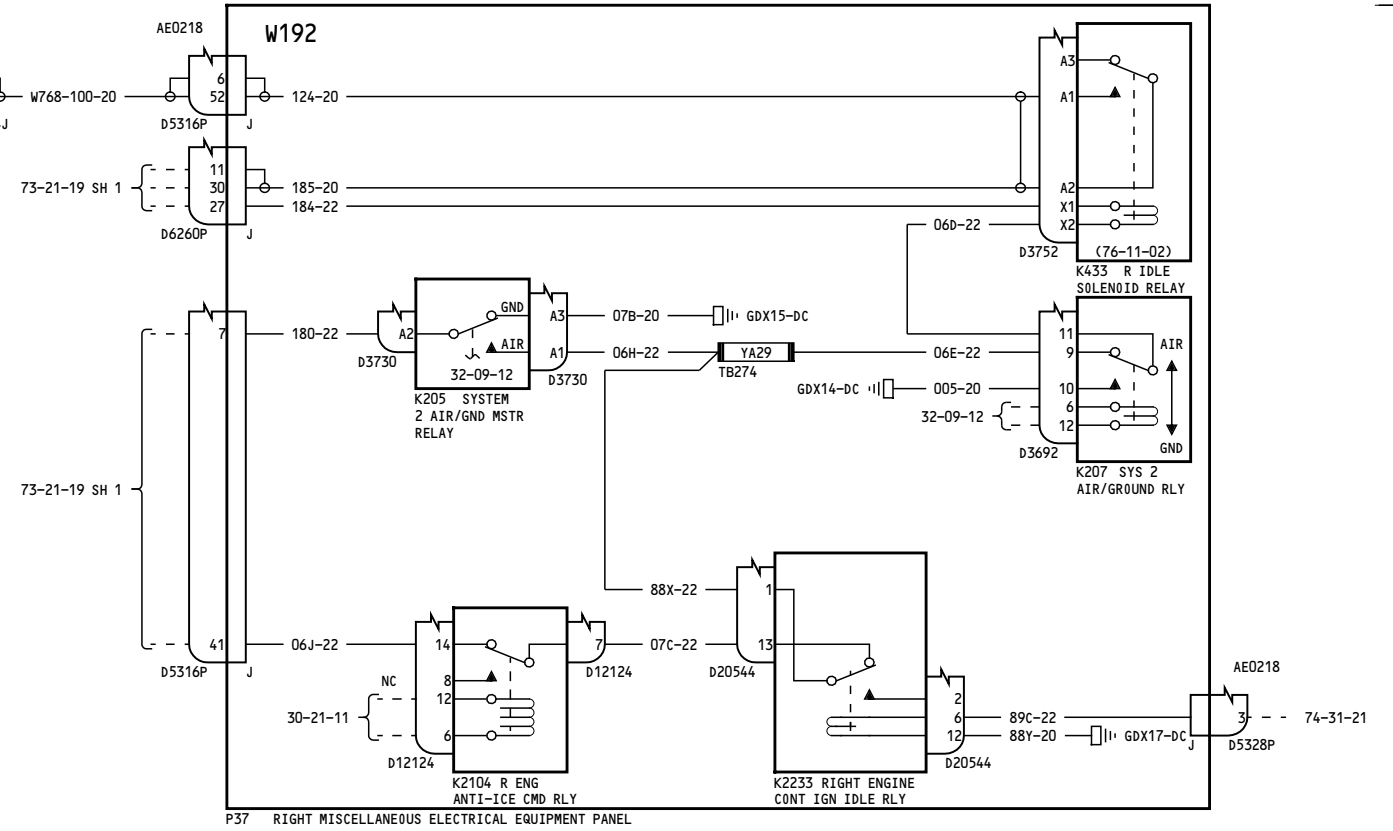
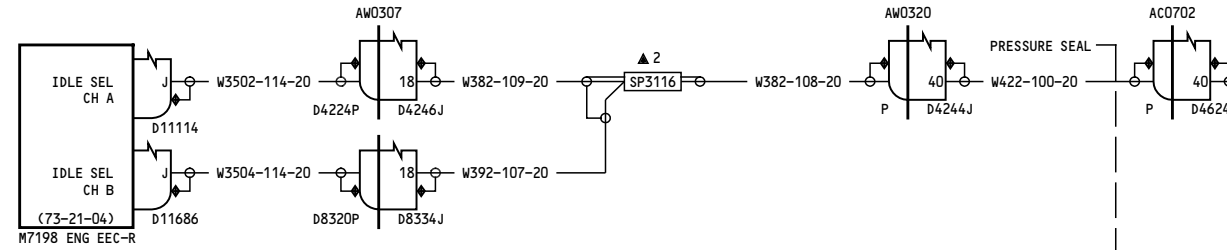
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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FLIGHT/GROUND IDLE

