

SPARTAN MOTORS CHASSIS, INC.

ELECTRICAL SYSTEMS GUIDE

"America's Choice for Performance"

Motorhome Chassis

Motorhome Chassis



Spartan Motors Chassis, Inc.
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2000, 2001,2002 MM, MM-GT WO/VIP

1) ABBREVIATIONS

2) WIRE LIST

3) SYMBOLS

4) CONNECTOR DESCRIPTION

FUNCTION	NUMBER
1. CUSTOMER CONNECTIONS	MM CUST.
2. CAB HARNESS	1910-GG10
3. FRONT CHASSIS	1885-GG10
4. FRONT PDC HARNESS WO/VIP	1881-GG10-001
5. REAR CHASSIS	1902-GG10
6. REAR PDC HARNESS	1578-GG10
7. ENGINE HARNESS	1506-GG10

5) SCHEMATICS

CIRCUIT FUNCTION	SCHEMATIC NUMBER
1. ABS	0025-GG9-002
2. AIR DRYER	0025-GG9-004
3. AMETEK DIXSON GAUGES	0025-GG9-005
4. CRUISE	0025-GG9-006
5. CUSTOMER WIRES	0025-GG9-008
6. DATALINK/DIAGNOSTIC	0025-GG9-010
7. DEMULTIPLEXER	0025-GG9-012
8. EXHAUST BRAKE	0025-GG9-014
9. GROUND TYPE 1	0025-GG9-016
10. GROUND TYPE 2	0025-GG9-018
11. GROUND TYPE 4	0025-GG9-020
12. HEATED MOISTURE EJECTORS	0025-GG9-022
13. HEATER/AIR CONDITIONING	0025-GG9-024
14. HORN	0025-GG9-026
15. LAMPS, DOCKING	0025-GG9-028
16. LAMPS, REVERSE	0025-GG9-030
17. LOW IDLE	0025-GG9-032

18. POWER DISTRIBUTION ACCESSORY	0025-GG9-034
19. POWER DISTRIBUTION BATTERY	0025-GG9-036
20. POWER DISTRIBUTION IGNITION	0025-GG9-038
21. POWER STEP	0025-GG9-040
22. PREHEATER	0025-GG9-042
23. START, CHARGE	0025-GG9-044
24. STOP/TURN/TAIL/MARKER/HEADLAMPS	0025-GG9-046
25. THROTTLE	0025-GG9-048
26. TRANSMISSION	0025-GG9-050
27. WATER IN FUEL	0025-GG9-052
28. BUSSMANN REAR (EM0026)	EM0026
29. BUSSMANN REAR (EM0027)	EM0027
30. BUSSMANN FRONT (EM0028)	EM0028
31. BUSSMANN FRONT (EM0029)	EM0029
32. BUSSMANN FRONT (EM0030)	EM0030

6) MISCELLANEOUS

FUNCTION	NUMBER
1. FRONT PDC ASSEMBLY WO/VIP	1882-GG5-001
2. REAR PDC ASSEMBLY	1937-GG5

ABBREVIATION LIST

A

DESCRIPTION	ABBREVIATION
And	&
Ampere	A
Air Cleaner	A/CL
Air Deflector	A/DFL
Air over Hydraulic	A/H
Anchor nut	A/NUT
Arm rest	A/RST
Anti rattle	A/RTL
Air suspension	A/SUSP
Automatic transmission	A/TRNS
Absolute	ABS
Absorber	ABS
Antilock brake system	ABS
Above	ABV
Air Conditioning	AC
Alternating current	AC
Access	ACC
Accelerator	ACCEL
Accumulator-Front	ACCF
Accelerometer	ACCLRM
Accumulator-Rear	ACCR

DESCRIPTION	ABBREVIATION
Acceleration	ACCRTN
Accumulator	ACCUM
Accent	ACNT
Accessory	ACSRY
Actuator	ACTR
Active	ACTV
Adapter	ADAP
Additive	ADDT
Adhesive	ADHES
Adjust	ADJ
Adjuster	ADJR
Advance	ADV
Aft Extension	AE
Air	AIR
Aluminum	AL
All seasons touring	AL2
All seasons performance	AL3
Alarm	ALRM
All seasons	ALS
Alternator	ALT
Altitude	ALT

DESCRIPTION	ABBREVIATION
Amplitude modulation	AM
Ambient	AMB
Ammeter	AMM
Amplifier	AMPF
Armature	AMT
Anchor	ANC
Antenna	ANT
Applique'	APLQ
Application	APPL
Assembly	ASM
Assist	ASST
Attach	ATCH
Axle-torque-Left Rear	ATLR
Axle torque-Right Rear	ATRR
Automatic	AUTO
Auxiliary	AUX
Average	AVG
After the Event	POST
Average Roughness	RA
Ambient	TAMB

B

DESCRIPTION	ABBREVIATION
Bellcrank	B/C
Ball Joint	B/JNT
Back Up	B/U
Balance	BAL
Barometric	BARO
Barrier	BARR
Battery	BAT
Barrel	BBL
Body control module	BCM
Board	BD
Beam	BEAM
Both fronts	BF
Baffle	BFL
Bulkhead	BHD
Binding	BIND
Backing	BKG
Buckle	BKL
Booklet	BKLT
Backplate	BKPLT

DESCRIPTION	ABBREVIATION
Brakeplate	BKPLT
Brake switch - 12 volt	BKSW
Bucket	BKT
Backup	BKUP
Bleeder	BLEDR
Block	BLK
Blower	BLO
Below	BLW
Bleed	BLW
Bolster	BOLS
Bolt/Screw	BOLT
Booster	BOOS
Bumper	BPR
Both rears	BR
Brace	BR
Braid	BRD
Border	BRDR
Bearing	BRG
Brake	BRK

DESCRIPTION	ABBREVIATION
Brake	BRK
Breaker	BRKR
Bracket	BRKT
Breather	BTHER
Bottom	BTM
Button	BTN
Bushing	BUSH
Button	BUT
Blackwall	BW
Bezel	BZL
Boot Caliper - Left	TBCL
Boot Caliper - Right	TBCR
Bearing inner Race - Left Front	TBILF
Bearing inner Race - Left Rear	TBILR
Bearing Inner Race - Right Front	TBIRF
Bearing Inner Race - Right Rear	TBIRR
Bearing Outer Race - Left Front	TBOLF
Bearing Outer Race - Left Front	TBOLR
Bearing Outer Race - Right Front	TBORF

Bearing Outer Race - Right Rear	TBORR
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Booster Skin	TBSKIN
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ABBREVIATION LIST

C

DESCRIPTION	ABBREVIATION
Counterbalance	C/BAL
Cross Bar	C/BAR
Cylinder block	C/BLK
Crankcase	C/CASE
Courtesy Lamp	C/LP
Cigarette lighter	C/LTR
Crossmember	C/MBR
Crossover	C/OVR
Center Pillar	C/PLR
Cross Shaft	C/SHF
Control Valve	C/VLV
Cabinet	CABT
Calibrate	CAL
Calibration	CALN
Calibrator	CALR
Cancel	CANC
Capacitor	CAPAC
Carburetor	CARB
Carrier	CARR
Case	CASE
Cavity	CAV
Citizens band	CB
Cable	CBL
Compact disc	CD
Compact disc player	CD/PLYR
Conduit	CDT
Combination emission control	CEC
Certification	CERT
Cable tension - park brake left rear	CFLR
Chassis	CH
Channel	CHAN
Chassis	CHAS
Chemical	CHEM
Check	CHK
Chamber	CHMBR
Charge	CHRG
Circuit	CIR
Circuit	CIRC
Clamp	CLA
Clear	CLER
Clearance	CLER
Cooling	CLG
Clock	CLK

DESCRIPTION	ABBREVIATION
Cleaning	CLNG
Cleaner	CLNR
Closed loop	CLOOP
Caliper	CLPR
Cooler	CLR
Closure	CLSR
Clutch	CLT
Clutch	CLU
Clevis	CLV
Camshaft	CM/SHF
Component	CMP
Compound	CMPD
Compression	CMPR
Compressor	CMPTR
Computer	CMPTR
Commutator	CMTR
Contact	CNCT
Conductor	CNDCT
Condenser	CNDSR
Console	CNSL
Canister	CNSTR
Container	CNTNR
Control	CNTNR
Counter	CNTR
Coaxial	COAX
Coefficient of friction	COEF
Coil	COIL
Column	COL
Collar	COLR
Communication	COM
Combination	COMB
Commercial	COML
Communicate	COMM
Compensator	COMP
Complete	COMPL
Compartment	COMPT
Connector	CONN
Control	CONT
Contamination	CONTAM
Continue	CONTAM
Converter	CONV
Convertible	CONV
Coolant	COOL

DESCRIPTION	ABBREVIATION
Coolant	COOL
Corner	CORN
Cornering	CORN
Corporation	CORP
Cotter	COT
Coupling	CPLG
Capillary	CPLY
Companion	CPN
Capsule	CPSL
Carpet	CPT
Cross	CR
Cruise Control	CRCONT
Crank	CRK
Corrosion	CRSN
Cruise	CRUZ
Customer	CST
Casting	CSTG
Cluster	CSTR
Crankshaft	CT/SHF
Coated	CTD
Cable tension - park brake front	CTF
Coating	CTG
Catch	CTH
Catcher	CTHR
Central	CTL
Cataytic	CTLTC
Carton	CTN
Cable tension - park brake	CTPB
Center	CTR
Cable travel - park brake front	CTRF
Cable travel left rear	CTRLR
Cable tension - park brake right rear	CTRR
Cable travel - park brake right rear	CTRRR
Countershaft	CTSHF
Courtesy	CTSY
Contour	CTUR
Current	CUR
Cushion	CUSH
Curtain	CUT
Constant velocity	CV
Cover	CVR
Counterweight	CWT
Cycle	CYC

Cylinder	CYL
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Continually Increasing Rate	RAMP
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ABBREVIATION LIST

D

DESCRIPTION	ABBREVIATION
Dust Cover	D/CVR
Dual Exhaust	D/EXH
Double offset	D/O
Dust Seal	D/SEAL
Driver Seat	D/SEAT
Dust Shield	D/SHLD
Dimmer Switch	D/SW
Dash	DA
Double	DBL
Decelerate	DCLR
Deadener	DDN
Deceleration	DECL
Defogger	DEFG
Defroster	DEFR
Dehydrator	DEHYDR
Depression	DEPR
Devices	DEV
Deflector	DFL
Diode	DI
Diagonal	DIAG
Diagram	DIAG
Diagnostic	DIAGN
Diaphragm	DIAPH
Differential	DIFF

DESCRIPTION	ABBREVIATION
Dimmer	DIMR
Direct	DIR
Discharge	DISCH
Displacement - front	DISF
Displacement - left front	DISLF
Displacement	DISP
Displacement	DISPL
Dispenser	DISPR
Displacement - left rear	DISR
Displacement Rear	DISR
Displacement Right Front	DISRF
Displacement Right Rear	DISRR
Distance	DIST
Distribution	DISTR
Distributor	DISTR
Divider	DIV
Division	DIV
Delivery	DLVR
Damage	DMG
Dome	DMG
Down	DN
Do Not Shift	DNSFT
Down Shift	DNSHFT
Documentation	DOC

DESCRIPTION	ABBREVIATION
Design of experiment	DOE
Dome	DOME
Dampener	DPNR
Door	DR
Drain	DRN
Drive	DRV
Driven	DRVN
Driver	DRVR
Dryer	DRY
Design	DSGN
Dash	DSH
Diesel	DSL
Détente	DTNT
Deterrent	DTRNT
Dump	DUMP
Diverter	DVTR
Drawing	DWG
Drum Down - Left Rear	TDDLRL
Drum Down - Right Rear	TDDRR
Drum Up - Left Rear	TDULR
Drum Up - Right Rear	TDURR

E

DESCRIPTION	ABBREVIATION
Extrusion	*EXTR
Engine Compartment	E/CMPT
End Gate	E/GATE
Each	EA
Eccentric	ECC
Economic Commission for Europe	ECE
Engine Control Module	ECM
ECM Low voltage potential	ECMLO
ECM input voltage	ECMV
ECU	ECU
European Economic Community	EEC
Early Fuel evaporation	EFE
Exhaust gas recirculation	EGR
Ejector	EJCTR
Ejector	EJT

DESCRIPTION	ABBREVIATION
Elbow	EL
Electronic level control	ELC
Electric	ELEC
Electrically disconnected ABS	ELEC DISC ABS
Electronic	ELEK
Emblem	EMB
Event marker	EMCO
Emergency	EMER
Emission	EMIS
Engine	ENG
Engine	ENG
Engagement	ENGMT
Energy	ENGY
Energizer	ENGZR
Envelope	ENV

DESCRIPTION	ABBREVIATION
End of test	EOT
Exhaust pressure regulator	EPR
Equalizer	EQLZR
Equipped	EQUIP
Engine RPM	ERPM
European Community Commission	ESCC
Escutcheon	ESCUT
Evaporative	EVAP
Evaporator	EVAP
Exchanger	EXCH
Exhaust	EXH
Exhaust	EXH
Expanding	EXPDG
Expansion	EXPN
External	EXT

ABBREVIATION LIST

Extension	EXTN
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Exterior	EXTR
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Eyelet	EYLT
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F

DESCRIPTION	ABBREVIATION
First	1ST
Fourth	4TH
Four Wheel Antilock	4WAL
FIFTH	5TH
Fifth	5th
Front Axle	F/AXL
Front Compartment	F/CMPT
Front of dash	F/D
Front Seat	F/DEAT
Front end	F/END
Front Fender	F/FDR
Front Floor	F/FLR
Fast Idle	F/IDL
Foot Rest	F/RST
Folding Top	F/TOP
Facing	FACT
Factor	FACT
Fender	FDR

DESCRIPTION	ABBREVIATION
Foundation	FDTN
Filament	FILA
Filler	FILA
Finish	FIN
Folding	FLDG
Flexible	FLEX
Flange	FLG
Flammability	FLMBTY
Floor	FLR
Floor Board	FLRBD
Flasher	FLSH
Flasher	FLSHR
Filter	FLTR
Float	FLTR
Flywheel	FLYWHL
Frequency Modulation	FM
Forging	FORG
Frequency	FREQ

DESCRIPTION	ABBREVIATION
Friction	FRICT
Frame	FRM
Frame Unit	FRM/U
From	FROM
Front	FRT
Fastener	FSTN
Front	FT
fitting	FTG
Front View	FV
Forward	FWD
Front wheel Slide	FWS
Fluid - Left Front	TFLF
Fluid - Left Rear	TFLR
Fluid - Right Front	TFRF
Fluid - Right Rear	TFRR

G

DESCRIPTION	ABBREVIATION
Government	*GOVT
Gear	AR
Glass Channel	D/CHAN
Glencove and tollgate	EMSP
Garnish Molding	G/MLDG
Glass Run	G/RUN
Gage	GA
Gauge	GA
Gallery	GAL
Gallon	GAL
Garnish	GARN

DESCRIPTION	ABBREVIATION
Gasket	GASKT
Guide	GDE
Generator	GEN
Glass	GLS
Glaze	GLZ
Ground	GND
Ground	GND
Governor	GOV
Grille	GRL
Grommet	GROM
Group	GRP

DESCRIPTION	ABBREVIATION
Groove	GRV
Grooved	GRVD
Gravel	GRVL
Gold Stripe	GS
General Services Administration	GSA
Gutter	GTR
Gusset	GUSS
Gross Vehicle Weight	GVWR
Gross Vehicle Weight	GVWR

H

DESCRIPTION	ABBREVIATION
High Performance	D/PRF
Head Restraint	D/RST
High Compression	H/C
Hinge Pillar	H/ILR
Heat Shield	H/SHLD
Harmonic	HARM
Harness	HARN

DESCRIPTION	ABBREVIATION
Heat Cycle	HC
Head	HD
Head	HD
Handle	HDL
Headlining	HDLNG
Headlamp	HDLP
Header	HDR

DESCRIPTION	ABBREVIATION
Hardware	HDW
Hinge	HE
Handle Force - Park Brake	HFPB
High	HI
Holder	HLDR
High Line Pressure	HLP
Hanger	HNGR

ABBREVIATION LIST

Hold Down	HOLDN
Hood	HOOD
Horizontal	HORIZ
Hour	HR
Hour	HR
Horn	HRN
Housing	HSG
Heat	HT
Heated	HTD
Heater	HTR
Heavy	HVY
Heavy	HVY
Highway high Performance	HW4
Highway	HWY
Hydraulic	HYD
Hertz	HZ
Hazard	HZD
Hydraulic Line Pressure - Left Front	LBLF
Hydraulic Line Pressure –Booster	LPBI

Input	
Hydraulic Line Pressure –Before Lh	LPBLF
hose	
Hydraulic Line Pressure –Booster	LPBO
output	
Hydraulic Line Pressure –Rear before	LPBR
Hose	
Hydraulic Line Pressure –Before RF	LPBRF
hose	
Hydraulic Line Pressure – Front	LPF
Hydraulic Line Pressure –After	LPFAC
Combo	
Hydraulic Line Pressure –Before ABS	LPFBA
Hydraulic Line Pressure –Before	LPFBC
Combo	
Hydraulic Line Pressure – 4Wal Unit	LPLFA
Hydraulic Line Pressure - Left Rear	LPLR
Hydraulic Line Pressure –Master	LPMC
Cylinder	

Hydraulic Line Pressure –Master	LPMCF
Front	
Hydraulic Line Pressure –Master Rear	LPMER
Hydraulic Line Pressure – Rear	LPR
Hydraulic Line Pressure –Rear 4wal	LPR4P
pump	
Hydraulic Line Pressure –Rear after	LPRAA
ABS	
Hydraulic Line Pressure –Rear after	LPRAC
Comb	
Hydraulic Line Pressure –Rear before	LPRBA
ABS	
Hydraulic Line Pressure –Rear before	LPRBC
Colv	
Hydraulic Line Pressure –Right Front	LPRF
Hydraulic Line Pressure –4wal Combo	LPRF4
Hydraulic Line Pressure –Right Rear	LPRR

I

DESCRIPTION	ABBREVIATION
Idler arm	I/ARM
Instrument Panel	I/P
Inside	I/S
Intermediate Seat	I/SEAT
Input - Current - ABS	IAB
Inhibit	IBIT
Ignition Control Module	ICM
Identification	IDENT
Identify	IDENT
Ignition	IGN
Ignition	IGN
Illuminated	ILLUM
Impact	IMP
Impeller	IMP
Intercooler	INCLR
Indicate	IND
Indicator	IND
Indicator	IND

DESCRIPTION	ABBREVIATION
Inflatable	INFL
Inflator	INFL
Information	INFO
Injection	INJN
Injector	INJR
Inlet	INL
Inner	INR
Insert	INS
Insulator	INSL
Inspection	INSP
Instrument	INST
Instrument	INST
Install	INSTL
Instruction	INSTR
Intake	INT
Internal	INT
Intermediate	INTER
Interlock	INTLK

DESCRIPTION	ABBREVIATION
Interior	INTR
Inverter	INV
Iso Valve Rear Four Wheel Antilock	ISOR
Interface	ITRF
Intermittent	ITRM
Inner Bearing - Left Front	TIBLF
Inner Bearing - Left Rear	TIBLR
Inner Bearing - Right Front	TIBRF
Inner Bearing - Right Rear	TIBRR
Inboard Pad - Left Front	TIPLF
Inboard Pad - Right Front	TIPLF
Inboard Pad - Left Rear	TIPLR
Inboard Pad - Right Rear	TIPRR
Inboard Rotator - Right Front	TIRIF
Inboard Rotor - Left Front	TRILF
Inboard Rotor - Left Rear	TRILR
Inboard Rotor - Right Rear	TRIRR

J

DESCRIPTION	ABBREVIATION
Junction Block	J/BLK
Jack	JK
Jacking	JKG

DESCRIPTION	ABBREVIATION
Jacket	JKT
Jumper	JPR
Jumper	JRP

DESCRIPTION	ABBREVIATION
Jack Shaft	JS
Joint	JT
Junction	JUNC

ABBREVIATION LIST

K

DESCRIPTION	ABBREVIATION
Kick up	K/UP

DESCRIPTION	ABBREVIATION
Knuckle	KNU

L

DESCRIPTION	ABBREVIATION
Lift Gate	*L/GATE
Lock Pillar	L/PLR
Limited Slip	L/SLIP
Lift Window	L/WDO
Laboratory	LAB
Label	LABL
Laminate	LAM
Latch	LAT
Lateral	LATL
Lacing	LCG
Ledge	LDG
Left Front	LF
Left	LFT
Lifter	LFTR
Light	LGT
Longitudinal	LGTDNL
Left Hand	LH
License	LIC

DESCRIPTION	ABBREVIATION
Limit	LIM
Liquid	LIQ
lock	LK
locking	LKG
Lightly Loaded Vehicle Weight	LLVW
Lamp	LMP
Limiting	LMTNG
Lining	LNG
Linkage	LNKG
Liner	LNR
Low	LO
Location	LOC
Lamp	LP
Left Rear	LR
Left Seat	LSEAT
Listing	LSTG
Light	LT
Left Temperature	LTR

DESCRIPTION	ABBREVIATION
Letter	LTR
Left Turn	LTRN
Lubricate	LUB
Luggage	LUGG
Louver	LUV
Level	LVL
Leveling	LVLG
Lever	LVR
Lower	LWR
Lower	LWR
Left Sensor	PULSLS
Left Rear - Pivot	TLRP
Left Rear - Thread	TLRT
Leading Shoe - Left Rear	TLSLR
Leading Show - Right Rear	TLSRR

M

DESCRIPTION	ABBREVIATION
Mile marker	EMMI
Master Cylinder	M/CYL
Malfunction	M/FUNC
Multifunction	M/FUNC
Multiport	M/PORT
Manual transmission	M/TRNS
Magnetic	MAG
Maintenance	MAINT
Manual	MAN
Manifold	MANIF
Manifold Absolute Pressure	MAP
Manifold Absolute Pressure	MAP
Master	MAS
Material	MATL
Material Specification	MATLSPEC
Maximum	MAX

DESCRIPTION	ABBREVIATION
Member	MBR
Machining	MCHG
Module	MDL
Manifold differential pressure	MDP
Medallion	MEDLN
Metal	MET
Mass Flow Booster Input	MFBI
Mass Flow Booster Output	MFBO
Microphone	MIC
Military	MIL
Minimum	MIN
Mirror	MIR
Miscellaneous	MISC
Mixture	MIX
Marker	MKR
Marker	MKR

DESCRIPTION	ABBREVIATION
Molding	MLDG
Moderate	MOD
Modulator	MOD
Moisture	MOIST
Monitor	MON
Monitor	MON
Motor	MOT
Motor	MOT
Moisture	MSTRE
Mount	MT
Mounting	MTG
Meter	MTR
Meter	MTR
Metering	MTRG
Muffler	MUFF

ABBREVIATION LIST

N

DESCRIPTION	ABBREVIATION
Name plate	N/PLT
Name	NA
Needle	NDL
Negative	NEG
Negative	NEG

DESCRIPTION	ABBREVIATION
Neutral	NEU
Neutral	NEVT
Nipple	NIP
Number	NO
No contamination	NOCONTAM

DESCRIPTION	ABBREVIATION
Nozzle	NOZ
Notice	NTC
No wheel slide	NWS

O

DESCRIPTION	ABBREVIATION
Overdrive	O/D
Oil gage	O/GA
Oil pump	O/PMP
Outside	O/S
Odometer	ODOM
Oil	OIL
On/Off road	OOR
Operate	OPER
Opening	OPG
Option	OPT
Orientation	ORIENT

DESCRIPTION	ABBREVIATION
Ornament	ORNA
Overspeed	OSPD
Outlet	OTLT
Overtemp	OTMP
Output	OTP
Outer	OTR
Outrigger	OTRGR
Overflow	OVFL
Oxidation	OXIDN
Oxygen	OXY
Outer Bearing - Left Front	TOBLF

DESCRIPTION	ABBREVIATION
Outer Bearing - Left Rear	TOBLR
Outer Bearing - Right Front	TOBRF
Outer Bearing - Right Rear	TOBRR
Outboard Pad - Left Front	TOPLF
Outboard Pad - Left Front	TOPLR
Outboard Pad - Rear Front	TOPRF
Outboard Pad - Right Rear	TOPRR
Outboard Rotor - Left Rear	TRILR
Outboard Rotor - Right Rear	TRIRR
Outboard Rotor - Left Front	TROLF

P

DESCRIPTION	ABBREVIATION
Park Brake Apply - Foot Lever	BPAF
Power Brake	P/B
Pushbutton	P/BUT
Pinion Gear	P/GR
Power Steering	P/S
Passenger Seat	P/SEAT
Power Window	P/W
Procedure	P[ROC
Public address	PA
Parking	PARK
Pedal acceleration - Service Brake	PASB
Passage	PASS
Passenger	PASS
Pattern	PATT
Park Brake	PB
Park Brake	PB
Park Brake Apply - Hand Lever	PBAH
Park Brake Release Force	PBRF
Park Brake	PBRK
Park Brake - Structload - Left Rear	PBSL
Park Brake - Structload - Right Rear	PBSRR
Peak Count	PC

DESCRIPTION	ABBREVIATION
Peak Count	PC
Powertrain Control Module	PCM
Positive Crankcase Ventilation	PCV
Pedal Effort	PE
Pedal	PED
Pendulum	PENDLM
Performance	PERF
Pedal Force - Park Brake	PFPB
Pedal Force Park brake	PFPB
Pedal Force - Service Brake	PFSB
Pedal Force Service Brake	PFSB
Preheat	PHT
Pillow	PILO
Pitman	PIT
Pivot	PIV
Package	PKG
Packaging	PKG
Pocket	PKT
Plunger	PLGR
Plenum	PLMN
Planetary	PLNT
Pillar	PLR

DESCRIPTION	ABBREVIATION
Plate	PLT
Platform	PLTF
Plumbing	PLUMB
Player	PLYR
Panel	PNL
Point	PNT
Pointer	PNT
Pinch Out	PO
Positive	PO
Positive	POS
Position	POSN
Purple	PPL
Prior to the event	PRE
Predelivery	PREDLVY
Pressure	PRES
Present	PRESS
Pressure	PRESS
Prevent	PREV
Program	PRGM
Primary	PRIM
Proportion	PROBN

ABBREVIATION LIST

Process	PROC
Programmer	PROGMR
Propeller	PROP
Protection	PROTN
Protector	PROTR
Protective	PROTV
Passive	PSIV
Piston	PSTN
Position	PSTN
Prop Shaft Torque	PSTQ
Pedal Travel	PT

Pintle Hook	PTLHK
Power Take-Off	PTO
Pedal Travel - Park Brake	PTPB
Pedal Travel Service Brake	PTSB
Pickup Box	PUBX
Pulley	PUL
Pull-down	PULDN
Pull	PULL
Printed Wiring Board	PWB
Pulse Width Modulation	PWM
Pulse Width Modulation Rear	PWMR

Power	PWR
Power	PWR
Piston Castilation - Left Front	TORS
Piston Castilation - Right Front	TPCLF
Piston Bel Cast & slot - Left Front	TPCRF
Piston Bel Cast & slot - Right Front	TPCSRF
Piston Inner/Closed - Left Front	TPICLF
Piston Inner/Closed - Right Front	TPICRF
Primary Brake Shoe - Left Rear	TPSLR
Primary Brake Shoe - Right Rear	TPSRR

Q

DESCRIPTION	ABBREVIATION
Quarter Panel	Q/PNL

DESCRIPTION	ABBREVIATION
Quarter Window	Q/WDO

R

DESCRIPTION	ABBREVIATION
Right Sensor	PULSRS
Rear	R
Rear Floor	R.FLR
Rear Overhang	R.OH
Rear Quarter	R.Q
Rear Axle	R/AXL
Rear Compartment	R/COMPT
Remote Control	R/CON
Rear Door	R/D
Rear End	R/END
Rear Fender	R/FDR
Ring Gear	R/GR
Reveal Molding	R/MLDG
Roof Rail	R/RL
Rear Seat	R/SEAT
Removable Top	R/TOP
Rear Window	R/WDO
Radio	RAD
Rebound	RBND
Receiving	RCVG
Receiver	RCVR
Recovery	RCVY
Reduction	RDCN
Reducer	RDCR
Reading	RDG
Radiator	RDO
Recliner	RECL
Recirculation	RECRG

DESCRIPTION	ABBREVIATION
Reflector	REFL
Reflectivity	REFLTY
Refrigerant	REFRIG
Regulator	REG
Reinforcement	REINF
Release	REL
Remote	REM
Remote	REMT
Replace	REPL
Requirement	REQT
Resistor	RES
Resume	RES
Resonator	RESO
Reserve	RESV
Retainer	RET
Retractor	RETR
Revere	REV
Reverse	REV
Reversible	REV
Revision	REV
Reverberator	REVBR
Revalidation	REVLDT
Right Front	RF
Roof	RF
Radio Frequency Interference	RFI
Right Hand	RH
Rivet	RIV
Rocker	RKR

DESCRIPTION	ABBREVIATION
Rail	RL
Relief	RLF
Roller	RLR
Relay	RLY
Relay	RLY
Round	RND
Range	RNG
Roof	ROOF
Rotator	ROT
Rotor	ROT
Revolutions Per Minute	RPM
RPM Steering Pump	RPMSP
Repair	RPR
Report	RPRT
Rear	RR
Right Rear	RR
Reset Switch Combo Valve	RSC
Riser	RSR
Reset Switch Rear 4Wal	RSR4
Restraint	RST
Restriction	RSTN
Restrictor	RSTR
Reservoir	RSVR
Right	RT
Return	RTN
Retarder	RTRDR
Right Seat	RTST
Right Turn	RTTRN

ABBREVIATION LIST

Reveal	RVL
Rear Wheel Antilock	RWAL
Rear Wheel Drive	RWD

Rear Wheel Slide	RWS
Roughness Depth	RZ
Right Rear - Pivot	TRRP

Right Rear - Thread	TRRT
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S

DESCRIPTION	ABBREVIATION
Second	2nd
Side Rail	RL
Straight and Smooth	S&S
Shock Absorber	S/ABS
Side Door	S/D
Steering Gear	S/GR
Steering Knuckle	S/KNU
Stop Lamp	S/LP
Side Member	S/MBR
Side Panel	S/PNL
Sunshade	S/S
Sealing Strip	S/STR
Safety	SAF
Scavenging	SCAV
Source	SCE
Scalp	SCP
Screen	SCRN
Sector	SCTR
Sender	SDR
Secondary	SECD
Section	SECT
Selector	SEL
Sensor	SEN
Sensor	SENS
Separator	SEP
Sequential	SEQ
Serial	SER
Service	SERV
Set	SET
Spot Face	SF
Sheet	SH
Shaft	SHF
Shock	SHF
Shift	SHFT
Shifter	SHFT
Shackle	SHKL
Shield	SHLD
Shoulder	SHLDR
Shelf	SHLF
Shipping	SHPG
Shroud	SHRD

DESCRIPTION	ABBREVIATION
Side	SI
Signal	SIG
Signal	SIG
Silencer	SIL
Skirt	SK
Sliding	SLDG
Solder	SLDR
Sleeve	SLEV
Solvent	SLV
Small	SM
Snubber	SNBR
Sound	SND
Sender	SNDR
Snuffer	SNFR
Socket	SOC
Solenoid	SOL
Solenoid	SOL
Start of test	SOT
Spare	SPA
Spare Channel Descriptor	SPARE
Supercharge	SPCHG
Spacer	SPCR
Speed	SPD
Speed	SPD
Spindle	SPDL
Speedometer	SPDO
Specification	SPEC
Specified	SPEC
Speedometer	SPEEDO
Splash	SPH
Spherical	SPHER
Speaker	SPKR
Sprocket	SPKT
Spark Plug	SPLG
Spot Lamp	SPLP
Splitter	SPLTR
Supply	SPLY
Spoiler	SPR
Spring	SPR
Specified Weld	SPWELD
Specified Welds	SPWELD

DESCRIPTION	ABBREVIATION
Steering	SRGER
Sear	ST
Start	ST
Stationary	STA
Stabilizer	STAB
Stator	STAT
Stitching	STCHG
Stiffener	STFNR
Strainer	STNR
Stop	STOP
Storage	STOR
Stowage	STOW
Staple	STPL
Starter	STR
Strip	STR
Stringer	STRGER
Striker	STRK
Strap	STRPE
Stripe	STRPE
Starter	STRTR
Suction	SUC
Supplement	SUP
Suppressor	SUPPR
Support	SUPT
Surface	SURF
Suspension	SUSP
Side View	SV
Switch	SW
Switch	SW
Steering Wheel Angle	SWA
Steering Wheel Front	SWE
Swivel	SWIV
Synchronizer	SYN
System	SYS
Sensor Conduit Inside - Left Front	TSCILF
Sensor Conduit Inside - Right Front	TSCIRF
Sensor Conduit Outside - Right Front	TSCORF
Sensor Face - Left Front	TSFLF
Sensor Face - Right Front	TSFRF
Sensor Head Center - Left Front	TSHCLF
Sensor Head Center - Right Front	TSHCRF

ABBREVIATION LIST

Sensor Left Side - Left Front	TSLSLF
Sensor Left Side - Right Front	TSLSRF
Sensor Conduit Outside - Left Front	TSOLF
Sensor Pulse - Left	TSPL
Sensor Pulse - Rear	TSPR
Sensor Right Side - Left Front	TSRSLF
Sensor Right Side - Right Front	TSRSRF
Sensor Inside Bearing - Left Rear	TSSBLF
Sensor Inside Bearing - Right Front	TSSBRF

Shield Surface Inside - Left Front	TSSILF
Wire	
Shield Surface Inside - Right Front	TSSIRFD
Wire	
Sensor Shield Lower	TSSL
Secondary Brake Shoe - Left Rear	TSSLR
SHD Surface Outside - Left Front	TSSOLF
Rotor	
SHD Surface Outside - Right Front	TSSORF

Rotor	
Secondary Brake Show - Right Rear	TSSRR
Sensor Shield Upper	TSSU
Sensor Top Front - Left Front	TSTLF
Sensor Top Front - Right Front	TSTRF
Shield at Clip - Left Front	TSWACLF
Shield at Clip - Right Front	TSWACRF
Stopping distance - 5th wheel	VDFW

