



**ELECTRICAL SERVICES
NON UNIFIED ARCHITECTURE
UP TO NO.A1801258 / A1902416**

Technical support

Arion 640-510

Chapter F – Diagnostics

00 1137 933 1 – 08.2010 publication

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E83	Left cab flashlight
E84	Right cab flashlight
E100	Working light on left-hand railing
E101	Working light on right-hand railing
E102	LH grille work light
E103	Right-hand grid working light

G	Power source
G1	Battery
G2	Alternator

H	Indicator light
H7	High beam warning light
H11	Hydraulic oil temperature indicator lamp
H41	Horn
H44	Buzzer
H46	Air filter clogged warning lamp
H50	Diesel engine oil pressure warning lamp
H80	Brake fluid level warning lamp
H83	Hand brake warning light
H84	Pneumatic or CUNA trailer brake pressure warning light
H86	Hydraulic filter clogged warning lamp
H90	Preheat indicator

K	Relay
K1	Pre-heat relay

M	Electric motor
M7	Cab fan motor
M8	Driver seat compressor
M13	Front windscreen washer pump
M16	Front wiper motor
M19	Mirror left adjustment motor
M20	Mirror right adjustment motor
M21	Starter
M34	Rear windscreen washer pump
M35	Rear wiper motor
M38	EGR actuator
M40	Heating power valve
M41	Recycling actuator



Connector n°	Designation
J191	Right mirror
J192	Electric wing mirror control
J193	Left dome light
J194	Right dome light
J195	Radio (to loudspeaker)
J196	Radio (power supply)
J197	Left-hand loudspeaker
J198	Right-hand loudspeaker
J201	Rear axle pressure switch - LS only
J202	Gearbox pressure switch
J203	Defrosting command
J204	Rear windscreen defrosting
J205	Rear windscreen wiper/washer switch
J206	Rear wiper motor
J207	REH harness/front suspended axle harness
J208	REH harness/front harness (left-hand)
J217	LH draft sensor
J218	RH draft sensor
J219	Position sensor (rear electrohydraulic lifting)
J219A	Position sensor (rear electrohydraulic lifting)
J220	REH harness/radar adaptation harness
J220A	Radar connector
J221	UP solenoid valve (rear electrohydraulic lifting)
J222	DOWN solenoid valve (rear electrohydraulic lifting)
J226	Engine harness/Radiator cowling harness
J227	Air filter blocked
J228	Horn
J229	Starter
J229	Starter
J229	Starter
J230	Alternator ground
J236D	Right fender power take-off stop command
J236G	Left fender stop power take-off command
J237D	Power take-off on/off control (on right fender)
J237G	Power take-off on/off control (on left fender)



Harness name	Designation
Positive launch cable(Short-circuit)	C3
Positive launch cable(Battery/Starter)	C4
Ground cable (Starter/Primary supply base plate)	C5
Negative launch cable (Battery/Starter)	C6
Preheating cable	C7
Automatic A/C caisson harness	C8a
Manual A/C caisson harness	C8b