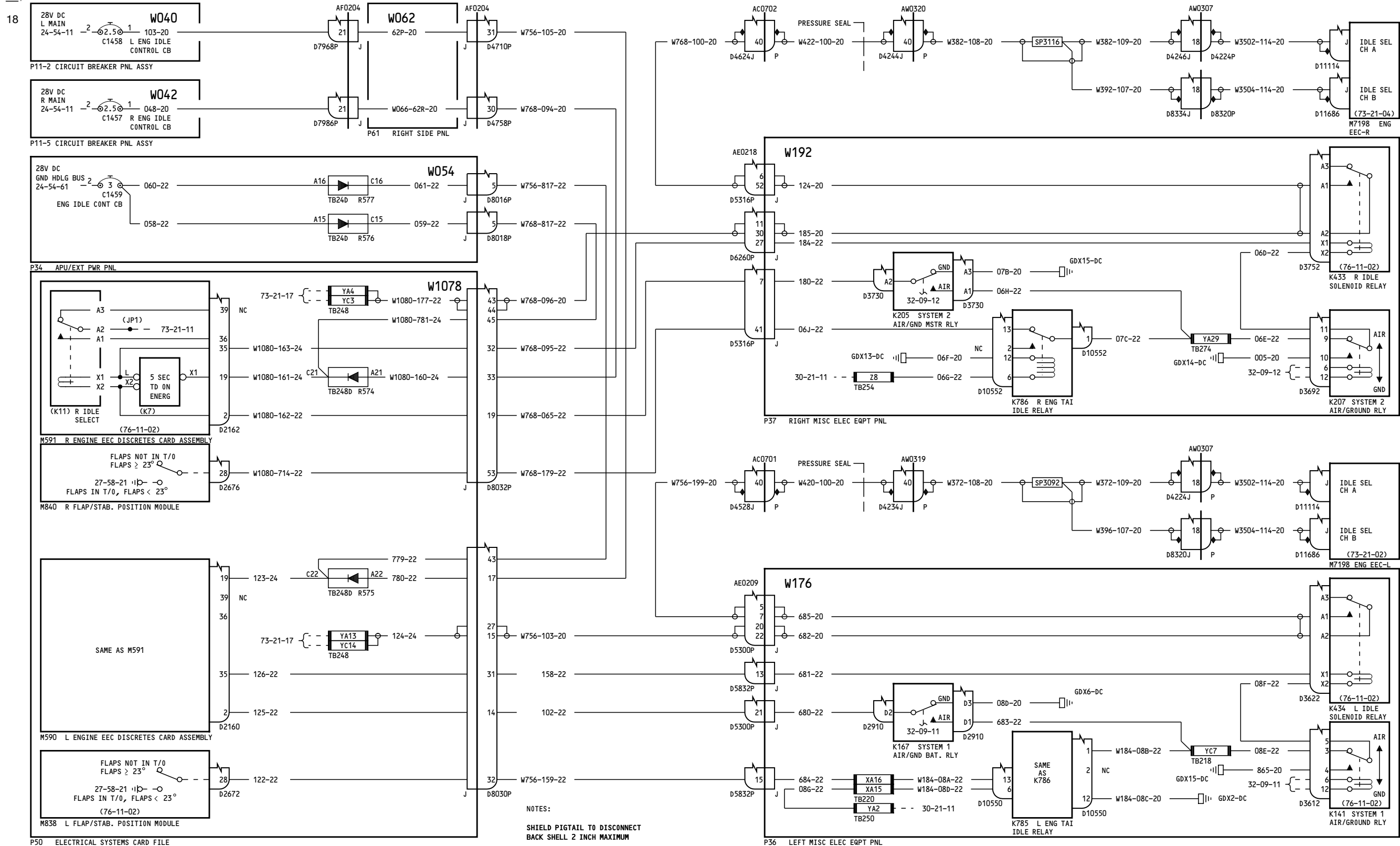
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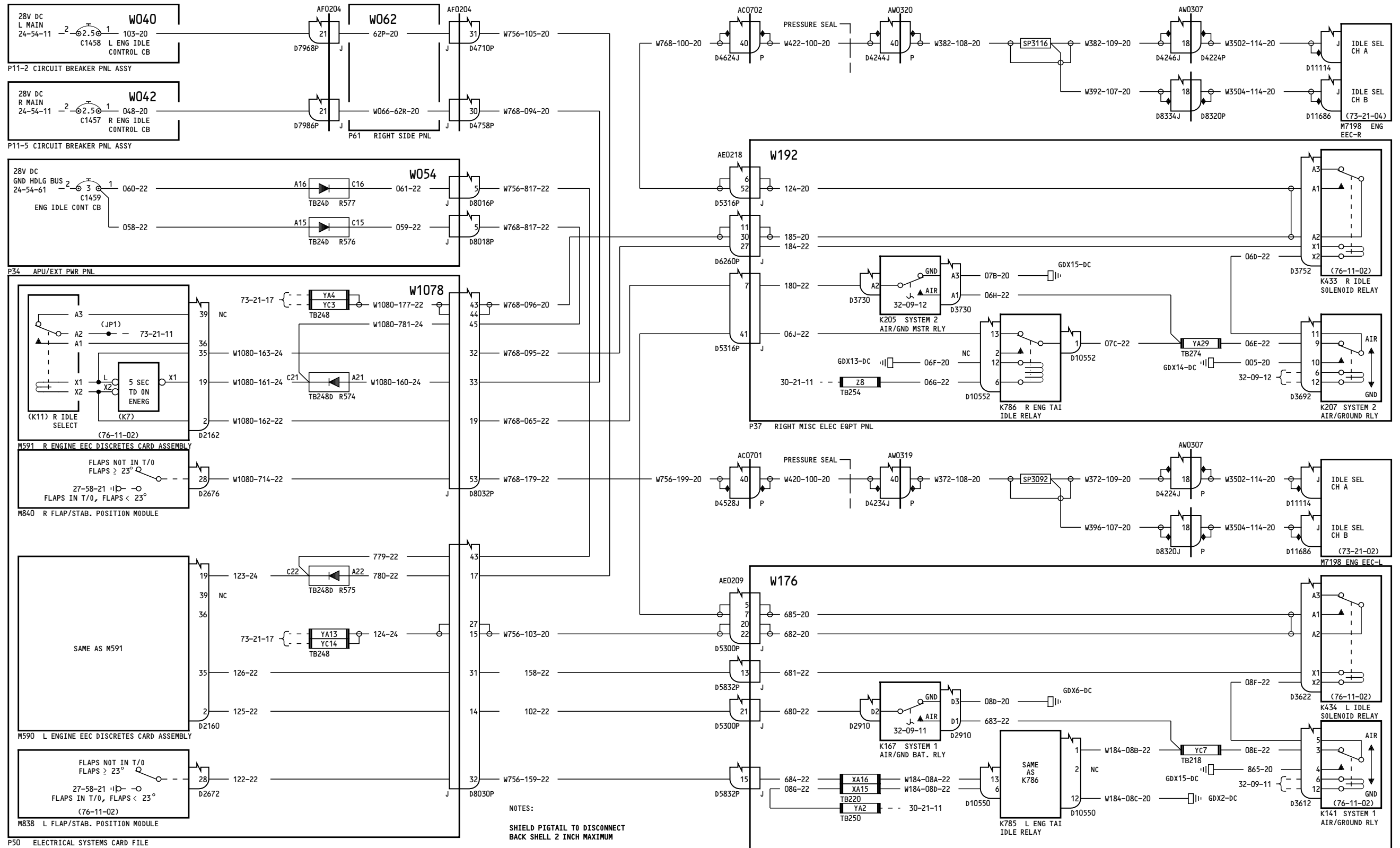
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FLIGHT/GROUND IDLE