T

DESCRIPTION	ABBREVIATION
Third	3rd
Three Way	3WAY
Tilt and Telescope	T&T
Terminal Block	T/BLK
Torque Converter	T/CV
Temperature Gage	T/GA
Tail Lamp	T/LP
Tape Player	T/PLYR
Trim Panel	T/PNL
Turn Signal	T/SIG
Throttle Valve	T/V
Tachometer	TACH
Tachometer	TACH
Tappet	TAP
Tapping	TAP
Tarpaulin	TARP
Throttle Body Fuel Injection	TBI
Transfer Case	TCASE
Torque Converter Clutch	TCC
Transmission Control Module	TCM
Telephone	TEL
Temperature	TEMP
Temporary	TEMP

DESCRIPTION	ABBREVIATION
Template	TEMPL
Tension	TENS
Tensioner	TENSR
Terminal	TERM
Thread	THD
Thermostat	THERM
Thinner	THNR
Thrust	THR
Throttle	THROT
Tank	TK
Tubeless	TL
Telescope	TLSCP
Timing	TMG
Temperature	TMP
Torque	TORQ
Torsion	TORQ
Throttle Position Sensor	TPS
Trim	TR
Traction	TRACT
Transmission	TRANS
Transmission	TRANS
Transfer	TRFER
Track	TRK

DESCRIPTION	ABBREVIATION
Trailer	TRLR
Trailer	TRLR
Turn	TRN
Throttle	TRTL
Trunnion	TRUN
Time Speed Distance	TSD
Test	TST
Tube Type	TT
Trailing Shoe - Left Rear	TTSLR
Trailing Shoe - Right Rear	TTSRR
Tumbler	TUMB
Tunnel	TUN
Turbine	TURB
Turbocharger	TURBO
Tower	TWR
Thermal Expansion Valve	TXV
Transceiver	XCVR
Transducer	XDCR
Transformer	XFMR
Transmitter	XMTR

U

DESCRIPTION	ABBREVIATION
Unit	U
Underhood	U/HOOD
Underbody	U/N
Underseat	U/SEAT

DESCRIPTION	ABBREVIATION
Under Vehicle	U/V
Universal Joint	UJT
Under	UND
Upper	UP

DESCRIPTION	ABBREVIATION
Upper	UPR
Upshift	UPSHFT

ABBREVIATION LIST

V

DESCRIPTION	ABBREVIATION
Vacuum	VAC
Vacuum Booster	VAVB
Vacuum Engine	VACE
Valance	VAL
Valve	VLV
Valve	VLV
Valve Cover	V/CVR
Vanity	VAN

DESCRIPTION	ABBREVIATION
Vapor	VPR
Variable	VAR
Vehicle	VEH
Vehicle Control Module	*VCM
Vehicle description Number	VDN
Vehicle Identification Number	VIN
Vehicle Speed - 5th Wheel	VSFW
Vehicle Speed - Transmission	VSTR

DESCRIPTION	ABBREVIATION
Vehicle Test Specifications	VTs
Velocity	V
Vertical	VERT
Vibrate	VIB
Volt	V
Volt	VOLT

W

DESCRIPTION	ABBREVIATION
Watt	W
With	W/
Wheelhouse	W/H
Windlace	W/LACE
Without	W/P
Water Pump	W/PMP
Windshield	W/S
Weather-strip	W/STR
Warm Up	W/UP
Washer	WA
Warranty	WARR
Water	WAT
Wheelbase	WB
Window	WDO
Webbing	WEBG
Wheel Torque - Left Rear	WFLR

DESCRIPTION	ABBREVIATION
Wedge	WGE
Wheel	WHL
White Letter	WL
Welding	WLDG
Worm Gear	WMGR
Wide Open Throttle	WOT
Wiper	WPR
Wiper	WPR
Wiring	WRG
Wheel Revolutions - Left Front	WRLF
Wheel Revolutions - Left Rear	WRLR
Warning	WRN
Warning	WRNG
Wheel Revolutions - Right Front	WRRF
Wheel Revolutions - Right Rear	WRRR
Wheel Slide	WS

DESCRIPTION	ABBREVIATION
White Stripe	WS
Washer	WSHR
Wheel Speed - Left Front	WSLF
Wheel Speed - Left Rear	WSLR
Wheel Speed - Right Front	WSRF
Wheel Speed - Right Rear	WSRR
Windshield Wiper	WSW
Windshield Washer	WSWA
Weight	WT
Wheel Torque - Left Front	WTLF
Wheel Torque - Right Front	WTRF
Wheel Torque - Rear Right	WTRR
Wheel Well	WWL
Weather	WX

XYZ

DESCRIPTION	ABBREVIATION
Zipper	ZPR

DESCRIPTION	ABBREVIATION
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DESCRIPTION	ABBREVIATION
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COLOR ABBREVIATIONS

COLOR	ABBREVIATION
BLUE	BE
BLACK	BK
BROWN	BN
DARK GREEN	DkGN
GREEN	GN
GRAY	GY

COLOR	ABBREVIATION
LIGHT BLUE	LtBE
LIGHT GREEN	LtGN
ORANGE	OE
PURPLE	PE
PINK	PK
RED	RD

COLOR	ABBREVIATION
TAN	TN
WHITE	WE
YELLOW	YW

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
GRID HEATER 1 POWER	EN001	EN	001	RED	-	EN001 GRID HTR 1 PWR
GRID HEATER 1 FEED	EN002	EN	002	ORANGE	-	EN002 GRD HTR 1 FEED
GRID HEATER 1 SIGNAL	EN003	EN	003	PINK	-	EN003 GRID HTR 1 SIG
GRID HEATER 2 POWER	EN004	EN	004	RED	-	EN004 GRID HTR 2 PWR
GRID HEATER 2 FEED	EN005	EN	005	ORANGE	-	EN005 GRD HTR 2 FEED
GRID HEATER 2 SIGNAL	EN006	EN	006	PINK	-	EN006 GRID HTR 2 SIG
F/PUMP FEED	EN007	EN	007	RED	-	EN007 F/PUMP FEED
F/PUMP RELAY POWER	EN008	EN	008	RED	-	EN008 F/PUMP RLY PWR
F/PUMP GROUND	EN009	EN	009	BLACK	-	EN009 F/PUMP GND
F/PUMP POWER	EN010	EN	010	RED	-	EN010 F/PUMP PWR
BRAKE SWITCH SIGNAL	EN011	EN	011	GRAY	-	EN011 BRAKE SW SIG
CLUTCH SWITCH SIGNAL	EN012	EN	012	GRAY	-	EN012 CLUTCH SW SIG
DIAGNOSTIC ON/OFF	EN013	EN	013	GRAY	-	EN013 DIAGN ON/OFF
ENGINE BRAKE ON/OFF	EN014	EN	014	GRAY	-	EN014 ENG BRK ON/OFF
ENGINE BRAKE ENABLE	EN015	EN	015	PINK	-	EN015 ENG BRK ENABLE
ENGINE FLUIDS SIGNAL	EN016	EN	016	GRAY	-	EN016 ENG FLUIDS SIG
ENGINE STOP SIGNAL	EN017	EN	017	GRAY	-	EN017 ENG STOP SIG
FAN CLUTCH	EN018	EN	018	PINK	-	EN018 FAN CLUTCH
FUEL SHUTOFF	EN019	EN	019	GRAY	-	EN019 FUEL SHUTOFF
OFF IDLE SIGNAL	EN020	EN	020	GRAY	-	EN020 OFF IDLE SIG
IDLE SIGNAL	EN021	EN	021	GRAY	-	EN021 IDLE SIG
IDLE DECREMENT SIGNAL	EN022	EN	022	GRAY	-	EN022 IDLE DECR SIG
IDLE INCREMENT SIGNAL	EN023	EN	023	GRAY	-	EN023 IDLE INCR SIG
THROTTLE INTERLOCK	EN024	EN	024	GRAY	-	EN024 THROT INTERLOC
COOL LEVEL RTN	EN025	EN	025	PURPLE	-	EN025 COOL LVL RTN
COOL LEVEL POSITIVE	EN026	EN	026	PINK	-	EN026 COOL LVL POS
COOL LEVEL SPLY	EN027	EN	027	PURPLE	-	EN027 COOL LVL SPLY
COOL LEVEL NEGATIVE	EN028	EN	028	GRAY	-	EN028 COOL LVL NEG
FAN CLUTCH IN	EN029	EN	029	GRAY	-	EN029 FAN CLUTCH IN
A/C PRESS SIGNAL	EN030	EN	030	GRAY	-	EN030 A/C PRESS SIG
REMOTE PTO ON/OFF	EN031	EN	031	GRAY	-	EN031 REM PTO ON/OFF
REMOTE THROTTLE SIGNAL	EN032	EN	032	GRAY	-	EN032 REMT THROT SIG
REMOTE THROTTLE 5V	EN033	EN	033	PINK	-	EN033 REMT THROT 5V
THROTTLE SENSOR SUPPLY 5V	EN033/EN916	EN	033/916	PINK		EN033/EN916 THR SPLY
TPS 5V	EN034	EN	034	PINK	-	EN034 TPS 5V
WIF SENSOR	EN035	EN	035	GRAY	-	EN035 WIF SENSOR
REMOTE THROTTLE/WIF	EN036	EN	036	PURPLE	-	EN036 REM THROT/WIF
THROTTLE SENSOR RETURN (SHARED)	EN036/EN952	EN	036/952	GRAY		EN036/EN952 THR RET
WAIT TO START LIGHT	EN037	EN	037	GRAY	-	EN037 WT TO ST LT
WIF LIGHT	EN038	EN	038	GRAY	-	EN038 WIF LIGHT

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
ANALOG TORQUE	EN039	EN	039	PURPLE	-	EN039 ANALOG TORQUE
ECM COM SWITCH RET	EN040	EN	040	WHITE	-	EN040 ECM COM SW RET
AMBIENT AIR TEMP	EN041	EN	041	PINK	-	EN041 ABM AIR SIG
AMBIENT AIR TEMP RETURN	EN042	EN	042	TAN	-	EN042 ABM AIR RET
FAN SIGNAL RETURN	EN043	EN	043	GRAY	-	EN043 FAN SIG RET
ALTERNATE RETURN	EN044	EN	044	GRAY	-	EN044 ALTERNATE RET
DASHBOARD RETURN 1	EN045	EN	045	BLACK	-	EN045 DASH RET 1
DASHBOARD RETURN 2	EN046	EN	046	GRAY	-	EN046 DASH RET 2
ENGINE BRAKE RELAY POWER	EN047	EN	047	PINK		EN047 ENG BRK RLY
ENGINE BRAKE RELAY RETURN	EN048	EN	048	GRAY		EN048 ENG BRK RET
CAB GOVERNOR SWITCH	EN049	EN	049	GRAY		EN049 CAB GOV SW
OIL LEVEL POWER	EN050	EN	050	RED		EN050 OIL LVL PWR
OIL LIGHT POWER	EN051	EN	051	PINK		EN051 OIL LIGHT PWR
OIL LIGHT SIGNAL	EN052	EN	052	BLUE		EN052 OIL LIGHT SIG
OIL TEST SIGNAL	EN053	EN	53	GRAY		EN053 OIL TEST SIG
ENGINE OIL TEMPERATURE	EN054	EN	054	GRAY		EN054 OIL TEMP
COOLANT LEVEL	EN115	EN	115	PINK	-	EN115 COOLANT LEVEL
BATTERY (-)	EN150	EN	150	WHITE	-	EN150 BATT NEG
BATTERY (-)	EN151	EN	151	WHITE	-	EN151 BATT NEG
BATTERY (+)	EN240	EN	240	RED	-	EN240 BATT POS
BATTERY (+)	EN241	EN	241	RED	-	EN241 BATT POS
THROTTLE PEDAL	EN417	EN	417	PINK	-	EN417 THROT PEDAL
CHECK ENGINE LIGHT	EN419	EN	419	PINK	-	EN419 CHECK ENG LT
FIRE PUMP DISCHARGE PRESSURE SENSOR +5V	EN420	EN	420	PINK		EN420 DCHARGE +5V
FIRE PUMP DISCHARGE PRESSURE SENSOR GND	EN421	EN	421	BLACK		EN421 DCHARGE GND
FIRE PUMP DISCHARGE PRESSURE SENSOR SIGNAL	EN422	EN	422	GREY		EN422 DCHARGE SIG
FIRE PUMP INTAKE PRESSURE SENSOR +5V	EN423	EN	423	PINK		EN423 INTAKE +5V
FIRE PUMP INTAKE PRESSURE SENSOR GND	EN424	EN	424	BLACK		EN424 INTAKE GND
FIRE PUMP INTAKE PRESSURE SENSOR SIGNAL	EN425	EN	425	GREY		EN425 INTAKE SIG
IGNITION POWER	EN439	EN	439	RED***	-	EN439 INGITION
BATTERY (+)	EN440	EN	440	RED	-	EN440 BATT POS
DIAGNOSTIC REQUEST	EN451	EN	451	PINK	-	EN451 DIAGN REQUEST
COOLANT TEMPERATURE LIGHT	EN499	EN	499	PINK	-	EN499 COOL TEMP LT
TACHOMETER SIGNAL	EN505	EN	505	PINK	-	EN505 TACHOMETER
STOP ENGINE LIGHT	EN509	EN	509	PINK	-	EN509 STOP ENG LT
VAR SPEED THROTTLE	EN510	EN	510	PINK	-	EN510 VAR SPEED THRT
PSG MODE	EN523	EN	523	PINK	-	EN523 PSG MODE
PARK BRAKE INTERLOCK	EN524	EN	524	PINK	-	EN524 PARK BRK INTLK
REMOTE THROTTLE	EN525	EN	525	PINK	-	EN525 REMOTE THROT
ALTERNATOR VSG F/IDLE	EN531	EN	531	PINK	-	EN531 ALT VSG F/IDLE

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
SET/COAST	EN541	EN	541	PINK	-	EN541 SET/COAST
THROTTLE INHIBIT	EN542	EN	542	PINK	-	EN542 THROT INHIBIT
SERVICE BRAKE	EN543	EN	543	PINK	-	EN543 SERVICE BRAKE
CRUISE ENABLE	EN544	EN	544	PINK	-	EN544 CRUISE ENABLE
CRUISE RES/ACC	EN545	EN	545	PINK	-	EN545 CRUISE RES/ACC
ENGINE OIL TEMP LIGHT	EN555	EN	555	PINK	-	EN555 ENG OIL TMP LT
VSS POSITIVE	EN556	EN	556	PINK	-	EN556 VSS POS
VSS NEGATIVE	EN557	EN	557	GRAY	-	EN557 VSS NEG
OIL PRESSURE LIGHT	EN563	EN	563	PINK	-	EN563 OIL PRESS LT
STARTER LOCKOUT	EN564	EN	564	PINK	-	EN564 START LOCKOUT
CRUISE ACTIVE LIGHT	EN565	EN	565	PINK	-	EN565 CRUISE ACTV LT
ENGINE BRAKE MED	EN583	EN	583	PINK	-	EN583 ENG BRAKE MED
FAN POWER	EN908	EN	908	PINK	-	EN908 FAN POWER
THROTTLE SENSOR SPLY	EN916	EN	916	PINK	-	EN916 THRT SENS SPLY
THROTTLE SENSOR GROUND	EN952	EN	952	GRAY	-	EN952 THROT SENS GND
BATTERY NEGATIVE	EN953	EN	953	WHITE	-	EN953 BATT NEG
ENGINE BRAKE LOW	EN979	EN	979	GRAY	-	EN979 ENG BRAKE LOW
LOW COOLANT	EN988	EN	988	PINK	-	EN988 LOW COOLANT
RELAY TO HEAT 1	EN990	EN	990	PINK	-	EN990 RLY TO HEAT 1
RELAY TO HEAT 2	EN991	EN	991	PINK	-	EN991 RLY TO HEAT 2
TYPE 1 GROUND	LC101	LC	101	BLACK		LC101 TYPE 1 GROUND
IGN ACTIVE POWER	LC102	LC	102	YELLOW		LC102 IGN ACTIVE POWER
BATTERY DIRECT	LC103	LC	103	RED		LC103 BATTERY DIRECT
IGN ACTIVE	LC104	LC	104	RED		LC104 IGN ACTIVE
TYPE 1	LC105	LC	105	BLACK		LC105 TYPE 1
EXHAUST BRAKE ENABLE	LC107	LC	107	ORANGE		LC107 EXHAUST BRAKE ENABLE
PLUG	LC108	LC	108			LC108 PLUG
PLUG	LC109	LC	109			LC109 PLUG
SEC. SHIFT SCHEDULE	LC110	LC	110	YELLOW		LC110 SEC. SHIFT SCHDULE
AUX. RANGE INHIBIT	LC111	LC	111	GREEN		LC111 AUX. RANGE INHIBIT
RETARDER ENABLE	LC112	LC	112	BLUE		LC112 RETARDER ENABLE
ABS	LC113	LC	113	PINK		LC113 ABS
SERVICE BRAKE STATUS	LC114	LC	114	ORANGE		LC114 SERVICE BRAKE STATUS
PLUG	LC115	LC	115			LC115 PLUG
PLUG	LC116	LC	116			LC116 PLUG
PLUG	LC117	LC	117			LC117 PLUG
PLUG	LC118	LC	118			LC118 PLUG
PLUG	LC119	LC	119			LC119 PLUG
EXHAUST BRAKE OUTPUT	LC120	LC	120	ORANGE		LC120 EXHAUST BRAKE OUTPUT
RANGE INDICATOR	LC121	LC	121	WHITE		LC121 RANGE IDICATOR

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
OUTPUT SPEED INDICATOR	LC122	LC	122	BLUE		LC122 OUTPUT SPEED INDICTR
RANGE INHIBIT	LC123	LC	123	PINK		LC123 RANGE INHIBIT
RETARDER INDICATOR	LC124	LC	124	WHITE		LC124 RETARDER INDICATOR
CHECK TRANS	LC125	LC	125	GREEN		LC125 CHECK TRANS
SPEEDO	LC126	LC	126	TAN		LC126 SPEEDO
SIGNAL RETURN	LC128	LC	128	YELLOW		LC128 SIGNAL RETURN
J1939+	LC129	LC	129	RED		LC129 J1939+
PLUG	LC130	LC	130			LC130 PLUG
SHIELD	LC131	LC	131	GREEN		LC131 SHIELD
J1939-	LC132	LC	132	BLACK		LC132 J1939-
PRESSURE SWITCH C	LC201	LC	201	BLUE		LC201 PRESSURE SWITCH C
PRESSURE SWITCH D	LC202	LC	202	PINK		LC202 PRESSURE SWITCH D
PRESSURE SWITCH E	LC203	LC	203	WHITE		LC203 PRESSURE SWITCH E
PRESSURE SWITCH R	LC204	LC	204	GREEN		LC204 PRESSURE SWITCH R
NSBU SWITCH A	LC205	LC	205	BLUE		LC205 NSBU SWITCH A
NSBU SWITCH B	LC206	LC	206	YELLOW		LC206 NSBU SWITCH B
NSBU SWITCH C	LC207	LC	207	GRAY		LC207 NSBU SWITCH C
NSBU SWITCH P	LC208	LC	208	WHITE		LC208 NSBU SWITCH P
SUMPTEMP	LC210	LC	210	TAN		LC210 SUMPTEMP
TURBINE SPEED HI	LC213	LC	213	ORANGE		LC213 TURBINE SPEED HI
TURBINE SPEED LO	LC214	LC	214	BLUE		LC214 TURBINE SPEED LO
OUTPUT SPEED HI	LC215	LC	215	ORANGE		LC215 OUTPUT SPEED HI
OUTPUT SPEED LO	LC216	LC	216	BLUE		LC216 OUTPUT SPEED LO
ENGINE SPEED HI	LC217	LC	217	YELLOW		LC217 ENGINE SPEED HI
ENGINE SPEED LO	LC218	LC	218	ORANGE		LC218 ENGINE SPEED LO
COMMON RETURN	LC220	LC	220	GREEN		LC220 COMMON RETURN
TRANS ID	LC221	LC	221	YELLOW		LC221 TRANS ID
SOL A RETURN	LC222	LC	222	YELLOW		LC222 SOL A RETURN
SOL A	LC223	LC	223	WHITE		LC223 SOL A
SOL B	LC224	LC	224	PINK		LC224 SOL B
SOL B RETURN	LC225	LC	225	ORANGE		LC225 SOL B RETURN
SOL C ON/OFF	LC226	LC	226	GREEN		LC226 SOL C ON/OFF
SOL D ON/OFF	LC227	LC	227	BLUE		LC227 SOL D ON/OFF
SOL E ON/OFF	LC228	LC	228	GRAY		LC228 SOL E ON/OFF
SOL F LOCKUP	LC229	LC	229	WHITE		LC229 SOL F LOCKUP
SOL C,D, E RETURN	LC231	LC	231	TAN		LC231 SOL C, D, E RETURN
SOL F RETURN	LC232	LC	232	GREEN		LC232 SOL F RETURN
POWER VENT POWER	PS532	SP	532	RED		SP532 PWR VENT PWR
MARKER LIGHT SIGNAL	SP001	SP	001	PINK	-	SP001 HDLP SW TO MKR
ABS ECU POWER	SP002	SP	002	RED	-	SP002 ABS BATT PWR

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
ABS DASH LIGHT GROUND	SP003	SP	003	BLACK	-	SP003 ABS LIGHT GND
IGNITION TO ABS ECU	SP004	SP	004	RED	-	SP004 IGN TO ABS ECU
ABS ECU TO ABS RELAY COIL FOR TRANSMISSION	SP005	SP	005	PINK	-	SP005 ABS RELAY
GROUND TYPE 4	SP006	SP	006	BLACK	-	SP006 GROUND TYPE 4
AC CLUTCH SWITCHED POWER	SP007	SP	007	RED	-	SP007 AC CLT SW PWR
MARKER LIGHT POWER FRONT	SP008	SP	008	RED	-	SP008 MRKR LT PWR FT
DASH LAMP POWER FROM SWITCH	SP009	SP	009	RED	-	SP009 DSH LP PWR
AIR DRYER POWER	SP011	SP	011	RED	-	SP011 AIR DRYER PWR
BATTERY SENSE TO ALTERNATOR	SP012	SP	012	RED	-	SP012 BATT SENSE
IGNITION ACTIVE TO ALTERNATOR	SP013	SP	013	PINK	-	SP013 IGN ACT TO ALT
BACK UP LIGHT POWER	SP014	SP	014	RED	-	SP014 B/UP LIGHT PWR
BACK UP LIGHT ACTIVE	SP015	SP	015	PINK	-	SP015 B/UP LT ACTIVE
OIL PRESSURE SWITCH SIGNAL (-)	SP016	SP	016	GRAY	-	SP016 OIL PRS SW NEG
COOLANT TEMP SWITCH SIGNAL (-)	SP017	SP	017	GRAY	-	SP017 COL TMP SW NEG
LOW AIR SWITCH 1 SIGNAL (-)	SP018	SP	018	GRAY	-	SP018 LO AIR SW1 NEG
LOW COOLANT LIGHT TO ALARM (-)	SP019	SP	019	GRAY	-	SP019 LOW COL LT NEG
INSTRUMENT POWER	SP020	SP	020	RED	-	SP020 INSTRUMENT PWR
LOW COOLANT SENDER TO ALARM	SP021	SP	021	GRAY	-	SP021 LO COOL SNDR
IGNITION START GROUND TO ALARM LAMP TEST	SP022	SP	022	GRAY	-	SP022 IGN START GND
COOLANT TEMP SENDER TO GAUGE	SP023	SP	023	TAN	-	SP023 COOL TEMP SNDR
STOP PRESSURE SWITCH 1 SIGNAL	SP024	SP	024	PINK	-	SP024 STP PRS SW1
STOP CIRCUIT FRONT POWER	SP025	SP	025	RED	-	SP025 STP CIR FT PWR
NEUTRAL SIGNAL	SP026	SP	026	GRAY	-	SP026 NEUTRAL SIGNAL
CRUISE CONTROL JUMPER	SP027	SP	027	PURPLE	-	SP027 CRCONT JUMPER
CRUISE CONTROL TO SET SWITCH	SP028	SP	028	GRAY	-	SP028 CRCONT SET SW
CRUISE CONTROL SET TO DASH	SP029	SP	029	GRAY	-	SP029 CRCONT SET DSH
CRUISE CONTROL RESUME TO DASH CONTROL	SP030	SP	030	GRAY	-	SP030 CRCONT RESUME
CRUISE CONTROL ACTIVE TO DASH LIGHT	SP031	SP	031	PINK	-	SP031 CRUZ ACTIVE
CRUISE CONTROL MOTOR (-)	SP032	SP	032	GRAY	-	SP032 CRUZ MTR NEG
CRUISE CONTROL MOTOR (+)	SP033	SP	033	PINK	-	SP033 CRUZ MTR POS
CRUISE CONTROL CLUTCH (-)	SP034	SP	034	GRAY	-	SP034 CRUZ CLT NEG
CRUISE CONTROL CLUTCH (+)	SP035	SP	035	PINK	-	SP035 CRUZ CLT POS
CRUISE CONTROL POWER TO SWITCH	SP036	SP	036	RED	-	SP036 CRUZ POWER
CRUISE CONTROL POWER TO CRUISE CONTROL ECU	SP037	SP	037	RED	-	SP037 CRUZ PWR - ECU
EXHAUST BRAKE FEED	SP038	SP	038	PINK	-	SP038 EXH BRK ACTIVE
EXHAUST BRAKE POWER	SP039	SP	039	RED	-	SP039 ENG BRK POWER
FUEL SENDER SIGNAL	SP040	SP	040	TAN	-	SP040 FUEL SNDR SIG
HAZARD, TURN, AND SIGNAL POWER	SP041	SP	041	RED	-	SP041 HZD/TRNSIG PWR
FLASHER OUTPUT	SP042	SP	042	RED	-	SP042 FLASHER OUTPUT
CORNER LIGHT POWER	SP043	SP	043	RED	-	SP043 CORNER LT PWR

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
LEFT TURN ON FROM SWITCH	SP044	SP	044	YELLOW	-	SP044 LEFT TURN SIG
RIGHT TURN ON FROM SWITCH	SP045	SP	045	Dk. GREEN	-	SP045 RIGHT TURN SIG
TURN HAZARD POWER REAR	SP046	SP	046	RED	-	SP046 REAR TURN PWR
RIGHT TURN REAR	SP047	SP	047	Dk. GREEN	-	SP047 RIGHT TRN REAR
LEFT TURN REAR	SP048	SP	048	YELLOW	-	SP048 LEFT TURN REAR
HORN POWER	SP049	SP	049	RED	-	SP049 HORN POWER
HORN RELAY TO HORNS	SP050	SP	050	PINK	-	SP050 HRN RLY TO HRN
HORN BUTTON TO HORN RELAY	SP051	SP	051	GRAY	-	SP051 HORN BUTTON
HOURLY METER SENDER TO HOURLY METER	SP052	SP	052	GRAY	-	SP052 HOURMETER SNDR
BATTERY TO IGNITION SWITCH	SP053	SP	053	RED	-	SP053 BATTPOS/IGN SW
IGNITION SWITCH TO ACC RELAY COIL	SP054	SP	054	PINK	-	SP054 IGN SW/ACC RLY
IGNITION SWITCH IGNITION ACTIVE	SP055	SP	055	PINK	-	SP055 IGN SW IGN ACT
IGNITION START TO NEUTRAL SAFETY COIL	SP056	SP	056	PINK	-	SP056 START SIGNAL
START FROM NEUTRAL SAFETY TO START RELAY	SP057	SP	057	PINK	-	SP057 START RELAY
HEAD LAMP POWER TO SWITCH	SP058	SP	058	RED	-	SP058 HDLMP PWR
HEAD LAMP POWER TO HIGH LOW SWITCH	SP059	SP	059	RED	-	SP059 HIGH LOW SW
HEAD LAMP LOW BEAM POWER	SP060	SP	060	RED	-	SP060 HDLP LO BM PWR
HEAD LAMP HIGH BEAM POWER	SP061	SP	061	RED	-	SP061 HDLP HI BM PWR
DOVE LIGHT SWITCHED GROUND	SP062	SP	062	BLACK	-	SP062 DOVE LT SW GND
MARKER LIGHT RELAY SWITCHED POWER	SP063	SP	063	RED	-	SP063 MARKER LIGHTS
REAR MARKER LIGHT POWER	SP064	SP	064	BROWN	-	SP064 R MRKR LT PWR
REAR MARKER RELAY TO REAR MARKER LIGHTS	SP065	SP	065	BROWN	-	SP065 REAR MRKR RLY
MOISTURE EJECTOR POWER	SP066	SP	066	RED	-	SP066 MOIST EJCT PWR
OIL PRESSURE SENDER TO GAUGE	SP067	SP	067	TAN	-	SP067 OIL PRESS SNDR
PARK BRAKE SET TO LIGHT	SP068	SP	068	GRAY	-	SP068 PARK BRK LIGHT
PREHEAT CONTROL POWER	SP069	SP	069	RED	-	SP069 PREHT CONT PWR
PREHEAT START SIGNAL	SP070	SP	070	GRAY	-	SP070 PRHT START SIG
CRUISE CONTROL GROUND	SP071	SP	071	BLACK	-	SP071 CRUZ GROUND
FRONT ECU GROUND ABS	SP071	SP	071	BLACK	-	SP071 FT ECU GND ABS
POWER FROM START (+) TO START RELAY	SP072	SP	072	RED	-	SP072 START RELAY
START RELAY TO STARTER SOLENOID	SP073	SP	073	RED	-	SP073 STARTER SOL
STARTER SOLENOID SWITCHED TO FUEL PULL IN COIL	SP074	SP	074	RED	-	SP074 STRT TO FL SOL
STOP LIGHT POWER	SP075	SP	075	RED	-	SP075 STOP LIGHT PWR
STOP LIGHT FROM RELAY TO LIGHTS	SP076	SP	076	RED	-	SP076 STP LT-RLY/LT
TACHOMETER SIGNAL (+) TO GAUGE	SP077	SP	077	PINK	twp05	SP077 TACH GAUGE POS
TACHOMETER SIGNAL (-) TO GAUGE	SP078	SP	078	GRAY	twp05	SP078 TACH GAUGE NEG
TRANSMISSION TEMP SIGNAL	SP079	SP	079	TAN	-	SP079 TRANS TEMP SIG
LEVEL JACKS FLOAT SWITCH	SP080	SP	080	BROWN	-	SP080 LVL JK FLT SW
LEVEL JACKS MOTOR SOLENOID	SP081	SP	081	Lt. BLUE	-	SP081 LVL JK MTR SOL
LEVEL JACKS DUMP VALVE	SP082	SP	082	Dk. GREEN	-	SP082 LVL JK DMP VLV

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
LEVEL JACKS LEFT	SP083	SP	083	YELLOW	-	SP083 LVL JK LEFT
LEVEL JACKS RIGHT	SP084	SP	084	ORANGE	-	SP084 LVL JK RIGHT
LEVEL JACKS FRONT	SP085	SP	085	PURPLE	-	SP085 LVL JK FRONT
FUSE TO LEVEL CONTROLLER	SP086	SP	086	RED	-	SP086 LEVEL CONT PWR
LEVEL CONTROLLER TO LEVEL CONTROL (-)	SP087	SP	087	GRAY	-	SP087 LEVEL CONT NEG
LEVEL CONTROLLER TO LEVEL CONTROL (+)	SP088	SP	088	PINK	-	SP088 LEVEL CONT POS
LEVEL CONTROL TO LEVEL WARNING LIGHT	SP089	SP	089	GRAY	-	SP089 LEVEL WARN LT
FUSE TO TOW VEHICLE	SP090	SP	090	RED	-	SP090 TOW VEH POWER
DASH SWITCH TO REAR HOOD LIGHT	SP091	SP	091	PINK	-	SP091 HOOD LIGHTS
POWER SEAT LEFT	SP092	SP	092	RED	-	SP092 DRIVER ST PWR
POWER SEAT RIGHT	SP093	SP	093	RED	-	SP093 CAPT SEAT PWR
WIPER POWER	SP094	SP	094	RED	-	SP094 WIPER POWER
WIPER LOW	SP095	SP	095	PURPLE	-	SP095 WIPER LOW
WIPER HIGH	SP096	SP	096	GRAY	-	SP096 WIPER HIGH
WIPER INTERMITTENT	SP097	SP	097	TAN	-	SP097 WIPER INTRM
WASHER	SP098	SP	098	RED	-	SP098 WASHER
HOOD LIGHT POWER	SP099	SP	099	RED	-	SP099 HOOD LIGHT PWR
FRONT RELAY TO MARKER FLASH SWITCH	SP100	SP	100	GRAY	-	SP100 MRKR FLASH SW
TURN SIGNAL GROUND	SP101	SP	101	WHITE	-	SP101 TURN SIGNAL
DRLM RELAY TO DAYTIME LIGHT MODULE	SP102	SP	102	BLACK	-	SP102 DAYTIME LT PWR
CIGAR LIGHTER POWER	SP103	SP	103	RED	-	SP103 CIGAR LTR PWR
SPOTLIGHT POWER	SP104	SP	104	RED	-	SP104 SPOTLIGHT PWR
BLOWER MOTOR POWER	SP105	SP	105	RED	-	SP105 BLWR MTR PWR
CONDENSER FAN POWER	SP106	SP	106	RED	-	SP106 CNDSR FAN PWR
FOG LAMP POWER	SP107	SP	107	RED	-	SP107 FOG LMP PWR
FOG LAMP SWITCH TO FOG LIGHTS	SP108	SP	108	BLACK	-	SP108 FOG LMP SW/LTS
DOCK LIGHT POWER	SP109	SP	109	RED	-	SP109 DOCK LT PWR
DOCK LIGHT SWITCH TO DOCK LIGHTS	SP110	SP	110	PINK	-	SP110 DOCK LIGHTS
POWER TO BASEMENT LIGHT SWITCH	SP111	SP	111	RED	-	SP111 PWR BMNT LT SW
BASEMENT LIGHT SWITCH TO LUGGAGE LIGHT	SP112	SP	112	BLACK	-	SP112 BASEMENT LIGHT
DASH FAN POWER	SP113	SP	113	RED	-	SP113 DASH FAN PWR
DASH FAN SWITCH TO FAN MOTORS	SP114	SP	114	BLACK	-	SP114 DASH FAN PWR
DASH FAN SWITCH TO FAN MOTORS	SP115	SP	115	BLACK	-	SP115 DASH FAN PWR
DASH FAN SWITCH TO FAN MOTORS	SP116	SP	116	BLACK	-	SP116 DASH FAN PWR
DASH FAN SWITCH TO FAN MOTORS	SP117	SP	117	BLACK	-	SP117 DASH FAN PWR
POWER TO AUXILIARY START SWITCH	SP118	SP	118	RED	-	SP118 PWR AUX ST SW
AUXILIARY START POWER	SP119	SP	119	RED	-	SP119 AUX START PWR
STEP SWITCH POWER	SP120	SP	120	RED	-	SP120 PWR TO STEP SW
STEP SWITCH POWER	SP121	SP	121	RED	-	SP121 STEP SW PWR
AIR HORN SOLENOID	SP122	SP	122	BLACK	-	SP122 HORN SOLENOID