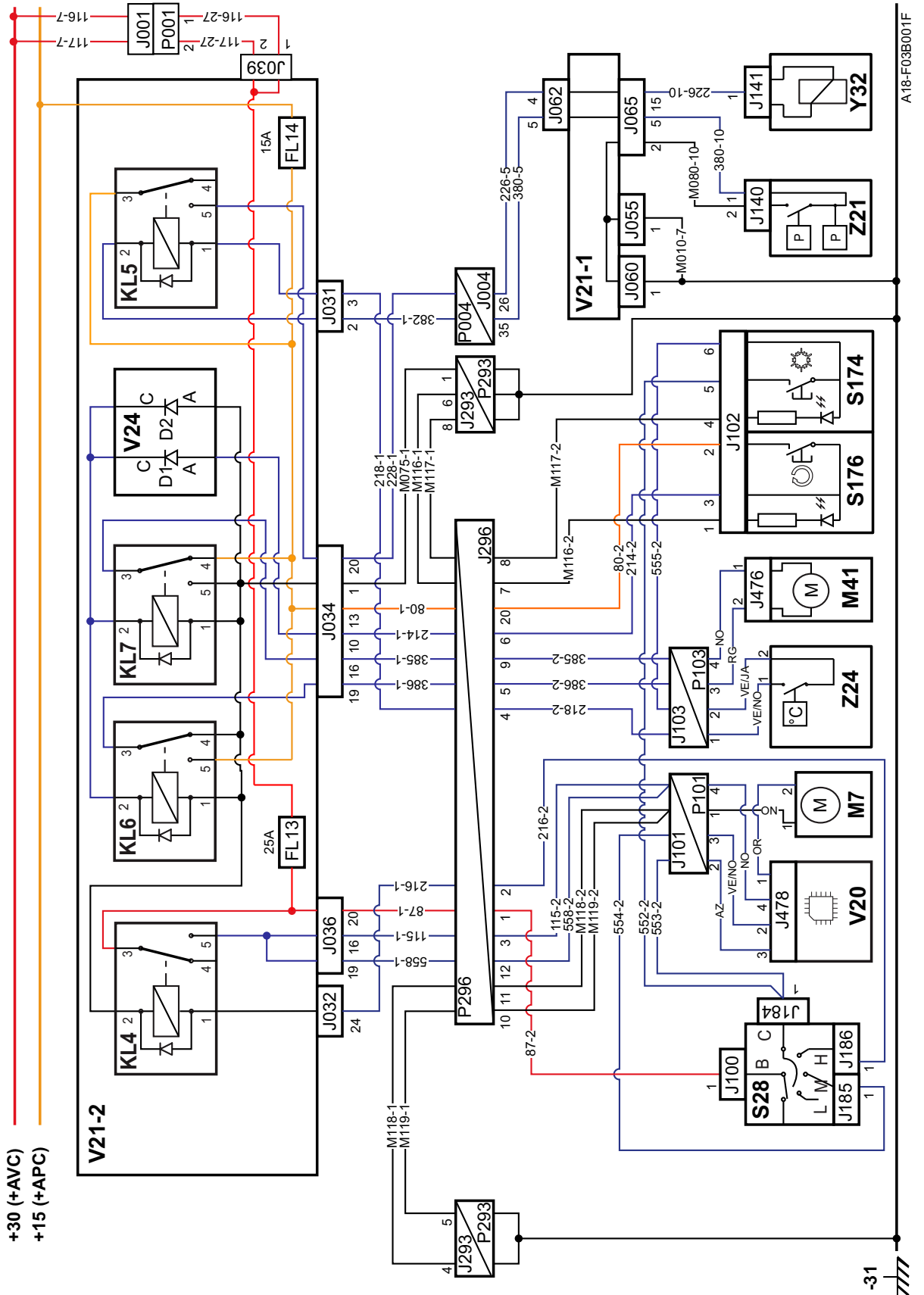


F1

FUNCTION DIAGRAMS



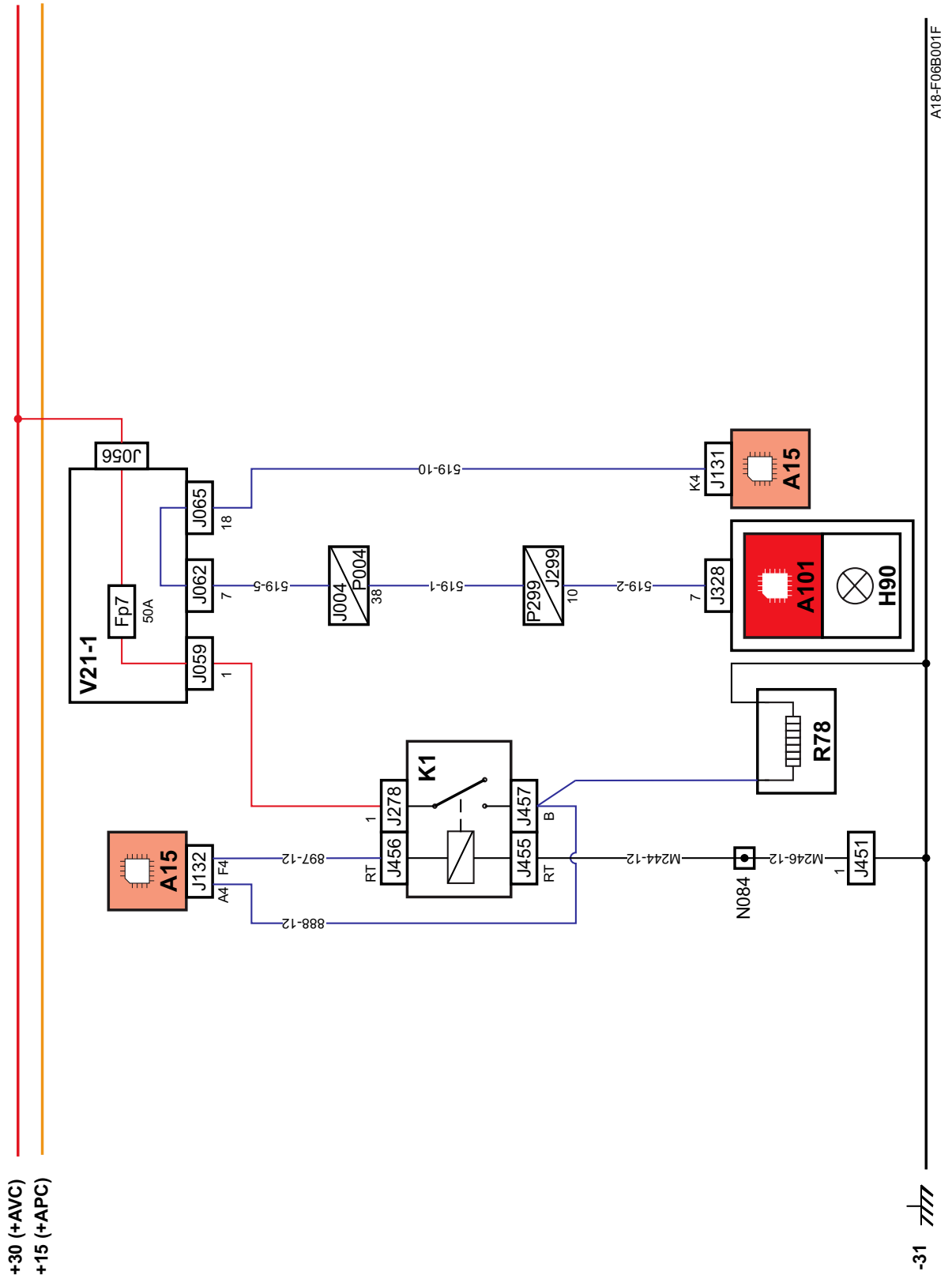
Fan control - Manual air conditioning



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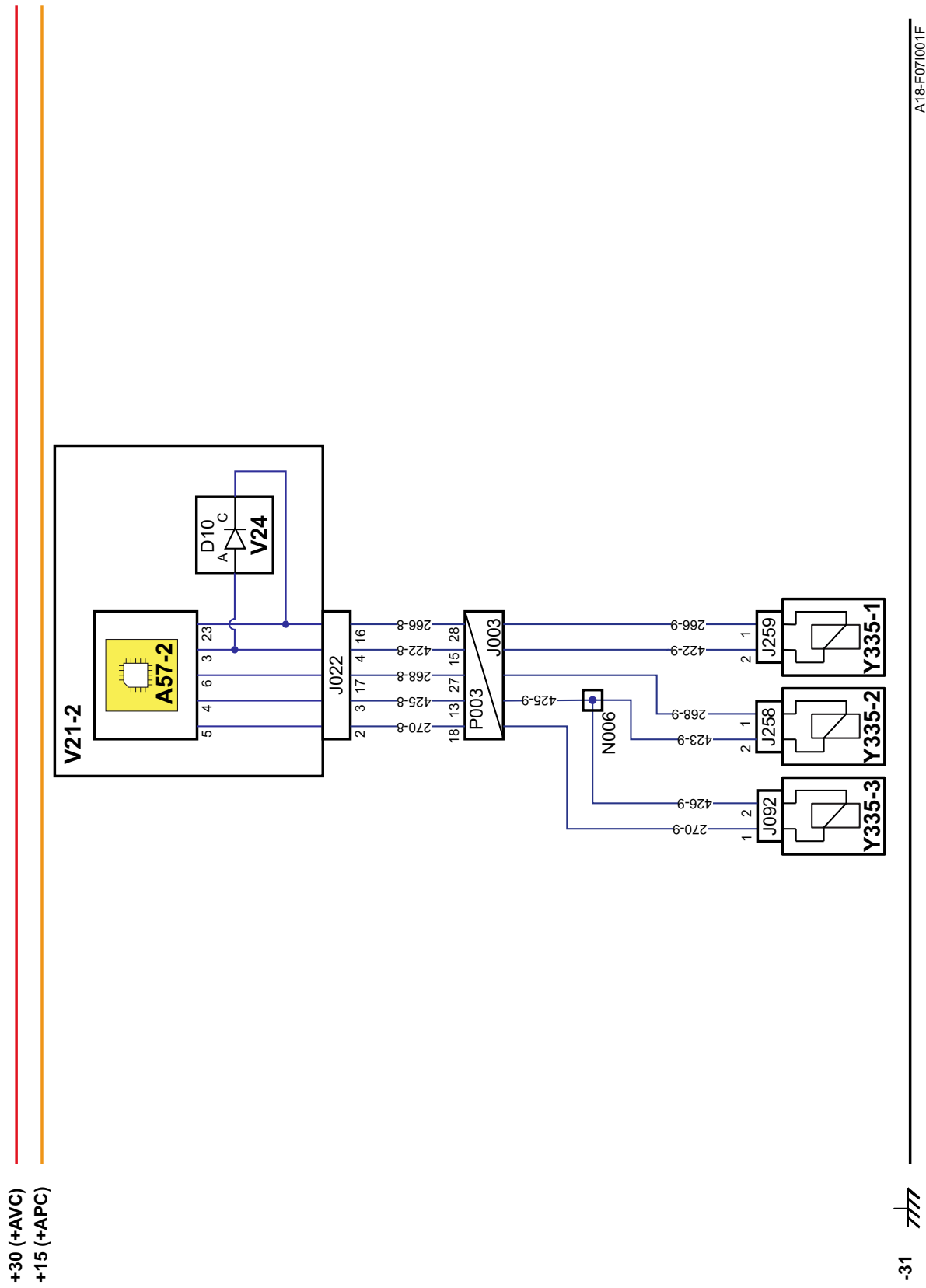
Pre-heating



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Hexashift

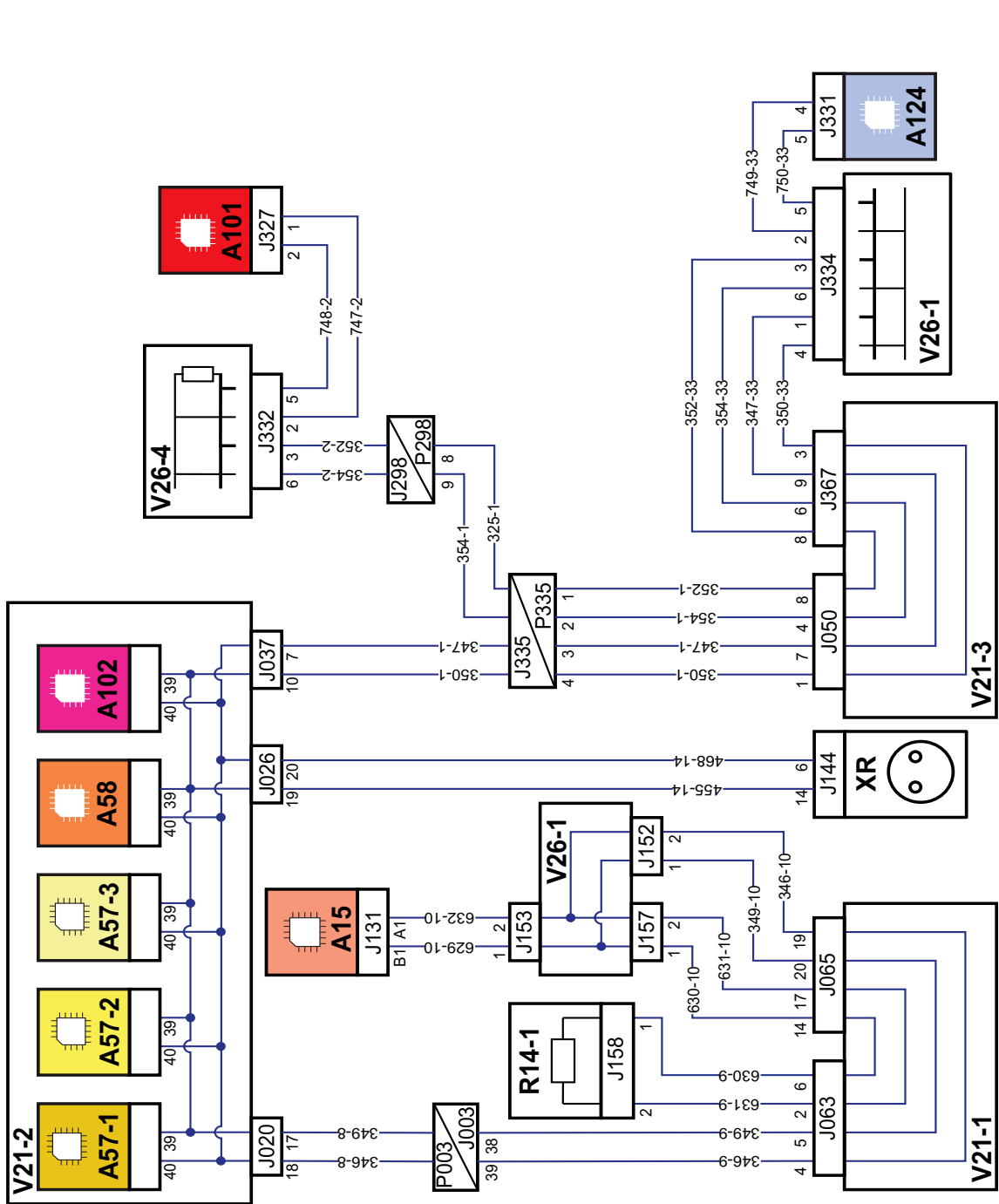


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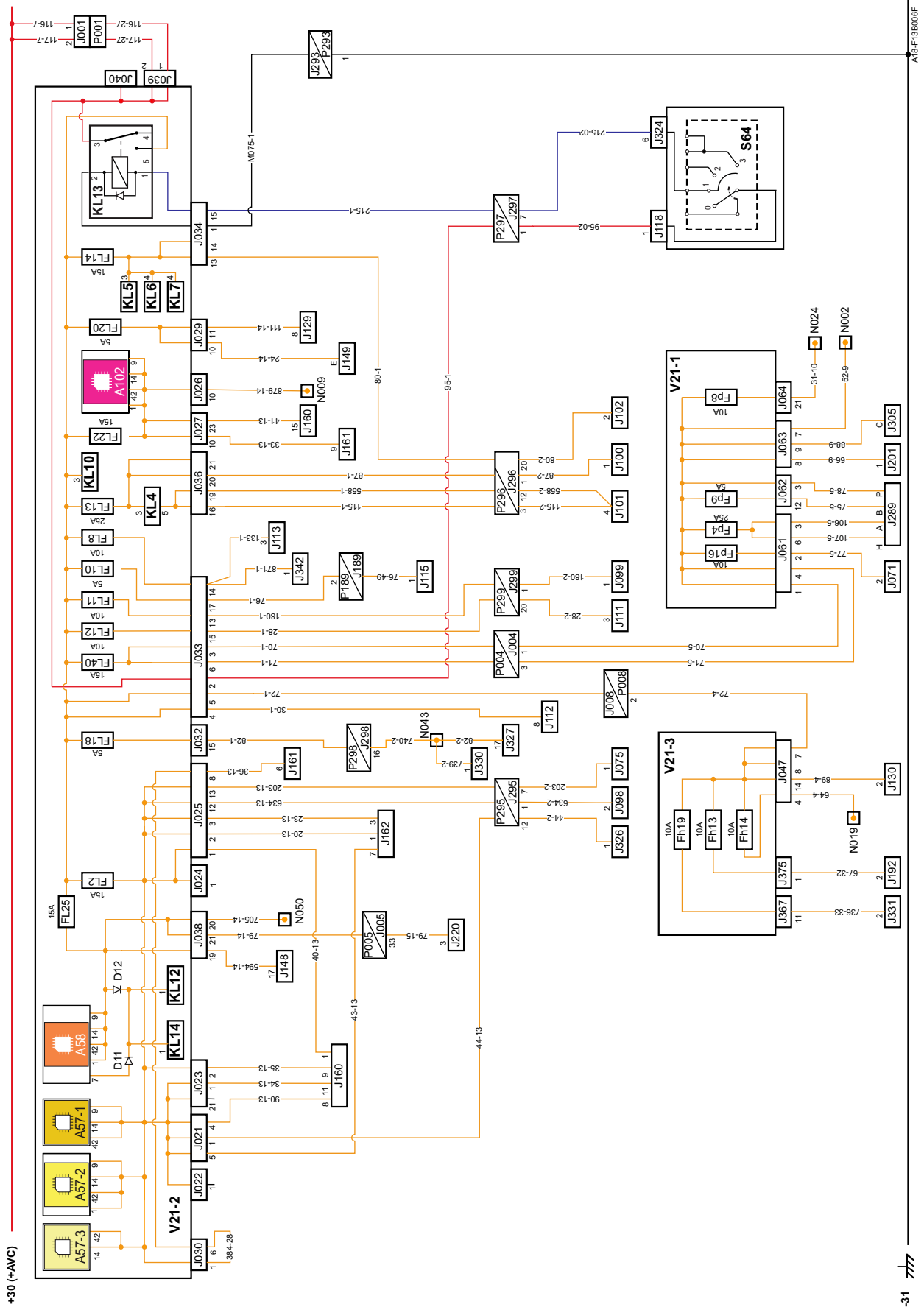
Powertrain CAN Bus (C.I.S.)