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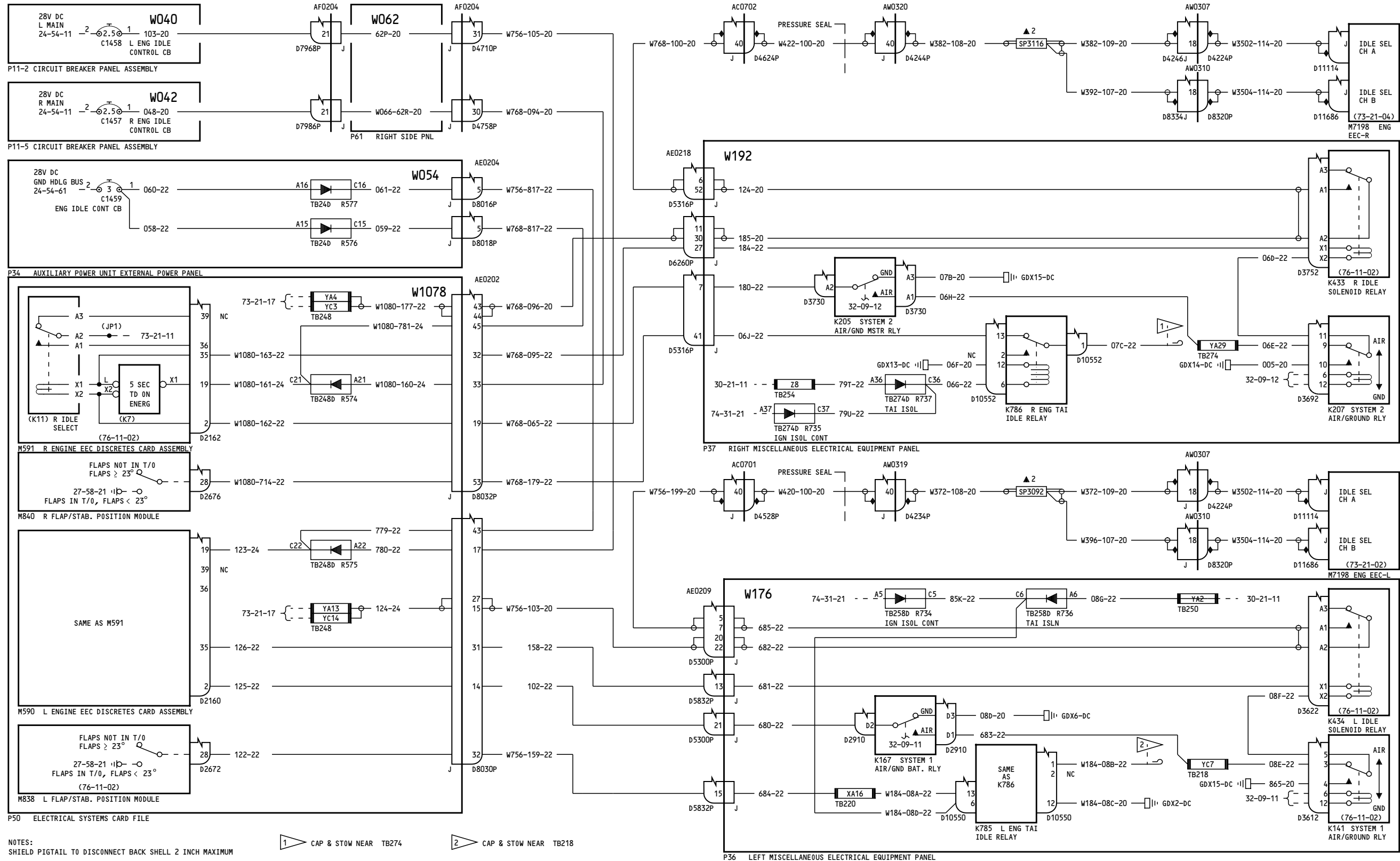
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACK SHELL 2 INCH MAXIMUM