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
FUSE TO RADIO SWITCH	SP123	SP	123	RED	-	SP123 RADIO SW PWR
RADIO SWITCH POWER	SP124	SP	124	RED	-	SP124 PWR - RADIO SW
RADIO SWITCH POWER	SP125	SP	125	RED	-	SP125 RADIO POWER
FUSE TO MEMORY	SP126	SP	126	RED	-	SP126 MEMORY POWER
FUSE TO CB POWER	SP127	SP	127	RED	-	SP127 CB POWER
FUSE TO REAR AUTO HEATER	SP128	SP	128	RED	-	SP128 REAR AUTO HTR
FUSE TO HEATER RELAY	SP129	SP	129	RED	-	SP129 HEATER RELAY
REAR RELAY TO CONDENSER MOTOR FAN	SP130	SP	130	BLACK	-	SP130 RLY - COND MTR
RADIO GROUND	SP131	SP	131	BLACK	-	SP131 GND TYPE 3
REMOTE CONTROL MIRROR POWER	SP132	SP	132	RED	-	SP132 MIRROR PWR
RIGHT MIRROR SIGNAL	SP133	SP	133	PINK	-	SP133 RT MIRROR SIG
RIGHT MIRROR SIGNAL	SP134	SP	134	PINK	-	SP134 RT MIRROR SIG
MIRROR SIGNALS	SP135	SP	135	PINK	-	SP135 MIRROR SIGNALS
SPEED SWITCH POSITIVE	SP136	SP	136	PINK		SP136 SPEED SW POS
SPEED SWITCH NEGATIVE	SP137	SP	137	GRAY		SP137 SPEED SW NEG
FUSE TO HEATED MIRROR LIGHT SWITCH	SP138	SP	138	RED	-	SP138 HTD MIRROR PWR
RIGHT HEATED MIRROR	SP139	SP	139	PINK		SP139 RT HTD MIRROR
REAR CAMERA POWER	SP140	SP	140	RED	-	SP140 REAR CAM PWR
FUSE TO DOME LIGHT SWITCH	SP141	SP	141	RED	-	SP141 DOME LIGHT PWR
DOME LIGHT POWER	SP142	SP	142	RED	-	SP142 DOME LIGHT PWR
CORNERING MODULE TO LEFT CORNERING LIGHT	SP143	SP	143	BLACK	-	SP143 LFT CRNRING LT
CORNERING MODULE TO RIGHT CORNERING LIGHT	SP144	SP	144	BLACK	-	SP144 RT CRNRING LT
DUMP VALVE RIGHT	SP145	SP	145	BLACK	-	SP145 DUMP VLV RT
DUMP VALVE COMMON	SP146	SP	146	GRAY	-	SP146 DUMP VLV COM
DUMP VALVE LEFT	SP147	SP	147	YELLOW	-	SP147 DUMP VLV LEFT
DUMP VALVE SWITCH LEFT	SP148	SP	148	Lt. GREEN	-	SP148 DMP VLV SW LFT
DUMP VALVE SWITCH RIGHT	SP149	SP	149	Lt. BLUE	-	SP149 DMP VLV SW RT
MIRROR TO MIRROR CONTROL	SP150	SP	150	GRAY	-	SP150 MIR - MIR CONT
DOME LIGHT NEGATIVE	SP151	SP	151	BLACK		SP151 DOME LMP NEG
DOME LIGHT SWITCH TO RELAY	SP152	SP	152	PINK		SP152 DOME SW TO RLY
LOW FUEL WARNING	SP153	SP	153	GRAY		SP153 LOW FUEL WARN
KYSOR OIL STATUS HIGH	SP154	SP	154	TAN		SP154 KYSR OIL HI
KYSOR OIL TEMP SENSOR	SP155	SP	155	TAN		SP155 KYSOR OIL TEMP
KYSOR COOLANT STATUS LOW	SP156	SP	156	TAN		SP156 KYSOR COOL LOW
KYSOR COOLANT STATUS HIGH	SP157	SP	157	TAN		SP157 KYSOR COOL HI
KYSON OIL STATUS LOW	SP158	SP	158	TAN		SP158 KYSON OIL LOW
NEUTRAL SWITCH RETURN	SP159	SP	159	GREY		SP159 NEUTRAL SW RET
THROTTLE (+)	SP160	SP	160	PINK		SP160 THROTTLE POS
THROTTLE (-)	SP161	SP	161	GREY		SP161 THROTTLE NEG
THROTTLE SIGNAL	SP162	SP	162	TAN		SP162 THROTTLE SIG

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PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
IDLE SWITCH NORMALLY OPEN	SP163	SP	163	PINK		SP163 IDLE SW N.OPEN
IDLE SWITCH NORMALLY CLOSED	SP164	SP	164	GREY		SP164 IDLE SW N.CLS
ENGINE BRAKE SIGNAL RETURN	SP165	SP	165	GREY		SP165 ENG BRK SIGNAL
CRUISE SWITCH ON	SP166	SP	166	GREY		SP166 CRUZ SW ON
CRUISE SET	SP167	SP	167	GREY		SP167 CRUZ SET
CRUISE RESUME	SP168	SP	168	GREY		SP168 CRUZ RESUME
CHECK ENGINE	SP169	SP	169	GREY		SP169 CHECK ENG
STOP ENGINE	SP170	SP	170	GREY		SP170 STOP ENG
IDLE INCREMENT	SP171	SP	171	GREY		SP171 IDLE INCREMENT
IDLE DECREMENT	SP172	SP	172	GREY		SP172 IDLE DECREMENT
BRAKE SWITCH	SP173	SP	173	GREY		SP173 BRAKE SWITCH
DIAGNOSTIC TEST	SP174	SP	174	GREY		SP174 DIANOSTIC TEST
LEVEL SENSOR C	SP175	SP	175	PINK	-	SP175 LEVEL SENSOR C
LEVEL SENSOR B	SP176	SP	176	GRAY	-	SP176 LEVEL SENSOR B
LEVEL SENSOR D	SP177	SP	177	WHITE	-	SP177 LEVEL SENSOR D
LEVEL SENSOR A	SP178	SP	178	TAN	-	SP178 LEVEL SENSOR A
FAN CLUTCH (-)	SP179	SP	179	WHITE	-	SP179 FAN CLUTCH NEG
A/C PRESSURE SWITCH NORMALLY CLOSED	SP180	SP	180	GRAY	-	SP180 AC PRS SW N CL
ENGINE BRAKE 1	SP181	SP	181	PINK	-	SP181 ENGINE BRAKE 1
ENGINE BRAKE 2	SP182	SP	182	PINK	-	SP182 ENGINE BRAKE 2
TYPE 1 BATTERY	SP183	SP	183	RED	-	SP183 TYPE 1 BATT
BATTERY POWER	SP184	SP	184	RED	-	SP184 BATTERY PWR
GROUND TYPE 1	SP185	SP	185	BLACK	-	SP185 GROUND TYPE 1
J1939 SHLD DRN	SP186	SP	186	-	J1939 cable	SP186 J1939 SHLD DRN
GROUND TYPE 5	SP186B	SP	186	BLACK	-	SP186 GROUND TYPE 5
J1939 POSITIVE	SP187	SP	187	YELLOW	J1939 cable	SP187 J1939 POS
J1939 NEGATIVE	SP188	SP	188	Dk. GREEN	J1939 cable	SP188 J1939 NEG
BCC IGNITION POWER	SP189	SP	189	RED	-	SP189 BCC IGN PWR
CUST ACC POSITIVE	SP190	SP	190	RED	-	SP190 CUST ACC POS
CUST ACC IGNITION	SP191	SP	191	RED	-	SP191 CUST ACC IGN
CUSTOMER ACCESSES ACCESSORY SWITCHED	SP192	SP	192	RED	-	SP192 CUS ACC ACC SW
MARKER RELAY TO FLASH RELAY	SP193	SP	193	BLACK	-	SP193 MKR RLY FL RLY
MARKER RELAY TO FLASH RELAY	SP194	SP	194	BROWN	-	SP194 MKR RLY FL RLY
JAKE RELAY TO JAKE ON/OFF SWITCH	SP195	SP	195	GRAY	-	SP195 JAKE RLY TO SW
LEFT STOP FROM COLUMN TO RELAY	SP196	SP	196	YELLOW	-	SP196 L STP COL-RLY
RIGHT STOP FROM COLUMN TO RELAY	SP197	SP	197	Dk. GREEN	-	SP197 R STP COL-RLY
LEFT STOP FROM RELAY TO LIGHT	SP198	SP	198	YELLOW	-	SP198 L STP RLY - LT
RIGHT STOP FROM RELAY TO LIGHT	SP199	SP	199	Dk. GREEN	-	SP199 R STP RLY - LT
HDLMP SWITCH TO FLASH RELAY	SP200	SP	200	BLACK	-	SP200 HDLP SW FL RLY
ATC SWITCH TO ABS ECU	SP201	SP	201	GRAY	-	SP201 ATC SW TO ECU

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
ENGINE PROT	SP202	SP	202	GREY		SP202 ENG PROT
OIL SWITCH TO HR METER	SP203	SP	203	GRAY	-	SP203 OIL SW HR MTR
2ND COOLANT GA SENDER TO GUAGE	SP204	SP	204	TAN	-	SP204 2ND COOL GA
2ND OIL PRESS GUAGE SENDER TO 2ND GUAGE	SP205	SP	205	TAN	-	SP205 2ND OIL PRS GA
INTERLOCK DOOR SIGNAL	SP206	SP	206		-	SP206 DR INTRLCK SIG
BRAKE APPLY VALVE BLUE	SP207	SP	207	BLUE	-	SP207 BAV
BRAKE APPLY VALVE BROWN	SP208	SP	208	BROWN	-	SP208 BAV
J1587 POSITIVE	SP209	SP	209	PINK	twp06	SP209 J1587 POS
J1587 NEGATIVE	SP210	SP	210	GRAY	twp06	SP210 J1587 NEG
BRAKE FLUID LEVEL	SP211	SP	211	GRAY	-	SP211 BRK FLUID LVL
ABS ECU TO ATC LIGHT	SP212	SP	212	GRAY	-	SP212 ECU TO ATC LT
AIR 1 SENDER TO GA	SP213	SP	213	TAN	-	SP213 AIR 1 TO GA
AIR 2 SENDER TO GA	SP214	SP	214	TAN	-	SP214 AIR 2 TO GA
BATTERY TO FRT FUSES	SP215	SP	215	RED	-	SP215 BATT TO FUSES
TORQUE CONVERTER LOCKUP RELAY NORMALLY OPEN TO EXHAUST BRAKE RELAY COMMON	SP216	SP	216	PINK	-	SP216 RLY 1 TO RLY 2
BATTERY TO REAR FUSES	SP217	SP	217	RED	-	SP217 BATT TO FUSES
FRONT BATTERY POWER FUSE TO FRONT IGNITION POWER RELAY	SP218	SP	218	RED	-	SP218 FRT BATT PWR
REAR BATTERY POWER FUSE TO REAR IGNITION POWER RELAY	SP219	SP	219	RED	-	SP219 REAR BATT PWR
REAR IGNITION RELAY TO FUSES	SP220	SP	220	PINK	-	SP220 IGN RLY TO FUS
AUD ALRM NEGATIVE	SP221	SP	221	GRAY	-	SP221 AUD ALRM NEG
FRONT IGNITION RELAY TO FUSES	SP222	SP	222	PINK	-	SP222 IGN RLY TO FUS
FUSE TO J BLK	SP223	SP	223	PINK	-	SP223 FUSE TO J BLK
FRONT BATTERY POWER FUSE TO FRONT ACCY POWER RELAY	SP224	SP	224	RED	-	SP224 FRT ACC PWR
ACCY RELAY TO FUSES	SP225	SP	225	PINK	-	SP225 ACC RLY TO FUS
RIGHT TURN SIGNAL SWITCH TO REAR RELAY	SP226	SP	226	Dk. GREEN	-	SP226 RT TRN TO RLY
LEFT TURN SIGNAL SWITCH TO REAR RELAY	SP227	SP	227	YELLOW	-	SP227 LT TRN TO RLY
	SP228	SP	228		-	SP228
PREHEAT TEMP SENDER RETURN	SP229	SP	229	GRAY	-	SP229 PHT TMP RET
PRE HEAT OIL PRESSURE SWITCH	SP230	SP	230	GRAY	-	SP230 PHT OIL PRS SW
PRE HEAT FUEL SOLENOID POWER	SP231	SP	231	PINK	-	SP231 PHT FL SOL PWR
PRE HEAT RELAY ACTIVATION	SP232	SP	232	PINK	-	SP232 PHT RLY ACTIVA
START RELAY TO START SOLENOID	SP233	SP	233	PINK	-	SP233 ST RLY - STRTR
LR JACK EXTEND	SP234	SP	234	PINK	-	SP234 LR JACK EXTEND
LR JACK LIMIT	SP235	SP	235	GRAY	-	SP235 LR JACK LIMIT
LR JACK RETRACT	SP236	SP	236	PINK	-	SP236 LR JACK RETRCT
RR JACK EXTEND	SP237	SP	237	PINK	-	SP237 RR JACK EXTEND
RR JACK LIMIT	SP238	SP	238	GRAY	-	SP238 RR JACK LIMIT
RR JACK RETRACT	SP239	SP	239	PINK	-	SP239 RR JACK RETRCT
ABS AXLE 1 SENSOR L2	SP240	SP	240	BLACK	twp07	SP240 ABS 1 SENS L2

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
ABS AXLE 1 SENSOR L2	SP240L	SP	240	BLACK	Leoni cable 2 wire	SP240 ABS 1 SENS L2
ABS AXLE 1 SENSOR L1	SP241	SP	241	BROWN	twp07	SP241 ABS 1 SENS L1
ABS AXLE 1 SENSOR L1	SP241L	SP	241	BROWN	Leoni cable 2 wire	SP241 ABS 1 SENS L1
ABS AXLE 1 SENSOR R1	SP242	SP	242	BROWN	twp08	SP242 ABS 1 SENS R1
ABS AXLE 1 SENSOR R1	SP242L	SP	242	BROWN	Leoni cable 2 wire	SP242 ABS 1 SENS R1
ABS AXLE 1 SENSOR R2	SP243	SP	243	BLACK	twp08	SP243 ABS 1 SENS R2
ABS AXLE 1 SENSOR R2	SP243L	SP	243	BLACK	Leoni cable 2 wire	SP243 ABS 1 SENS R2
ABS AXLE 1 VALVE L COMMON	SP244	SP	244	BLACK	twt05	SP244 ABS 1 VLV L COM
ABS AXLE 1 VALVE L COMMON	SP244L	SP	244	BLACK	Leoni cable 3 wire	SP244 ABS 1 VLV L COM
ABS AXLE 1 VALVE L INLET	SP245	SP	245	YELLOW	twt05	SP245 ABS 1 VLV L I/L
ABS AXLE 1 VALVE L INLET	SP245L	SP	245	YELLOW	Leoni cable 3 wire	SP245 ABS 1 VLV L I/L
ABS AXLE 1 VALVE L OUTLET	SP246	SP	246	RED	twt05	SP246 ABS 1 VLV L O/L
ABS AXLE 1 VALVE L OUTLET	SP246L	SP	246	RED	Leoni cable 3 wire	SP246 ABS 1 VLV L O/L
ABS AXLE 1 VALVE R COMMON	SP247	SP	247	BLACK	twt06	SP247 ABS 1 VLV R COM
ABS AXLE 1 VALVE R COMMON	SP247L	SP	247	BLACK	Leoni cable 3 wire	SP247 ABS 1 VLV R COM
ABS AXLE 1 VALVE R INLET	SP248	SP	248	YELLOW	twt06	SP248 ABS 1 VLV R I/L
ABS AXLE 1 VALVE R INLET	SP248L	SP	248	YELLOW	Leoni cable 3 wire	SP248 ABS 1 VLV R I/L
ABS AXLE 1 VALVE R OUTLET	SP249	SP	249	RED	twt06	SP249 ABS 1 VLV R O/L
ABS AXLE 1 VALVE R OUTLET	SP249L	SP	249	RED	Leoni cable 3 wire	SP249 ABS 1 VLV R O/L
L STOP/TURN OUT	SP250	SP	250	YELLOW	-	SP250 L STP/TRN OUT
R STOP/TURN OUT	SP251	SP	251	Dk. GREEN	-	SP251 R STP/TRN OUT
ABS AXLE 2 SENSOR L1	SP252	SP	252	BROWN	twp09	SP252 ABS 2 SENS L1
ABS AXLE 2 SENSOR L1	SP252L	SP	252	BROWN	Leoni cable 2 wire	SP252 ABS 2 SENS L1
ABS AXLE 2 SENSOR L2	SP253	SP	253	BLACK	twp09	SP253 ABS 2 SENS L2
ABS AXLE 2 SENSOR L2	SP253L	SP	253	BLACK	Leoni cable 2 wire	SP253 ABS 2 SENS L2
ABS AXLE 2 SENSOR R1	SP254	SP	254	BROWN	twp10	SP254 ABS 2 SENS R1
ABS AXLE 2 SENSOR R1	SP254L	SP	254	BROWN	Leoni cable 2 wire	SP254 ABS 2 SENS R1
ABS AXLE 2 SENSOR R2	SP255	SP	255	BLACK	twp10	SP255 ABS 2 SENS R2
ABS AXLE 2 SENSOR R2	SP255L	SP	255	BLACK	Leoni cable 2 wire	SP255 ABS 2 SENS R2
ABS AXLE 2 VALVE L COMMON	SP256	SP	256	BLACK	twt07	SP256 ABS 2 VLV L COM
ABS AXLE 2 VALVE L COMMON	SP256L	SP	256	BLACK	Leoni cable 3 wire	SP256 ABS 2 VLV L COM
ABS AXLE 2 VALVE L INLET	SP257	SP	257	YELLOW	twt07	SP257 ABS 2 VLV L I/L
ABS AXLE 2 VALVE L INLET	SP257L	SP	257	YELLOW	Leoni cable 3 wire	SP257 ABS 2 VLV L I/L
ABS AXLE 2 VALVE L OUTLET	SP258	SP	258	RED	twt07	SP258 ABS 2 VLV L O/L
ABS AXLE 2 VALVE L OUTLET	SP258L	SP	258	RED	Leoni cable 3 wire	SP258 ABS 2 VLV L O/L
ABS AXLE 2 VALVE R COMMON	SP259	SP	259	BLACK	twt08	SP259 ABS 2 VLV R COM
ABS AXLE 2 VALVE R COMMON	SP259L	SP	259	BLACK	Leoni cable 3 wire	SP259 ABS 2 VLV R COM
ABS AXLE 2 VALVE R INLET	SP260	SP	260	YELLOW	twt08	SP260 ABS 2 VLV R I/L
ABS AXLE 2 VALVE R INLET	SP260L	SP	260	YELLOW	Leoni cable 3 wire	SP260 ABS 2 VLV R I/L
ABS AXLE 2 VALVE R OUTLET	SP261	SP	261	RED	twt08	SP261 ABS 2 VLV R O/L

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
ABS AXLE 2 VALVE R OUTLET	SP261L	SP	261	RED	Leoni cable 3 wire	SP261 ABS 2 VLV R O/L
RF JACK EXTEND	SP262	SP	262	PINK	-	SP262 RF JACK EXTEND
RF JACK LIMIT	SP263	SP	263	GRAY	-	SP263 RF JACK LIMIT
RF JACK RETRACT	SP264	SP	264	PINK	-	SP264 RF JACK RETRCT
LF JACK EXTEND	SP265	SP	265	PINK	-	SP265 LF JACK EXTEND
LF JACK LIMIT	SP266	SP	266	GRAY	-	SP266 LF JACK LIMIT
LF JACK RETRACT	SP267	SP	267	PINK	-	SP267 LF JACK RETRCT
DRIVING LIGHT SWITCH FEED	SP268	SP	268	PINK	-	SP268 DRVG LT SW FD
DRIVING LIGHTS ACTIVE	SP269	SP	269	WHITE	-	SP269 DRVG LTS ACT
GROUND TYPE 2	SP270	SP	270	BLACK	-	SP270 GROUND TYPE 2
24V SUPPLY	SP271	SP	271	RED	-	SP271 24V SUPPLY
DOOR INPUT ECAS (-)	SP273	SP	273	TAN	-	SP273 ECAS DR INPUT
SENSOR RR ECAS	SP274	SP	274	TAN	twp15	SP274 SENS RR ECAS
SENSOR RR ECAS	SP274L	SP	274L	TAN	Leoni Cable 2 Wire	SP274L SENS RR ECAS
24V IGNITION	SP275	SP	275	RED	-	SP275 24V IGNITION
DASH SOUNDER ECAS	SP276	SP	276	TAN	-	SP276 ECAS DSH SOUND
EXTERIOR SOUNDER ECAS	SP277	SP	277	TAN	-	SP277 ECAS EXT SOUND
VALVE RL ECAS	SP278L	SP	278L	YELLOW	Leoni Cable 4 Wire	SP278L VALVE RL-ECAS
LOW RIDE LIGHT ECAS	SP279	SP	279	TAN	-	SP279 LOW RIDE ECAS
VALVE SUPPLY/EXAUST ECAS	SP280L	SP	280L	BROWN	Leoni Cable 4 Wire	SP280L VLV SPLY/EXH ECAS
HIGH RIDE SWITCH	SP281	SP	281	TAN	-	SP281 HI RIDE SWITCH
SHIPPING LEVEL SWITCH	SP282	SP	282	TAN	-	SP282 SHPNG LVL SW
KNEELING LIGHT	SP283	SP	283	TAN	-	SP283 KNEELING LIGHT
LOW RIDE SWITCH	SP284	SP	284	TAN	-	SP284 LO RIDE SWITCH
AUTO KNEELING SWITCH	SP285	SP	285	TAN	-	SP285 AUTO KNEEL SW
MANUAL KNEELING SWITCH	SP286	SP	286	TAN	-	SP286 MAN KNEEL SW
SENSOR RL ECAS	SP287	SP	287	BLACK	twp16	SP287 SENS RL ECAS
SENSOR RL ECAS	SP287L	SP	287L	BLACK	Leoni Cable 2 wire	SP287L SENS RL ECAS
SENSOR F ECAS	SP288	SP	288	TAN	twp 14	SP288 SENS F ECAS
SENSOR F ECAS	SP288L	SP	288L	BROWN	Leoni Cable 2 Wire	SP288L SENS F ECAS
GROUND 24V ECAS	SP289	SP	289	BLACK	twp 14	SP289 24V GND-ECAS
ECAS SENSOR F	SP289L	SP	289L	BLACK	Leoni Cable 2 Wire	SP289L ECAS SENS F
VALVE FRONT ECAS	SP290L	SP	290L	BROWN	Leoni Cable 2 Wire	SP290L VLV FRT ECAS
VALVE RR ECAS	SP291L	SP	291L	BLACK	Leoni Cable 4 Wire	SP291L VLV RR ECAS
FAULT LIGHT	SP292	SP	292	TAN	-	SP292 FAULT LIGHT
NEUTRAL GROUND 24V	SP293	SP	293	TAN	-	SP293 24V NEUT GND
PARK BRAKE ECAS	SP294	SP	294	TAN	-	SP294 ECAS PARK BRK
HIGH RIDE LIGHT ECAS	SP295	SP	295	TAN	-	SP295 HI RIDE LT ECAS
ABS AXLE 3 VALVE SENSOR L2	SP296	SP	296	BLACK	twp18	SP296 ABS 3 VLV SENS L2
ABS AXLE 3 VALVE SENSOR L2	SP296L	SP	296L	BLACK	Leoni Calbe 2 Wire	SP296L ABS 3 VLV SENS L2

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
ABS AXLE 3 VALVE SENSOR L1	SP297	SP	297	BROWN	twp18	SP297 ABS 3 VLV SENS L1
ABS AXLE 3 VALVE SENSOR L1	SP297L	SP	297L	BROWN	Leoni Calbe 2 Wire	SP297L ABS 3 VLV SENS L1
ABS AXLE 3 VALVE SENSOR R1	SP298	SP	298	BROWN	twp17	SP298 ABS 3 VLV SENS R1
ABS AXLE 3 VALVE SENSOR R1	SP298L	SP	298L	BROWN	Leoni Calbe 2 Wire	SP298L ABS 3 VLV SENS R1
ABS AXLE 3 VALVE SENSOR R2	SP299	SP	299	BLACK	twp17	SP299 ABS 3 VLV SENS R2
ABS AXLE 3 VALVE SENSOR R2	SP299L	SP	299L	BLACK	Leoni Calbe 2 Wire	SP299L ABS 3 VLV SENS R2
ABS AXLE 3 VALVE COMMON L	SP300	SP	300	BLACK	twt10	SP300 ABS 3 VLV COM L
ABS AXLE 3 VALVE COMMON L	SP300L	SP	300L	BLACK	Leoni Cable 3 Wire	SP300L ABS 3 VLV COM L
ABS AXLE 3 VALVE INLET L	SP301	SP	301	YELLOW	twt10	SP301 ABS 3 VLV I/L L
ABS AXLE 3 VALVE INLET L	SP301L	SP	301L	YELLOW	Leoni Cable 3 Wire	SP301L ABS 3 VLV I/L L
ABS AXLE 3 VALVE OUTLET L	SP302	SP	302	RED	twt10	SP302 ABS 3 VLV O/L L
ABS AXLE 3 VALVE OUTLET L	SP302L	SP	302L	RED	Leoni Cable 3 Wire	SP302L ABS 3 VLV O/L L
ABS AXLE 3 VALVE COMMON R	SP303	SP	303	BLACK	twt09	SP303 ABS 3 VLV COM R
ABS AXLE 3 VALVE COMMON R	SP303L	SP	303L	BLACK	Leoni Cable 3 Wire	SP303L ABS 3 VLV COM R
ABS AXLE 3 VALVE INLET R	SP304	SP	304	YELLOW	twt09	SP304 ABS 3 VLV I/L R
ABS AXLE 3 VALVE INLET R	SP304L	SP	304L	YELLOW	Leoni Cable 3 Wire	SP304L ABS 3 VLV I/L R
ABS AXLE 3 VALVE OUTLET R	SP305	SP	305	RED	twt09	SP305 ABS 3 VLV O/L R
ABS AXLE 3 VALVE OUTLET R	SP305L	SP	305	RED	Leoni Cable 3 Wire	SP305 ABS 3 VLV O/L R
ECAS SENSOR RR COMMON	SP308	SP	308	BROWN	twp15	SP308 ECAS SENS RR COM
ECAS SENSOR RR COMMON	SP308L	SP	308L	BROWN	Leoni Cable 2 Wire	SP308L ECAS SENS RR COM
ECAS SENSOR RL COMMON	SP309	SP	309	BROWN	twp16	SP309 ECAS SENS RL COM
ECAS SENSOR RL COMMON	SP309L	SP	309L	BROWN	Leoni Cable 2 Wire	SP309L ECAS SENS RL COM
RETARDER BRAKE SIGNAL	SP310	SP	310	TAN	-	SP310 RTRDER BRK SIG
FUEL HEATER +	SP311	SP	311	TAN	-	SP311 FUEL HTR POS
CHARGE LIGHT	SP312	SP	312	TAN	-	SP312 CHARGE LIGHT
ECAS FRONT VALVE COMMON	SP313L	SP	313L	BLACK	Leoni Cable 2 Wire	SP313L ECAS FRT VLV COM
ECAS REAR VALVE COMMON	SP314L	SP	314L	RED	Leoni Cable 4 Wire	SP314L ECAS R VLV COM
BATTERY TO PRE HEAT FUSE 1	SP315	SP	315	RED	-	SP315 BAT - PHT FUSE
BATTERY TO PRE HEAT FUSE2	SP316	SP	316	RED	-	SP316 BAT - PHT FUSE
PRE HEAT FUSE TO RELAY 1	SP317	SP	317	RED	-	SP317 PHT FSE TO RLY
PRE HEAT FUSE TO RELAY 2	SP318	SP	318	RED	-	SP318 PHT FSE TO RLY
BATTERY TO START AND FUEL RELAY	SP319	SP	319	RED	-	SP319 BAT TO FL RLY
REAR STOP/TURN POWER	SP320	SP	320	RED	-	SP320 R STP/TRN PWR
BATTERY FUSE TO IGNITION RELAY	SP321	SP	321	RED	-	SP321 FUS TO IGN RLY
HEAD LIGHT FLASH COIL +	SP322	SP	322	RED	-	SP322 HDLT FLSH COL
CUSTOMER 1	SP323	SP	323	YELLOW	-	SP323 CUSTOMER 1
CUSTOMER 2	SP324	SP	324	YELLOW	-	SP324 CUSTOMER 2
CUSTOMER 3	SP325	SP	325	YELLOW	-	SP325 CUSTOMER 3
CUSTOMER 4	SP326	SP	326	YELLOW	-	SP326 CUSTOMER 4
CUSTOMER 5	SP327	SP	327	YELLOW	-	SP327 CUSTOMER 5

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
CUSTOMER 6	SP328	SP	328	YELLOW	-	SP328 CUSTOMER 6
CUSTOMER 7	SP329	SP	329	YELLOW	-	SP329 CUSTOMER 7
CUSTOMER 8	SP330	SP	330	YELLOW	-	SP330 CUSTOMER 8
VIP DATA LINK	SP331	SP	331	BROWN	twp19	SP331 VIP DATA LINK
VIP DATA LINK	SP332	SP	332	YELLOW	twp19	SP332 VIP DATA LINK
VIP MKR LMP OFF	SP333	SP	333	GRAY	-	SP333 VIP MKR LMP OF
VIP MKR LMP ON	SP334	SP	334	GRAY	-	SP334 VIP MKR LMP ON
VIP HD LMP WIPER	SP335	SP	335	GRAY	-	SP335 VIP HD LMP WPR
VIP HD LMP OFF	SP336	SP	336	GRAY	-	SP336 VIP HD LMP OFF
VIP HD LMP ON	SP337	SP	337	GRAY	-	SP337 VIP HD LMP ON
HEADLIGHT FLASH	SP338	SP	338	GRAY	-	SP338 HDLT FLASH
MARKER LIGHT FLASH	SP339	SP	339	GRAY	-	SP339 MKR LT FLASH
GENERATOR START	SP340	SP	340	RED	-	SP340 GENER START
VACUUM PUMP POWER	SP341	SP	341	RED	-	SP341 VAC PUMP PWR
AUTOMATIC STEP A	SP342	SP	342	BLACK	-	SP342 AUTO STEP A
AUTOMATIC STEP B	SP343	SP	343	BLACK	-	SP343 AUTO STEP B
FAN SOLENOID POWER	SP344	SP	344	RED	-	SP344 FAN SOL PWR
FAN SOLENOID GROUND	SP345	SP	345	BLACK	-	SP345 FAN SOL GND
FAN THERMOSTAT SIGNAL	SP346	SP	346	TAN	-	SP346 FAN THERM SIG
FAN THERMOSTAT GROUND	SP347	SP	347	BLACK	-	SP347 FAN THERM GND
FAN POWER	SP348	SP	348	RED	-	SP348 FAN POWER
FAN POWER (12V)	SP349	SP	349	RED	-	SP349 FAN POWER-12V
FAN OVER-RIDE	SP350	SP	350	GRAY	-	SP350 FAN OVER-RIDE
RETARDER INDICATOR LIGHT	SP351	SP	351	GRAY	-	SP351 RETRDR IND LT
SPEEDO (+)	SP352	SP	352	PINK	twp20	SP352 SPEEDO POS
SPEEDO (-)	SP353	SP	353	GRAY	twp20	SP353 SPEEDO NEG
SPEED GENERATOR POWER	SP354	SP	354	RED	-	SP354 SPD GENER PWR
TRANSMISSION TEMP SWITCH	SP355	SP	355	GRAY	-	SP355 TRANS TEMP SW
LEVEL JACK CONTROL	SP356	SP	356	PINK	-	SP356 LVL JACK CONT
SLIDE OUT POWER	SP357	SP	357	RED	-	SP357 SLIDE OUT PWR
KNEEL VALVE FILL	SP358	SP	358	PINK	-	SP358 KNEEL VLV FILL
KNEEL VALVE SWITCH POWER	SP359	SP	359	RED	-	SP359 KNEEL VLV PWR
TAG DUMP	SP360	SP	360	PINK	-	SP360 TAG DUMP
DRIVER LIGHT POWER	SP361	SP	361	RED	-	SP361 DRV LGT PWR
SWITCH TO DRIVING LIGHT	SP362	SP	362	PURPLE	-	SP362 SW DRV LGT
H'MAX FLOW SWITCH	SP363	SP	363	GRAY	-	SP363 H'MAX FLOW SW
H'MAX WARNING LAMP	SP364	SP	364	GRAY	-	SP364 H'MAX WRNG LMP
H'MAX PUMP SIGNAL	SP365	SP	365	GRAY	-	SP365 H'MAX PUMP SIG
H'MAX PUMP (+)	SP366	SP	366	GRAY	-	SP366 H'MAX PUMP POS
H'MAX RELAY FEED	SP367	SP	367	RED	-	SP367 H'MAX RLY FEED