+30 (+AVC)
+15 (+APC)



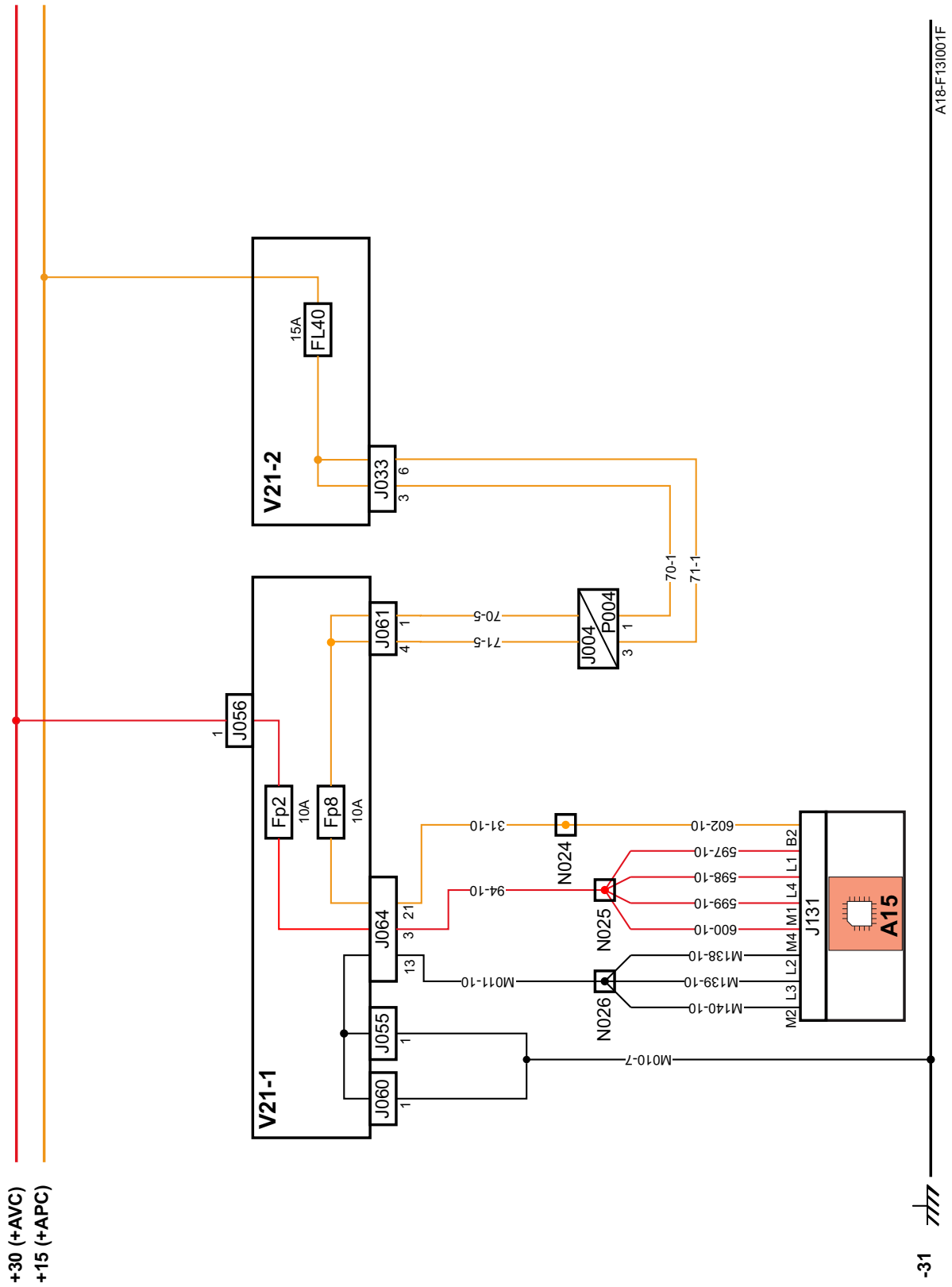


Supply after contact (Manual A/C with LS transmission without Cuna braking)



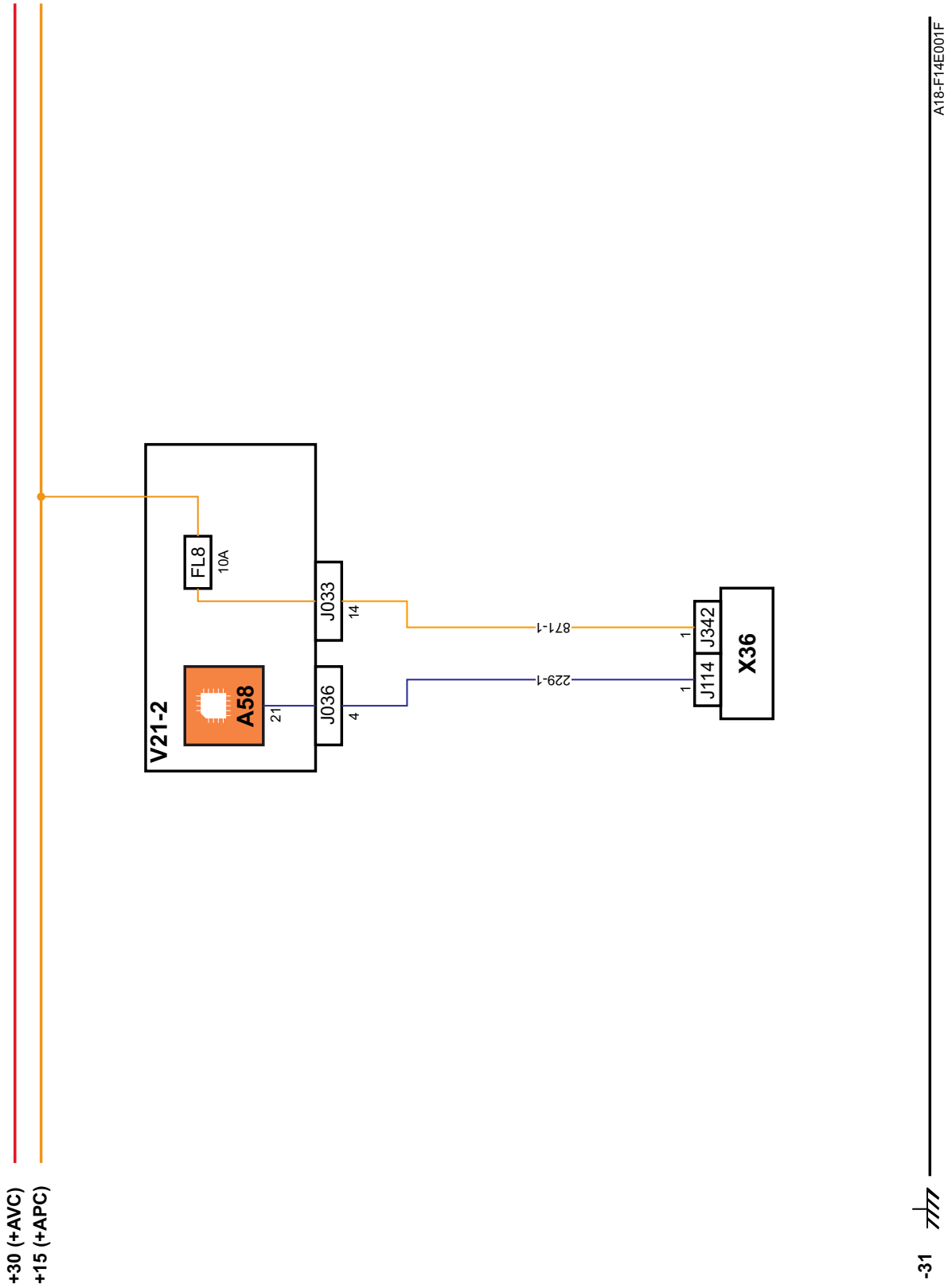


Engine module power supply (ENG)