1 CAP & STOW NEAR TB274
2 CAP & STOW NEAR TB218

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FLIGHT/GROUND IDLE

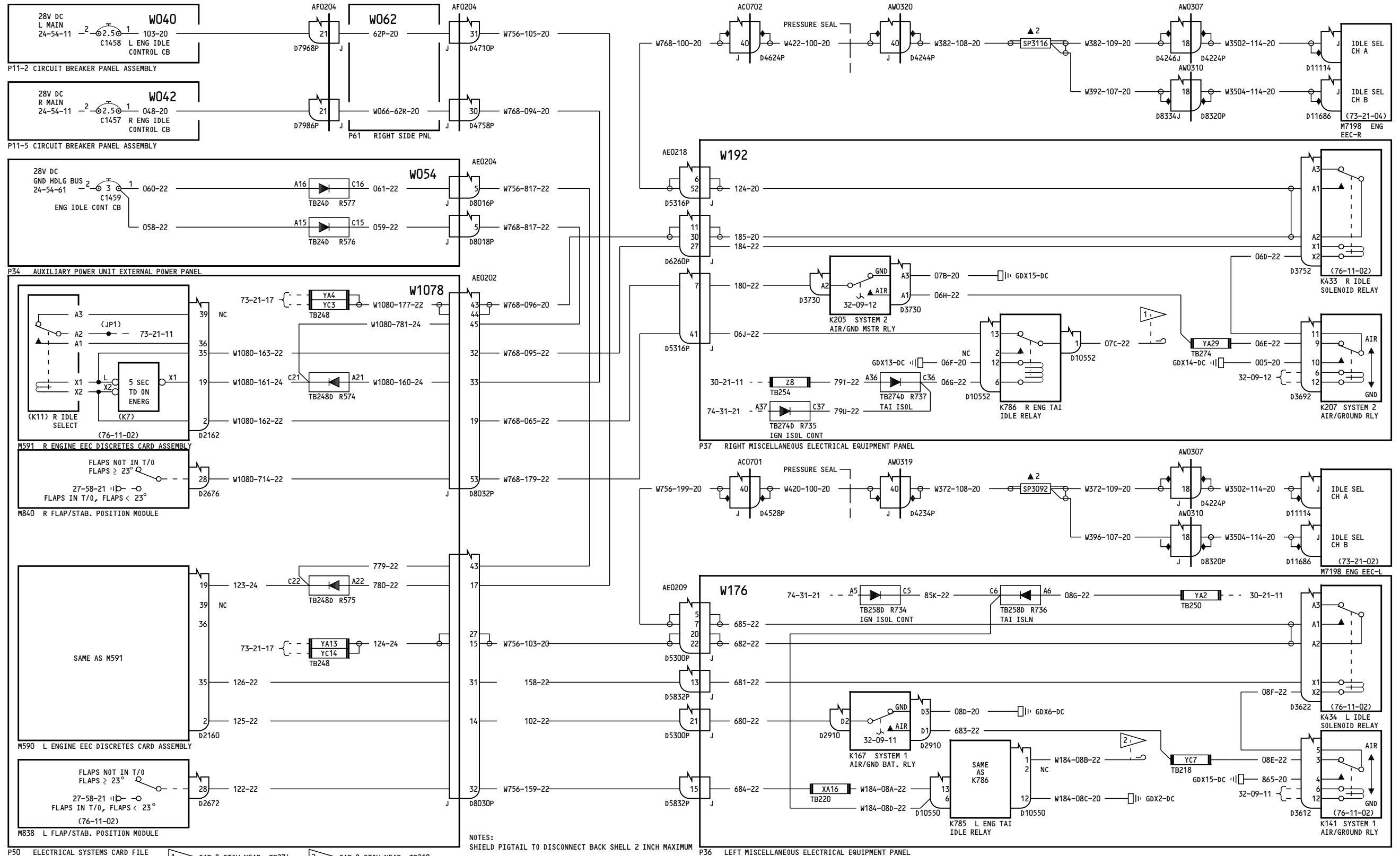
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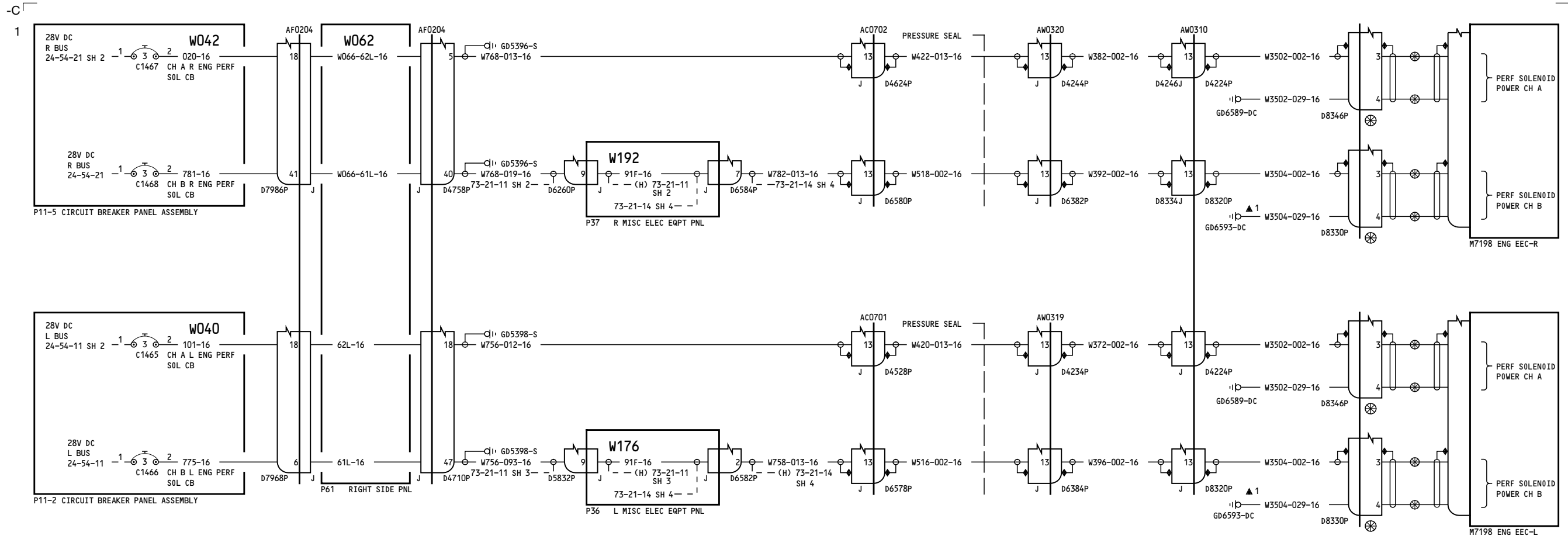
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NOTES:
SHIELD PIGTAIL TO DISCONNECT
BACK SHELL 2 INCH MAXIMUM