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
DDEC BUZZER	SP368	SP	368	RED	-	SP368 DDEC BUZZER
PSG INTERLOCK (+)	SP369	SP	369	PINK	-	SP369 PSG INTRLK POS
PSG INTERLOCK (-)	SP370	SP	370	GRAY	-	SP370 PSG INTRLK NEG
LOW AIR 2 SWITCH TO LIGHT	SP371	SP	371	GRAY	-	SP371 LO AIR 2 SW
FUEL PRIMER POWER	SP372	SP	372	RED	-	SP372 FL PRMR PWR
FUEL PRIMER SWITCH TO PUMP	SP373	SP	373	PINK	-	SP373 PRMR SW TO PMP
SHUTDOWN POWER	SP374	SP	374	RED	-	SP374 SHUTDOWN PWR
SHUTDOWN SWITCH TO SOLENOID	SP375	SP	375	PINK	-	SP375 SHTDN SW - SOL
FAST IDLE MANAGER	SP376	SP	376	PURPLE	-	SP376 FAST IDLE MAN
DISABLE MANAGER	SP377	SP	377	PURPLE	-	SP377 DISABLE MAN
TAG STEER LOCK	SP378	SP	378	PURPLE	-	SP378 TAG STEER LOCK
TAG PRESSURE SWITCH	SP379	SP	379	PINK	-	SP379 TAG PRESS SW
FAST IDLE SWITCH	SP380	SP	380	PINK	-	SP380 FAST IDLE SW
HIGH IDLE LAMP	SP381	SP	381	GRAY	-	SP381 HIGH IDLE LAMP
SIREN BRAKE	SP382	SP	382	GRAY	-	SP382 SIREN BRAKE
SIREN RELAY	SP383	SP	383	GRAY	-	SP383 SIREN RELAY
WIPER PARK L	SP384	SP	384	GRAY	-	SP384 WIPER PARK L
WIPER PARK R	SP385	SP	385	GRAY	-	SP385 WIPER PARK R
RIGHT WIPER LO	SP386	SP	386	GRAY	-	SP386 RIGHT WIPER LO
RIGHT WIPER HI	SP387	SP	387	GRAY	-	SP387 RIGHT WIPER HI
EXTERIOR TEMP	SP388	SP	388	WHITE	-	SP388 EXTERIOR TEMP
DIAGNOSTIC TOOL POWER	SP389	SP	389	BROWN	-	SP389 DIAGN TOOL PWR
TRANSMISSION ENGAGED	SP390	SP	390	GRAY	-	SP390 TRANS ENGAGED
LEVEL JACKS	SP391	SP	391	PINK	-	SP391 LVL JACKS
DOOR RLTC	SP392	SP	392	PINK	-	SP392 DOOR RLTC
HANDLE SENSOR	SP393	SP	393	GRAY	-	SP393 HNDL SENS
RLR SENSOR	SP394	SP	394	GRAY	-	SP394 RLR SENS
LTCH JMP	SP395	SP	395	PINK	-	SP395 LTCH JMP
LEVEL JACK BATTERY	SP396	SP	396	RED	-	SP396 LVL JACK BATT
LFT SD WARNING	SP397	SP	397	PINK	-	SP397 LFT SD WARNING
RT SD WARNING	SP398	SP	398	PINK	-	SP398 RT SD WARNING
RT LWR WARNING	SP399	SP	399	PINK	-	SP399 RT LWR WRNING
LT LWR WARNING	SP400	SP	400	PINK	-	SP400 LT LWR WRNING
SD WARNING RELAY TO FLSHR	SP401	SP	401	PINK	-	SP401 SD WRN RLY
SD WARNING SWITCH	SP402	SP	402	RED	-	SP402 SD WARN SW
SD WARNING POWER	SP403	SP	403	RED	-	SP403 SD WARN PWR
NEUTRAL SAFETY INTERLOCK JUMP TO PUMP	SP404	SP	404	PINK	-	SP404 INTERLOCK
MAP LIGHT	SP405	SP	405	RED	-	SP405 MAP LT
LFT WARNING LIGHT	SP406	SP	406	PINK	-	SP406 LFT WARNING LT
RT WARNING LIGHT	SP407	SP	407	PINK	-	SP407 RT WARNING LT

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
FRONT WARNING POWER	SP408	SP	408	RED	-	SP408 FRT WARN PWR
COURTESY LAMP POWER	SP409	SP	409	RED	-	SP409 CRTSY LMP PWR
BEACON	SP410	SP	410	RED	-	SP410 BEACON
BEACON POWER	SP411	SP	411	RED	-	SP411 BEACON PWR
BEACON SWITCH	SP412	SP	412	RED	-	SP412 BEACON SWITCH
ALIGHT LIGHT POWER	SP413	SP	413	RED	-	SP413 ALT LT PWR
WARN LIGHT RELAY TO FLSHR	SP414	SP	414	PINK	-	SP414 WRN LT RLY
WARN LIGHT SWITCH	SP415	SP	415	PINK	-	SP415 WARN LT SW
SIREN POWER	SP416	SP	416	RED	-	SP416 SIREN PWR
OPEN DOOR BEACON POWER	SP417	SP	417	RED	-	SP417 OPN DR BEAC PW
P-MODE SHIFT	SP418	SP	418	PINK	-	SP418 P-MODE SHIFT
DEFROST FAN	SP419	SP	419	RED	-	SP419 DEFROST FAN
BREAKER TO RELAY	SP420	SP	420	PINK	-	SP420 BRKR TO RLY
RELAY TO BUSS BAR	SP421	SP	421	RED	-	SP421 RLY TO BUS BAR
BREAKER TO A/C BLOWER	SP422	SP	422	RED	-	SP422 BRKR - AC BLWR
BRKR TO A/C BLWR	SP423	SP	423	RED	-	SP423 BRKR - AC BLWR
DOME LIGHT LFT	SP424	SP	424	GREY	-	SP424 DOME LT LFT
DOME LIGHT RT	SP425	SP	425	GREY	-	SP425 DOME LT RT
DUMP VALVE OFF	SP426	SP	426	GRAY	-	SP426 DUMP VLV OFF
DUMP VALVE ON	SP427	SP	427	PINK	-	SP427 DUMP VLV ON
HEATER POWER	SP428	SP	428	RED	-	SP428 HTR PWR
HEATER POWER	SP429	SP	429	RED	-	SP429 HTR PWR
HEATER POWER	SP430	SP	430	RED	-	SP430 HTR PWR
ABS WARNING	SP431	SP	431	GRAY	-	SP431 ABS WARN
PETERS MYSTERY WIRE	SP432	SP	432	PINK	-	SP432 PETERS MYSTERY WIRE
FRONT WARNING RELAY TO FLASHER	SP433	SP	433	RED	-	SP433 FRT WARN FLSHR
MASTER SWITCH POWER	SP434	SP	434	RED	-	SP434 MSTR SW PWR
MASTER SWITCH SWITCHED POWER	SP435	SP	435	RED	-	SP435 MSTR SWD PWR
N TO R INHIBIT	SP436	SP	436	GRAY	-	SP436 N TO R INHIBIT
FOURTH RANGE IND	SP437	SP	437	GRAY	-	SP437 4TH RANGE IND
LEFT SPOT LIGHT	SP438	SP	438	RED	-	SP438 LEFT SPOT LT
RIGHT SPOT LIGHT	SP439	SP	439	RED	-	SP439 RIGHT SPOT LT
POWER TO SPARE RELAY 1	SP440	SP	440	RED	-	SP440 RELAY 1 PWR
SPARE RELAY TO J-BLOCK NC	SP441	SP	441	PINK	-	SP441 RELAY 1 NC
SPARE RELAY TO J-BLOCK NO	SP442	SP	442	PINK	-	SP442 RELAY 1 NO
POWER TO SPARE RELAY 2	SP443	SP	443	RED	-	SP443 RELAY 2 PWR
SPARE RELAY TO J-BLOCK NC	SP444	SP	444	PINK	-	SP444 RELAY 2 NC
SPARE RELAY TO J-BLOCK NO	SP445	SP	445	PINK	-	SP445 RELAY 2 NO
POWER TO SPARE RELAY 3	SP446	SP	446	RED	-	SP446 RELAY 3 PWR
SPARE RELAY TO J-BLOCK NC	SP447	SP	447	PINK	-	SP447 RELAY 3 NC

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
SPARE RELAY TO J-BLOCK NO	SP448	SP	448	PINK	-	SP448 RELAY 3 NO
POWER TO SPARE RELAY 4	SP449	SP	449	RED	-	SP449 RELAY 4 PWR
SPARE RELAY TO J-BLOCK NO	SP450	SP	450	PINK	-	SP450 RELAY 4 NO
POWER TO SPARE RELAY 5	SP451	SP	451	RED	-	SP451 RELAY 5 PWR
SPARE RELAY TO J-BLOCK NO	SP452	SP	452	PINK	-	SP452 RELAY 5 NO
POWER FOR AIR PUMP SEAT 1	SP453	SP	453	GREEN	-	SP453 SEAT AIR 1
POWER FOR AIR PUMP SEAT 2	SP454	SP	454	GREEN	-	SP454 SEAT AIR 1
DOOR SWITCH TO AUX DOME LIGHT	SP455	SP	455	YELLOW		SP455 DR SW TO AUX
SWITCHED BREAKER POWER	SP456	SP	456	RED		SP456 SW BRKR PWR
LIVE BREAKER POWER	SP457	SP	457	RED		SP457 LIVE BRKR PWR
IGNITION POWER	SP458	SP	458	RED		SP458 IGN PWR
MASTER POWER TO SWITCH	SP459	SP	459	RED		SP459 MAST PWR TO SW
IGNITION POWER TO SWITCH	SP460	SP	460	RED		SP460 IGN PWR TO SW
CARBON MONOXIDE POWER	SP461	SP	461	RED		SP461 CO ALARM PWR
LIQUID PETROLIUM GAS POWER	SP462	SP	462	RED		SP462 LP ALARM PWR
MONITOR POWER	SP463	SP	463	RED		SP463 MONITOR PWR
HEATED MIRROR, SWITCH TO MIRROR	SP464	SP	464	PINK		SP464 HEATED MIRROR
HEATED MIRROR, BREAKER TO SWITCH	SP465	SP	465	RED		SP465 HTD MIRROR PWR
POWER MIRROR BREAKER TO SWITCH	SP466	SP	466	RED		SP466 POWER MIRROR
DOOR OPEN WARNING	SP467	SP	467	GREY		SP467 DOOR WARNING
FLASHER TO RT FRT LOWER WARN LAMP	SP468	SP	468	PINK		SP468 RT LOW WARN LT
FLASHER TO LT FRT LOWER WARN LAMP	SP469	SP	469	PINK		SP469 LF LOW WARN LT
DIFFERENTIAL LOCK LAMP TO SWITCH	SP470	SP	470	PINK		SP470 DIFF LOCK LT
RACOR ALARM TO SENDER	SP471	SP	471	GREY		SP471 RACOR ALARM
BATTERY FEED TO MASTER OR IGNITION	SP472	SP	472	RED		SP472 CAB FEED POS
FUEL HEATER SWITCH TO RELAY	SP473	SP	473	PINK		SP473 FUEL HEAT SW
START SWITCH TO SECOND SOLENOID (DUAL START)	SP474	SP	474	RED		SP474 START SOL #2
FRONT STROBE RELAY TO POWER SUPPLY	SP475	SP	475	PINK		SP475 FRT STROBE RLY
SIDE STROBE RELAY TO POWER SUPPLY	SP476	SP	476	PINK		SP476 SIDE STROBE RY
FRONT STROBE SWITCH TO RELAY	SP477	SP	477	PINK		SP477 FRT STROBE SW
SIDE STROBE SWITCH TO RELAY	SP478	SP	478	PINK		SP478 SIDE STROBE SW
GROUND LIGHT POWER	SP479	SP	479	RED		SP479 GROUND LT PWR
ENGINE SPEED SIGNAL POSITIVE	SP480	SP	480	PINK		SP480 ENG SD SIG POS
ENGINE SPEED SIGNAL NEGATIVE	SP481	SP	481	GREY		SP481 ENG SD SIG NEG
THROTTLE COMMAND POSITIVE	SP482	SP	482	PINK		SP482 THRTL COM POS
THROTTLE COMMAND NEGATIVE	SP483	SP	483	GREY		SP483 THRTL COM NEG
ALTERNATOR OUTPUT	SP484	SP	484	RED		SP484 ALTERNATOR OUT
BATTERY POSITIVE TO STARTER	SP485	SP	485	RED		SP485 BAT POS TO STR
PTO POWER	SP486	SP	486	RED		SP486 PTO POWER
LEFT SCENE LIGHT	SP487	SP	487	PINK		SP487 LEFT SCENE LT

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
RIGHT SCENE LIGHT	SP488	SP	488	PINK		SP488 RIGHT SCENE LT
CAB TILT SOL. TO ALARM	SP489	SP	489	PINK		SP489 CAB TILT SOL. TO ALARM
FLOOD LIGHT POWER	SP490	SP	490	RED		SP490 FLOOD LT POWER
RIGHT FLOOD LIGHT	SP491	SP	491	PINK		SP491 RT FLOOD LIGHT
LEFT FLOOD LIGHT	SP492	SP	492	PINK		SP492 LT FLOOD LIGHT
OPTICOM POWER	SP493	SP	493	RED		SP493 OPTICOM POWER
OPTICOM SWITCH	SP494	SP	494	RED		SP494 OPTICOM SWITCH
PTO SWITCH TO CLUTCH	SP495	SP	495	PINK		SP495 PTO CLUTCH SW
PTO SWITCH TO LIGHT	SP496	SP	496	GREY		SP496 PTO IND LIGHT
RELAY TO A/C CONDENSER	SP497	SP	497	PINK		SP497 RELAY TO A/C CONDNSR
BREAKER TO A/C COND RELAY	SP498	SP	498	RED		SP498 BREAKER TO A/C COND RY
A/C EVAP TO COND	SP499	SP	499	GREY		SP499 A/C EVAP TO COND
LOAD MANAGER POWER	SP500	SP	500	RED		SP500 LOAD MGR PWR
LOAD MANAGER OUTPUT LOAD #1	SP501	SP	501	PINK		SP501 LOAD MGR #1
LOAD MANAGER OUTPUT LOAD #2	SP502	SP	502	PINK		SP501 LOAD MGR #2
LOAD MANAGER OUTPUT LOAD #3	SP503	SP	503	PINK		SP501 LOAD MGR #3
LOAD MANAGER OUTPUT LOAD #4	SP504	SP	504	PINK		SP501 LOAD MGR #4
LOAD MANAGER OUTPUT LOAD #5	SP505	SP	505	PINK		SP501 LOAD MGR #5
LOAD MANAGER OUTPUT LOAD #6	SP506	SP	506	PINK		SP501 LOAD MGR #6
LOAD MANAGER OUTPUT LOAD #7	SP507	SP	507	PINK		SP501 LOAD MGR #7
LOAD MANAGER OUTPUT LOAD #8	SP508	SP	508	PINK		SP501 LOAD MGR #8
LOAD MANAGER OUTPUT LOAD #9	SP509	SP	509	PINK		SP501 LOAD MGR #9
LOAD MANAGER OUTPUT LOAD #10	SP510	SP	510	PINK		SP501 LOAD MGR #10
LOAD MANAGER OUTPUT LOAD #11	SP511	SP	511	PINK		SP501 LOAD MGR #11
LOAD MANAGER OUTPUT LOAD #12	SP512	SP	512	PINK		SP501 LOAD MGR #12
SCENE LIGHT POWER	SP513	SP	513	RED		SP513 SCENE LT PWR
SWITCHED GROUND	SP514	SP	514	BLACK		SP514 SWITCHED GND
ABS BLINK CODE SWITCH IN FROM ECU	SP515	SP	515	GREEN		SP515 ABS BLINK IN
ABS BLINK CODE SWITCH OUT TO LIGHT	SP516	SP	516	YELLOW		SP516 ABS BLINK OUT
IGNITION TO ABS ECU	SP517	SP	517	RED	-	SP517 IGN TO ABS ECU
RELAY TO WARNING LIGHT	SP518	SP	518	RED		SP518 RELAY TO WARN LT
FUEL PRESSURE SENDER TO GAUGE	SP519	SP	519	GREY		SP519 FUEL PRESS SNDR
NSBU PARK/REV ACC. FEED	SP520	SP	520			SP520 NSBU ACC FEED
NSBU REV ACTIVE	SP521	SP	521			SP521 REV ACTIVE
NSBU PARK ACTIVE	SP522	SP	522			SP522 PARK ACTIVE
Left Mirror Heat (-)	SP523	SP	523	GRY		SP523 Left Mirror Heat (-)
Left Mirror Heat (+)	SP524	SP	524	GRY		SP524 Left Mirror Heat (+)
Left Mirror Adj.	SP525	SP	525	GRY		SP525 Left Mirror Adj.
Left Mirror Adj.	SP526	SP	526	GRY		SP526 Left Mirror Adj.
Left Mirror Adj.	SP527	SP	527	GRY		SP527 Left Mirror Adj.

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
DATALINK POWER	SP528	SP	528	RED		SP528 Datalink Power
AMMETER SHUNT WIRE POSITIVE	SP529	SP	529	PINK		SP529 AMMETER POS
AMMETER SHUNT WIRE NEGATIVE	SP530	SP	530	GREY		SP530 AMMETER NEG
POWER VENT RELAY TO SWITCH	SP531	SP	531	RED		SP531 PWR VENT SW
POWER VENT SWITCHES(S) TO VENT(S)	SP533	SP	533	RED		SP533 PWR VENT
SECONDARY SIGNAL STP LT RELAY	SP534	SP	534	PNK		SP534 SEC SIG STP LT RLY
PROP VALVE	SP535	SP	535	BLK		SP535 PROP VALVE
PROP VALVE	SP536	SP	536	PNK		SP536 PROP VALVE
COOLANT TEMP (+)	SP537	SP	537	PNK		SP537 COOLANT TEMP (+)
COOLANT TEMP (-)	SP538	SP	538	BLK		SP538 COOLANT TEMP (-)
MESSAGE CENTER POWER CONTROL (KYSOR)	SP539	SP	539	ORANGE		SP539 MC PWR CONTR
INSTRUMENT DATA BUS (+) (KYSOR)	SP540	SP	540	PINK		SP540 INSTR DATA +
INSTRUMENT DATA BUS (-) (KYSOR)	SP541	SP	541	GRAY		SP541 INSTR DATA -
GAUGE DATA BUS (KYSOR)	SP542	SP	542	PINK		SP542 GAUGE DATA
VEHICLE DATA COMPUTER POWER (KYSOR)	SP543	SP	543	RED		SP543 VDC PWR
VEHICLE DATA COMPUTER IGNITION (KYSOR)	SP544	SP	544	PINK		SP544 VDC IGN
VEHICLE DATA COMPUTER ACTIVATE (KYSOR)	SP545	SP	545	GRAY		SP545 VDC ACT
FRONT MARKER RELAY TO FRONT MARKER LIGHTS	SP546	SP	546	BROWN		SP546 FT MRKR LT
AIR RESTRICTION SENDER	SP547	SP	547	GRAY		SP547 AIR FILTER
CAB AJAR	SP548	SP	548	GRAY		SP548 CAB AJAR
TV POWER FROM FUSE TO RELAY	SP549	SP	549	PINK		SP549 TV FUSE TO RLY
TV POWER FROM RELAY TO FUSE	SP550	SP	550	PINK		SP550 TV PWR FROM RLY
BACK LIGHTING POWER	SP551	SP	551	RED		SP551 BACK LT PWR
BACK LIGHTING	SP552	SP	552	BROWN		SP552 BACK LT
TAG LFT LGHT ACTIVE	SP553	SP	553	PNK		SP553 TAG LFT LGHT ACTIVE
REVERSE OUTPUT SIG (GRD) AISIN TRANS ONLY	SP554	SP	554	GRY		SP554 REVERSE OUTPUT SIG(GRD)
CLEAN IGN FROM FUSE	SP555	SP	555	PINK		SP555 CLN IGN FRM FUSE
CUST IGN FROM FUSE	SP556	SP	556	PINK		SP556 CUST IGN FRM FUSE
AUD ALARM POS	SP557	SP	557	RED		SP557 AUD ALRM POS
AUX BRAKE SIG TO STOP LIGHT RELAY	SP558	SP	558	PINK		SP558 AUX BRK SIG
AUX BRAKE TO INDICATOR LIGHT	SP559	SP	559	PINK		SP559 AUX BRK IND
CUST ACC FROM FUSE	SP560	SP	560	RED		SP560 CUST ACC FRM FUSE
LIGHT BAR POWER 1	SP561	SP	561	RED		SP561 LTBAR PWR 1
LIGHT BAR SYSTEM 1	SP562	SP	562	RED		SP562 LTBAR SYS 1
LIGHT BAR POWER 2	SP563	SP	563	RED		SP563 LTBAR PWR 2
LIGHT BAR SYSTEM 2	SP564	SP	564	RED		SP564 LTBAR SYS 2
LIGHT BAR SWITCH 1	SP565	SP	565	RED		SP565 LTBAR SW 1
LIGHT BAR SWITCH 2	SP566	SP	566	RED		SP566 LTBAR SW 2
RIGHT TURN SIGNAL FROM SWITCH TO FRONT RELAY	SP567	SP	567	D GREEN		SP567 R TURN SIG FROM SW TO FR RLY

Spartan Motors Chassis, Inc. Circuit Numbers

PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
LEFT TURN SIGNAL FROM SWITCH TO FRONT RELAY	SP568	SP	568	YELLOW		SP568 L TURN SIG FROM SW TO FR RLY
RIGHT TURN FROM RELAY TO LIGHTS	SP569	SP	569	D GREEN		SP569 R TURN FROM RLY TO LIGHTS
LEFT TURN FROM RELAY TO LIGHTS	SP570	SP	570	YELLOW		SP570 L TURN FROM RLY TO LIGHTS
FAN ON/OFF	SP571	SP	571	PINK		SP571 FAN ON/OFF
FAN HIGH/LOW OFF	SP572	SP	572	PINK		SP572 FAN HIGH/LOW OFF
FAN VARIABLE	SP573	SP	573	TAN		SP573 FAN VARIABLE
FAN SIGANL RETURN	SP574	SP	574	BLACK		SP574 FAN SIG RTN
PRIVATE DATABUS POSITIVE	SP575	SP	575	PURPLE		SP575 PRIVATE DATABUS (+)
PRIVATE DATABUS NEGATIVE	SP576	SP	576	GREEN		SP576 PRIVATE DATABUS (-)
CONDENSER POWER FROM SWITCH TO FAN	SP577	SP	577	RED		SP577 CONDENSER PWR FRM SW TO FAN
TRIP ODOMETER RESET	SP578	SP	578	GREY		SP578 TRIP RESET
GAUGE ENGLISH/METRIC SELECT	SP579	SP	579	GREY		SP579 ENGLISH/METRIC
MASTER SWITCH POWER	SP580	SP	580	RED		SP580 MASTER SW
SMART WHEEL/VIP BATTERY POSITIVE	SP581	SP	581	RED		SP581 SMRT WHEEL/VIP B (+)
ROAD RELAY BATTERY POSITIVE	SP582	SP	582	RED		SP582 ROAD RELAY B (+)
WASHER SIGNAL (GROUND)	SP583	SP	583	GREY		SP583 WASHER SIGNAL (-)
WIPER LOW SIGNAL FROM SWITCH	SP584	SP	584	GREY		SP584 WIPER SW LOW
WIPER HIGH SIGNAL FROM SWITCH	SP585	SP	585	GREY		SP585 WIPER SW HIGH
BACK LIGHTING GND	SP586	SP	586	BLK		SP586 BACK LT GND
CAB SPOTLIGHT POWER	SP587	SP	587	RED		SP587 CAB SPOT LT PWR
SPARE RELAY 4 TO J-BLOCK NORNALLY CLOSED	SP588	SP	588	PINK		SP588 RELAY 4 NC
SPARE RELAY 5 TO J-BLOCK NORNALLY CLOSED	SP589	SP	589	PINK		SP589 RELAY 5 NC
POWER TO SPARE RELAY 6	SP590	SP	590	RED		SP590 RELAY 6 PWR
SPARE RELAY 6 TO J-BLOCK NORNALLY CLOSED	SP591	SP	591	PINK		SP591 RELAY 6 NC
SPARE RELAY 6 TO J-BLOCK NORNALLY OPEN	SP592	SP	592	PINK		SP592 RELAY 6 NO
POWER TO SPARE RELAY 7	SP593	SP	593	RED		SP593 RELAY 7 PWR
SPARE RELAY 7 TO J-BLOCK NORNALLY CLOSED	SP594	SP	594	PINK		SP594 RELAY 7 NC
SPARE RELAY 7 TO J-BLOCK NORNALLY OPEN	SP595	SP	595	PINK		SP595 RELAY 7 NO
POWER TO SPARE RELAY 8	SP596	SP	596	RED		SP596 RELAY 8 PWR
SPARE RELAY 8 TO J-BLOCK NORNALLY CLOSED	SP597	SP	597	PINK		SP597 RELAY 8 NC
SPARE RELAY 8 TO J-BLOCK NORNALLY OPEN	SP598	SP	598	PINK		SP598 RELAY 8 NO
POWER TO SPARE RELAY 9	SP599	SP	599	RED		SP599 RELAY 9 PWR
SPARE RELAY 9 TO J-BLOCK NORNALLY CLOSED	SP600	SP	600	PINK		SP600 RELAY 9 NC
SPARE RELAY 9 TO J-BLOCK NORNALLY OPEN	SP601	SP	601	PINK		SP601 RELAY 9 NO
POWER TO SPARE RELAY 10	SP602	SP	602	RED		SP602 RELAY 10 PWR
SPARE RELAY 10 TO J-BLOCK NORNALLY CLOSED	SP603	SP	603	PINK		SP603 RELAY 10 NC
SPARE RELAY 10 TO J-BLOCK NORNALLY OPEN	SP604	SP	604	PINK		SP604 RELAY 10 NO
POWER TO SPARE RELAY 11	SP605	SP	605	RED		SP605 RELAY 11 PWR
SPARE RELAY 11 TO J-BLOCK NORNALLY CLOSED	SP606	SP	606	PINK		SP606 RELAY 11 NC
SPARE RELAY 11 TO J-BLOCK NORNALLY OPEN	SP607	SP	607	PINK		SP607 RELAY 11 NO

Spartan Motors Chassis, Inc. Circuit Numbers

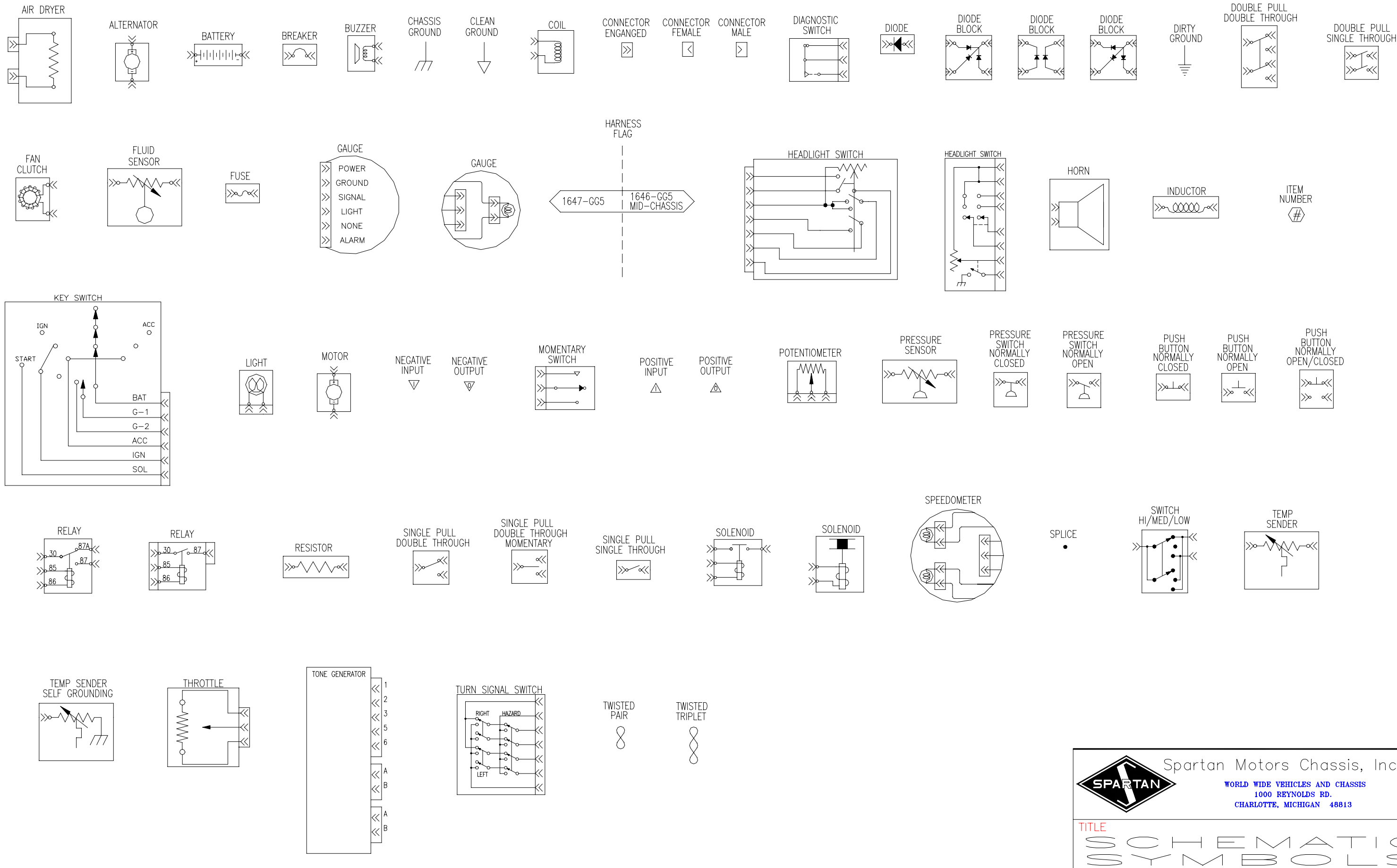
PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
POWER TO SPARE RELAY 12	SP608	SP	608	RED		SP608 RELAY 12 PWR
SPARE RELAY 12 TO J-BLOCK NORNALLY CLOSED	SP609	SP	609	PINK		SP609 RELAY 12 NC
SPARE RELAY 12 TO J-BLOCK NORNALLY OPEN	SP610	SP	610	PINK		SP610 RELAY 12 NO
CUSTOMER 9	SP611	SP	611	YELLOW		SP611 CUSTOMER 9
CUSTOMER 10	SP612	SP	612	YELLOW		SP612 CUSTOMER 10
CUSTOMER 11	SP613	SP	613	YELLOW		SP613 CUSTOMER 11
CUSTOMER 12	SP614	SP	614	YELLOW		SP614 CUSTOMER 12
N SOLENOID, LOW	WT101	WT	101	BLUE	-	WT101 N SOL, LOW
SOLENOID SUPPLY (A, D, J)	WT102	WT	102	ORANGE	-	WT102 SOL SPLY A,D,J
C SOLENOID, LOW	WT103	WT	103	GREEN	-	WT103 C SOL LOW
G SOLENOID, LOW	WT104	WT	104	WHITE	-	WT104 G SOL LOW
TRANS OVERTEMP SIGNAL (-)	WT105	WT	105	GREEN	-	WT105 TRAN OVRTP NEG
TRANSMISSION TO WT ECU	WT106	WT	106	PINK	-	WT106 TRANS TO ECU
SOLENOID SUPPLY (F)	WT107	WT	107	GREEN	-	WT107 SOL SUPPLY F
REMOTE CONTROL SHIFTER	WT108	WT	108	TAN	-	WT108 F SOL, LOW
TRANSMISSION	WT110	WT	110	WHITE	-	WT110 J SOL, LOW
ENGINE OVERSPEED RELAY COIL TO WT ECU	WT112	WT	112	TAN	-	WT112 ENG OVRSPD RLY
REVERSE INDICATOR RELAY COIL TO WT ECU	WT113	WT	113	WHITE	-	WT113 REV IND RLY
RANGE INDICATOR RELAY COIL TO WT ECU	WT114	WT	114	WHITE	-	WT114 RNG IND RLY
DO NOT SHIFT LIGHT	WT115	WT	115	GREEN	-	WT115 CHK TRANS LMP
RETARDER H SOL SUPPLY	WT116	WT	116	YELLOW	-	WT116 RTRDR SOL SPLY
GENERAL PURPOSE INPUT 8	WT117	WT	117	WHITE		WT117 GEN PUR IN 8
AUTOMATIC NEUTRAL	WT118	WT	118	WHITE		WT118 AUTO NEUTRAL
ENGINE BRAKE INPUT TO ECU	WT119	WT	119	YELLOW	-	WT119 EXH BRK INPUT
A SOLENOID, LOW	WT120	WT	120	WHITE	-	WT120 A SOL, LOW
SOLENOID SUPPLY (B,E)	WT121	WT	121	TAN	-	WT121 SOL SPLY B,E
NEUTRAL SAFETY SIGNAL (+)	WT123	WT	123	TAN	-	WT123 NEU SFTY POS
SENSOR POWER	WT124	WT	124	PINK	-	WT124 ECM TO SHFTR
GENERAL PURPOSE OUTPUT 4	WT125	WT	125	WHITE	-	WT125 GEN PUR OUT 4
GENERAL PURPOSE INPUT 9	WT126	WT	126	YELLOW	-	WT126 GEN PUR IN 9
H SOLENOID, LOW	WT127	WT	127	WHITE	-	WT127 H SOL, LOW
B SOLENOID, LOW	WT128	WT	128	ORANGE	-	WT128 B SOL, LOW
E SOLENOID, LOW	WT129	WT	129	TAN	-	WT129 E SOL, LOW
SOLENOID SUPPLY (C, G)	WT130	WT	130	YELLOW	-	WT130 SOL SPLY C, G
D SOLENOID, LOW	WT131	WT	131	BLUE	-	WT131 D SOL, LOW
EXHAUST BRAKE RELAY COIL TO WT ECU	WT132	WT	132	ORANGE	-	WT132 EXH BRK RLY
ANALOG GROUND	WT135	WT	135	GREEN	-	WT135 ANALOG GND
BATTERY POWER	WT136	WT	136	PINK	-	WT136 ECU POWER
GENERAL PURPOSE INPUT 7	WT137	WT	137	ORANGE	-	WT137 SERV BRK STAT
RETARDER TEMP SENSOR INPUT	WT138	WT	138	ORANGE	-	WT138 RTRDR TMP SENS
OUTPUT SPEED SENSOR, HI	WT139	WT	139	YELLOW	twp11	WT139 OTPT SPD SENS