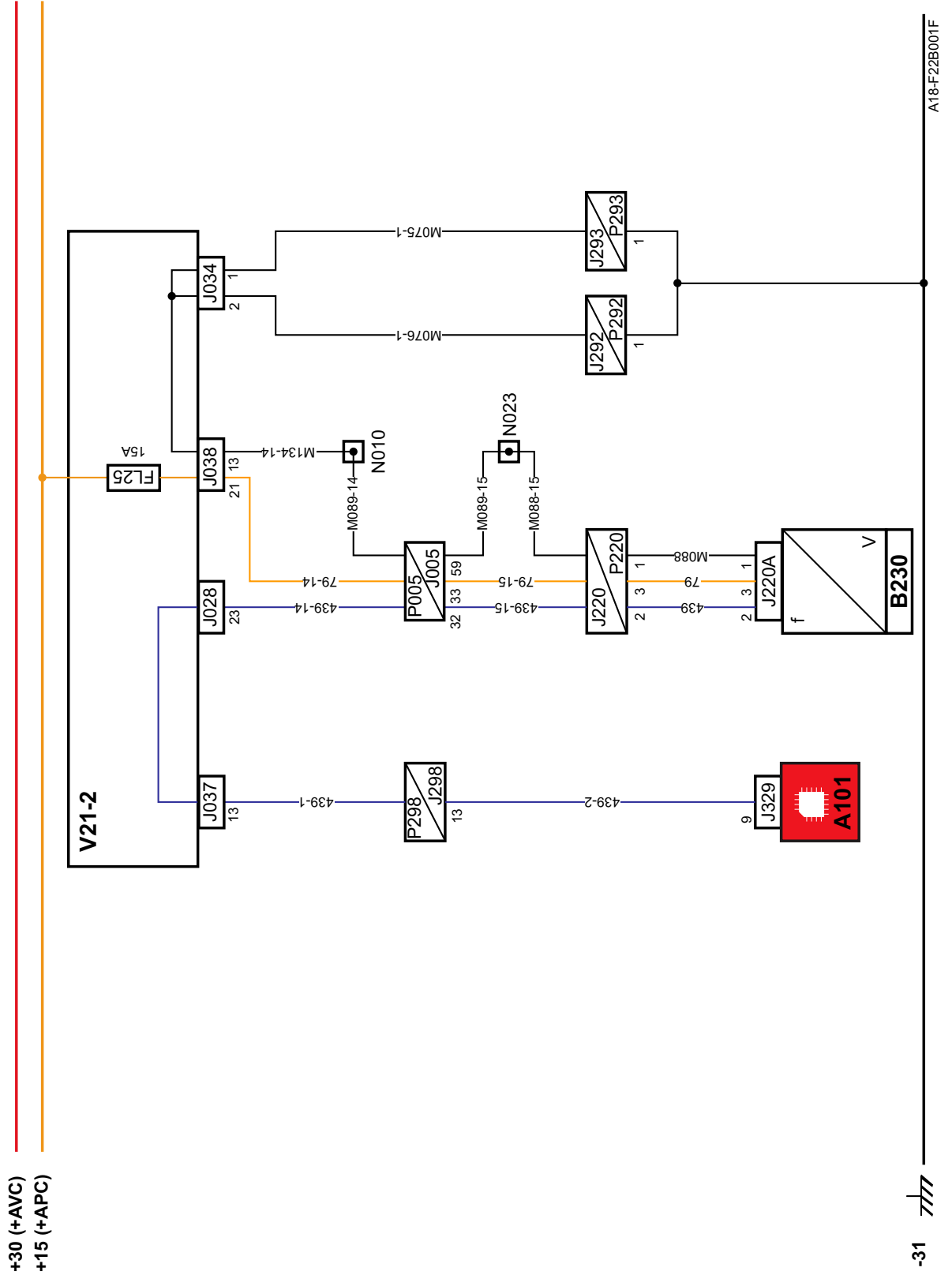


Event counter connector





Real driving speed

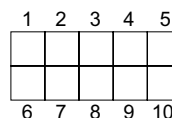
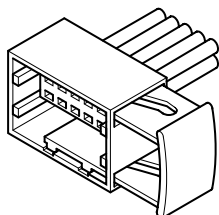




J367A Connector - Upper cab shunt CAN (Cebis)	F2.121
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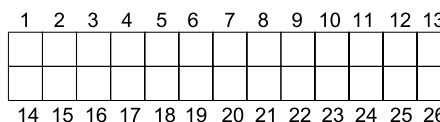
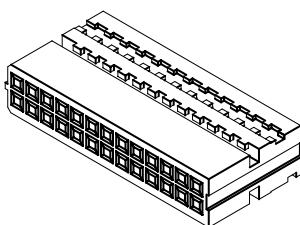
J030 Connector - Proportional control shunt / V21-2 base plate



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Pin	Wire	mm ²	LIGHT	Tip	State
1	384-28	0.5	+ APC power take-off command	J030	6
6	384-28	0.5	+ APC power take-off command	J030	1

J031 Connector - Cab bottom harness / V21-2 base plate (Manual air conditioning)

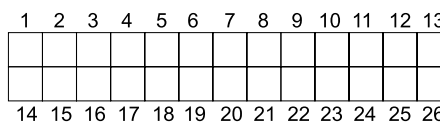
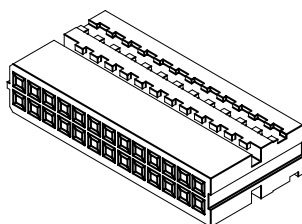


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Pin	Wire	mm ²	LIGHT	Tip	State
1	120-01	0.5	Left indicator power supply (by warning lights button)	J112	1
2	382-01	0.5	Pressure switch (manual A/C)	P004	35
3	218-01	0.5	Pressure switch relay command (Manual air conditioning)	P296	4
4	151-01	0.5	Front RH indicator	J006	2
5	149-01	0.5	RH rear flashing light	J012	D
6	305-01	0.5	Left tractor stop light	J011	N
7	304-01	0.5	Right tractor stop light	J012	N
8	289-01	0.5	Front right tractor position light	J006	16
9	287-01	0.5	Rear right tractor position light	J012	E
10	285-01	0.5	Front right trailer position light	P004	29
11	290-01	0.5	Front left tractor position light	J006	12
12	288-01	0.5	Rear left tractor position light	J011	E
13	286-01	0.5	Front left trailer position light	P004	30
14	152-01	0.5	Front LH indicator	J006	1
15	150-01	0.5	LH rear flashing light	J011	D
16	156-01	0.5	Front left trailer indicator	P004	21
17	155-01	0.5	Front right trailer indicator	P004	20
18	153-01	0.5	Rear right trailer indicator	P004	18
19	154-01	0.5	Rear left trailer indicator	P004	19
20	283-01	0.5	Rear right trailer position light	P004	27
21	371-01	0.5	RH police plate	J006	10



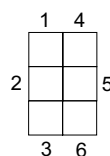
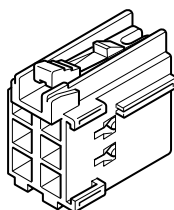
J042 Connector - Harness V23 / V23 base plate



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Pin	Wire	mm ²	LIGHT	Tip		State
1	M097-16	0.5	V23 earth	J125	5	
3	333-16	0.5	Hydraulic CAN H (to hydraulic V23)	J123	6	
4	339-16	0.5	Hydraulic CAN L (to hydraulic V23)	J123	3	
12	085-16	0.5	+ APC V23	J125	2	
14	M098-16	0.5	V23 hydraulic ground	J123	5	
15	459-16	0.5	Vehicle CAN H (to V23)	J125	4	
16	460-16	0.5	Vehicle CAN H (to hydraulic V23)	J123	4	
17	472-16	0.5	Vehicle CAN L (to V23)	J125	1	
18	473-16	0.5	Vehicle CAN L (to hydraulic V23)	J123	1	
22	341-16	0.5	ISO 11783 H (to V23)	J125	6	
23	343-16	0.5	ISO 11783 L (to V23)	J125	3	
25	086-16	0.5	+ APC V23 hydraulics	J123	2	

J045 Connector - Upper cab harness (CAN) / V21-3 base plate



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Pin	Wire	mm ²	LIGHT	Tip		State
1	465-04	0.5	Vehicle CAN L (down)	P010	2	
2	467-04	0.5	Vehicle CAN L (up)	P335	6	
3	476-04	0.5	Vehicle CAN L (A104)	J130	17	
4	452-04	0.5	Vehicle CAN H (down)	P010	5	
5	454-04	0.5	Vehicle CAN H (up)	P335	5	
6	463-04	0.5	Vehicle CAN H (A104)	J130	18	

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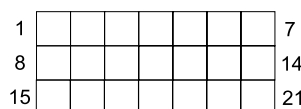
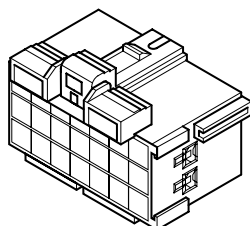
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Pin	Wire	mm ²	LIGHT	Tip		State
17	M034-09	0,75	Rear power take-off solenoid	J086	2	
18	M065-09	0,75	Speed of reverser under torque module	J145	2	
19	M099-09	0,75	Engine speed at gearbox entry	J305	A	
20	M102-09	0,75	Tractor speed	J082	2	
21	M028-09	0,75	Rear PTO brake solenoid valve	J085	2	

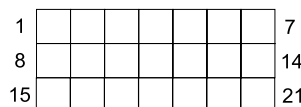
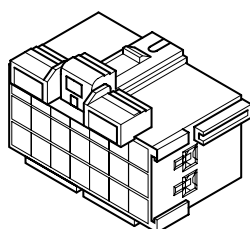
J064 Connector - Engine harness / V21-1 base plate (4-cylinder engine)



0011000564

Pin	Wire	mm ²	LIGHT	Tip		State
1	243-10	3.0	Start	J249	1	
2	124-10	2.0	Low beam supply	J226	H	
3	094-10	3.0	+ AVC engine calculator	N025		
6	126-10	2.0	High beam supply	J226	A	
13	M011-10	3.0	Engine calculator earth	N026		
15	128-10	2.0	Grille working lights supply	N029		
16	M052-10	2.0	Low beam ground	J226	J	
17	M053-10	2.0	High beam ground	J226	S	
19	M005-10	2.0	Alternator ground	J302	2	
20	M054-10	2.0	Ground of grille working lights	N030		
21	031-10	2.0	+ APC engine calculator	N024		

J064 Connector - Engine harness / V21-1 base plate (6-cylinder engine)

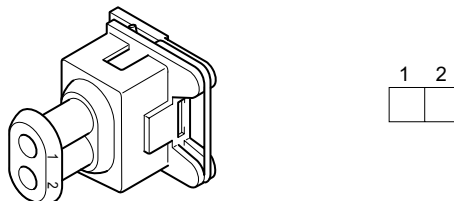


0011000564

Pin	Wire	mm ²	LIGHT	Tip		State
1	243-10	3.0	Start	J249	1	
2	124-10	2.0	Low beam supply	J226	H	
3	094-10	3.0	+ AVC engine calculator	N025		
6	126-10	2.0	High beam supply	J226	A	
13	M011-10	3.0	Engine calculator earth	N026		
15	128-10	2.0	Grille working lights supply	N029		



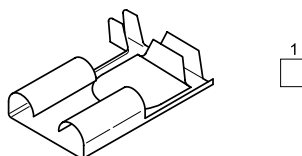
J092 Connector - "Hexashift" solenoid valve 3 (2PS / 4PS - EV3-E)



7700040306

Pin	Wire	mm ²	LIGHT	Tip		State
1	270-09	0,75	2PS / 4PS (EV3-E) solenoid valve	J003	18	
2	426-09	0,75	EV3-E return	N006		

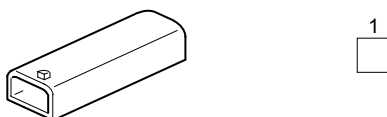
J093 Connector - Oil filter blocked (suction) ('Center Open' (CO) only)



7700065782

Pin	Wire	mm ²	LIGHT	Tip		State
1	317-09	0,75	Oil filter (suction)	J003	35	

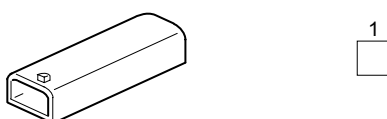
J095 Connector - Left stop contact



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Pin	Wire	mm ²	LIGHT	Tip		State
1	221-02	0.5	Left stop command	J295	5	

J096 Connector - Right stop contact



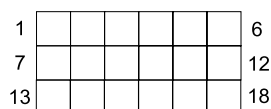
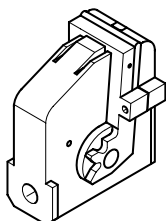
7700055083

Pin	Wire	mm ²	LIGHT	Tip		State
1	220-02	0.5	Right stop command	J295	6	



Pin	Wire	mm ²	LIGHT	Tip		State
10	701-14	0.5	Right indicator (V23)	J028	13	
11	700-14	0.5	Left indicator (V23)	J028	26	
12	325-14	0.5	CARAT play command	J244	2	
13	326-14	0.5	CARAT record command	J244	3	
14	867-14	0.5	CARAT OFF diagnostic	J244	5	