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**PERFORMANCE SOLENOID
POWER**

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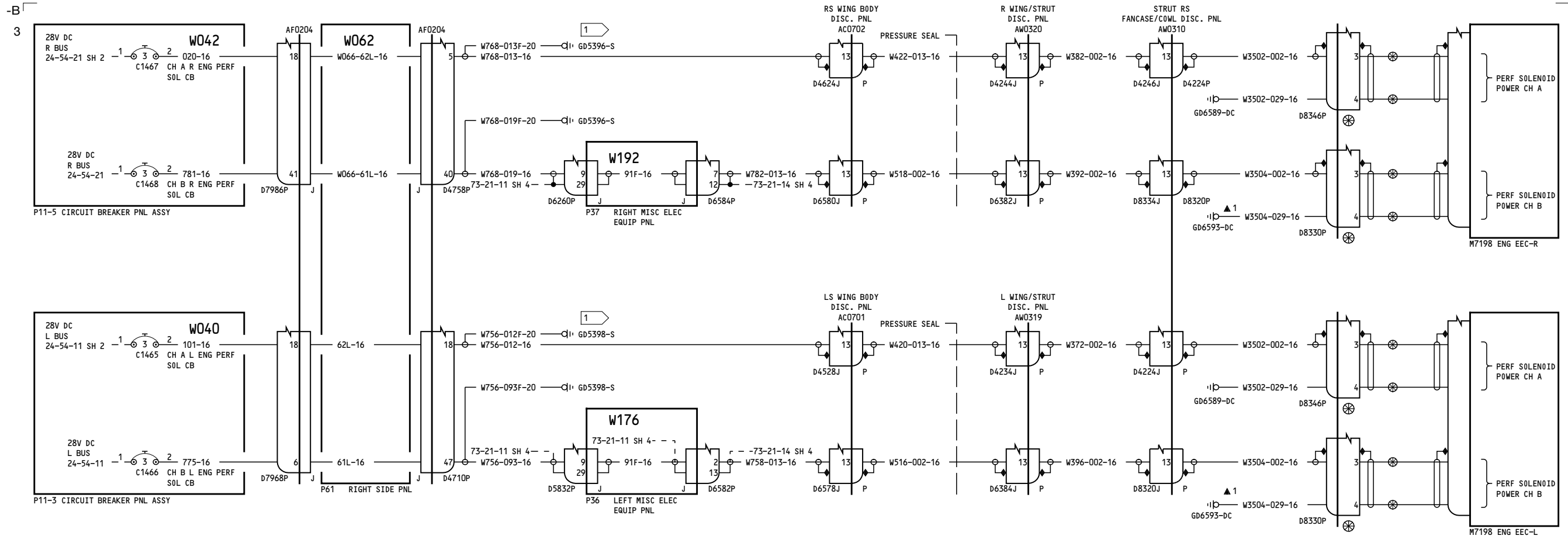
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NOTES:
 SHIELD PIGTAIL TO DISCONNECT
 BACK SHELL 2 INCH MAXIMUM
 1 SHIELD PIGTAIL 6 INCH MAXIMUM