Spartan Motors Chassis, Inc. Circuit Numbers

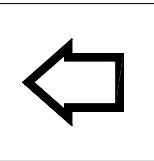
PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
TURBINE SPEED LO	WT140	WT	140	BLUE	twp12	WT140 TURB SPD LO
ENGINE SPEED SENSOR, HI	WT141	WT	141	TAN	twp13	WT141 ENG SPD SEN,HI
SERIAL COMMUNICATION, HI	WT142	WT	142	WHITE		WT142 SERIAL COM POS
ECU GROUND	WT143	WT	143	GRAY	-	WT143 ECU GROUND
CHASSIS GROUND	WT144	WT	144	GRAY	-	WT144 CHASSIS GND
IGNITION SWITCH	WT146	WT	146	YELLOW	-	WT146 IGN SW
SUMP TEMP SENSOR IN	WT147	WT	147	TAN	-	WT147 SMP TMP SEN IN
OUTPUT SPEED SENSOR, LO	WT148	WT	148	GREEN	twp 11	WT148 OTPT SPD SENS
TURBINE SPEED HI	WT149	WT	149	ORANGE	twp12	WT149 TURB SPD HI
ENGINE SPEED SENSOR, LOW	WT150	WT	150	ORANGE	twp13	WT150 ENG SPD SEN LO
J1587 (+)	WT151	WT	151	BLUE		WT151 J1587 POS
ABS INPUT (-)	WT154	WT	154	WHITE	-	WT154 ABS INPUT NEG
NEUTRAL RANGE INHIBIT SWITCH	WT155	WT	155	GREEN	-	WT155 NEU RNG INH SW
THROTTLE POSITION SENSOR	WT156	WT	156	BLUE	-	WT156 THRTL POS SENS
SPEEDOMETER SIGNAL (+)	WT157	WT	157	TAN	-	WT157 SPEEDO SIG POS
LIGHT SWITCH	WT158	WT	158	GRAY	-	WT158 LIGHT SWITCH
DIAGNOSTIC COMMUNICATION LINK	WT159	WT	159	TAN		WT159 COMMUNICATION
REMOTE CONTROL SHIFTER	WT160	WT	160	PINK	-	WT160 REMT SHFTR POS
SIGNAL GROUND	WT161	WT	161	YELLOW	-	WT161 SIG GND
C-3 PRESSURE SWITCH IN	WT162	WT	162	WHITE	-	WT162 C-3 PRES SW IN
GENERAL PURPOSE INPUT 6	WT163	WT	163	BLUE	-	WT163 RTRDR SW
RETARDER REQUEST	WT164	WT	164	YELLOW	-	WT164 RTRDR MOD REQ
OIL LEVEL SENSOR IN	WT165	WT	165	BLUE	-	WT165 OIL LVL SENS
GENERAL PURPOSE OUTPUT 7	WT166	WT	166	TAN		WT166 GEN PUR OUT 7
GENERAL PURPOSE OUTPUT 8	WT167	WT	167	WHITE		WT167 GEN PUR OUT 8
REMOTE CONTROL SHIFTER	WT168	WT	168	GRAY	-	WT168 REMT SHFTR NEG
ENGINE BRAKE	WT169	WT	169	BLUE		WT169 ENGINE BRAKE
PRIMARY SHIFT SELECTOR, DATA BIT 1	WT170	WT	170	ORANGE	-	WT170 SHFT SEL BIT 1
PRIMARY SHIFT SELECTOR, DATA BIT 2	WT171	WT	171	GREEN	-	WT171 SHFT SEL BIT 2
PRIMARY SHIFT SELECTOR, DATA BIT 4	WT172	WT	172	BLUE	-	WT172 SHFT SEL BIT 4
PRIMARY SHIFT SELECTOR, DATA BIT 8	WT173	WT	173	YELLOW	-	WT173 SHFT SEL BIT 8
PRIMARY SHIFT SELECTOR, PARITY	WT174	WT	174	TAN	-	WT174 SHFT SEL PAR
SHIFT SELECTOR MODE INPUT	WT175	WT	175	GREEN	-	WT175 SHF SEL MD IN
GENERAL PURPOSE OUT (-)	WT176	WT	176	ORANGE	-	WT176 GENERL OUT NEG
GENERAL PURPOSE OUT 10	WT177	WT	177	TAN		WT177 GEN PUR OUT 10
GENERAL PURPOSE INPUT 11	WT178	WT	178	ORANGE		WT178 GEN PUR IN 11
ENGINE WATER TEMPERATURE	WT179	WT	179	BLUE		WT179 ENG H2O TEMP
SHIFT SELECTOR DISPLAY	WT180	WT	180	BLUE	-	WT180 SHIFT SEL DISP
DIMMER INPUT A	WT186	WT	186	WHITE		WT186 DIMMER A
DIMMER INPUT B	WT187	WT	187	YELLOW		WT187 DIMMER B

Spartan Motors Chassis, Inc. Circuit Numbers

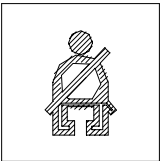
PART DESCRIPTION 1	WIRE PART					PART DESCRIPTION 2
Circuit Definition Primary	Circuit Number	Circuit Prefix	Circuit No.	Color	Special Notes	Circuit Legend
DIMMER GROUND	WT188	WT	188	GREY		WT188 DIMMER GND
SECONDARY SHIFT SELECTOR, DATA BIT 1	WT190	WT	190	ORANGE	-	WT190 SEC SHFT BIT 1
SECONDARY SHIFT SELECTOR, DATA BIT 2	WT191	WT	191	GREEN	-	WT191 SEC SHFT BIT 2
SECONDARY SHIFT SELECTOR, DATA BIT 4	WT192	WT	192	BLUE	-	WT192 SEC SHFT BIT 4
SECONDARY SHIFT SELECTOR, DATA BIT 8	WT193	WT	193	YELLOW	-	WT193 SEC SHFT BIT 8
SECONDARY SHIFT SELECTOR, PARITY	WT194	WT	194	TAN	-	WT194 SEC SHFT PAR
TRANSMISSION ID	WT195	WT	195	YELLOW	-	WT195 TRANS ID



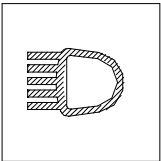
DISPLAY SYMBOL INFORMATION



1. Left Turn



2. Seat Belt

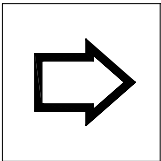


3. High Beam

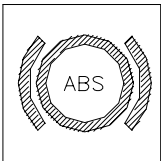


4. Auxiliary Brake

Indicates engine brake or retarder is active. May not be used on all applications.



5. Right Turn



6. ABS

ABS Fault

ABS may be inop., service ASAP.



7. Brake Fluid

Hyd. Brake Fault

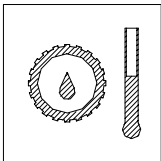
Brakes may be inop., service ASAP.
Wire # SP211



8. Park Brake

Park Brake Set

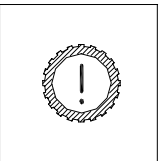
Parking Brakes applied.
Wire # SP068



9. High Trans Temp

High Fluid Temp.

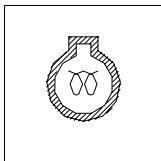
Temperature has exceeded the specified value.
Wire # WT105



10. Do Not Shift

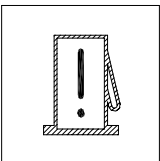
Trans Fault

Shifting limited or restricted, service immediately.
Wire # WT115



11. Wait to Start
Engine Preheat

Wire #EN037



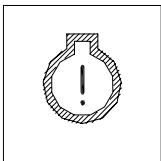
12. Water In Fuel
Water in Fuel

Drain fuel bowl.
Wire #EN038



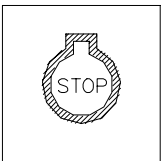
13. Service Engine
Maintenance Monitor

Not available on most vehicles.
Predetermined oil change interval has been reached.
Wire #EN016



14. Engine Warning
Engine Fault

Engine may still be operated, service ASAP.
Wire #EN419



15. Engine Stop
Engine Fault

Engine will shutdown, service immediately.
Wire #EN017

WIRE GAUGE
EQUIVALENCE

AWG		mm ²
20	≡	0.5
18	≡	0.8
16	≡	1
14	≡	2
12	≡	3
10	≡	5
8	≡	8
6	≡	13
4	≡	21
2	≡	34
1	≡	42
0	≡	54
00	≡	67
000	≡	85
0000	≡	105



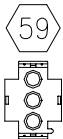
Spartan Motors Chassis, Inc.

WORLD WIDE VEHICLES AND CHASSIS
1000 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813

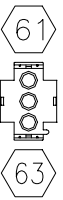
TITLE
WARNING DISPLAY
SYMBOLS & WIRE GAUGE SIZE

1910-GG5 CAB HARNESS CUSTOMER CONNECTIONS

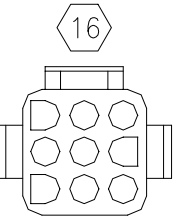
ITEM: 59				
TOW VEH				
AMP : 1-480700-0				
MATING CONN : 1-480701-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP090A	RD	16	TOW VEH POWER
2	SP091	PK	18	HOOD LIGHTS
3	SP090B	RD	14	TOW VEH POWER



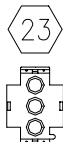
ITEM: 61 THRU 63				
STEP POWER				
AMP : 1-480700-0				
MATING CONN : 1-480701-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
(61) 1	SP121A	RD	14	STEP SW PWR
(62) 2	SP342	BK	14	AUTO STEP A
(63) 3	SP343	BK	14	AUTO STEP B



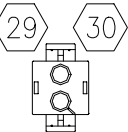
ITEM: 16				
CUSTOMER #2-8				
AMP : 1-480706-0				
MATING CONN : 1-480707-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	---	--	--	---
2	SP324	YW	14	CUSTOMER 2
3	SP325	YW	14	CUSTOMER 3
4	SP326	YW	14	CUSTOMER 4
5	SP327	YW	14	CUSTOMER 5
6	SP328	YW	14	CUSTOMER 6
7	SP329	YW	10	CUSTOMER 7
8	SP330	YW	10	CUSTOMER 8
9	WT157	TN	18	SPEEDO SIG POS



ITEM: 23				
JACK CONTROL				
AMP : 1-480700-0				
MATING CONN : 1-480701-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	---	--	--	---
2	---	--	--	---
3	SP086	RD	14	LEVEL CONT PWR



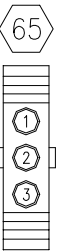
ITEM: 29-30				
CUSTOMER ACC				
AMP : 1-480698-0				
MATING CONN : 1-480699-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
(29)	SP190	RD	10	CUST ACC POS
(30)	SP191	RD	10	CUST ACC IGN



ITEM: 84				
DIAGN SIG/GND				
PACKARD : 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN013	GY	18	DIAGN ON/OFF
B	SP185F	BK	18	GROUND TYPE 1

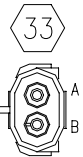


ITEM: 65				
BACKUP CAMERA				
AMP : 770070-1				
MATING CONN : 770071-1				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP006D	BK	18	GROUND TYPE 4
2	SP015	PK	18	B/UP LT ACTIVE
3	---	--	--	---

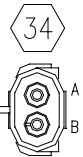


1885-GG5 FRONT HARNESS CUSTOMER CONNECTIONS

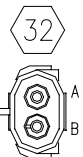
ITEM: 33				
DOCKING LIGHT				
PACKARD: 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP110B	PK	14	DOCK LT SW TO DOCK LT
B	SP006L	BK	14	GROUND TYPE 4



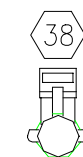
ITEM: 34				
DOCKING LIGHT				
PACKARD: 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP110C	PK	14	DOCK LT SW TO DOCK LT
B	SP006M	BK	14	GROUND TYPE 4



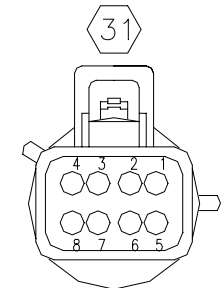
ITEM: 32				
POWER STEP				
PACKARD: 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP342	BK	14	PWR STEP A
B	SP343	BK	14	PWR STEP B



ITEM: 38				
GENERATOR START				
PACKARD : 12015791				
MATING CONN : 12010996				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP340	RD	10	GEN STRT



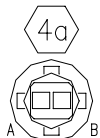
ITEM: 31				
LIGHTS				
FORD : E8EB-14A624-AZA				
MATING CONN. : F4UB-14A464-AFA				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	---	--	--	---
2	---	--	--	---
3	SP061B	RD	14	HDLP HIGH BEAM PWR
4	SP060B	RD	14	HDLP LOW BEAM PWR
5	SP045A	GN	14	RT TURN FROM SW
6	SP063A	RD	14	MKR LT RLY SWD PWR
7	SP044A	YW	14	LFT TRN FROM SW
8	SP050A	PK	16	HRN RLY TO HRN



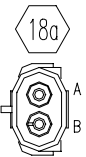
1902-GG5 REAR HARNESS CUSTOMER CONNECTIONS

ITEM: 4a				
LEFT MID MARKER LIGHT				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006A	BK	18	GROUND TYPE 4
B	SP065C	BN	18	REAR MRKR RLY



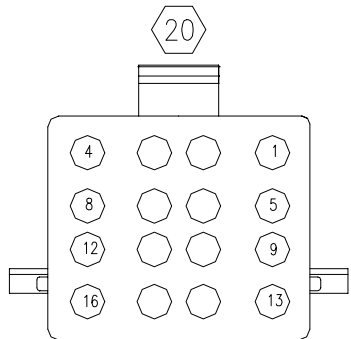
ITEM: 18a				
LEFT DOCKING LIGHTS				
PACKARD : 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP110C	PK	18	DOCK LIGHTS
2	SP006H	BK	18	GROUND TYPE 4



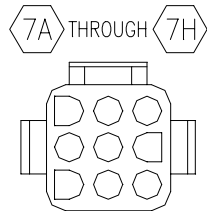
ITEM: 19				
REAR HOODLIGHT				
PACKARD : 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP091	PK	18	HOOD LIGHTS
B	SP006D	BK	18	GROUND TYPE 4



ITEM: 20				
CUSTOMER TAIL LIGHT CONN				
FORD : F2AB-14A464-BA				
MATING CONN : F2AB-14A624-BA				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP090A	RD	14	TOW VEH POWER
2	SP076	RD	14	STP LT-RLY/LT
3	SP065A	BN	14	REAR MRKR RLY
4	SP250	YW	14	L STP/TRN OUT
5	SP090B	RD	14	TOW VEH POWER
6	---	--	--	---
7	SP006G	BK	14	GROUND TYPE 4
8	---	--	--	---
9	SP048	YW	14	LEFT TURN REAR
10	SP015C	PK	14	B/UP LT ACTIVE
11	---	--	--	---
12	---	--	--	---
13	SP047	GN	14	RIGHT TURN REAR
14	---	--	--	---
15	SP251	GN	14	R STP/TRN OUT
16	---	--	--	---

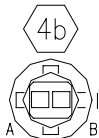


ITEM: 7A THRU 7H				
CUSTOMER #2-8				
AMP - 1-480706-0				
MATING CONN : 1-480707-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1 (A)	SP323	YW	14	CUSTOMER 1-SWITCHED IGN.
2 (B)	SP324	YW	14	CUSTOMER 2
3 (C)	SP325	YW	14	CUSTOMER 3
4 (D)	SP326	YW	14	CUSTOMER 4
5 (E)	SP327	YW	14	CUSTOMER 5
6 (F)	SP328	YW	14	CUSTOMER 6
7 (G)	SP329	YW	10	CUSTOMER 7
8 (H)	SP330	YW	10	CUSTOMER 8
9	---	--	--	---

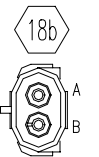


ITEM: 4b				
RIGHT MID MARKER LIGHT				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006K	BK	18	GROUND TYPE 4
B	SP065B	BN	18	REAR MRKR RLY

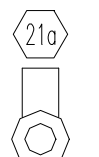


ITEM: 18b				
RIGHT DOCKING LIGHTS				
PACKARD : 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP110B	PK	18	DOCK LIGHT
2	SP006E	BK	18	GROUND TYPE 4



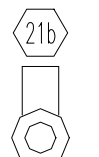
ITEM: 21a				
BACK UP ALARM (+)				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
21a	SP015D	PK	18	B/UP LT ACTIVE



ITEM: 21b				
BACK UP ALARM (-)				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
21b	SP006F	BK	18	GROUND TYPE 4



REV:	INITIAL	RELEASE	02/14/01	BLC
REV:	REVISION DESCRIPTION		REVISION DATE	REVISION BY

ENGINEER:	BRUCE CASE
DRAWING BY:	BRUCE CASE

TITLE:	REAR CHASSIS W/O J1939
	ISB, ISC MM IC

DRAWING NUMBER:	MM CUST. CONNECTIONS
PAGE:	1 OF 1
REV:	A

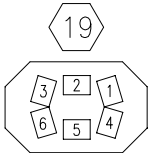
Spartan Motors Chassis, Inc.



WORLD WIDE VEHICLES AND CHASSIS
1000 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813

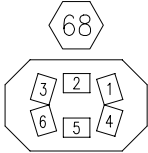
ITEM: 19				
EXH. BRAKE ON/OFF				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	WT119	YW	18	EXH BRK INPUT
2	SP055B	PK	12	IGN SW IGN ACT
3	---	---	---	---
4	EN014	GY	18	ENG BRK ON/OFF
5	SP185H	BK	18	GROUND TYPE 1
6	---	---	---	---



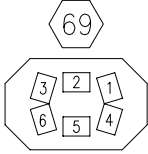
ITEM: 68				
JAKE BRAKE ON/OFF				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	WT143C	GY	18	SERIAL COM POS
2	WT169	BE	18	ENGINE BRAKE
3	---	---	---	---
4	EN979B	GY	18	ENG BRAKE LOW
5	SP195	GY	16	JAKE RLY TO SW
6	---	---	---	---



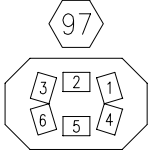
ITEM: 69				
JAKE BRAKE HI/LOW				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	EN979C	GY	18	ENG BRAKE LOW
2	EN583	PK	16	ENG BRAKE MED
3	---	---	---	---
4	---	---	---	---
5	---	---	---	---
6	---	---	---	---



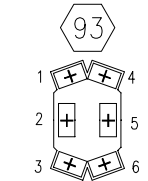
ITEM: 97				
TAG DUMP				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP360A	PK	16	TAG DUMP
2	SP360B	PK	16	TAG DUMP
3	---	---	---	---
4	---	---	---	---
5	---	---	---	---
6	---	---	---	---



ITEM: 93				
IDLE INC/DEC				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	EN023	GY	18	IDLE INCR SIG
2	SP185G	BK	18	GROUND TYPE 1
3	EN022	GY	18	IDLE DECR SIG
4	---	---	---	---
5	---	---	---	---
6	---	---	---	---



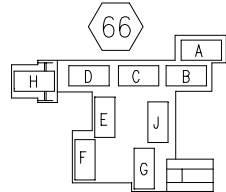
ITEM: 67				
DM LT SWD GND				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP062	BK	16	DOVE LT SW GND



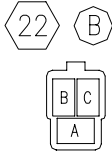
ITEM: 66				
HEAD LT SW				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP058	RD	14	HDLMP PWR
B	SP062	BK	16	DOVE LT SW GND
C	SP009B	RD	16	DSH LP PWR
D	SP009	RD	16	DASH LP PWR
E	SP001	PK	18	HDLP SW TO MRK
F	SP008	RD	18	MRKR LT PWR FT
G	---	---	---	---
H	SP006B	BK	16	GROUND TYPE 4
J	SP200	BK	14	HDLP SW FL RLY



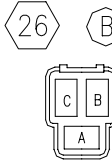
ITEM: 22				
DIMMER SWITCH				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP009	RD	16	DASH LAMP PWR
B	SP009F	RD	16	DASH LAMP PWR
C	SP009B	RD	16	DASH LAMP PWR



ITEM: 26				
JUMPER FOR STEWART WARNER				

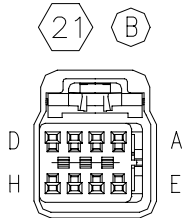
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	---	---	---	---
B	A01	RD	16	DASH LAMP PWR
C	A01	RD	16	DASH LAMP PWR



ATTACH JUMPER FOR STEWART WARNER GAUGES.

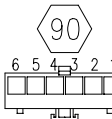
ITEM: 21				
AMETEK DIXSON GAUGES				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP009K	RD	18	DASH LAMP PWR
B	SP020R	RD	18	INSTRUMENT PWR
C	SP183	RD	18	TYPE 1 BATT.
D	SP270N	BK	18	GROUND TYPE 2
E	SP209E	PK	18	J1587 POSITIVE
F	SP210E	GY	18	J1587 NEGATIVE
G	SP575	PE	18	PRIVATE DATA BUS POSITIVE
H	SP576	GN	16	PRIVATE DATA BUS NEGATIVE

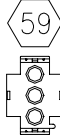


ITEM: 90				
GAUGE DEMUX INPUT				

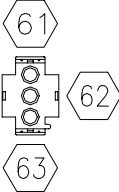
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP020P	RD	14	INSTRUMENT PWR
2	SP009J	RD	18	DSH LP PWR
3	SP209C	PK	18	J1587 POS
4	SP210C	GY	18	J1587 NEG
5	---	---	---	---
6	SP270H	BK	18	GROUND TYPE 2



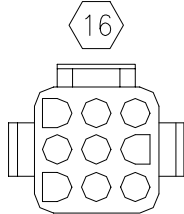
ITEM: 59				
TOW VEH				
AMP : 1-480700-0				
MATING CONN : 1-480701-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP090A	RD	16	TOW VEH POWER
2	SP091	PK	18	HOOD LIGHTS
3	SP090B	RD	14	TOW VEH POWER



ITEM: 61 THRU 63				
STEP POWER				
AMP : 1-480700-0				
MATING CONN : 1-480701-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
(61) 1	SP121A	RD	14	STEP SW PWR
(62) 2	SP342	BK	14	AUTO STEP A
(63) 3	SP343	BK	14	AUTO STEP B

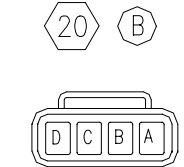


ITEM: 16				
CUSTOMER #2-8				
AMP : 1-480700-0				
MATING CONN : 1-480699-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	---	---	---	---
2	SP324	YW	14	CUSTOMER 2
3	SP325	YW	14	CUSTOMER 3
4	SP326	YW	14	CUSTOMER 4
5	SP327	YW	14	CUSTOMER 5
6	SP328	YW	14	CUSTOMER 6
7	SP329	YW	10	CUSTOMER 7
8	SP330	YW	10	CUSTOMER 8
9	WT157	TN	18	SPEEDO SIG POS



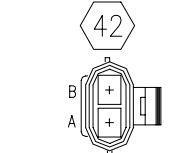
ITEM: 20				
VIP W/ BACKLIGHTING				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP332C	YW	18	VIP DATA POSITIVE
B	SP331C	BN	18	VIP DATA NEGATIVE
C	SP586	BK	18	BACKLIGHT GROUND
D	SP551	RD	18	BACKLIGHT PWR

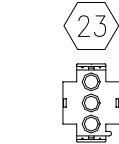


ITEM: 42				
VIP DATALINK WO/BACKLIGHTING				

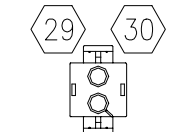
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP332B	YW	18	VIP DATA LINK POSITIVE
B	SP331B	BN	18	VIP DATA LINK NEGATIVE



ITEM: 23				
JACK CONTROL				
AMP : 1-480700-0				
MATING CONN : 1-480701-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	---	---	---	---
2	---	---	---	---
3	SP086	RD	14	LEVEL CONT PWR



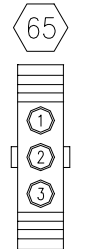
ITEM: 29-30				
CUSTOMER ACC				
AMP : 1-480698-0				
MATING CONN : 1-480699-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
(29)	SP190	RD	10	CUST ACC POS
(30)	SP191	RD	10	CUST ACC IGN



ITEM: 84				
DIAGN SIG/GND				
PACKARD : 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN013	GY	18	DIAGN ON/OFF
B	SP185F	BK	18	GROUND TYPE 1



ITEM: 65				
BACKUP CAMERA				
AMP : 770070-1				
MATING CONN : 770071-1				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP006D	BK	18	GROUND TYPE 4
2	SP015	PK	18	B/UP LT ACTIVE
3	---	---	---	---



REV:	DESCRIPTION	REVISION DATE	REVISION BY
B	ADDED AMETEK DIXSON GAUGES, BACKLIGHTED-VIP, DIMMER SW, ADDED ABS BLINKCODE SW	5/21/01	JDT
A	INITIAL RELEASE	08/21/00	JWY

ENGINEER:	BRUCE CASE
DRAWING BY:	JOSHUA YEATES

TITLE:	ISM, ISB, ISC w/ROADRELAY CAB HARNESS
--------	---------------------------------------

DRAWING NUMBER:	1910-GG10B
PAGE:	3 OF 3
REV:	B

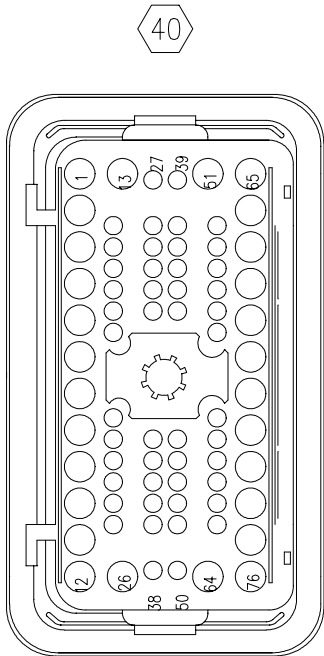
Spartan Motors Chassis, Inc.



WORLD WIDE VEHICLES AND CHASSIS
1000 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813

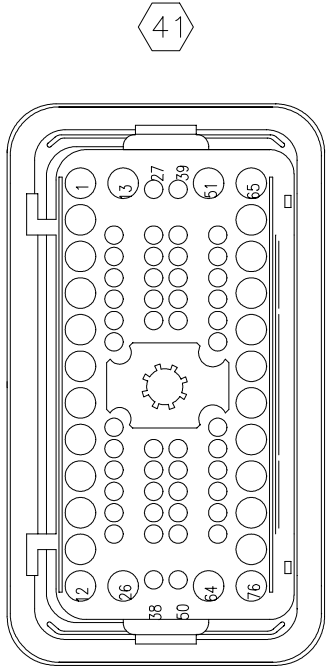
ITEM: 40									
CAB INTERCONNECT									
WHITE									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	---	--	--	---	39	WT157	TN	18	SPEEDO SIG POS
2	SP191	RD	10	CUST ACC IGN SWD	40	---	--	--	---
3	SP094	RD	14	WIPER POWER	41	---	--	--	---
4	---	--	--	---	42	---	--	--	---
5	SP190	RD	10	CUST ACC LIVE	43	---	--	--	---
6	SP121A	RD	14	STEP SW PWR	44	004	YW	14	004
7	SP086	RD	14	FS #21 TO LVL CONT	45	---	--	--	---
8	SP059	RD	14	HDLP PWR TO HIGH LOW SW	46	SP360A	PK	16	TAG DUMP
9	---	--	--	---	47	SP360B	PK	16	TAG DUMP
10	---	--	--	---	48	---	--	--	---
11	---	--	--	---	49	---	--	--	---
12	---	--	--	---	50	SP200	BK	14	HDLP SW TO RLY
13	SP090B	RD	14	FS #37 TO TOW VEH	51	---	--	--	---
14	SP091	PK	18	DA SW TO RR HOOD LT	52	---	--	--	---
15	SP090A	RD	14	FS #37 TO TOW VEH	53	EN014	GY	18	ENG BRK ON/OFF
16	SP342	BK	14	PWR STEP A	54	EN583	PK	18	ENG BRAKE MED
17	SP343	BK	14	PWR STEP B	55	---	--	--	---
18	SP331	BN	18	VIP DATALINK (-)	56	SP195	GY	16	JAKE RLT TO ON/OFF SW
19	SP332	YW	18	VIP DATALINK (+)	57	WT169	BK	14	ENGINE BRAKE
20	SP122	BK	18	HRN LT SW TO AIR HRN SOL	58	---	--	--	---
21	WT115	GN	18	DO NOT SHIFT LT	59	SP324	YW	14	CUSTOMER 2
22	SP020	RD	14	INST PWR	60	SP325	YW	14	CUSTOMER 3
23	SP042	RD	14	FLSHR OUT	61	SP326	YW	14	CUSTOMER 4
24	SP043	RD	18	T/SIG CORNER LT PWR	62	SP327	YW	14	CUSTOMER 5
25	SP058	RD	14	HDLP PWR TO SW	63	SP328	YW	14	CUSTOMER 6
26	SP006C	BK	10	GROUND TYPE 4	64	SP329	YW	10	CUSTOMER 7
27	SP551	RD	18	VIP BACK-LIGHTING (+)	65	SP330	YW	10	CUSTOMER 8
28	SP586	BK	18	VIP BACK-LIGHTING (-)	66	---	--	--	---
29	---	--	--	---	67	---	--	--	---
30	---	--	--	---	68	---	--	--	---
31	---	--	--	---	69	---	--	--	---
32	SP183B	RD	14	TYPE 1 BATT	70	---	--	--	---
33	---	--	--	---	71	001	YW	10	001
34	SP192A	RD	16	CUST ACCESSES ACC SWD	72	002	YW	10	002
35	SP192B	RD	16	CUST ACCESSES ACC SWD	73	---	--	--	---
36	---	--	--	---	74	---	--	--	---
37	SP575	PE	18	PRIVATE DATA BUS (+)	75	---	--	--	---
38	SP576	GN	18	PRIVATE DATA BUS (-)	76	---	--	--	---



ITEM: 41									
CAB INTERCONNECT									
BLACK									

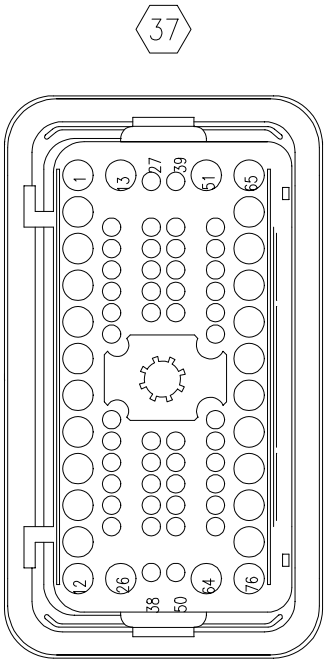
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP105	RD	10	FS #25 TO HTR	39	EN541A	PK	18	SET COAST
2	---	--	--	---	40	EN545A	PK	18	CRUZ REC/ACC
3	SP106	RD	10	FS #42 TO HTR	41	SP109	RD	14	FS #22 TO DOCK LT SW
4	---	--	--	---	42	SP210A	GY	18	J1587 (-)
5	---	--	--	---	43	SP024A	PK	18	STOP PRESS SW SIG 1
6	---	--	--	---	44	---	--	--	---
7	---	--	--	---	45	SP110D	PK	14	DOCK LT SW TO DOCK LT
8	---	--	--	---	46	SP213	TN	18	AIR 1 SDR TO GA
9	---	--	--	---	47	EN952	GY	18	TRTL SEN GND
10	---	--	--	---	48	SP001	PK	16	HDLGT SW TO MKR LT RLY
11	---	--	--	---	49	SP101	RD	14	T/SIG PWR
12	---	--	--	---	50	SP054	PK	16	IGN SW TO ACC RLY COIL
13	SP055C	PK	12	IGN SW IGN ACTV	51	SP051	GY	18	HRN BUT HRN RLY
14	SP007	RD	18	AC CLU SWD PWR	52	SP050E	PK	16	HRN RLY TO HRN
15	EN016	GY	18	ENG FLUIDS SIG	53	WT124A	PK	18	SEN PWR
16	EN017	GY	18	ENG STP SIG	54	WT175	GN	18	SHFT SEL MODE INPUT
17	EN038	GY	18	WIF LT	55	WT180	BE	18	SHFT SEL DISPLAY
18	EN419	PK	18	CHK ENG LT	56	WT174	TN	18	PRIM SHFT SEL, PARITY
19	EN013	GY	18	DIAGN ON/OFF SIG	57	WT173	YW	18	PRIM SHFT SEL, DATA BIT 8
20	WT105	GN	18	TRANS OTEMP SIG(-)	58	WT172	BE	18	PRIM SHFT SEL, DATA BIT 4
21	WT136A	PK	18	ECU PWR	59	WT171	GN	18	PRIM SHFT SEL, DATA BIT 2
22	EN020	GY	18	OFF IDL SIG	60	WT170	OE	18	PRIM SHFT SEL, DATA BIT 1
23	SP015	PK	16	B/U LT FROM RLY	61	WT176	OE	18	GENERAL PURPOSE OUT (-)
24	EN021	GY	18	IDL SIG	62	WT143	GY	18	ECU GND
25	SP003	BK	18	ABD DA LT GND	63	WT119	YW	18	ENG BRK REQ
26	---	--	--	---	64	SP006B	BK	10	GROUND TYPE 4
27	---	--	--	---	65	SP270C	BK	10	GROUND TYPE 2
28	EN037	GY	18	WAIT TO START LT	66	---	--	--	---
29	SP214	TN	18	AIR 2 SDR TO GA	67	SP226	GN	18	T/SIG SW TO RR RLY
30	SP209A	PK	18	J1587 (+)	68	SP044C	YW	14	LFT TRN ON FROM SW
31	EN544A	PK	18	CRUZ ENABLE	69	SP227	YW	18	T/SIG SW TO RR RLY
32	EN022	GY	18	IDL DECR SIG	70	---	--	--	---
33	EN023	GY	18	IDL INCR SIG	71	SP185B	BK	14	GROUND TYPE 1
34	EN034	PK	18	TPS +5V	72	SP045C	GN	14	RT TRN FROM SW
35	EN916	PK	18	TRTL SEN SPLY	73	SP056	PK	18	IGN STRT TO NEU SAF COIL
36	SP068	GY	18	PB SET TO LT	74	SP060A	RD	14	HDLP LOW BEAM PWR
37	SP008	RD	16	MKR LGT PWR FT	75	SP053	BK	12	IGN PWR
38	SP040C	TN	18	FUEL SDR SIG	76	SP061A	RD	14	HDLP HIGH BEAM PWR