J129 Connector - "Cebis" terminal module

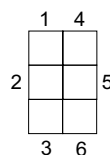
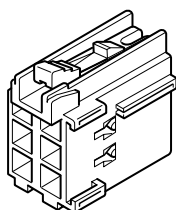


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Pin	Wire	mm ²	LIGHT	Tip		State
2	457-14	0.5	Vehicle CAN H (terminal)	J150	5	
3	559-14	0.5	+ terminal loudspeaker	J244	14	
8	111-14	0.5	+ APC terminal	J029	11	
9	083-14	0.5	+ AVC terminal	J029	12	
11	470-14	0.5	Vehicle CAN L (terminal)	J150	2	
12	560-14	0.5	- terminal loudspeaker	J244	15	
18	M095-14	0.5	Terminal ground	J029	2	



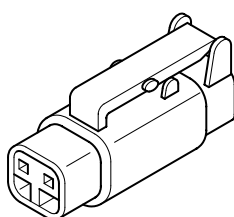
J151 Connector - CAN differentiator with resistor (vehicle CAN) - Electrohydraulic lifting command harness



7700067413

Pin	Wire	mm ²	LIGHT	Tip		State
1	466-14	0.5	Vehicle CAN L (derivator link)	J150	3	
2	464-14	0.5	Vehicle CAN L (armrest)	J149	K	
3	467-14	0.5	Vehicle CAN L (Armrest to V21-2)	J026	12	
4	453-14	0.5	Vehicle CAN H (derivator link)	J150	6	
5	451-14	0.5	Vehicle CAN H (armrest)	J149	A	
6	454-14	0.5	Vehicle CAN H (Armrest to V21-2)	J026	11	

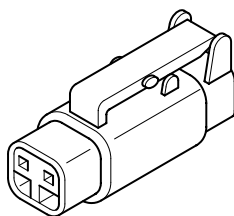
J152 Connector - Engine harness CAN



7700065924V

Pin	Wire	mm ²	LIGHT	Tip		State
1	349-10	0.5	J1939 CAN L powertrain	J065	20	
2	346-10	0.5	J1939 CAN H powertrain	J065	19	

J153 Connector - CAN differentiator to engine calculator

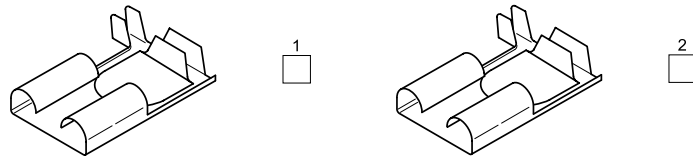


7700065924V

Pin	Wire	mm ²	LIGHT	Tip		State
1	629-10	0.5	J1939 CAN L powertrain (motor derivator - motor)	J131	B1	
2	632-10	0.5	J1939 CAN H powertrain (motor derivator - motor)	J131	A1	



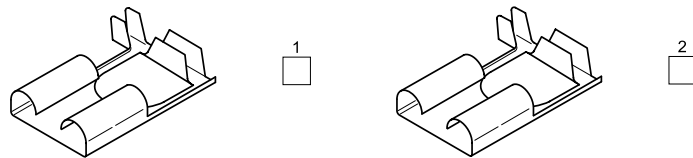
J180 Connector - LH dipped light



7700040944

Pin	Wire	mm ²	LIGHT	Tip	State
1	613-11	1.0	Supply of left low beam	N031	
2	M146-11	1.0	LH dipped beam earth	N032	

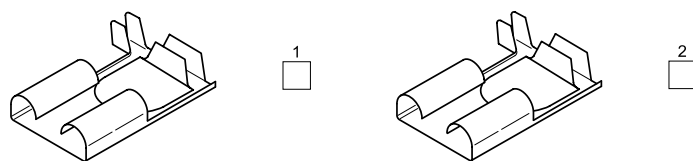
J181 Connector - RH dipped light



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Pin	Wire	mm ²	LIGHT	Tip	State
1	614-11	1.0	Supply of right low beam	N031	
2	M147-11	1.0	RH dipped beam earth	N032	

J182 Connector - LH headlight

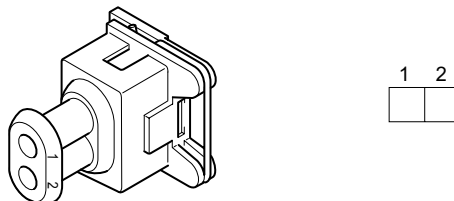


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Pin	Wire	mm ²	LIGHT	Tip	State
1	611-11	1.0	Supply of left high beam	N033	
2	M144-11	1.0	LH headlight earth	N034	



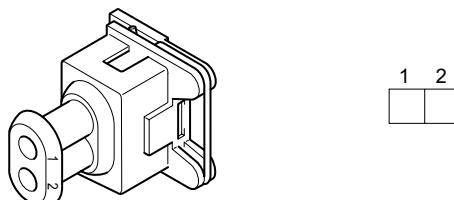
J221 Connector - UP solenoid valve (rear electrohydraulic lifting)



7700040306

Pin	Wire	mm ²	LIGHT	Tip		State
1	448-15	0.5	V- up command return	J005	14	
2	450-15	0.5	V+ up valve command	J005	13	

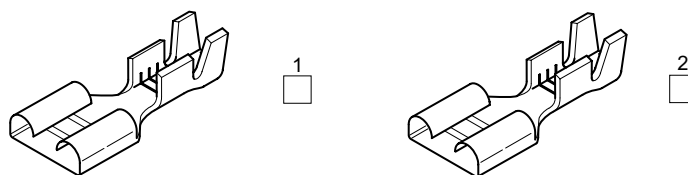
J222A Connector - DOWN solenoid valve (rear electrohydraulic lifting)



7700040306

Pin	Wire	mm ²	LIGHT	Tip		State
1	447-15	0.5	V- down command return	J005	15	
2	449-15	0.5	V+ down valve command	J005	12	

J227 Connector - Air filter blocked

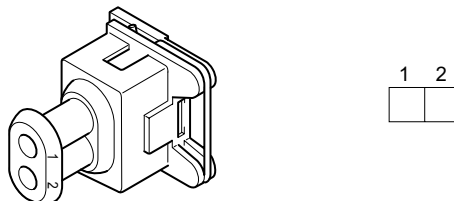


E7700053894

Pin	Wire	mm ²	LIGHT	Tip		State
1	496-10	0.5	Air filter clogging indicator	J065	6	
2	M057-10	0.5	Air filter ground	J065	1	



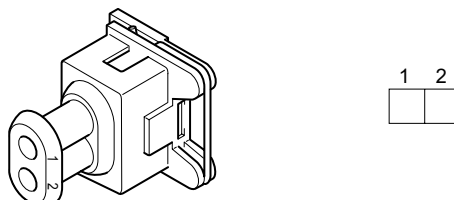
J258 Connector - hexashift 2 (EV2-A) solenoid valve



7700040306

Pin	Wire	mm ²	LIGHT	Tip		State
1	268-09	0,75	EV2-A solenoid valve	J003	27	
2	423-09	0,75	Solenoid valve feedback EV2-A	N006		

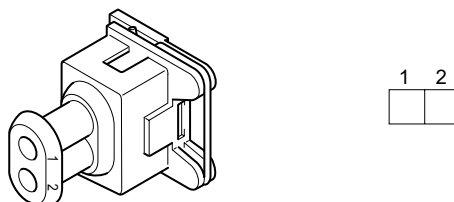
J259 Connector - hexashift 1 (EV1-C) solenoid valve



7700040306

Pin	Wire	mm ²	LIGHT	Tip		State
1	266-09	0,75	EV1-C solenoid valve	J003	28	
2	422-09	0,75	Solenoid valve feedback EV1-C	J003	15	

J262 Connector - Range solenoid valve EV2

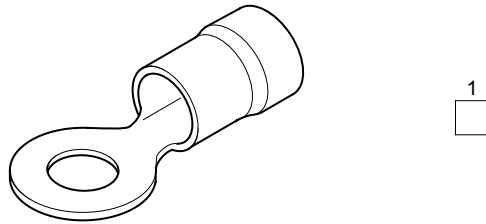


7700040306

Pin	Wire	mm ²	LIGHT	Tip		State
1	262-09	0,75	Range solenoid valve EV2	J003	19	
2	M030-09	0,75	Range solenoid valve EV2	N001		



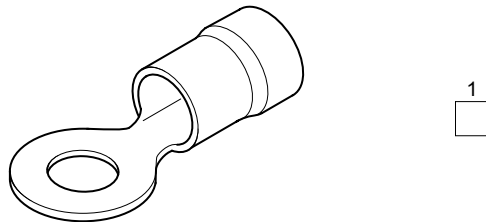
J300 Connector - + terminal (battery)



855180700

Pin	Wire	mm ²	LIGHT	Tip		State
1		35.0	Supply V21-1	J056	1	

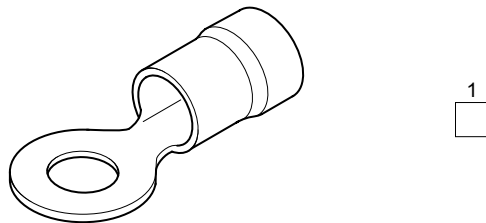
J300 Connector - + terminal (battery)



855180700

Pin	Wire	mm ²	LIGHT	Tip		State
1		60.0	Starter	J229	1	

J301 Connector - - terminal (battery)

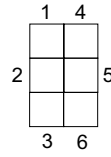
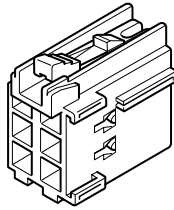


7700619304

Pin	Wire	mm ²	LIGHT	Tip		State
1		60.0	Starter negative	J253	1	



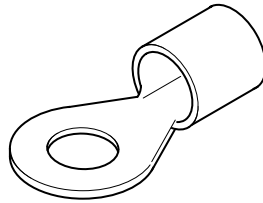
J334 Connector - Powertrain CAN (Cis)



7700067413

Pin	Wire	mm ²	LIGHT	Tip		State
1	347-33	0.5	J1939 CAN H powertrain (V21-2 to display)	J367	9	
2	749-33	0.5	J1939 CAN H powertrain (Display)	J331	4	
3	352-33	0.5	J1939 CAN H powertrain (display to instrument panel)	J367	8	
4	350-33	0.5	J1939 CAN L powertrain (V21-2 to display)	J367	3	
5	750-33	0.5	J1939 CAN L powertrain (Display)	J331	5	
6	354-33	0.5	J1939 CAN L powertrain (display to instrument panel)	J367	6	