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PERFORMANCE SOLENOID POWER

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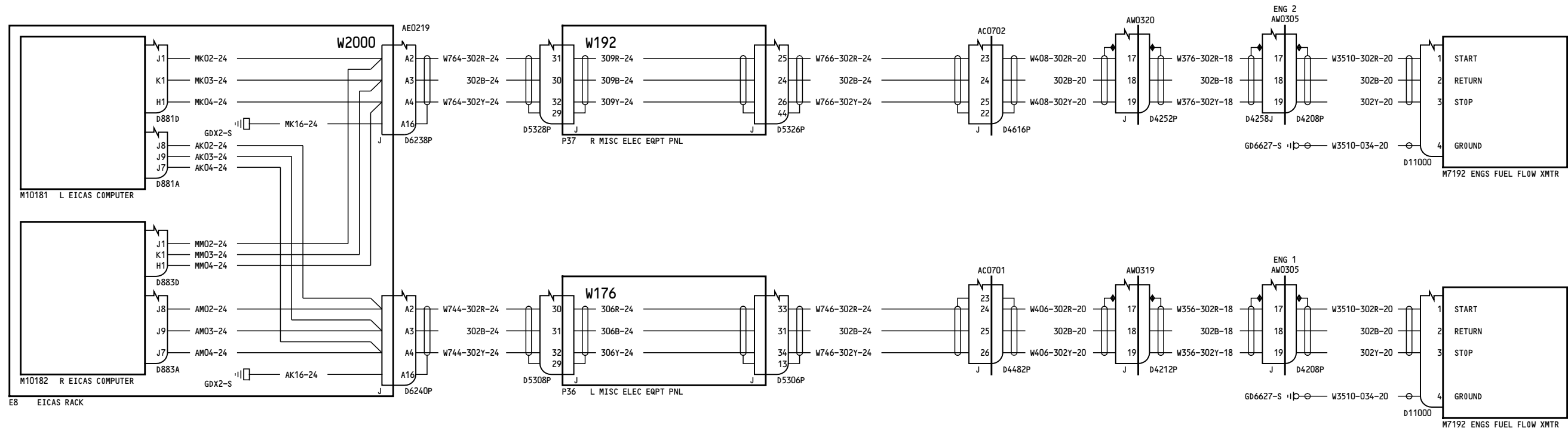
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NOTES:
SHIELD PIGTAIL TO DISCONNECT
BACKSHELL 2 INCH MAXIMUM

ALL	<p align="center">FUEL FLOW INDICATING SYSTEM</p> <p align="center">D280T132</p>
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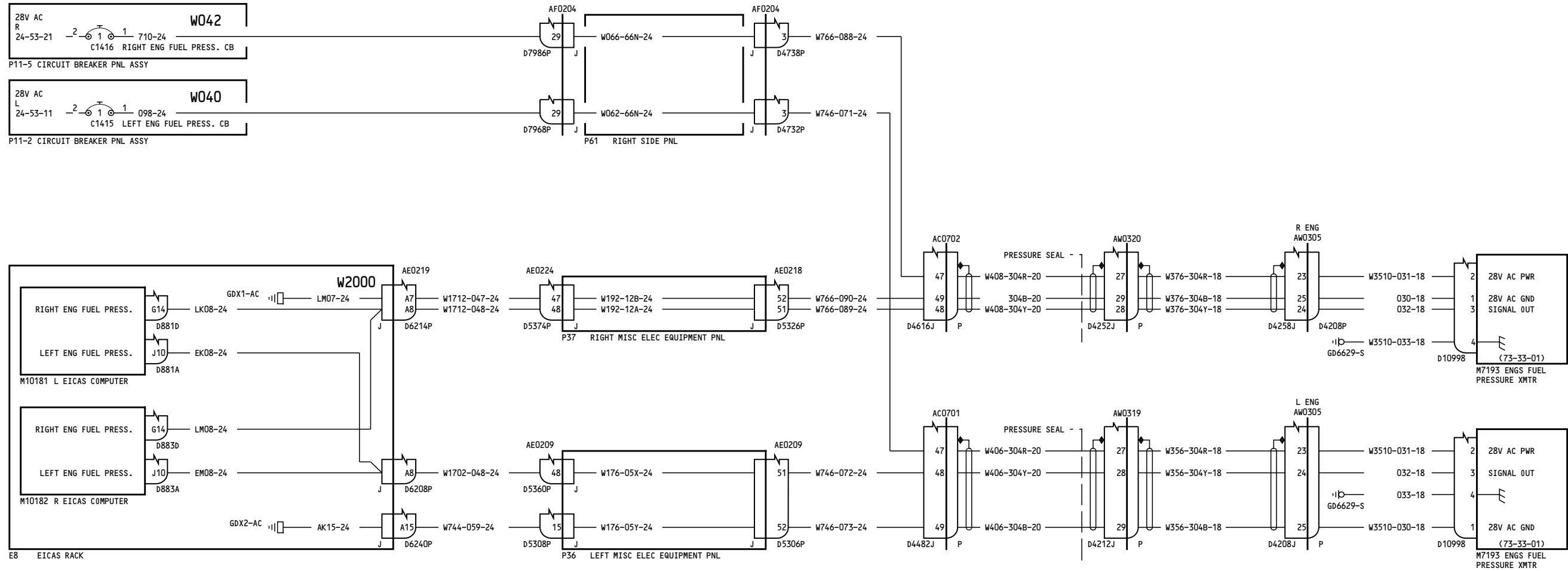
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SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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ENGINE FUEL PRESSURE INDICATION