			ENGINEER:	TITLE:			DRAWING NUMBER:			Spartan Motors Chassis, Inc. WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813						
B	UPDATED TITLE BLOCK		08/15/00	CDT	BRUCE CASE			FRONT CHASSIS					1885-GG10			
A	INITIAL RELEASE		04/20/00	JWY	DRAWING BY:			ISB & ISC W/O J1939					PAGE: 1 OF 4			
REV:	REVISION DESCRIPTION		REVISION DATE	REVISION BY	JOSHUA YEATES						REV: D					

ITEM: 37									
FRONT PDC									
BLACK									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP105	RD	10	FS #25 TO HTR	39	SP025A	RD	18	STOP CIRC FRT PWR
2	SP192A	RD	16	CUST ACCESSES ACC SWD	40	WT114	WE	18	RANGE IND RLY COIL
3	SP106	RD	10	FS #42 TO HTR	41	SP209	RD	14	FS #22 TO DOCK LT SW
4	SP192B	RD	16	CUST ACCESSES ACC SWD	42	----	--	--	----
5	SP092	RD	10	D/SEAT PWR	43	SP024B	PK	18	STOP PRESS SW SIG 1
6	----	--	--	----	44	----	--	--	----
7	SP093	RD	10	CAPTIAN SEAT PWR	45	----	--	--	----
8	----	--	--	----	46	SP360A	PK	16	TAG DUMP
9	----	--	--	----	47	----	--	--	----
10	----	--	--	----	48	SP001	PK	16	HDLGT SW TO MKR LT RLY
11	----	--	--	----	49	SP101	RD	14	T/SIG PWR
12	SP059	RD	14	HDLP PWR TO HIGH LOW SW	50	SP054	PK	16	IGN SW TO ACC RLY COIL
13	SP055B	PK	12	IGN SW IGN ACTV	51	SP051	GY	18	HRN BUT TO HRN RLY
14	----	--	--	----	52	SP050B	PK	14	HRN RLY TO HRN
15	----	--	--	----	53	----	--	--	----
16	----	--	--	----	54	----	--	--	----
17	EN541A	PK	18	SET COAST	55	----	--	--	----
18	EN545A	PK	18	CRUZ RES/ACC	56	----	--	--	----
19	EN544A	PK	18	CRUZ ENABLE	57	SP020A	RD	14	INST PWR
20	SP086	RD	14	FS #21 TO LVL CONT	58	SP042	RD	14	FLSHR OUT
21	EN011A	GY	18	BRK SW SIG	59	SP043	RD	18	T/SIG CORNER LT PWR
22	EN541	PK	18	SET COAST	60	SP058	RD	14	HDLP PWR TO SW
23	EN545	PK	18	CRUZ RES/ACC	61	----	--	--	----
24	EN544	PK	18	CRUZ ENABLE	62	----	--	--	----
25	SP551	RD	18	VIP BACK--LIGHTING (+)	63	----	--	--	----
26	SP586	BK	18	VIP BACK--LIGHTING (-)	64	SP121A	RD	14	STEP SW PWR
27	WT155	GN	18	NEU RANGE INHBIT SW	65	----	--	--	----
28	SP323	YW	14	CUSTOMER 1	66	----	--	--	----
29	SP200	BK	14	HDLP SW TO RLY	67	SP191	RD	10	CUST ACC IGN SWD
30	SP331	BN	18	VIP DATALINK (-)	68	SP341	RD	10	VAC PMP PWR
31	SP332	YW	18	VIP DATALINK (+)	69	SP063C	RD	14	MRK LT RLY SWD PWR
32	SP060C	RD	14	HDLP LOW BEAM PWR	70	----	--	--	----
33	SP061C	RD	14	HDLP HIGH BEAM PWR	71	SP453	GN	10	SEAT AIR 1
34	SP068	GY	18	PB SET TO LT	72	SP340	RD	10	GEN START
35	----	--	--	----	73	SP094	RD	14	WIPER POWER
36	----	--	--	----	74	SP190	RD	10	CUST ACC LIVE
37	SP008	RD	16	MKR LGT PWR FT	75	SP454	GN	10	SEAT AIR 2
38	SP185C	BK	18	GROUND TYPE 1	76	SP066A	RD	12	MSTRE EJCTR PWR



ITEM: 35				
VACUUM POWER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP341	RD	10	VAC PMP PWR

ITEM: 47				
TAG DUMP				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP360B	PK	16	TAG DUMP

ITEM: 48				
TAG DUMP				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006U	BK	16	GROUND TYPE 4

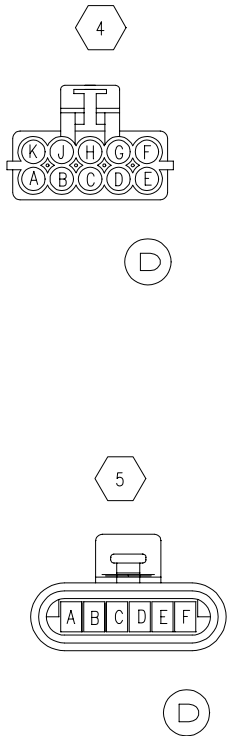
ITEM: 39				
GROUND				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006B	BK	8	GROUND TYPE 4
A	SP006C	BK	10	GROUND TYPE 4
A	SP006D	BK	10	GROUND TYPE 4
A	SP006F	BK	10	GROUND TYPE 4
A	SP006G	BK	10	GROUND TYPE 4
A	SP006L	BK	12	GROUND TYPE 4
A	SP006M	BK	14	GROUND TYPE 4
A	SP006N	BK	14	GROUND TYPE 4
A	SP006P	BK	18	GROUND TYPE 4
A	SP006T	BK	12	GROUND TYPE 4
A	SP006U	BK	18	GROUND TYPE 4

ITEM: 4	
RFIM E3	
12065425	
PACKARD	
CAVITY	CIRCUIT
A	SP020B
B	PLUG
C	PLUG
D	SP576
E	SP209B
F	SP210B
G	SP575
H	PLUG
J	PLUG
K	SP270B

ITEM: 5	
RFIM E4	
12066317	
PACKARD	
CAVITY	CIRCUIT
A	SP040B
B	PLUG
C	A02
D	A02
E	A01
F	A01

ITEM:6	
DESCRIPTION	
12033769	
PACKARD	
CAVITY	CIRCUIT
A	SP183A
B	SP183B



ITEM: 33				
DOCKING LIGHT				
PACKARD: 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP110B	PK	14	DOCK LT SW TO DOCK LT
B	SP006L	BK	14	GROUND TYPE 4

ITEM: 34				
DOCKING LIGHT				
PACKARD: 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP110C	PK	14	DOCK LT SW TO DOCK LT
B	SP006M	BK	14	GROUND TYPE 4

ITEM: 32				
POWER STEP				
PACKARD: 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP342	BK	14	PWR STEP A
B	SP343	BK	14	PWR STEP B

ITEM: 38				
GENERATOR START				
PACKARD : 12015791				
MATING CONN : 12010996				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP340	RD	10	GEN STRT

ITEM: 31				
LIGHTS				
FORD : E8EB-14A624-AZA				
MATING CONN. : F4UB-14A464-AFA				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	----	--	--	----
2	----	--	--	----
3	SP061B	RD	14	HDLP HIGH BEAM PWR
4	SP060B	RD	14	HDLP LOW BEAM PWR
5	SP045A	GN	14	TR TRN FROM SW
6	SP063A	RD	14	MKR LT RLY SWD PWR
7	SP044A	YW	14	LFT TRN ON FROM SW
8	SP050A	PK	16	HRN RLY TO HRN

ITEM:3	
BATT (+)	
3/8" RING	

CAVITY	CIRCUIT
A	SP183A

UPDATE TO NEW REV	6/20/01	EDG	ENGINEER:	TITLE:	DRAWING NUMBER:	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813
UPDATED TITLE BLOCK	08/15/00	CDT	BRUCE CASE	FRONT CHASSIS	1885-GG10E	
INITIAL RELEASE	04/20/00	JWY	DRAWING BY:	ISB & ISC W/O J1939	PAGE: 2 OF 4	
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY	JOSHUA YEATES	E	

ITEM: 12				
FRONT RIGHT ABS SENSOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
(A) BR	SP242	BN	18	ABS 1 SENS R1
(B) BL	SP243	BK	18	ABS 1 SENS R2



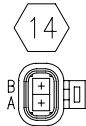
ITEM: 13				
FRONT RIGHT ABS VALVE				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
(1) RED	SP249	RD	16	ABS 1 VLV R O/L
(2) BL	SP247	BK	16	ABS 1 VLV R COM
(3) YEL	SP248	YW	16	ABS 1 VLV R I/L



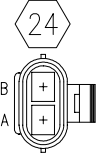
ITEM: 14				
FUEL SENDER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP270F	BK	18	GROUND TYPE 2
B	SP040A	TN	18	FUEL SDR SIG



ITEM: 24				
STOP BRAKE SWITCH				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP025C	RD	18	STOP CIRC FRT PWR
B	SP024D	PK	18	STOP PRESS SW SIG 1



ITEM: 46				
SEAT AIR 2				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP454	GN	10	SEAT AIR 2



ITEM: 45				
SEAT AIR 2				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006S	BK	10	GROUND TYPE 4



ITEM: 15				
CAPTAIN'S SEAT				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP093	RD	10	CAPTAIN SEAT PWR



ITEM: 16				
CAPTAIN'S SEAT				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006F	BK	10	GROUND TYPE 4



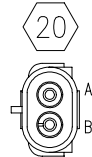
ITEM: 36				
VACUUM POWER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006P	BK	12	GROUND TYPE 4



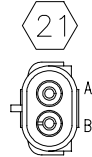
ITEM: 20				
MOISTURE EJECTOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP066B	RD	14	MSTRE EJECTR PWR
B	SP006H	BK	14	GROUNDTYPE 4



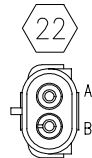
ITEM: 21				
MOISTURE EJECTOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP066C	RD	14	MSTRE EJECTR PWR
B	SP006J	BK	14	GROUND TYPE 4



ITEM: 22				
MOISTURE EJECTOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP066D	RD	14	MSTRE EJECTR PWR
B	SP006K	BK	14	GROUND TYPE 4



ITEM: 30				
AIR HORN				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
FAST1	SP122	BK	18	HRN LT SW TO AIR HRN SOL



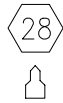
ITEM: 43				
AIR HORN				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
FAST1	SP006N	BK	18	GROUND TYPE 4



ITEM: 28				
HORN				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
FAST1	SP050C	PK	16	HRN RLY TO HRN
FAST1	SP050D	PK	16	HRN RLY TO HRN



ITEM: 29				
HORN				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
FAST1	SP050D	PK	16	HRN RLY TO HRN



ITEM: 26				
AIR 2 SENDER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP270E	BK	18	GROUND TYPE 2
B	SP214	TN	18	AIR 2 SDR TO GA



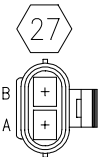
ITEM: 25				
AIR 1 SENDER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP270D	BK	18	GROUND TYPE 2
B	SP213	PK	18	AIR 1 SDR TO GA



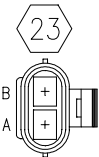
ITEM: 27				
IS BRAKE SWITCH				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN011	GY	18	BRK SW SIG
B	EN011A	GY	18	BRK SW SIG



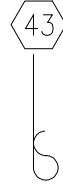
ITEM: 23				
STOP PRESS SWITCH				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP025B	RD	18	STOP CIRC FRT PWR
B	SP024C	PK	18	STOP PRESS SW SIG 1



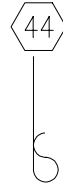
ITEM: 43				
SEAT AIR 1				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
BLUNT1	SP453	GN	10	SEAT AIR 1



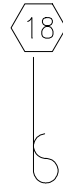
ITEM: 44				
SEAT AIR 1				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
BLUNT1	SP006R	BK	10	GROUND TYPE 4



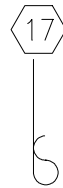
ITEM: 18				
DRIVER'S SEAT				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
BLUNT1	SP006D	BK	10	GROUND TYPE 4



ITEM: 17				
DRIVER'S SEAT				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
BLUNT1	SP092	RD	10	D/SEAT PWR



ITEM: 7				
FRONT LEFT ABS SENSOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
(A) BR	SP241	BN	18	ABS 1 SENS L1
(B) BL	SP240	BK	18	ABS 1 SENS L2



ITEM: 8				
FRONT LEFT ABS VALVE				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
(1) RED	SP246	RD	16	ABS 1 VLV L O/L
(2) BL	SP244	BK	16	ABS 1 VLV L COM
(3) YEL	SP245	YW	16	ABS 1 VLV I/L



E	UPDATE TO NEW REV
B	UPDATED TITLE BLOCK
A	INITIAL RELEASE
REV:	REVISION DESCRIPTION

6/20/01	EDG
08/15/00	CDT
04/20/00	JWY
REVISION DATE	REVISION BY

ENGINEER:	BRUCE CASE
DRAWING BY:	JOSHUA YEATES

TITLE:	FRONT CHASSIS
	ISB & ISC W/O J1939

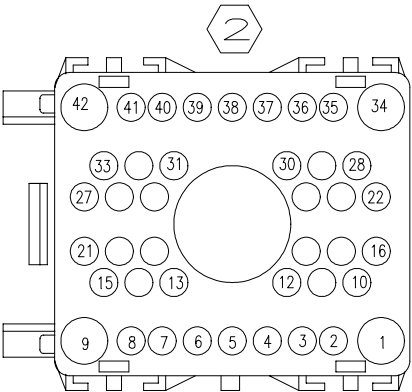
DRAWING NUMBER:	1885-GG10E
PAGE:	3 OF 4
REV:	E

Spartan Motors Chassis, Inc.

WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813

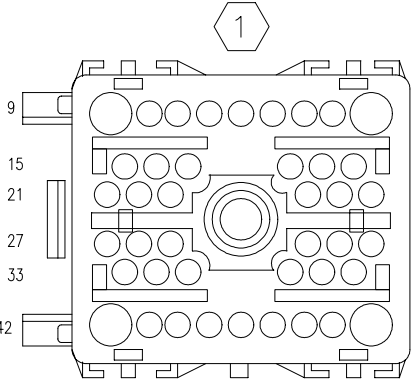
ITEM: 2									
MID-CHASSIS INTERCONNECT									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP055A	PK	12	IGN SW IGN ACTV	22	SP241	BN	18	ABS 1 SENS L1
2	SP007	RD	18	AC CLU SWD PWR	23	SP226	GN	18	T/SIG SW TO RR RLY
3	EN545	PK	18	CRUZ RES/ACC	24	SP248	YW	16	ABS 1 VLV R I/L
4	EN023	GY	18	IDL INCR SIG	25	SP245	YW	16	ABS 1 VLV L I/L
5	SP110A	PK	14	DOCK LT SW TO DOCK LT	26	SP227	YW	18	T/SIG SW TO RR RLY
6	EN022	GY	18	IDL DECR SIG	27	SP044B	YW	16	LFT TRN ON FROM SW
7	SP324	YW	14	CUSTOMER 2	28	SP240	BK	18	ABS 1 SENS L2
8	EN038	GY	18	WIF LT	29	SP247	BK	16	ABS 1 VLV R COM
9	SP053	BK	12	IGN PWR	30	SP249	RD	16	ABS 1 VLV R I/L
10	SP242	BN	18	ABS 1 SENS R1	31	SP246	RD	16	ABS 1 VLV L O/L
11	SP325	YW	14	CUSTOMER 3	32	SP244	BK	16	ANS 1 VLV L COM
12	WT114	WE	18	RANGE IND RLY COIL	33	WT155	GN	18	NEU RANGE INHIBIT SW
13	WT136A	PK	18	ECU PWR	34	SP329	YW	10	CUSTOMER 7
14	SP003	BK	18	ABS DA LT GND	35	SP024E	PK	18	STOP PRESS SW SIG 1
15	SP326	YW	14	CUSTOMER 4	36	SP323	YW	14	CUSTOMER 1
16	SP243	BK	18	ABS 1 SENS R2	37	WT169	BK	14	ENGINE BRAKE
17	EN013	GY	18	DIAGN ON/OFF SIG	38	004	YW	14	004
18	EN037	GY	18	WAIT TO STRT LT	39	EN583	PK	18	ENG BRAKE MED
19	SP327	YW	14	CUSTOMER 5	40	WT115	GN	18	DO NOT SHIFT LT
20	SP328	YW	14	CUSTOMER 6	41	SP056	PK	18	IGN STRT TO NEU SAF COIL
21	WT172	BK	18	PRIM SHFT SEL, DATA BIT 4	42	SP330	YW	10	CUSTOMER 8



ITEM: 1									
MID-CHASSIS INTERCONNECT									

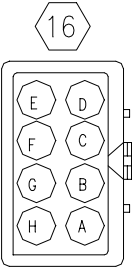
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP091	PK	18	DA SW TO RR HOOD LT	22	SP210A	GY	18	J1587 (-)
2	SP090B	RD	14	FS #37 TO TOW VEH	23	EN016	GY	18	ENG FLUIDS SIG
3	----	--	--	----	24	EN916	PK	18	TRTL SEN SPLY
4	----	--	--	----	25	SP185A	BK	14	GROUND TYPE 4
5	----	--	--	----	26	EN011	GY	18	BRK SW SIG
6	----	--	--	----	27	SP015	PK	16	B/U LT FROM RLY
7	----	--	--	----	28	SP209A	PK	18	J1587 (+)
8	SP090A	RD	14	FS #37 TO TOW VEH	29	EN034	PK	18	TPS +5V
9	SP270A	BK	10	GROUND TYPE 2	30	EN952	GY	18	TRTL SEN GND
10	EN017	GY	18	ENG STP SIG	31	EN014	GY	18	ENG BRK ON/OFF
11	WT124A	PK	18	SEN PWR	32	EN020	GY	18	OFF IDL SIG
12	WT175	GN	18	SHFT SEL MODE INPUT	33	WT105	GN	18	TRANS OTEMP SIG (-)
13	WT180	BK	18	SHFT SELDISPLAY	34	001	YW	10	001
14	WT174	TN	18	PRIM SHFT SEL PARITY	35	EN541	PK	18	SET COAST
15	WT173	YW	18	PRIM SHFT SEL DATA BIT 8	36	SP045B	GN	16	RT TRN FROM SW
16	EN419	PK	18	CHK ENG LT	37	SP063B	RD	16	MKR LT RLY SWD PWR
17	WT171	GN	18	PRIM SHFT SEL DATA BIT 2	38	WT157	TN	18	SPEEDO SIG POS
18	WT170	OE	18	PRIM SHFT SEL DATA BIT 1	39	EN544	PK	18	CRUZ ENABLE
19	WT176	OE	18	GENERAL PURPOSE OUT (-)	40	EN021	GY	18	IDL SIG
20	WT143	GY	18	ECU GND	41	SP195	GY	18	JAKE RLY TO ON/OFF SW
21	WT119	YW	18	ENG BRK REQ	42	002	YW	10	002



E	UPDATE TO NEW REV	6/20/01	EDG	ENGINEER:	TITLE:	DRAWING NUMBER:	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	
B	UPDATED TITLE BLOCK	08/15/00	CDT	BRUCE CASE	FRONT CHASSIS	1885-GG10E		
A	INITIAL RELEASE	04/20/00	JWY	DRAWING BY:	ISB & ISC W/O J1939	PAGE:		
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY	JOSHUA YEATES		4 OF 4		

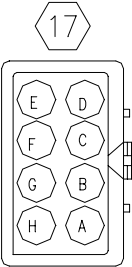
ITEM: 16				
BLACK				
TO EM0030				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP092	RD	12	DRIVER ST PWR
B	---	---	---	---
C	SP192A	RD	16	CUST ACC ACC SW
D	---	---	---	---
E	SP121	RD	16	STEP SW PWR
F	---	---	---	---
G	---	---	---	---
H	SP340	RD	12	GENER START



ITEM: 17				
GRAY				
TO EM0030				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP094	RD	14	WIPER POWER
B	SP054	PK	18	IGN SW/ACC RLY
C	SP025	RD	18	STP CIR FT PWR
D	SP190	RD	14	CUST ACC POS
E	SP093	RD	12	CAPT SEAT PWR
F	SP041	RD	14	HAZ/TRN SIG PWR
G	SP192B	RD	16	CUST ACC ACC SW
H	SP086	RD	14	LEVEL CONT PWR



ITEM: 25				
NEUTRAL RANGE INHIBIT				
BLUNT				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	WT155	GN	18	NEU RNG INH SW



ITEM: 21				
IGNITION RELAY 2				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP055B	PK	14	IGN SW IGN ACT
2	SP006F	BK	16	GROUND TYPE 4
3	SP218A	RD	8	FRT BATT PWR
4	---	---	---	---
5	SP222B	PK	8	IGN RLY TO FUSE

ITEM: 24				
IGNITION FUSE BLOCK				

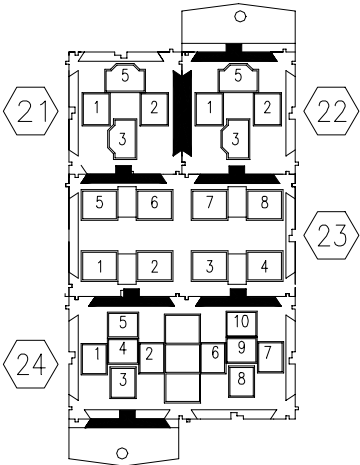
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP061	RD	14	HDLP HI BM PWR
2	SP068	GY	18	PARK BRK LIGHT
3	SP060	RD	14	HDLP LO BM PWR
4	SP102	BK	14	DAYTIME LT PWR
5	SP006D	BK	16	GROUND TYPE 4
6	---	---	---	---
7	---	---	---	---
8	---	---	---	---
9	---	---	---	---
10	---	---	---	---

ITEM: 22				
IGNITION FUSE BLOCK				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP055A	PK	14	IGN SW IGN ACT
1	SP055B	PK	14	IGN SW IGN ACT
2	SP006G	BK	16	GROUND TYPE 4
3	SP218B	RD	8	FRT BATT PWR
4	---	---	---	---
5	SP222AA	PK	8	IGN RLY TO FUSE

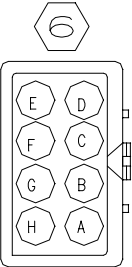
ITEM: 23				
RELAY BLOCK				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	---	---	---	---
2	---	---	---	---
3	SP191	RD	14	HDLP LO BM PWR
4	SP222AC	BK	14	DAYTIME LT PWR
5	SP218A	BK	16	GROUND TYPE 4
6	SP215M	---	---	---
7	SP218B	---	---	---
8	SP215N	---	---	---



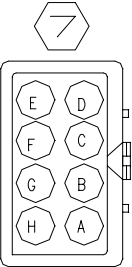
ITEM: 6				
BLACK				
TO EM0028				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP058	RD	18	HDLMP PWR
B	SP200	BK	14	HDLP SW FL RLY
C	---	---	---	---
D	SP059	RD	14	HIGH LOW SW
E	---	---	---	---
F	SP008	RD	16	MRKR LT PWR FT
G	---	---	---	---
H	SP058A	RD	16	HDLMP PWR



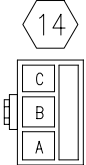
ITEM: 7				
GRAY				
TO EM0028				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	---	---	---	---
B	SP051	GY	18	HORN BUTTON
C	SP063	RD	14	MARKER LIGHTS
D	---	---	---	---
E	---	---	---	---
F	SP001	PK	16	HDLP SW TO MKR
G	---	---	---	---
H	SP050	PK	16	HRN RLY TO HRN



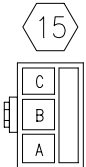
ITEM: 14				
GRAY				
TO EM0030				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	---	---	---	---
B	---	---	---	---
C	SP006C	BK	16	GROUND TYPE 4



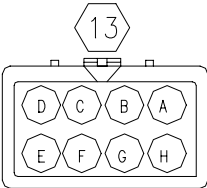
ITEM: 15				
BLACK				
TO EM0030				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP215A	RD	18	BATT TO FUSES
B	---	---	---	---
C	SP215B	RD	18	BATT TO FUSES



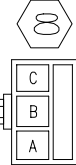
ITEM: 13				
GREEN				
TO EM0029				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP041	RD	14	HZD/TRN SIG PWR
B	SP006B	BK	16	GROUND TYPE 4
C	SP042	RD	14	FLASHER OUTPUT
D	SP106	RD	12	CNDSR FAN PWR
E	---	---	---	---
F	---	---	---	---
G	---	---	---	---
H	---	---	---	---



ITEM: 8				
BLACK				
TO EM0029				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP222AB	PK	18	IGN RLY TO FUSE
B	---	---	---	---
C	SP222B	PK	8	IGN RLY TO FUSE



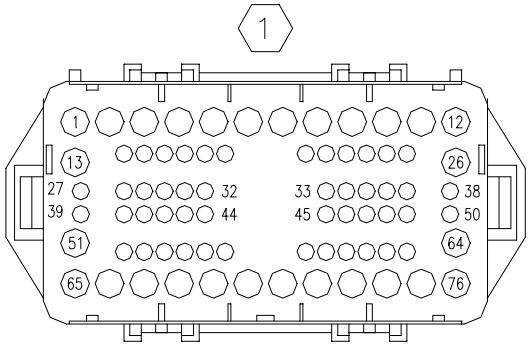
ITEM: 3				
BATTERY POWER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP215A	RD	8	BATT TO FUSES
1	SP215B	RD	8	BATT TO FUSES
1	SP215C	RD	8	BATT TO FUSES
1	SP215M	RD	8	BATT TO FUSES
1	SP215N	RD	8	BATT TO FUSES



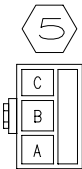
ITEM: 2				
GROUND				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP006A	BK	16	GROUND TYPE 4
1	SP006B	BK	16	GROUND TYPE 4
1	SP006C	BK	16	GROUND TYPE 4
1	SP006D	BK	16	GROUND TYPE 4
1	SP006F	BK	16	GROUND TYPE 4
1	SP006G	BK	16	GROUND TYPE 4



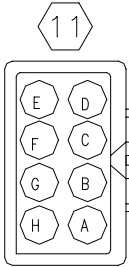
ITEM: 5				
GRAY				
TO EM0028				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP215C	RD	8	BATT TO FUSES
B	---	---	---	---
C	SP006A	BK	16	GROUND TYPE 4



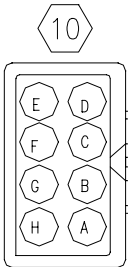
ITEM: 11				
GRAY				
TO EM0029				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	---	---	---	---
B	SP020	RD	14	INSTRUMENT PWR
C	---	---	---	---
D	SP101	RD	14	TURN SIGNAL PWR
E	SP323	YW	14	CUSTOMER 1
F	SP341	RD	12	VAC PUMP PWR
G	---	---	---	---
H	---	---	---	---



ITEM: 10				
BLACK				
TO EM0029				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP043	RD	18	CORNER LT PWR
B	SP105	RD	12	BLWR MTR PWR
C	SP102	BK	14	DAYTIME LT PWR
D	SP058A	RD	16	HDLMP PWR
E	---	---	---	---
F	SP109	RD	14	DOCK LT PWR
G	SP066	RD	12	MOIST EJCT PWR
H	---	---	---	---



ITEM: 1									
FRONT BULKHEAD CONNECTOR									
BLACK									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP105	RD	12	BLWR MTR PWR	39	SP025	RD	18	STP CIR FT PWR
2	SP192A	RD	16	CUST ACC ACC SW	40	---	---	---	---
3	SP106	RD	12	CNDSR FAN PWR	41	SP109	RD	14	DOCK LT PWR
4	SP192B	RD	16	CUST ACC ACC SW	42	---	---	---	---
5	SP092	RD	12	DRIVER ST PWR	43	---	---	---	---
6	---	---	---	---	44	---	---	---	---
7	SP093	RD	12	CAPT SEAT PWR	45	---	---	---	---
8	---	---	---	---	46	---	---	---	---
9	---	---	---	---	47	---	---	---	---
10	---	---	---	---	48	SP001	PK	16	HDLP SW TO MRKR
11	---	---	---	---	49	SP101	RD	14	TURN SIGNAL PWR
12	SP059	RD	14	HIGH LOW SW	50	SP054	PK	18	IGN SW/ACC RLY
13	SP055A	PK	14	IGN SW IGN ACT	51	SP051	GY	18	HORN BUTTON
14	---	---	---	---	52	SP050	PK	16	HRN RLY TO HRN
15	---	---	---	---	53	---	---	---	---
16	---	---	---	---	54	---	---	---	---
17	EN541	PK	18	SET/COAST	55	---	---	---	---
18	EN545	PK	18	CRUISE RES/ACC	56	---	---	---	---
19	EN544	PK	18	CRUISE ENABLE	57	SP020	RD	14	INSTRUMENT PWR
20	SP086	RD	14	LEVEL CONT PWR	58	SP042	RD	14	FLASHER OUTPUT
21	EN011	GY	18	BRAKE SW SIG	59	SP043	RD	18	CORNER LT PWR
22	EN541	PK	18	SET/COAST	60	SP058	RD	16	HDLMP PWR
23	EN545	PK	18	CRUISE RES/ACC	61	---	---	---	---
24	EN544	PK	18	CRUISE ENABLE	62	---	---	---	---
25	---	---	---	---	63	---	---	---	---
26	---	---	---	---	64	SP121	RD	16	STEP SW PWR
27	WT155	GN	18	NEU RNG INH SW	65	---	---	---	---
28	SP323	YW	14	CUSTOMER 1	66	---	---	---	---
29	SP200	BK	14	HDLP SW FL RLY	67	SP191	RD	10	CUST ACC IGN
30	---	---	---	---	68	SP341	RD	12	VAC PUMP PWR
31	---	---	---	---	69	SP063	RD	14	MARKER LIGHTS
32	SP060	RD	14	HDLP LO BM PWR	70	---	---	---	---
33	SP061	RD	14	HDLP HI BM PWR	71	---	---	---	---
34	SP068	GY	18	PARK BRK LIGHT	72	SP340	RD	12	GENER START
35	---	---	---	---	73	SP094	RD	14	WIPER POWER
36	---	---	---	---	74	SP190	RD	14	CUST ACC POS
37	SP008	RD	16	MRKR LT PWR FT	75	---	---	---	---
38	EN011	GY	18	BRAKE SW SIG	76	SP066	RD	12	MOIST EJCT PWR

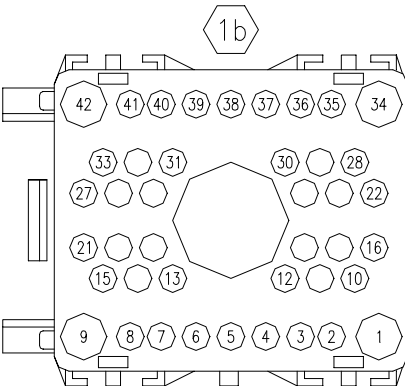
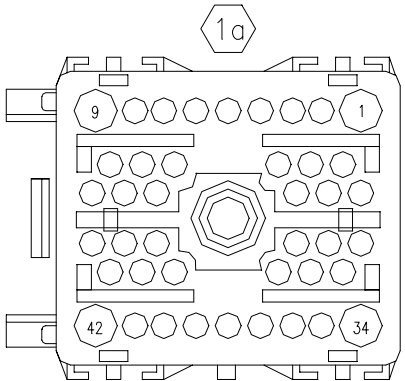
A INTIAL RELEASE			08/15/00	JWY	ENGINEER: BRUSE CASE	TITLE: HARNESS FRONT PDC	DRAWING NUMBER: 1881-GG10-001	Spartan Motors Chassis, Inc.	
REVISION DESCRIPTION			REVISION DATE	REVISION BY	DRAWING BY: JOSHUA YEATES	W / / O V I P	PAGE: 2 OF 2	REV: A	WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813

ITEM: 1a									
MID CHASSIS INTERCONNECT									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP091	PK	18	HOOD LIGHTS	22	SP210B	GY	18	J1587 NEG
2	SP090B	RD	14	TOW VEH POWER	23	EN016	GY	18	ENG FLUIDS SIG
3	PLUG	---	---	---	24	EN916	PK	18	THRT SENS SPLY
4	PLUG	---	---	---	25	SP185E	BK	14	GROUND TYPE 1
5	PLUG	---	---	---	26	EN011	GY	18	BRAKE SW SIG
6	PLUG	---	---	---	27	SP015A	PK	16	B/UP LT ACTIVE
7	PLUG	---	---	---	28	SP209B	PK	18	J1587 POS
8	SP090A	RD	14	TOW VEH POWER	29	EN034	PK	18	TPS 5V
9	SP270	BK	14	GROUND TYPE 2	30	EN952	GN	18	THROT INHIBIT
10	EN017	GY	18	ENG STOP SIG	31	EN014	GY	18	ENG BRAKE ON/OFF
11	WT124A	PK	18	ECM TO SHFTR	32	EN020	GY	18	IFF IDLE SIG
12	WT175	GN	18	SHFT SEL MD IN	33	WT105	GN	18	TRAN OVRTP NEG
13	WT180	BE	18	SHIFT SEL DISP	34	001	YW	10	001
14	WT174	TN	18	SHFT SEL PAR	35	EN541	PK	18	SET/COAST
15	WT173	YW	18	SHFT SEL BIT 8	36	SP045	GN	16	RIGHT TURN SIG
16	EN419	PK	18	CHECK ENG LT	37	SP063	RD	16	MARKER LIGHTS
17	WT171	GN	18	SHFT SEL BIT 2	38	WT157C	TN	18	SPEEDO SIG POS
18	WT170	OE	18	SHFT SEL BIT 1	39	EN544	PK	18	CRUISE RES/ACC
19	WT176	OE	18	GENERL OUT NEG	40	EN021	GY	18	IDLE SIG
20	WT143	GY	18	ECU GROUND	41	PLUG	---	---	---
21	WT119A	YW	18	EXH BRK INPUT	42	002	YW	10	002