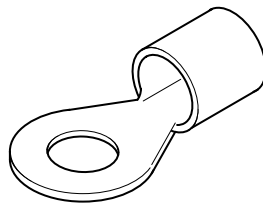
J336 Connector - JPT ground stud supply (input)



7700072082

Pin	Wire	mm ²	LIGHT	Tip		State
1	M050-14	0.5	RH door switch earth	J010	6	

J336 Connector - JPT ground stud supply (input)

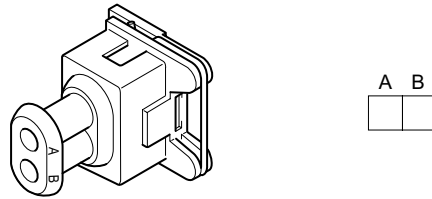


7700072082

Pin	Wire	mm ²	LIGHT	Tip		State
1	M210-01	16.0	Ground of V21-3 3 base plate	J345	1	



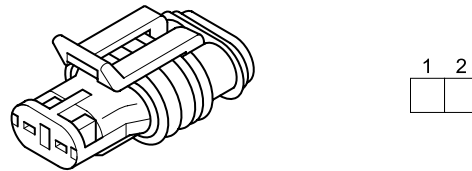
J439 Connector - Engine speed sensor



7700067744

Pin	Wire	mm ²	LIGHT	Tip		State
A	902-12	0.75	Engine speed +	J133	F4	
B	903-12	0.75	Engine speed -	J133	F3	

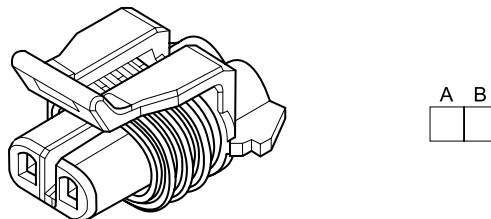
J440 Connector - Distribution sensor



0011021090

Pin	Wire	mm ²	LIGHT	Tip		State
1	443-47		CAM speed -	P188	1	
2	445-47		CAM speed +	P188	2	

J441 Connector - Water-gas oil sensor



7700062936

Pin	Wire	mm ²	LIGHT	Tip		State
A	904-12	0.5	Water-gas oil sensor	J133	D2	
B	926-12	0.5	Water-gas oil sensor	N080		



Splice N001

Wire	mm ²	LIGHT	Tip		State
M030-09	0,75	Range solenoid valve EV2	J262	2	
M031-09	0,75	Range solenoid valve EV3	J263	2	
M032-09	0,75	Range solenoid valve EV4	J264	2	
M029-09	0,75	Range solenoid valve EV1	J090	2	
M033-09	1	Range solenoid valve earth	J063	10	

Splice N002

Wire	mm ²	LIGHT	Tip		State
052-09	0,75	+ APC end of travel	J063	7	
053-09	0,75	+ APC end stroke C1	J254	A	
054-09	0,75	+ APC end stroke C2	J255	A	
055-09	0,75	+ APC end stroke C3	J256	A	
056-09	0,75	+ APC end stroke C4	J257	A	

Splice N006

Wire	mm ²	LIGHT	Tip		State
423-09	0,75	EV2-A return	J258	2	
425-09	0,75	EV2/3 return	J003	13	
426-09	0,75	EV3-E return	J092	2	

Splice N007

Wire	mm ²	LIGHT	Tip		State
510-02	0.5	Brake fluid lamp on dashboard	J073	1	
506-02	0.5	High pressure braking lamp (50 km/h)	J299	6	
507-02	0.5	High pressure braking / Brake fluid lamp	J328	12	

Splice N009

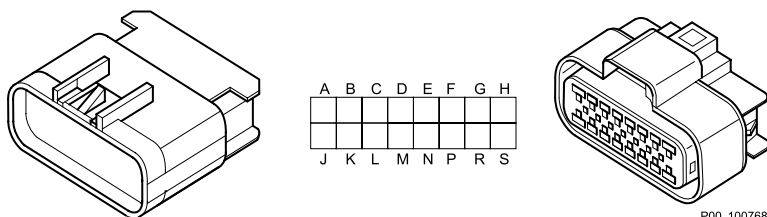
Wire	mm ²	LIGHT	Tip		State
063-14	0.5	+ APC ISO	J146	6	
719-14	0.5	+ APC dampers (Z+)	J041	11	
879-14	0.5	+ APC electrohydraulic lifting command harness	J026	10	



Tip		P003			J003			Tip		State
		Wire	mm ²	Pin	LIGHT	Wire	mm ²			
J020	5	271-08	0.5	22	Reverse solenoid valve	271-09	0,75	J117	1	
J020	16	477-08	0.5	23	Speed of reverser under torque module	477-09	0,75	J145	1	
J020	4	427-08	0.5	24	Return solenoid valve of reverse	427-09	0,75	J117	2	
J020	14	263-08	0.5	25	Range solenoid valve EV3	263-09	0,75	J263	1	
J020	20	264-08	0.5	26	Range solenoid valve EV4	264-09	0,75	J264	1	
J022	17	268-08	0.5	27	"Hexashift" solenoid valve 2	268-09	0,75	J258	1	
J022	16	266-08	0.5	28	"Hexashift" solenoid valve 1	266-09	0,75	J259	1	
J020	8	319-08	0.5	29	End stop C2	319-09	0,75	J255	B	
J020	2	320-08	0.5	30	End stop C3	320-09	0,75	J256	B	
J020	1	321-08	0.5	31	End stop C4	321-09	0,75	J257	B	
J024	7	181-08	0.5	32	Cuna braking solenoid valve command	181-09	0,75	J306	C	
J024	9	359-08	0.5	33	Cuna braking pressure switch	359-09	0,75	J306	B	
J022	22	479-08	0.5	34	Dephased engine speed	479-09	0,75	J083	1	
J022	11	317-08	0.5	35	Suction filter (eco LS only)	317-09	0,75	J093	1	
J024	24	217-08	0.5	36	Reverser relay command	217-09	0,75	J063	1	
J020	17	349-08	0.5	38	J1939 CAN L powertrain (to engine calculator)	349-09	0,5	J063	5	
J020	18	346-08	0.5	39	J1939 CAN H powertrain (to engine calculator)	346-09	0,5	J063	4	
J024	1	059-08	0.5	40	+ APC braking	059-09	0,75	J306	A	
J022	8	019-08	0.5	41	+ 5 V pressure switch 50 km/h braking pressure	019-09	0,75	J306	H	
J022	5	360-08	0.5	42	Pressure switch 50 km/h braking	360-09	0,75	J306	F	
J022	12	259-08	0.5	43	50 km/h braking solenoid valve	259-09	0,75	J306	G	
J024	6	260-08	0.5	44	Air brake solenoid valve	260-09	0,75	J306	E	
J024	16	233-08	0.5	45	Park lock OFF contact					
J024	17	234-08	0.5	46	Park lock ON contact					
J024	18	273-08	0.5	47	Park lock solenoid valve OFF					
J024	20	274-08	0.5	48	Park lock solenoid valve ON					
J022	6	393-08	0.5	50	Ref. + Steering angle	393-09	0,75	J287	2	
J022	25	387-08	0.5	51	Ref. - steering angle	387-09	0,75	J287	4	
J022	14	134-08	0.5	52	Steering angle	134-09	0,75	J287	1	



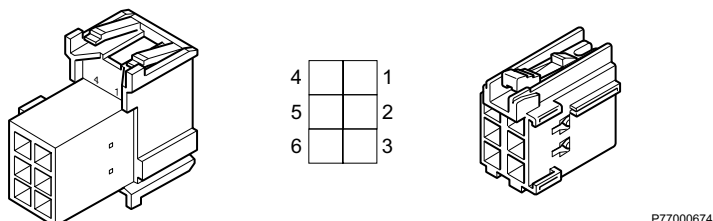
P012 - J012 Connector - Interconnection



P00 1007680

Tip		P012			J012			Tip		State
		Wire	mm ²	Pin	LIGHT	Wire	mm ²			
J237D	1	536-03	0,5	A	+ APC right fender power take-off command (ON/OFF)	037-01	0,5	J032	26	
J238D	1	540-03	0,5	B	Right fender up command	198-01	0,5	J037	12	
J239D	1	541-03	0,5	C	Right fender down command	174-01	0,5	J037	9	
J177D	1	535-03	0,75	D	RH rear flashing light	149-01	0,5	J031	5	
J177D	2	534-03	0,75	E	Rear right tractor position light	287-01	0,5	J031	9	
N013D		544-03	0,5	F	Rear right push pull button	139-01	0,5	J037	2	
J240D	2	547-03	0,5	G	+ 12 V rear right push	015-01	1,0	J037	20	
J236D	1	539-03	0,5	H	Right fender power take-off stop command	163-01	0,5	J037	3	
J237D	2	538-03	0,5	J	Right fender power take-off command	206-01	0,5	J032	10	
N012D		M109-03	1	K	Right-hand fender light ground	M129-01	0,5	J293	2	
J238D	2	542-03	0,5	L	Right fender up command return	418-01	0,5	J037	15	
J239D	2	543-03	0,5	M	Right fender down command return	416-01	0,5	J037	18	
J177D	4	533-03	0,75	N	Right tractor stop light	304-01	0,5	J031	7	
J176D	1	532-03	0,75	P	RH wing work light	292-01	0,75	J036	18	
J241D	2	M108-03	0,5	R	RH rear pull ground	M086-01	0,5	J292	8	
J236D	2	537-03	0,5	S	Right fender power take-off stop command	039-01	0,5	J011	S	

P013 - J013 Connector - Interconnection

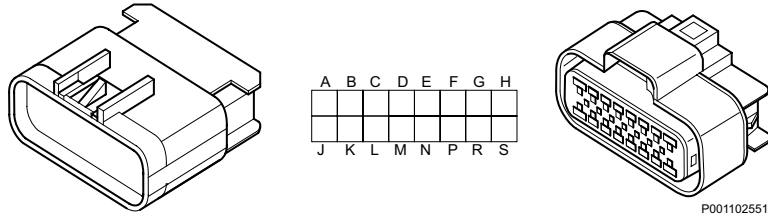


P7700067438

Tip		P013			J013			Tip		State
		Wire	mm ²	Pin	LIGHT	Wire	mm ²			
J168G	2	562-18	1,0	1	Internal rear left working light	297-04	1,0	J048	9	
J168G	1	M120-18	1,0	3	Ground of internal rear left working light	M041-04	1,0	J048	16	
J169G	2	563-18	1,0	4	External rear left working light	295-04	1,0	J048	6	
J169G	1	M121-18	1,0	6	Ground of external rear left working light	M039-04	1,0	J048	2	