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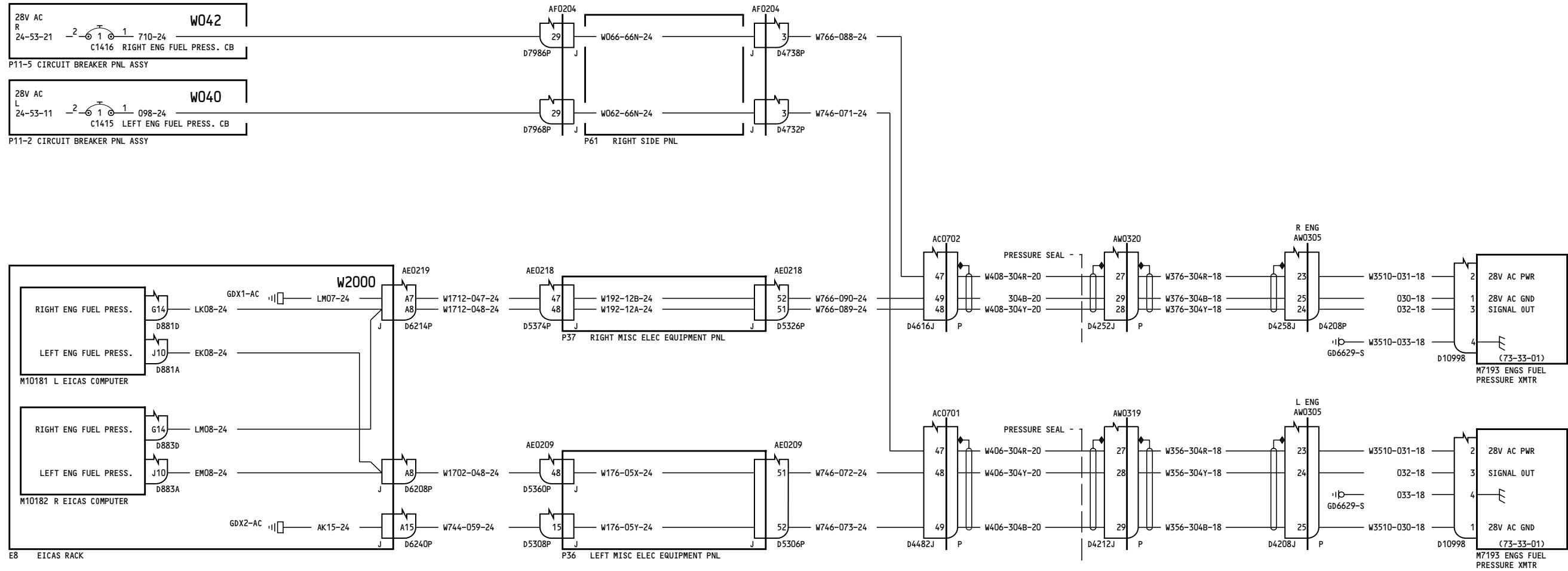
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NOTES:
SHIELD PIGTAIL TO DISCONNECT BACKSHELL 2 INCH MAXIMUM

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ENGINE FUEL PRESSURE INDICATION

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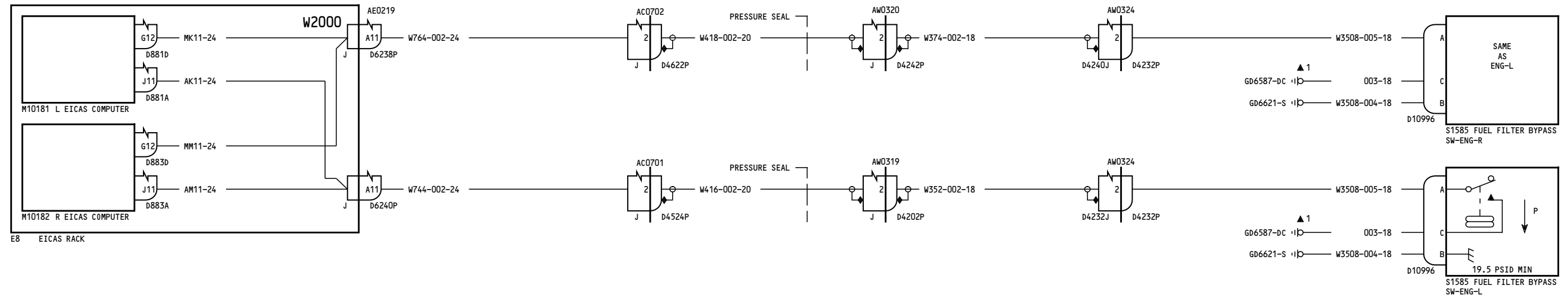
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NOTES:
SHIELD PIGTAIL TO DISCONNECT
BACKSHELL 2 INCH MAXIMUM