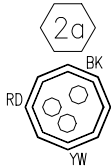
ITEM: 1b									
MID CHASSIS INTERCONNECT									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP055C	PK	12	IGN SW IGN ACT	22	SP241	BN	16	ABS 1 SENS L1
2	SP007	RD	18	AC CLT SW PWR	23	SP226	GN	18	RT TRN TO RLY
3	EN545	PK	18	CRUISE RES/ACC	24	SP248	YW	16	ABS 1 VLV RI/L
4	EN023	GY	18	IDLE INCR SIG	25	SP245	YW	16	ABS 1 VLV L I/L
5	SP110A	PK	14	DOCK LIGHTS	26	SP227	YW	18	LT TRN TO RLY
6	EN022	GY	18	IDLE DECR SIG	27	SP044	YW	16	LEFT TURN SIG
7	SP324	YW	14	CUSTOMER 2	28	SP240	BK	16	ABS 1 SENS L2
8	EN038	GY	18	WIF LIGHT	29	SP247	BK	16	ABS 1 VLV R COM
9	SP053	RD	12	BATT POS/IGN SW	30	SP249	RD	16	ABS 1 VLV R O/L
10	SP242	BN	18	ABS 1 SENS R1	31	SP246	RD	16	ABS 1 VLV L O/L
11	SP325	YW	14	CUSTOMER 3	32	SP244	BK	16	ABS 1 VLV L COM
12	WT114	WE	18	RNG IND RLY	33	WT155	GN	18	NEU RNG INH SW
13	WT136	PK	18	ECU POWER	34	SP329	YW	10	CUSTOMER 7
14	SP003	BK	18	ABS LIGHT GND	35	SP024	PK	18	STP PRS SW1
15	SP326	YW	14	CUSTOMER 4	36	SP323	YW	14	CUSTOMER 1
16	SP243	BK	16	ABS 1 SENS R2	37	PLUG	---	---	---
17	EN013	GY	18	DIAGN ON/OFF	38	004	YW	18	004
18	EN037	GY	18	WT TO ST LT	39	PLUG	---	---	---
19	SP327	YW	14	CUSTOMER 5	40	WT115	GN	18	CHK TRANS LMP
20	SP328	YW	14	CUSTOMER 6	41	SP056	PK	18	START SIGNAL
21	WT172	BE	18	SHFT SEL BIT 4	42	SP330	YW	10	CUSTOMER 8



ITEM: 2a				
LEFT ABS VALVE				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1 BK	SP256	BK	16	ABS 2 VLV L COM
2 YW	SP257	YW	16	ABS 2 VLV L I/L
3 RD	SP258	RD	16	ABS 2 VLV L O/L



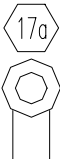
ITEM: 3a				
LEFT ABS SENSOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1 BN	SP252	BN	18	ABS 2 SENS L1
2 BK	SP253	BK	18	ABS 2 SENS L2



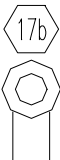
ITEM: 17a				
BATT PWR VIA DISCONNECT SW.				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP217A	RD	6	BATT TO FUSES



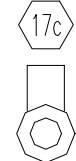
ITEM: 17b				
BATT PWR VIA DISCONNECT SW.				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP217B	RD	6	BATT TO FUSES



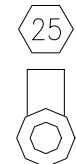
ITEM: 17c				
BATT DIRECT POWER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	BAT PWR1	RD	6	BATT PWR 1
1	BAT PWR2	RD	18	BATT PWR 2



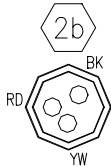
ITEM: 25				
TYPE 1 GROUND				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP185A	BK	18	GROUND TYPE 1
1	SP185F	BK	18	GROUND TYPE 1
1	SP185G	BK	18	GROUND TYPE 1
1	SP185J	BK	8	GROUND TYPE 1
1	SP185K	BK	18	GROUND TYPE 1
1	SP185L	BK	18	GROUND TYPE 1
1	SP185M	BK	14	GROUND TYPE 1
1	SP185N	BK	14	GROUND TYPE 1
1	SP270	BK	14	GROUND TYPE 2



ITEM: 2b				
RIGHT ABS VALVE				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1 BK	SP259	BK	16	ABS 2 VLV R COM
2 YW	SP260	YW	16	ABS 2 VLV R I/L
3 RD	SP261	RD	16	ABS 2 VLV R O/L



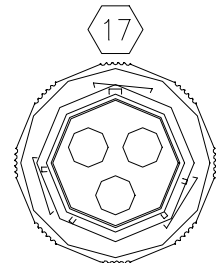
ITEM: 3b				
RIGHT ABS SENSOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1 BN	SP254	BN	18	ABS 2 SENS R1
2 BK	SP255	BK	18	ABS 2 SENS R2



ITEM: 17				
POWER TO REAR PDC				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP217A	RD	6	BATT TO FUSES
B	BAT PWR1	RD	6	BATT PWR 1
C	SP217B	RD	6	BATT TO FUSES



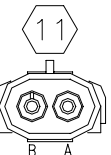
ITEM: 27				
SPARE TO ENG ECU				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	004	YW	18	004



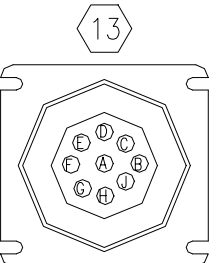
ITEM: 11				
AIR DRYER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP011	RD	14	AIR DRYER PWR
2	SP006B	BK	16	GROUND TYPE 4



ITEM: 13				
DIAGNOSTIC				

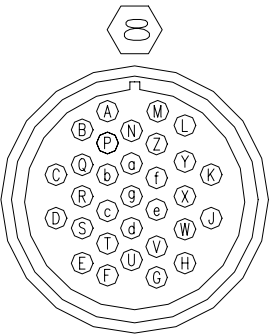
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP185H	BK	18	GROUND TYPE 1
B	BAT PWR2	RD	18	BATT PWR 2
C	---	---	---	---
D	---	---	---	---
E	---	---	---	---
F	SP209D	PK	18	J1587 POS
G	SP210D	GY	18	J1587 NEG
H	---	---	---	---
J	---	---	---	---



				ENGINEER: BRUCE CASE	TITLE: REAR CHASSIS W/O J1939	DRAWING NUMBER: 1902-GG10	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	
REV: A	INITIAL RELEASE	08/22/22	JWY	DRAWING BY: JOSHUA YEATES	ISB, ISC MM IC	PAGE: 1 OF 3		
	REVISION DESCRIPTION	REVISION DATE	REVISION BY					

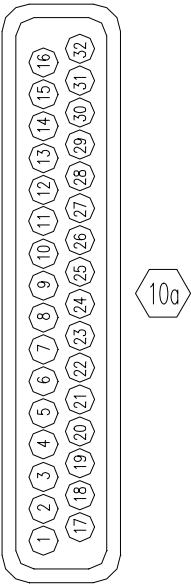
ITEM: 8									
TRANSMISSION									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	WT102	OE	18	SOL SPLY A,D,J	N	WT135	GN	18	ANALOG GND
B	WT103	GN	18	C SOL LOW	P	WT147	TN	18	SMP TMP SEN IN
C	WT104	WE	18	G SOL LOW	Q	---	--	---	---
D	WT124	PK	18	ECM TO SHFTR	R	---	--	---	---
E	WT107	GN	18	SOL SUPPLY F	S	---	--	---	---
F	WT110	WE	18	J SOL, LOW	T	---	--	---	---
G	WT120	WE	18	A SOL, LOW	U	WT140	BE	18	TURB SPD LO
H	WT121	TN	18	SOL SPLY B,E	V	WT149	OE	18	TURB SPD HI
J	WT128	OE	18	B SOL, LOW	W	WT195	YW	18	TRANS ID
K	WT129	TN	18	E SOL, LOW	X	WT162	WE	18	C-3 PRES SW IN
L	WT130	YW	18	SOL SPLY C,G	Y	WT165	BE	18	OIL LVL SENS
M	WT131	BE	18	D SOL, LOW	Z-g	---	--	---	---



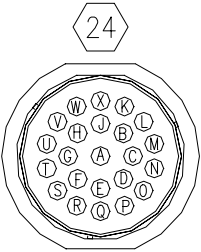
ITEM: 10a (BLACK)									
TRANS ECU SHIFTER									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP209A	PK	18	J1587 POS	17	SP210A	GY	18	J1587 NEG
2	---	--	---	---	18	---	--	---	---
3	WT124A	PK	18	ECM TO SHFTR	19	---	--	---	---
4	---	--	---	---	20	---	--	---	---
5	WT170	OE	18	SHFT SEL BIT 1	21	---	--	---	---
6	WT171	GN	18	SHFT SEL BIT 2	22	---	--	---	---
7	WT172	BE	18	SHFT SEL BIT 4	23	---	--	---	---
8	WT173	YW	18	SHFT SEL BIT 8	24	---	--	---	---
9	WT174	TN	18	SHFT SEL PAR	25	---	--	---	---
10	WT175	GN	18	AHFT SEL MD IN	26	---	--	---	---
11	WT119C	YW	18	EXH BRK INPUT	27	---	--	---	---
12	---	--	---	---	28	---	--	---	---
13	---	--	---	---	29	---	--	---	---
14	WT180	BE	18	SHIFT SEL DISP	30	WT157B	TN	18	SPEEDO SIG POS
15	WT176	OE	18	GENERL OUT NEG	31	WT115	GN	18	CHK TRANS LMP
16	WT136	PK	18	ECU POWER	32	WT143	GY	18	ECU GROUND



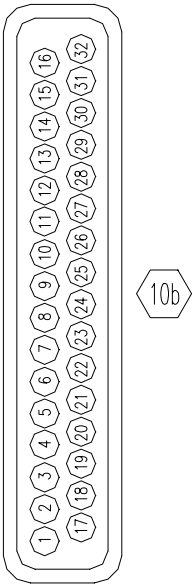
ITEM: 24									
ENGINE ACC									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP055B	PK	18	IGN SW IGN ACT	M	EN040A	WE	14	ECM COM SW RET
B	EN240	RD	18	BATT POS	N	---	--	---	---
C	EN241	RD	18	BATT POS	O	EN015	PK	18	---
D	EN440	RD	18	BATT POS	P	SP185M	BK	14	GROUND TYPE 1
E	SP185A	BK	18	GROUND TYPE 1	R	---	--	---	---
F	SP185K	BK	18	GROUND TYPE 1	S	EN040B	WE	14	ECM COM SW RET
G	---	--	---	---	T	---	--	---	---
H	SP185L	BK	18	GROUND TYPE 1	U	---	--	---	---
J	---	--	---	---	V	---	--	---	---
K	---	--	---	---	W	SP185N	BK	14	GROUND TYPE 1
L	---	--	---	---	X	---	--	---	---



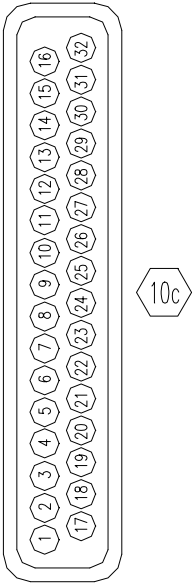
ITEM: 10b (BLUE)									
TRANS ECU VEHICLE									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	WT136A	PK	18	ECU POWER	17	SP185D	BK	18	GROUND TYPE 1
2	WT114	WE	18	RNG IND RLY	18	---	--	---	---
3	WT132	OE	18	EXH BRK RLY	19	WT105	GN	18	TRAN OVRTP NEG
4	WT113	WE	18	REV IND RLY	20	---	--	---	---
5	---	--	---	---	21	---	--	---	---
6	WT123	TN	18	NEU SFTY POS	22	---	--	---	---
7	---	--	---	---	23	---	--	---	---
8	---	--	---	---	24	---	--	---	---
9	---	--	---	---	25	---	--	---	---
10	---	--	---	---	26	SP055A	PK	18	ING SW IGN ACT
11	WT155	GN	18	NEU RNG INH SW	27	WT154	WE	18	ABS INPUT NEG
12	---	--	---	---	28	---	--	---	---
13	---	--	---	---	29	---	--	---	---
14	---	--	---	---	30	---	--	---	---
15	---	--	---	---	31	WT161	YW	18	SIG GND
16	WT136B	PK	18	ECU POWER	32	SP185C	BK	18	GROUND TYPE 1



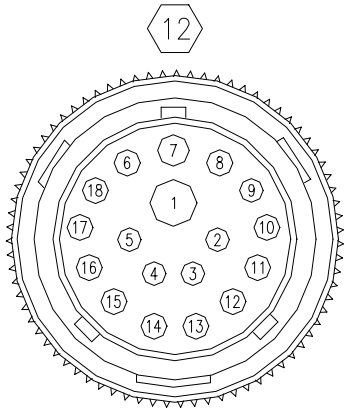
ITEM: 10c (GRAY)									
TRANS ECU TRANSMISSION									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	WT102	OE	18	SOL SPLY A,D,J	17	WT130	YW	18	SOL SPLY C,G
2	WT121	TN	18	SOL SPLY B,E	18	---	--	---	---
3	WT107	GN	18	SOL SUPPLY F	19	---	--	---	---
4	WT120	WE	18	A SOL, LOW	20	WT128	OE	18	B SOL, LOW
5	WT103	GN	18	C SOL LOW	21	WT131	BE	18	D SOL, LOW
6	WT129	TN	18	E SOL, LOW	22	WT110	WE	18	J SOL, LOW
7	WT104	WE	18	G SOL LOW	23	---	--	---	---
8	---	--	---	---	24	---	--	---	---
9	WT124	PK	18	WCM TO SHFTR	25	WT135	GN	18	ANALOG GND
10	---	--	---	---	26	WT165	BE	18	OIL LVL SENS
11	---	--	---	---	27	WT147	TN	18	SMP TMP SEN IN
12	WT162	WE	18	C-3 PRES SW IN	28	---	--	---	---
13	WT195	YW	18	TRANS ID	29	---	--	---	---
14	WT141	TN	18	ENG SPD SEN, HI	30	WT150	OE	18	ENG SPD SEN LO
15	WT149	OE	18	TURB SPD HI	31	WT140	BE	18	TURB SPD LO
16	WT139	YW	18	OTPT SPD SENS	32	WT148	GN	18	OTPT SPD SENS



ITEM: 12									
ENGINE HARNESS									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP006C	BK	12	GROUND TYPE 4	10	SP038	PK	18	EXH BRK ACTIVE
2	---	--	---	---	11	SP057	PK	18	START RELAY
3	---	--	---	---	12	WT139	YW	18	OTPT SPD SENS
4	EN035	GY	18	WIF SENSOR	13	WT148	GN	18	OTPT SPD SENS
5	EN036	PE	18	REM THROT/WIF	14	WT141	TN	18	ENG SPD SEN HI
6	---	--	---	---	15	WT150	OE	18	ENG SPD SEN LO
7	---	--	---	---	16	EN003	PK	18	GRID HTR 1 SIG
8	---	--	---	---	17	EN006	PK	18	GRID HTR 2 SIG
9	SP013	PK	16	IGN ACT TO ALT	18	SP007	RD	18	AC CLT SW PWR



				ENGINEER:	BRUCE CASE	TITLE:	REAR CHASSIS W/O J1939	DRAWING NUMBER:	1902-GG10	Spartan Motors Chassis, Inc.	
A	INITIAL RELEASE	08/22/00	JWY	DRAWING BY:	JOSHUA YEATES		ISB, ISC MM IC	PAGE:	2 OF 3		
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY								

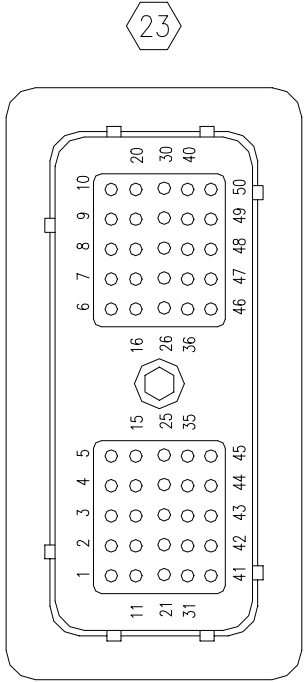
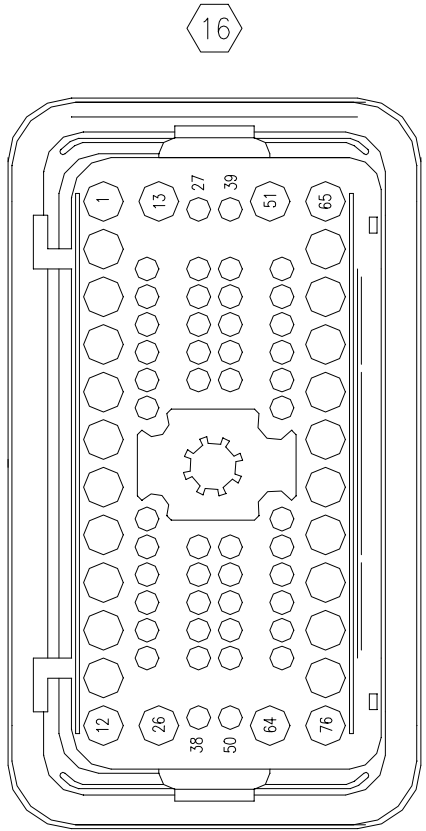
WORLD WIDE VEHICLES AND CHASSIS
1000 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813

ITEM: 16									
REAR PDC CONNECTION									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	---	---	---	---	39	SP256	BK	16	ABS 2 VLV L COM
2	---	---	---	---	40	SP257	YW	16	ABS 2 VLV L I/L
3	---	---	---	---	41	WT132	OE	18	EXH BRK RLY
4	SP241	BN	16	ABS 1 SENS L1	42	WT113	WE	18	REV IND RLY
5	---	---	---	---	43	WT123	TN	18	NEU SFY POS
6	SP244	BK	16	ABS 1 VLV L COM	44	SP038	PK	18	EXH BRK ACTIVE
7	SP053	RD	12	BATT POS/IGN SW	45	WT119B	YW	18	EXH BRK INPUT
8	SP245	YW	16	ABS 1 VLV L I/L	46	SP015B	PK	14	B/UP LT ACTIVE
9	---	---	---	---	47	EN440	RD	18	BATT POS
10	---	---	---	---	48	SP056	PK	18	START SIGNAL
11	---	---	---	---	49	SP011	RD	14	AIR DRYER PWR
12	---	---	---	---	50	SP013	PK	16	IGN ACT TO ALT
13	SP185B	BK	10	GROUND TYPE 1	51	WT161	YW	18	SIG GND
14	SP057	PK	18	START RELAY	52	WT136C	PK	14	RTRDR TMP SENS
15	SP209C	PK	18	J1587 POS	53	SP076	RD	14	STP LT-RLY/LT
16	SP210C	GY	18	J1587 NEG	54	SP251	GN	14	R STP/TRN OUT
17	SP003	BK	18	ABS LIGHT GND	55	SP055D	PK	14	IGN SW IGN ACT
18	EN015	PK	18	ENG BRK ENABLE	56	SP045	GN	16	RIGHT TURN SIG
19	EN240	RD	18	BATT POS	57	SP047	GN	14	RIGHT TRN REAR
20	SP248	YW	16	ABS 1 VLV R I/L	58	SP227	YW	18	LT TRN TO RLY
21	SP247	BK	16	ABS 1 VLV R COM	59	SP048	YW	14	LEFT TURN REAR
22	SP226	GN	18	RT TRN TO RLY	60	SP250	YW	14	L STP/TRN OUT
23	SP242	BN	16	ABS 1 SENS R1	61	SP063	RD	16	MARKER LIGHT
24	SP243	BK	16	ABS 1 SENS R2	62	SP065D	BN	14	REAR MRKR RLY
25	EN241	RD	18	BATT POS	63	SP024	PK	18	STP PRS SW1
26	WT154	WE	18	ABS INPUT NEG	64	---	---	---	---
27	SP044	YW	16	LEFT TURN SIG	65	EN040A	WE	14	ECM COM SW RET
28	SP240	BK	16	ABS 1 SENS L2	66	EN040B	WE	14	ECM COM SW RET
29	SP249	RD	16	ABS 1 VLV R O/L	67	---	---	---	---
30	SP246	RD	16	ABS 1 VLV L O/L	68	---	---	---	---
31	SP253	BK	18	ABS 2 SENS L2	69	---	---	---	---
32	SP252	BN	18	ABS 2 SENS L1	70	---	---	---	---
33	SP255	BK	18	ABS 2 SENS R2	71	001	YW	10	001
34	SP254	BN	18	ABS 2 SENS R1	72	002	YW	10	002
35	SP261	RD	16	ABS 2 VLV R O/L	73	---	---	---	---
36	SP259	BK	16	ABS 2 VLV R COM	74	SP006I	BK	16	GROUND TYPE 4
37	SP260	YW	16	ABS 2 VLV R I/L	75	---	---	---	---
38	SP258	RD	16	ABS 2 VLV L O/L	76	---	---	---	---

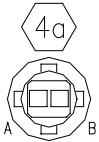
ITEM: 23									
ENGINE ECU									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	EN017	GY	18	ENG STOP SIG	26	EN021	GY	18	IDLE SIG
2	EN038	GY	18	WIF LIGHT	27	SP185G	BK	18	GROUND TYPE 1
3	EN419	PK	18	CHECK ENG LT	28	---	---	---	---
4	EN016	GY	1	ENG FLUIDS SIG	29	EN034	PK	18	TPS 5V
5	---	---	---	---	30	EN916	PK	18	THRT SENS SPLY
6	---	---	---	---	31	EN006	PK	18	GRID HTR 2 SIG
7	EN545	PK	18	CRUISE RES/ACC	32	---	---	---	---
8	WT157A	TN	18	---	33	EN011	GY	18	BRAKE SW SIG
9	---	---	---	---	34	EN014	GY	18	ENG BRK ON/OFF
10	---	---	---	---	35	EN023	GY	18	IDLE INCR SIG
11	EN037	GY	18	WT TO ST LT	36	EN022	GY	18	IDLE DECR SIG
12	---	---	---	---	37	EN013	GY	18	DIAGN ON/OFF
13	EN541	PK	18	SET/COAST	38	---	---	---	---
14	EN544	PK	18	CRUISE ENABLE	39	---	---	---	---
15	---	---	---	---	40	EN035	GY	18	WIF SENSOR
16	---	---	---	---	41	EN003	PK	18	GRID HTR 1 SIG
17	---	---	---	---	42	---	---	---	---
18	SP185F	BK	18	GROUND TYPE 1	43	---	---	---	---
19	EN952	GN	18	THROT SENS GND	44	---	---	---	---
20	EN036	PE	18	REM THROT/WIF	45	---	---	---	---
21	---	---	---	---	46	---	---	---	---
22	---	---	---	---	47	---	---	---	---
23	---	---	---	---	48	---	---	---	---
24	---	---	---	---	49	SP209E	PK	18	J1587 POS
25	EN020	GY	18	OFF IDLE SIG	50	SP210E	GY	18	J1587 NEG

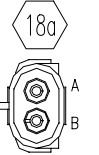


ITEM: 4a				
LEFT MID MARKER LIGHT				

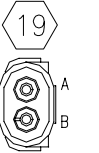
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006A	BK	18	GROUND TYPE 4
B	SP065C	BN	18	REAR MRKR RLY



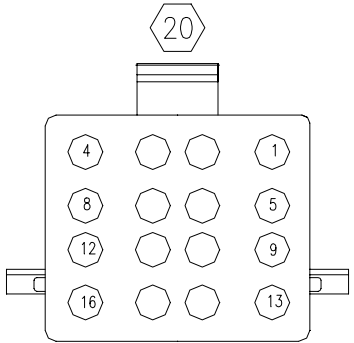
ITEM: 18a				
LEFT DOCKING LIGHTS				
PACKARD : 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP110C	PK	18	DOCK LIGHTS
2	SP006H	BK	18	GROUND TYPE 4



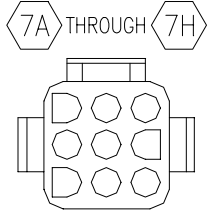
ITEM: 19				
REAR HOODLIGHT				
PACKARD : 12010973				
MATING CONN : 12015792				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP091	PK	18	HOOD LIGHTS
B	SP006D	BK	18	GROUND TYPE 4



ITEM: 20				
CUSTOMER TAIL LIGHT CONN				
FORD : F2AB-14A464-BA				
MATING CONN : F2AB-14A624-BA				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP090A	RD	14	TOW VEH POWER
2	SP076	RD	14	STP LT-RLY/LT
3	SP065A	BN	14	REAR MRKR RLY
4	SP250	YW	14	L STP/TRN OUT
5	SP090B	RD	14	TOW VEH POWER
6	---	---	---	---
7	SP006G	BK	14	GROUND TYPE 4
8	---	---	---	---
9	SP048	YW	14	LEFT TURN REAR
10	SP015C	PK	14	B/UP LT ACTIVE
11	---	---	---	---
12	---	---	---	---
13	SP047	GN	14	RIGHT TURN REAR
14	---	---	---	---
15	SP251	GN	14	R STP/TRN OUT
16	---	---	---	---

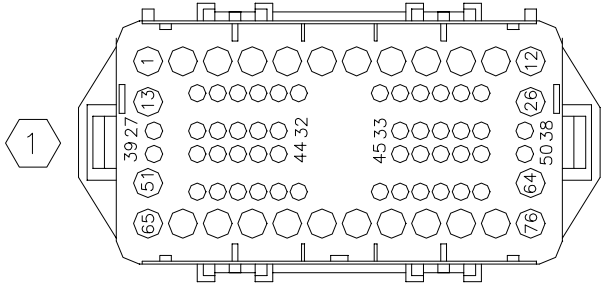


ITEM: 7A THRU 7H				
CUSTOMER #2-8				
AMP -- 1-480706-0				
MATING CONN : 1-480707-0				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1 (A)	SP323	YW	14	CUSTOMER 1-SWITCHED IGN.
2 (B)	SP324	YW	14	CUSTOMER 2
3 (C)	SP325	YW	14	CUSTOMER 3
4 (D)	SP326	YW	14	CUSTOMER 4
5 (E)	SP327	YW	14	CUSTOMER 5
6 (F)	SP328	YW	14	CUSTOMER 6
7 (G)	SP329	YW	10	CUSTOMER 7
8 (H)	SP330	YW	10	CUSTOMER 8
9	---	---	---	---

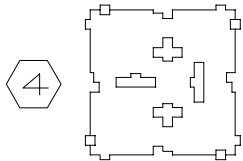


A INITIAL RELEASE			08/22/00		JWY		ENGINEER: BRUCE CASE		TITLE: REAR CHASSIS W/O J1939 ISB, ISC MM IC		DRAWING NUMBER: 1902-GG10		PAGE: 3 OF 3		REV: A		Spartan Motors Chassis, Inc.	
REV: REVISION DESCRIPTION			REVISION DATE		REVISION BY		DRAWING BY: JOSHUA YEATES										WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	

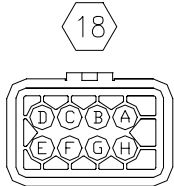
ITEM: 1														
PDC BULKHEAD														
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	----	--	--	----	26	WT154	WE	0.8	ABS INPUT NEG	52	WT136	PK	2.0	ECU PWR
2	----	--	--	----	27	SP044	YW	1.0	LFT TRN ON FROM SW	53	SP076	RD	2.0	STP LT FROM RLY TO LTS
3	----	--	--	----	28	SP240	BK	0.8	ABS AXLE1 SEN L2	54	SP251	GN	2.0	R STP/TRN OUT
4	SP241	BN	0.8	ABS AXLE1 SENS L1	29	SP249	RD	1.0	ABS AXLE1 VLV R OTLT	55	SP055	PK	0.8	IGN SW IGN ACTV
5	----	--	--	----	30	SP246	RD	1.0	ABS AXLE1 VLV OTLT	56	SP045	GN	1.0	LFT TRN RR
6	SP244	BK	1.0	ABS AXLE1 VLV L COM	31	SP253	BK	0.8	ABS AXLE2 SEN L2	57	SP047	GN	2.0	RT TRN RR
7	SP053	RD	3.0	IGN PWR	32	SP252	BN	0.8	ABS AXLE2 SEN L1	58	SP227	YW	0.8	T/SIG SW TO RR RLY
8	SP245	YW	1.0	ABS AXLE1 VLV L INL	33	SP255	BK	0.8	ABS AXLE2 SEN R2	59	SP048	YW	2.0	LFT TRN RR
9	----	--	--	----	34	SP254	BK	0.8	ABS AXLE2 SEN R1	60	SP250	YW	2.0	L STP/TRN OUT
10	----	--	--	----	35	SP261	RD	1.0	ABS AXLE2 VLV R OTLT	61	SP063	RD	1.0	MKR LT RLY PWR
11	----	--	--	----	36	SP259	BK	1.0	ABS AXLE2 VLV R COM	62	SP065	BN	2.0	RR MKR LT SWD PWR
12	----	--	--	----	37	SP260	YW	1.0	ABS AXLE2 VLV R INL	63	SP024A	PK	0.8	STOP PRES SW SIG 1
13	SP185A	BK	3.0	GND TYPE 1	38	SP258	RD	1.0	ABS AXLE2 VLV L OTLT	64	----	--	--	----
14	SP057	PK	0.8	STRT FROM NEU SAF TO STRT RLY	39	SP256	BK	1.0	ABS AXLE2 VLV L COM	65	EN040A	WE	2.0	BAT +
15	SP209	PK	0.8	J1587 (+)	40	SP257	YW	1.0	ABS AXLE2 VLV L INL	66	EN040B	WE	2.0	BAT +
16	SP210	GY	0.8	J1587 (-)	41	WT132	OE	0.8	EXH BRK RLY COIL	67	----	--	--	----
17	SP003B	BK	0.8	ABS CA LT GND	42	WT113	WE	0.8	REV IND RLY COIL	68	----	--	--	----
18	EN015	PK	0.8	ENG BRK ENABLE SIG	43	WT123	TN	0.8	NEU SAF SIG(+)	69	----	--	--	----
19	EN240	RD	1.0	BAT +	44	SP038	PK	0.8	EXH BRK RLY TO EXH BRK	70	----	--	--	----
20	SP248	YW	1.0	ABS AXLE1 VLV R OTLT	45	----	--	--	----	71	001	YW	3.0	001
21	SP247	BK	1.0	ABS AXLE1 VLV R COM	46	SP015	PK	2.0	B/U LT FROM RLY	72	002	YW	3.0	002
22	SP226	GN	0.8	T/SIG SW TO RR RLY	47	EN440	RD	1.0	BATT POS	73	----	--	--	----
23	SP242	BN	0.8	ABS AXLE1 SEN R1	48	SP056	PK	0.8	IGN STRT TO NEU SAF COIL	74	SP006A	BK	1.0	GND TYPE 4
24	SP243	BK	0.8	ABS AXLE1 SEN R2	49	SP011	RD	2.0	AIR DRYER PWR	75	----	--	--	----
25	EN241	RD	1.0	BAT +	50	SP013	PK	1.0	IGN ACTV TO ALTR	76	----	--	--	----
					51	WT161	YW	0.8	SIG END					



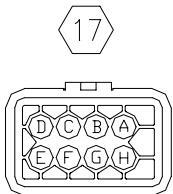
ITEM: 4				
IGN RELAY				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP055	PK	0.8	IGN SW IGN ACTV
2	SP006B	BK	0.8	GND TYPE 4
3	SP321	RD	8.0	B+ FS TO IGN RLY
4	----	--	--	----
5	SP219A	RD	8.0	RR SWR PWR



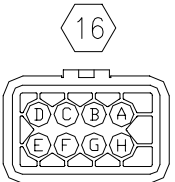
ITEM: 18				
EM0026 BUSSMAN-GN				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	----	--	--	----
B	----	--	--	----
C	SP006B	BK	0.8	GND TYPE 4
D	SP024B	PK	0.8	STOP PRES SW SIG 1
E	SP056	PK	0.8	IGN STRT TO NEU SAF COIL
F	----	--	--	----
G	SP053	RD	3.0	IGN PWR
H	----	--	--	----



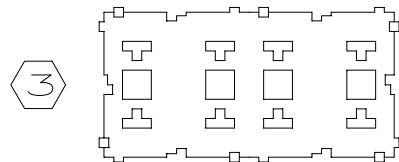
ITEM: 17				
EM0026 BUSSMAN-GY				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP076	RD	2.0	STP LT FROM RLY TO LTS
B	SP024A	PK	0.8	STOP PRES SW SIG 1
C	SP065	BN	2.0	RR MKR LT SWD PWR
D	SP063	RD	1.0	MKR LT RLY SWD PWR
E	SP226	GN	0.8	T/SIG SW TO RR RLY
F	SP251	GN	2.0	R STP/TRN OUT
G	WT123	TN	0.8	NEU IND RLY COIL
H	SP057	PK	0.8	STRT FROM NEU SAF TO STRT RLY



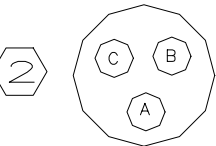
ITEM: 16				
EM0026 BUSSMAN-BK				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP048	YW	2.0	LFT TRN RR
B	SP045	GN	1.0	RT TRN FROM SW
C	SP015	PK	2.0	B/U LT FROM RLY
D	WT113	WE	0.8	REV IND RLY COIL
E	SP044	PK	0.8	ABS RELAY
F	SP047	GN	2.0	RT TRN RR
G	SP227	YW	0.8	T/SIG SW TO RR RLY
H	SP250	YW	2.0	L STP/TRN OUT



ITEM: 3				
FUSE				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP319AA	RD	8.0	BAT +
2	SP319B	RD	8.0	BAT +
3	SP217CA	RD	8.0	STRTR BAT PWR
4	SP217AB	RD	13.0	STRTR BAT PWR
5	----	--	--	----
6	----	--	--	----
7	SP321	RD	8.0	B+ FS TO IGN RLY
8	SP217BB	RD	8.0	STRTR BAT PWR



ITEM: 2				
POWER				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP217BA	RD	13.0	STRTR BAT PWR
B	SP319A	RD	13.0	BAT +
C	SP217AA	RD	13.0	STRTR BAT PWR



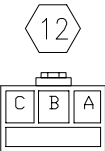
ITEM: 19
SPARE
001

19

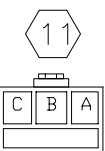
ITEM: 21
SPARE
002

21

ITEM: 12				
EM0026 BUSSMAN-GY				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP217CB	RD	5.0	STRTR BAT PWR
B	----	--	--	----
C	SP006A	BK	1.0	GND TYPE 4

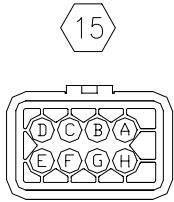


ITEM: 11				
EM0026 BUSSMAN-BK				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP217CC	RD	5.0	STRTR BAT PWR
B	----	--	--	----
C	----	--	--	----