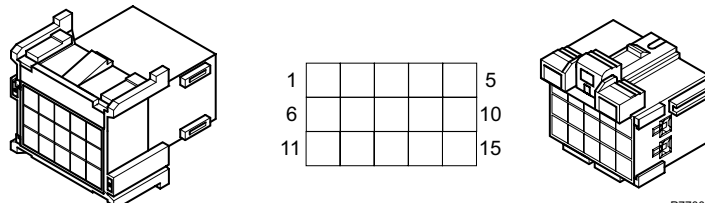
P226 - J226 Connector - Interconnection



P0011025510

Tip		P226			J226			Tip		State
		Wire	mm ²	Pin	LIGHT	Wire	mm ²			
N033		126-11	2.0	A	High beam supply	126-10	2.0	J064	6	
J179	1	610-11	1.0	C	Supply of right grille working light	610-10	1.0	N029		
J110	A	143-11	0.75	E	Hood grid temperature sensor	143-10	0.5	J065	8	
J178	1	609-11	1.0	F	Supply of left grille working light	609-10	1.0	N029		
N031		124-11	2.0	H	Low beam supply	124-10	2.0	J064	2	
N032		M052-11	2.0	J	Ground of low beam	M052-10	2.0	J064	16	
J178	2	M142-11	1.0	L	Ground of left grille working light	M142-10	1.0	N030		
J110	B	413-11	0.75	M	Hood grid temperature sensor reference (climate control)	413-10	0.5	J065	12	
J179	2	M143-11	1.0	P	Ground of right grille working light	M143-10	1.0	N030		
N034		M053-11	2.0	S	High beam ground	M053-10	2.0	J064	17	

P244 - J244 Connector - Interconnection

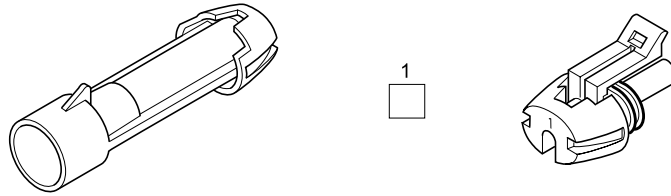


P7700067426

Tip		P244			J244			Tip		State
		Wire	mm ²	Pin	LIGHT	Wire	mm ²			
J276	6	325-20	0.5	2	CARAT play command	325-14	0.5	J126	12	
J276	2	326-20	0.5	3	CARAT record command	326-14	0.5	J126	13	
J276	3	865-20	0.5	4	CARAT check	865-14	0.5	N079		
J276	7	867-20	0.5	5	CARAT OFF diagnostic	867-14	0.5	J126	14	
N078		062-20	0.5	6	CARAT ref.+	062-14	0.5	J126	7	
J275	9	327-20	0.5	8	Hyd lamp	327-14	0.5	J124	6	
J275	2	362-20	0.5	9	+ 12V safety solenoid valve	362-14	0.5	N011		
J275	5	137-20	0.5	10	Safety solenoid valve	137-14	0.5	J124	7	



P461 - J461 Connector - Interconnection



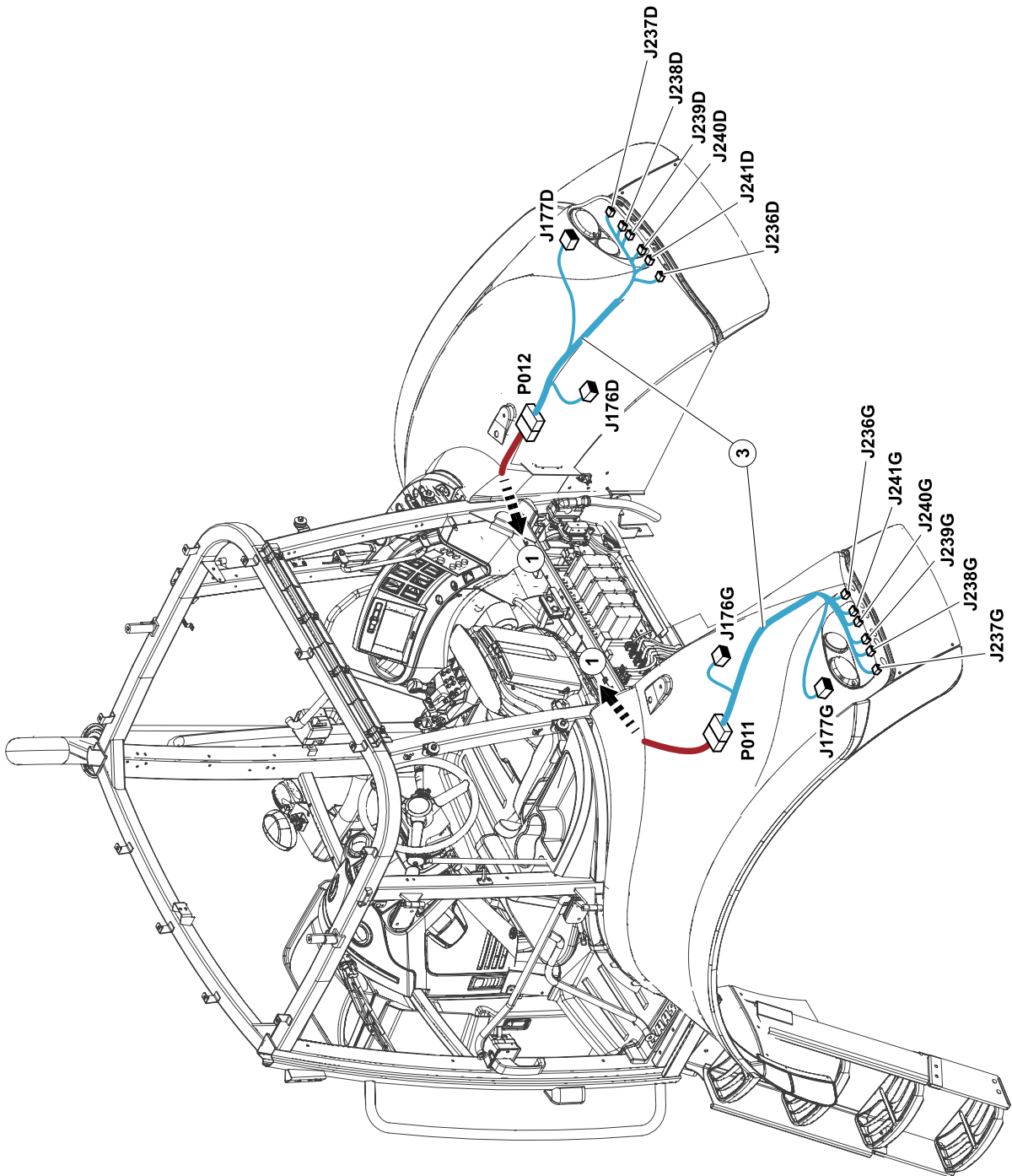
P7700037702

Tip		P461			J461			Tip		State
		Wire	mm ²	Pin	LIGHT	Wire	mm ²			
J027	18	278-13	0.5	1	Front suspended axle right-hand position sensor	278-14	0.5	P005	10	



03 - Fender harness

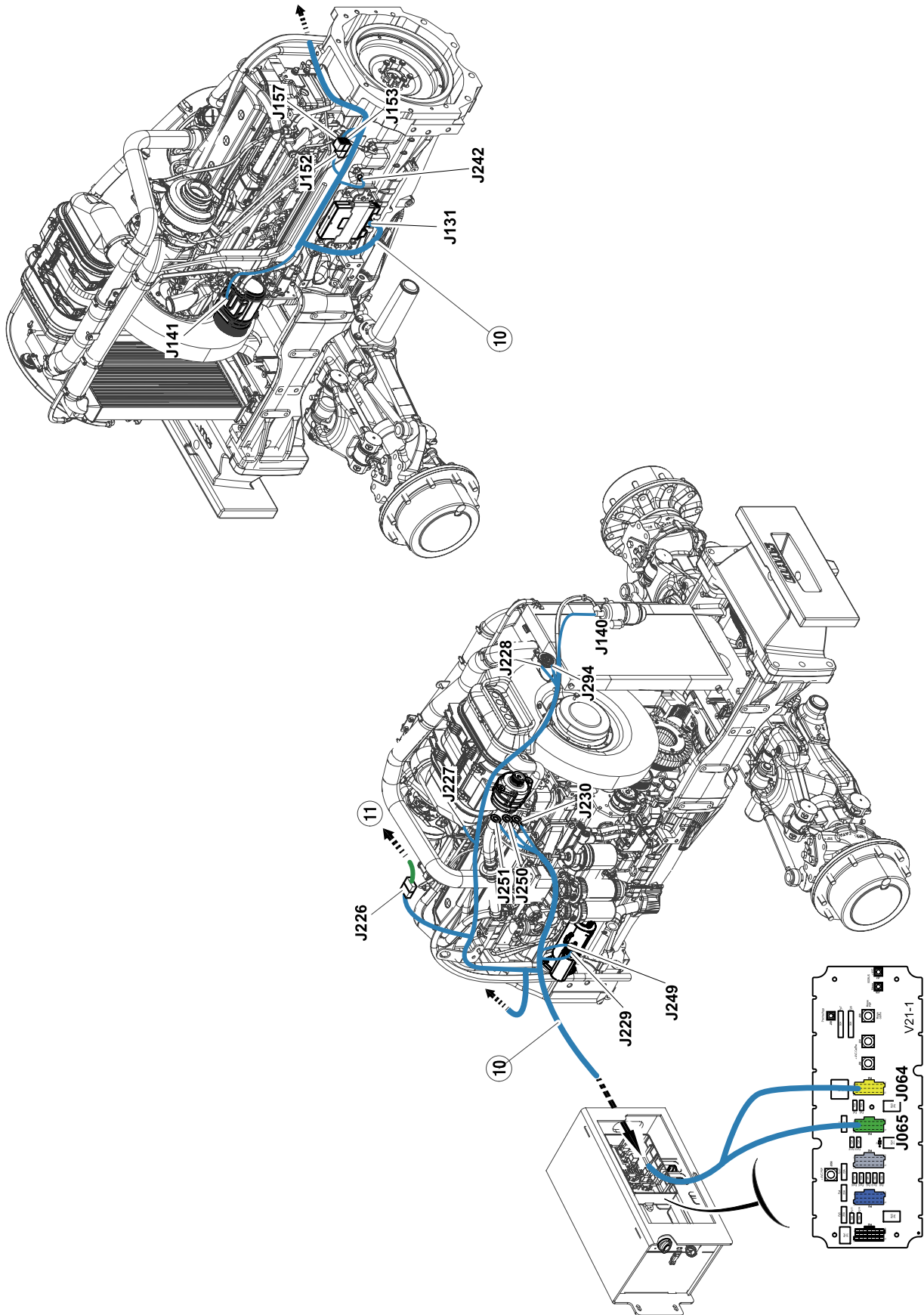
A18-FX03011





10 - Engine harness (6 cylinders)