ALL	<p align="center">ENGINE FUEL FILTER BYPASS WARNING</p> <p align="center">D280T132</p>
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TABLE 1
CONDUCTIVE RECEPTACLES

CONNECTOR	WIRE BUNDLE ASSY	LOCATION	
		BRKT ID	
D04550J	W214	AC0701	
D04630J	W222	AC0702	
D04632J	W262	AC0702	
D04234J	W264	AC0701	
D04232J	W352	AW0305	
D04192J	W356	AW0311	
D04208J	W356	AW0305	
D04224J	W372	AW0310	
D04240J	W374	AW0307	
D04166J	W376	AW0311	
D04258J	W376	AW0305	
D06420J	W380	AW0309	
D04246J	W382	AW0310	
D06422J	W384	AW0309	
D04230J	W386	AW0307	
D04220J	W388	AW0307	
D08334J	W392	AW0310	
D08320J	W396	AW0310	
D04204J	W402	AW0319	
D04238J	W404	AW0320	
D04212J	W406	AW0319	
D04214J	W406	AW0319	
D04252J	W408	AW0320	
D04254J	W408	AW0320	
D04342J	W412	AW0319	
D04344J	W414	AW0320	
D04202J	W416	AW0319	
D04242J	W418	AW0320	
D04234J	W420	AW0319	
D04244J	W422	AW0320	
D06384J	W516	AW0319	
D06382J	W518	AW0320	
D04524J	W744	AC0701	
D04482J	W746	AC0701	
D04528J	W756	AC0701	
D06578J	W758	AC0701	
D04622J	W764	AC0702	
D04616J	W766	AC0702	
D04624J	W768	AC0702	
D06580J	W782	AC0702	
D08342J	W3530	STA NL126	

TABLE 2
CONDUCTIVE PLUGS

CONNECTOR	WIRE BUNDLE ASSY		LOCATION		
			BRKT ID	STA	WL
D04232P	W404		AC0702		
D04634P	W402		AC0701		
D04202P	W352		AW0319		
D04212P	W356		AW0319		
D04214P	W356		AW0319		
D04234P	W372		AW0319		
D04242P	W374		AW0320		
D04252P	W376		AW0320		
D04254P	W376		AW0320		
D04244P	W382		AW0320		
D04204P	W386		AW0319		
D04238P	W388		AW0320		
D06382P	W392		AW0320		
D06384P	W396		AW0319		
D04482P	W406		AC0701		
D04616P	W408		AC0702		
D04524P	W416		AC0701		
D04622P	W418		AC0702		
D04528P	W420		AC0701		
D04624P	W422		AC0702		
D06578P	W516		AC0701		
D06580P	W518		AC0702		
D04224P	W3502		AW0310		
D08346P	W3502		W1J14	NR100	150
D08320P	W3504		AW0310		
D08330P	W3504		W2J14	NR100	150
D08336P	W3504		AW0309	NL113	147
D08316P	W3504			NR100	150
D04192P	W3530		AW0311		
D08350P	W3502	1	AW0312		
D08360P	W3504	1	AW0312		
D08370P	W3502	1	W2J32	NR190	150
D15802P	W3502	1		NR194	150
D15802J	W3504	1		NR194	150



NOTE:

WIRING, CONNECTORS, BONDS AND ELECTRICAL COMPONENTS IN THIS AREA ARE PROTECTED AGAINST EFFECTS OF LIGHTNING. SEE WIRING DIAGRAM MANUAL CHAPTERS 20 AND 73 FOR SPECIAL PRECAUTIONS REQUIRED FOR SERVICING WIRING AND ELECTRICAL COMPONENTS.

BAC27NEL1122

FIGURE 1

PW4000 ENGINE CONTROL-LIGHTNING PROTECTION-CONNECTORS.

LOCATIONS OF LIGHTNING PROTECTED CIRCUITS AND ASSOCIATED CONNECTORS ARE PROVIDED ON THE AIRPLANE BY AREA DECALS (SEE FIGURE 1).

SEE CHAPTER 20 FOR MAINTENANCE AND REWORK OF SHIELDS, ASSOCIATED CONNECTORS AND BACKSHELL HARDWARE IN ORDER TO MAINTAIN NORMAL ENGINE OPERATION DURING AIRPLANE EXPOSURE TO LIGHTNING TRANSIENTS.

ALL CONNECTORS THAT TERMINATE LIGHTNING SHIELDS ARE CONDUCTIVE.

ALL CONDUCTIVE RECEPTACLES MUST BE BONDED TO STRUCTURE PER CHAPTER 20 TO MAINTAIN LIGHTNING PROTECTION.

SEE TABLE 1 FOR COMPLETE LISTING OF CONDUCTIVE RECEPTACLES REQUIRING BONDING AND MAINTENANCE OF SHIELD TERMINATIONS.

SEE TABLE 2 FOR COMPLETE LISTING OF CONDUCTIVE PLUGS REQUIRING MAINTENANCE OF SHIELD TERMINATIONS.

1 APPLICABLE WHEN SUPPLEMENTAL CONTROL UNIT IS INSTALLED

ALL

ELECTRONIC ENGINE CONTROL
LIGHTNING PROTECTION

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