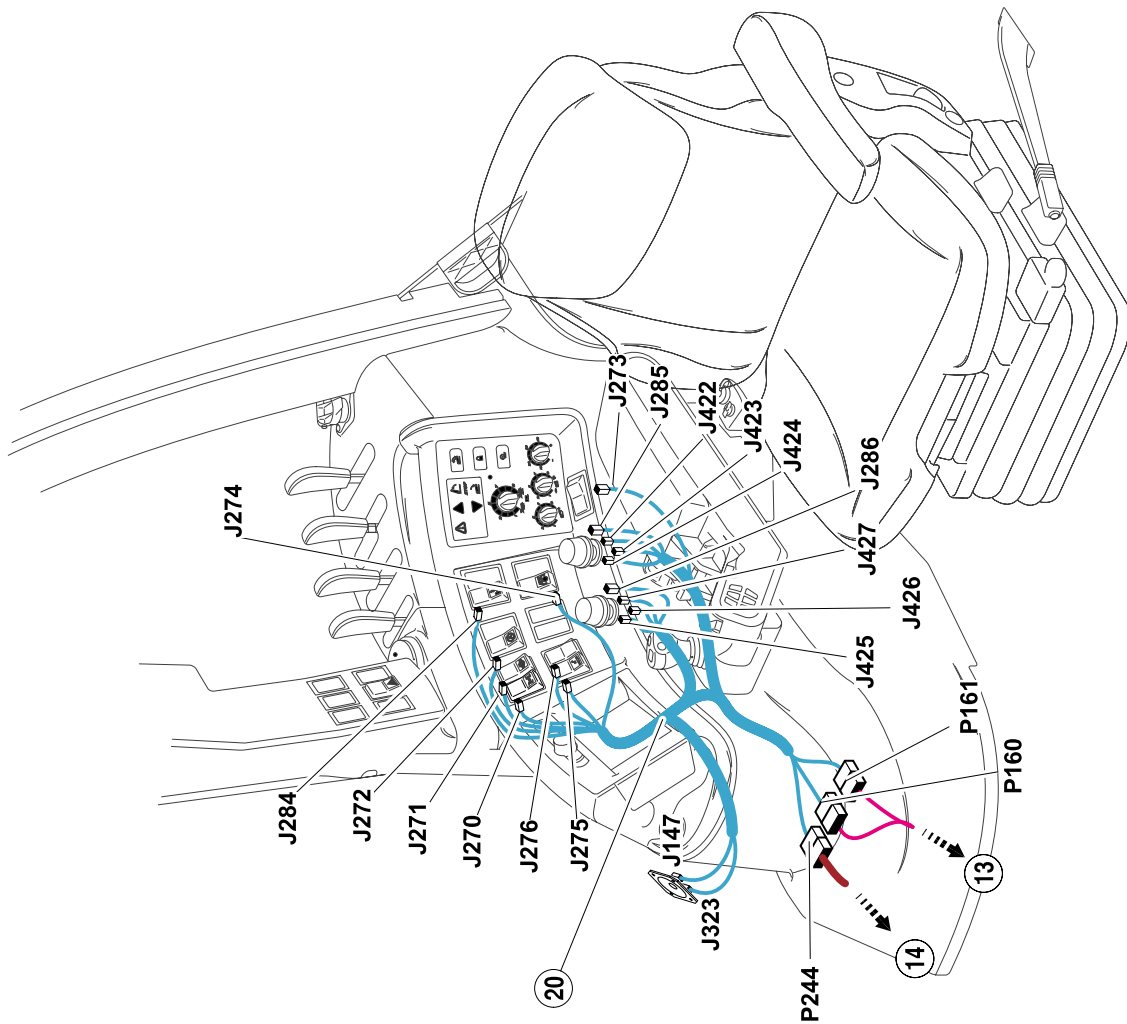
A18-FX1002I





20 - Right console harness

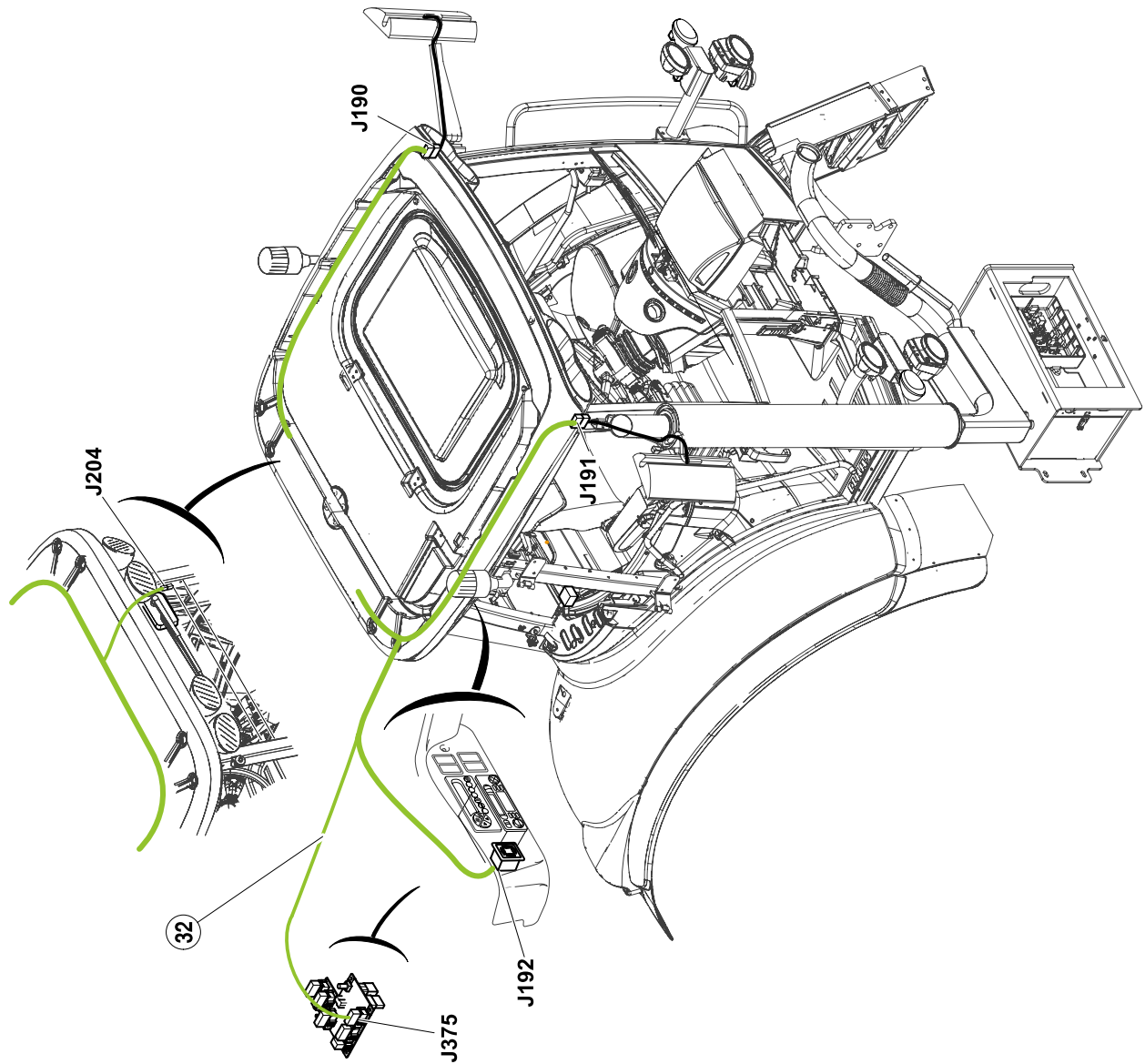
A18-FX20011





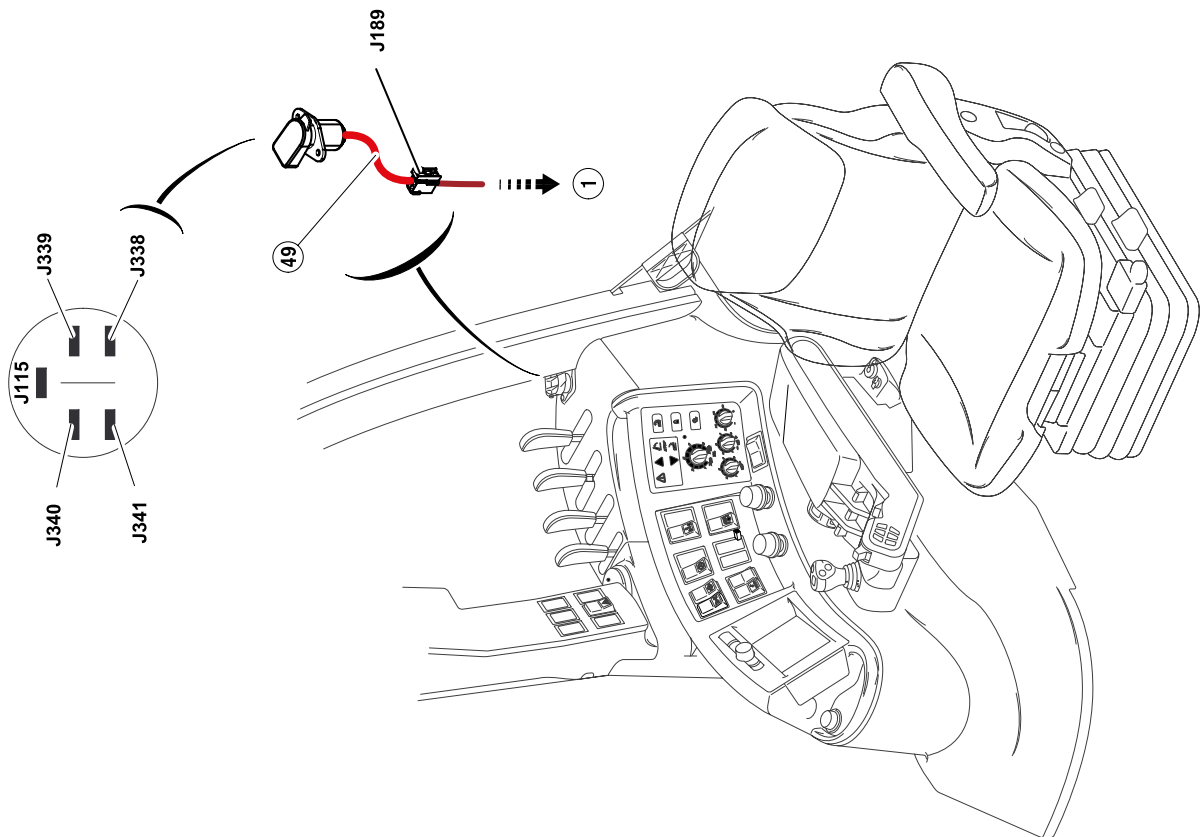
32 - Defrosting mirror harness

A18-FX32011





49 - Cab tools power outlet harness



A18-FX49011

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