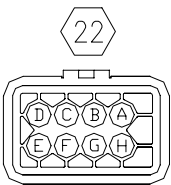


				ENGINEER:	TITLE:	DRAWING NUMBER:	 WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813
B	INITIAL	RELEASE	06/29/01	EDG	HARNESS, REAR PDC	1578-GG10B	
REV:	REVISION DESCRIPTION		REVISION DATE	REVISION BY	W / O J 1 9 3 9	PAGE: 1 OF 2	

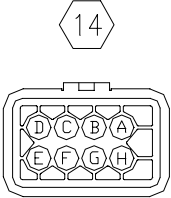
ITEM: 15				
EM0027 BUSSMAN-GN				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	----	--	--	----
B	EN440	RD	1.0	BATT POS
C	EN040B	WE	2.0	BAT +
D	SP195	--	--	----
E	----	--	--	----
F	SP011	RD	2.0	AIR DRYER PWR
G	EN040A	WE	2.0	BAT +
H	WT136	PK	2.0	ECU PWR



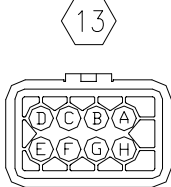
ITEM: 22				
EM0027 BUSSMAN-BE				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP003C	BK	0.8	ABS DA LT GND
B	WT161	YW	0.8	SIG GND
C	----	--	--	----
D	----	--	--	----
E	WT154	WE	0.8	ABS INPUT NEG
F	----	--	--	----
G	SP005	PK	0.8	ABS RELAY
H	----	--	--	----



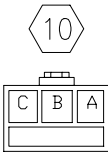
ITEM: 14				
EM0027 BUSSMAN-GY				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	----	--	--	----
B	SP013	PK	1.0	IGN ACTV TO ALTR
C	EN015	PK	2.0	B/U LT FROM RLY
D	SP024B	PK	0.8	STOP PRESS SW SIG 1
E	SP004A	RD	1.0	IGN TO ABS ECU
F	----	--	--	----
G	SP004B	RD	1.0	IGN TO ABS ECU
H	----	--	--	----



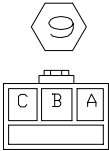
ITEM: 13				
EM0027 BUSSMAN-BK				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	----	--	--	----
B	----	--	--	----
C	SP038	PK	0.8	EXH BRK RLY TO EXH BRK
D	WT132	OE	0.8	EXH BRK RLY COIL
E	----	--	--	----
F	----	--	--	----
G	EN241	RD	1.0	BAT +
H	EN240	RD	1.0	BAT +



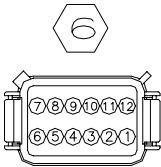
ITEM: 10				
EM0027 BUSSMAN-GY				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP319AB	RD	5.0	BAT +
B	----	--	--	----
C	SP319AC	RD	5.0	BAT +



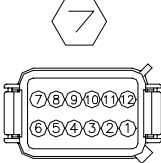
ITEM: 9				
EM0027 BUSSMAN-BK				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP219B	RD	5.0	RR SWR PWR
B	----	--	--	----
C	SP219C	RD	5.0	RR SWR PWR



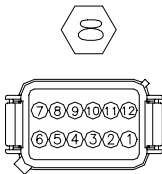
ITEM: 6				
ABS INPUT CONNECTOR-GY				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP004A	RD	1.0	IGN TO ABS ECU
2	SP004B	RD	1.0	IGN TO ABS ECU
3	----	--	--	----
4	SP209	PK	0.8	J1587 (+)
5	SP005	PK	0.8	ABS RELAY
6	----	--	--	----
7	----	--	--	----
8	----	--	--	----
9	SP210	GY	0.8	J1587 (-)
10	SP003A	BK	0.8	ABS DA LT GND
11	SP185B	BK	1.0	GND TYPE 1
12	SP185C	BK	1.0	GND TYPE 1



ITEM: 7				
FRONT ABS CONNECTOR-BK				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	----	--	--	----
2	SP245	YW	1.0	ABS AXLE1 VLV L INL
3	SP249	RD	1.0	ABS AXLE1 VLV R OTLT
4	SP248	YW	1.0	ABS AXLE1 VLV R INL
5	SP242	BN	0.8	ABS AXLE1 SEN R1
6	SP243	BK	0.8	ABS AXLE1 SEN R2
7	SP240	BK	0.8	ABS AXLE1 SEN L2
8	SP241	BN	0.8	ABS AXLE1 SEN L1
9	SP247	BK	1.0	ABS AXLE1 VLV R COM
10	SP246	RD	1.0	ABS AXLE1 VLV OTLT
11	SP244	BK	1.0	ABS AXLE1 VLV L COM
12	----	--	--	----



ITEM: 8				
REAR ABS CONNECTOR-GN				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP253	BK	0.8	ABS AXLE2 SEN L2
2	SP252	BN	0.8	ABS AXLE2 SEN L1
3	SP255	BK	0.8	ABS AXLE2 SEN R2
4	SP254	BN	0.8	ABS AXLE2 SEN R1
5	----	--	--	----
6	----	--	--	----
7	SP261	RD	1.0	ABS AXLE2 VLV R OTLT
8	SP259	BK	1.0	ABS AXLE2 VLV R COM
9	SP260	YW	1.0	ABS AXLE2 VLV R INL
10	SP258	RD	1.0	ABS AXLE2 VLV L OTLT
11	SP256	BK	1.0	ABS AXLE2 VLV L COM
12	SP257	YW	1.0	ABS AXLE2 VLV L INL



B INITIAL RELEASE			06/29/01	EDG	ENGINEER: BRUCE CASE DRAWING BY: ERIC GARNAAT	TITLE: HARNESS, REAR PDC W / O J 1 9 3 9	DRAWING NUMBER: 1578-GG10B PAGE: 2 OF 2	REV: B	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813
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ITEM: 1A				
GRID HEATER #1				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN002	OE	6	GRID HTR #1 FEED



ITEM: 1B				
GRID HEATER #2				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN005	OE	6	GRID HTR #2 FEED



ITEM: 5A				
TO STARTER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP073	RD	12	STARTER SOL



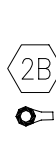
ITEM: 5B				
TO STARTER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP072	RD	12	START RELAY



ITEM: 2B				
BATT SENSE TO ALT				
RING				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP012	RD	16	BATT SENSE



ITEM: 2A				
ALTERNATOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP013	PK	16	IGN ACT TO ALT
B	SP012	RD	16	BATT SENSE



ITEM: 11				
AC CLUTCH				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006H	BK	18	GROUND TYPE 4
B	SP007A	RD	18	AC CLT SW PWR



ITEM: 12				
WATER IN FUEL				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN036	PE	18	REM THROT/WIF
B	EN035	GY	18	WIF SENSOR



ITEM: 10				
EXHAUST BRAKE				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP038	PK	16	EXH BRK ACTIVE
B	SP006A	BK	16	GROUND TYPE 4



ITEM: 5C				
TO STARTER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN001	RD	2	GRID HTR #1 PWR



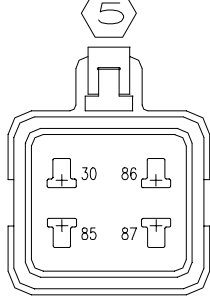
ITEM: 5D				
TO STARTER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006C	BK	6	GROUND TYPE 4



ITEM: 5				
START RELAY				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
30	SP073	PK	12	STARTER SOL
85	SP006B	BK	16	GROUND TYPE 4
86	SP057	PK	16	START RELAY
87	SP072	RD	12	START RELAY



ITEM: 9A				
ENGINE SPEED SENSOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	WT141	TN	18	ENG SPD SEN HI
B	WT150	OE	18	ENG SPD SEN LO



ITEM: 9B				
OUTPUT SPEED SENSOR				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	WT139	YW	18	OTPT SPD SENS
B	WT148	GN	18	OTPT SPD SENS



ITEM: 6A				
TO STARTER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006D	BK	18	GROUND TYPE 4



ITEM: 6B				
TO STARTER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN003	PK	18	GRID HTR #1 SIG



ITEM: 6C				
TO STARTER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN002	OE	6	GRD HTR 1 FEED



ITEM: 6D				
TO STARTER				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN001	RD	2	GRID HTR #1 PWR



ITEM: 6E				
GRID HEAT #1 RELAY				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN004	RD	4	GRID HTR #2 PWR



ITEM: 7A				
GRIS HEAT #2 RELAY				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	SP006E	BK	18	GROUND TYPE 4



ITEM: 7B				
GRID HEAT #2 RELAY				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN006	PK	18	GRID HTR 32 SIG



ITEM: 7C				
GRIS HEAT #2 RELAY				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN005	OE	6	GRID HTR #2 FEED



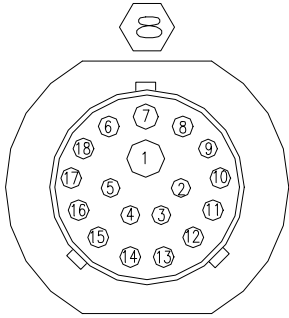
ITEM: 7D				
GRIS HEAT #2 RELAY				

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A	EN004	RD	4	GRID HTR #2 PWR



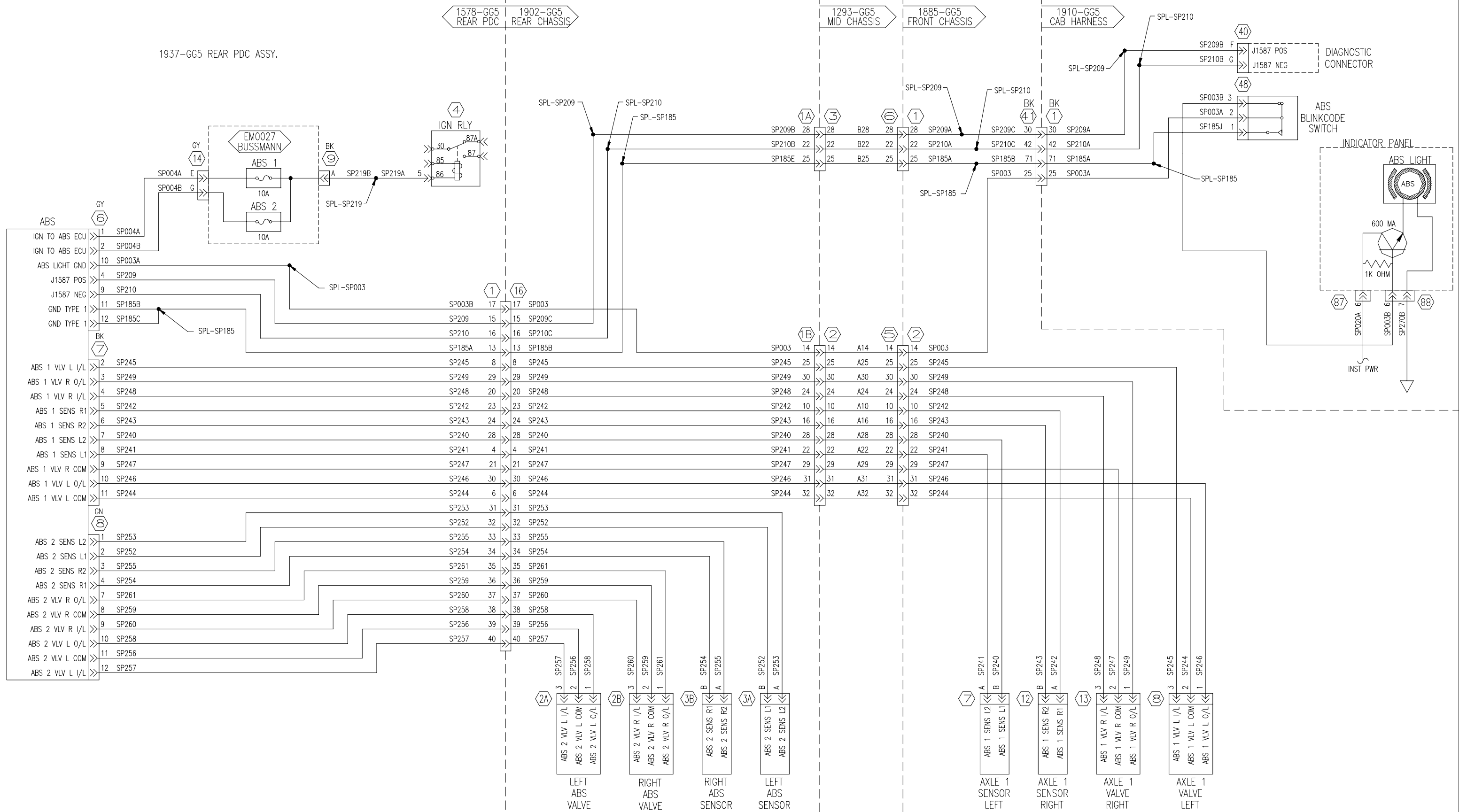
ITEM: 8									
REAR CHASSIS INTERCONNECT									

CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION	CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP006F	BK	8	GROUND TYPE 4	10	SP038	PK	16	EXH BRK ACTIVE
2	---	--	--	---	11	SP057	PK	16	START RELAY
3	---	--	--	---	12	WT139	YW	18	OTPT SPD SENS
4	EN035	GY	18	WIF SENSOR	13	WT148	GN	18	OTPT SPD SENS
5	EN036	PE	18	REM THROT/WIF	14	WT141	TN	18	ENG SPD SEN HI
6	---	--	--	---	15	WT150	OE	18	ENG SPD SEN LO
7	---	--	--	---	16	EN003	PK	18	GRID HTR #1 SIG
8	---	--	--	---	17	EN006	PK	18	GRID HTR #2 SIG
9	SP013	PK	16	IGN ACT TO ALT	18	SP007B	RD	18	AC CLT SW PWR

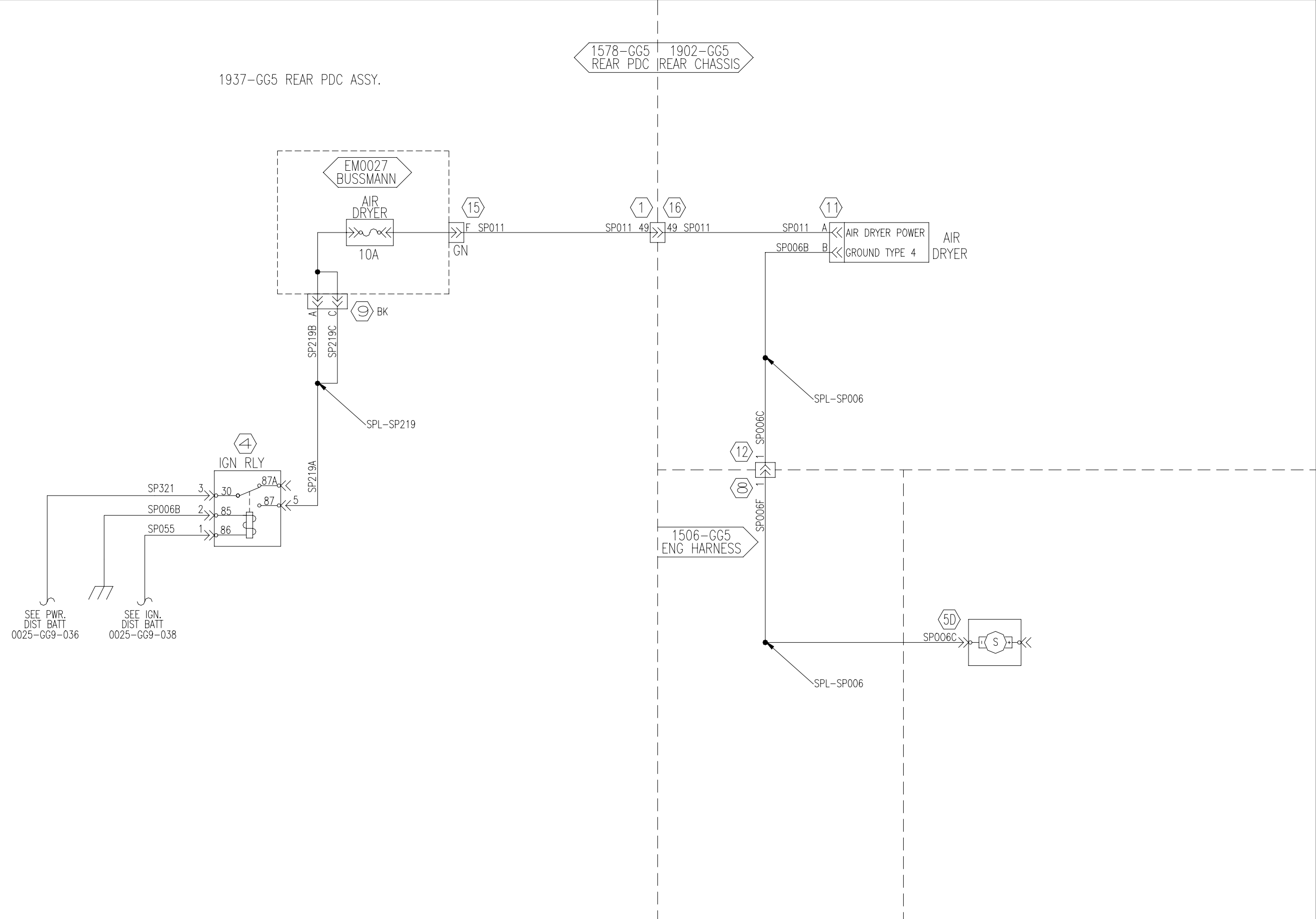


B I N T I A L R E L E A S E			08/15/00	J W Y	ENGINEER: BRUCE CASE	TITLE: ENGINE HARNESS	DRAWING NUMBER: 1506-GG10	Spartan Motors Chassis, Inc. WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	
REV:	REVISION DESCRIPTION		REVISION DATE	REVISION BY	DRAWING BY: JOSHUA YEATES	I S B / I S C	PAGE: 1 OF 1		

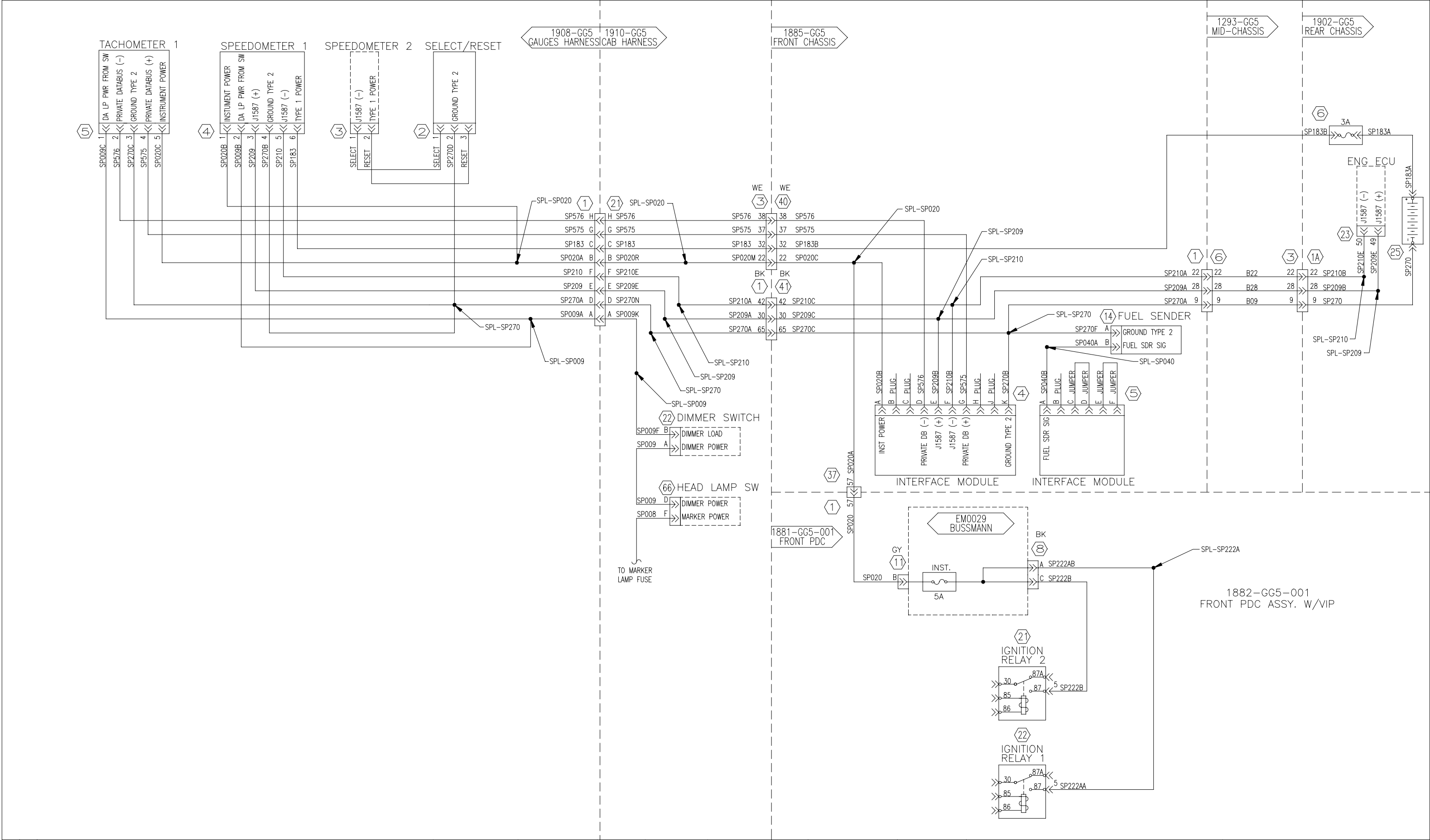
1937-GG5 REAR PDC ASSY.



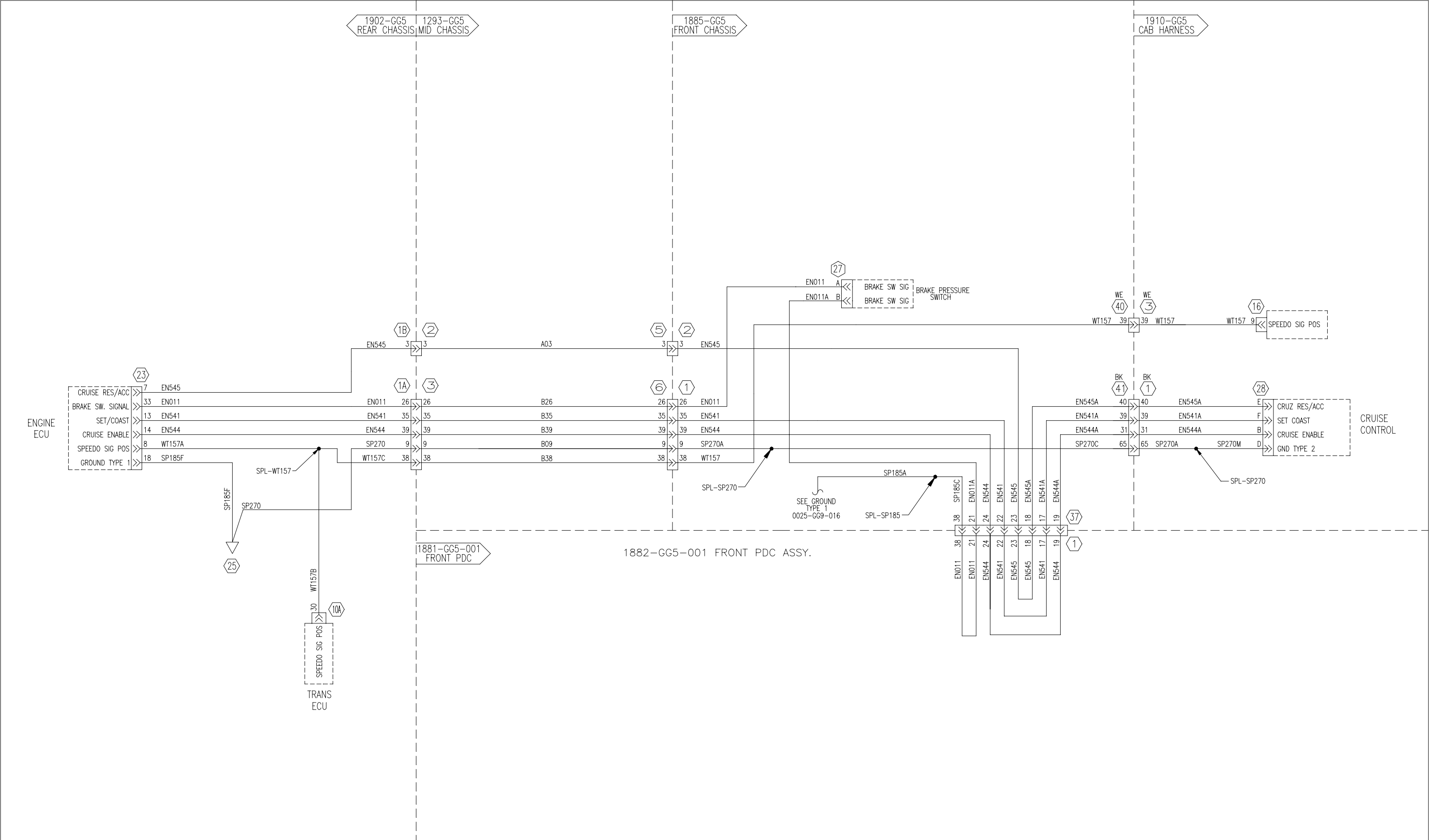
PAGE 1 OF 1	INITIAL RELEASE				02/26/01				RVS				01/24/01				02/27/01				Spartan Motors Chassis, Inc.				0025-GG9-002A			
	REVISIONS				E.C.R.				DATE				BY				CHECKED BY				APPROVED BY				DRAWING NUMBER			
	LET.				DATE				BY				CHECKED BY				APPROVED BY				DRAWING NUMBER				REV.			
	DATE				BY				CHECKED BY				APPROVED BY				DRAWING NUMBER				REV.				DRAWING NUMBER			



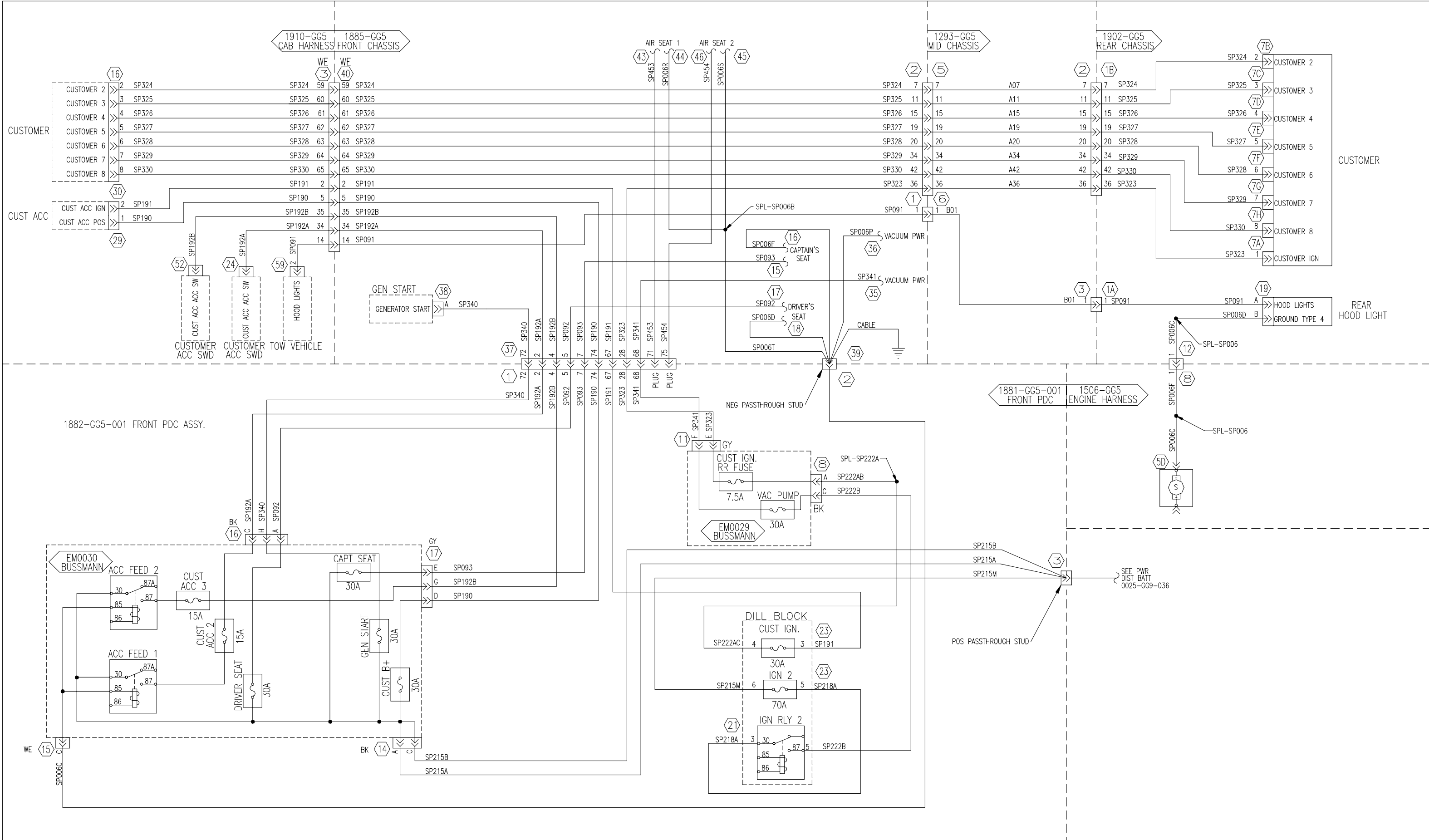
PAGE 1 OF 1								ENGINEER BRUCE CASE	DATE	Spartan Motors Chassis, Inc.		TITLE AIR DRYER
								DRAWN BY TIM MARCOTTE	DATE 01/30/01			
	A INITIAL RELEASE							CHECKED BY RICK SCHUTTE	DATE 02/26/01			DRAWING NUMBER 0025-GG9-004
	LET.	REVISIONS		E.C.R.	DATE	BY	CHECKED BY	APPROVED BY				REV. A



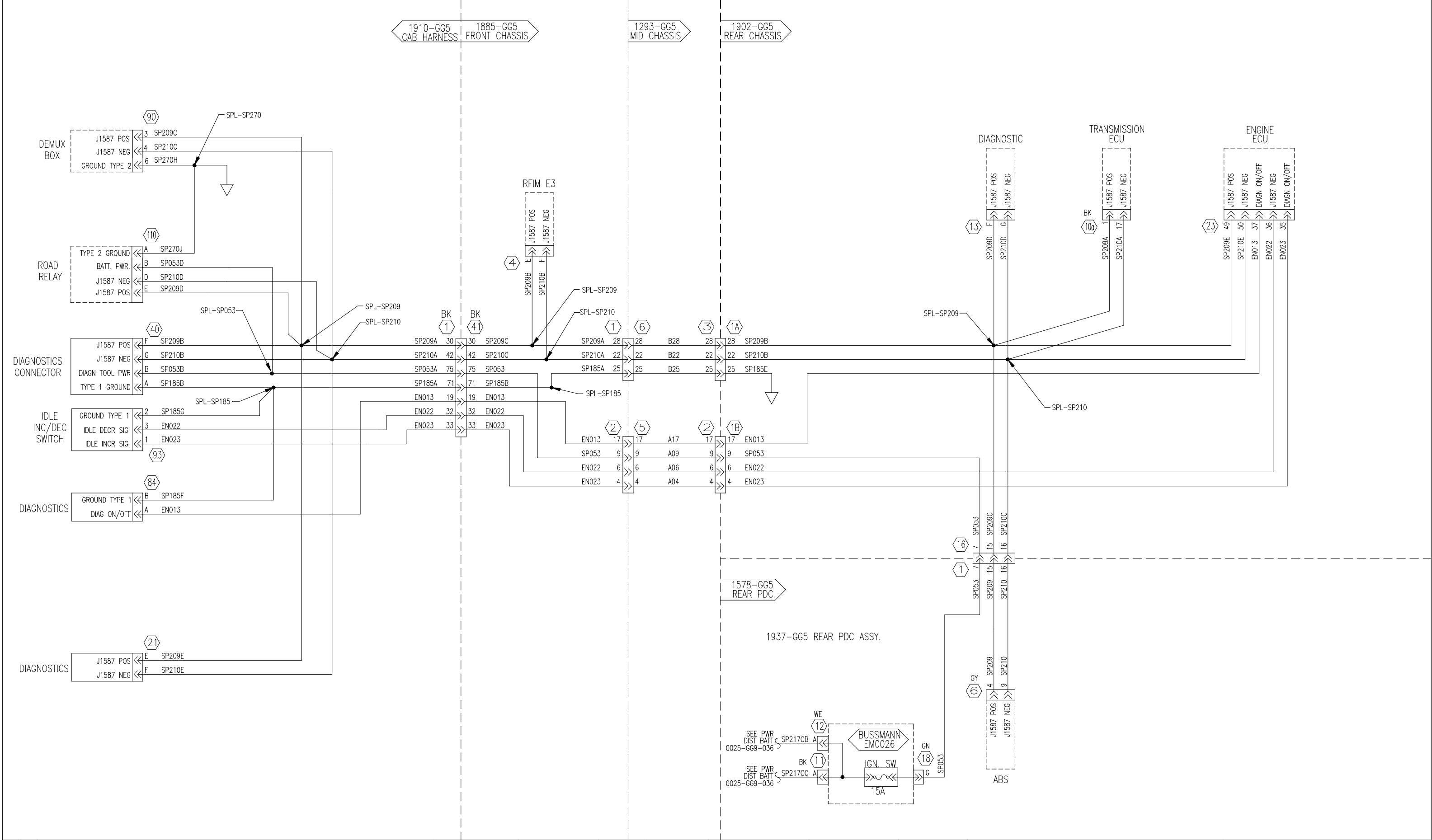
PAGE 1 OF 1						ENGINEER	BRUCE CASE	DATE	1/23/01	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE		AMETEK DIXSON DSI-1		
						DRAWN BY	BRUCE CASE	DATE	1/23/01		DRAWING NUMBER		0025-GG9-005		
	A I N I T I A L R E L E A S E					01/23/01	TSM	BLC			REV.		A		
	LET.	REVISIONS					E.C.R.	DATE	BY		CHECKED BY	APPROVED BY			
											RICK SCHUTTE	05/25/01			



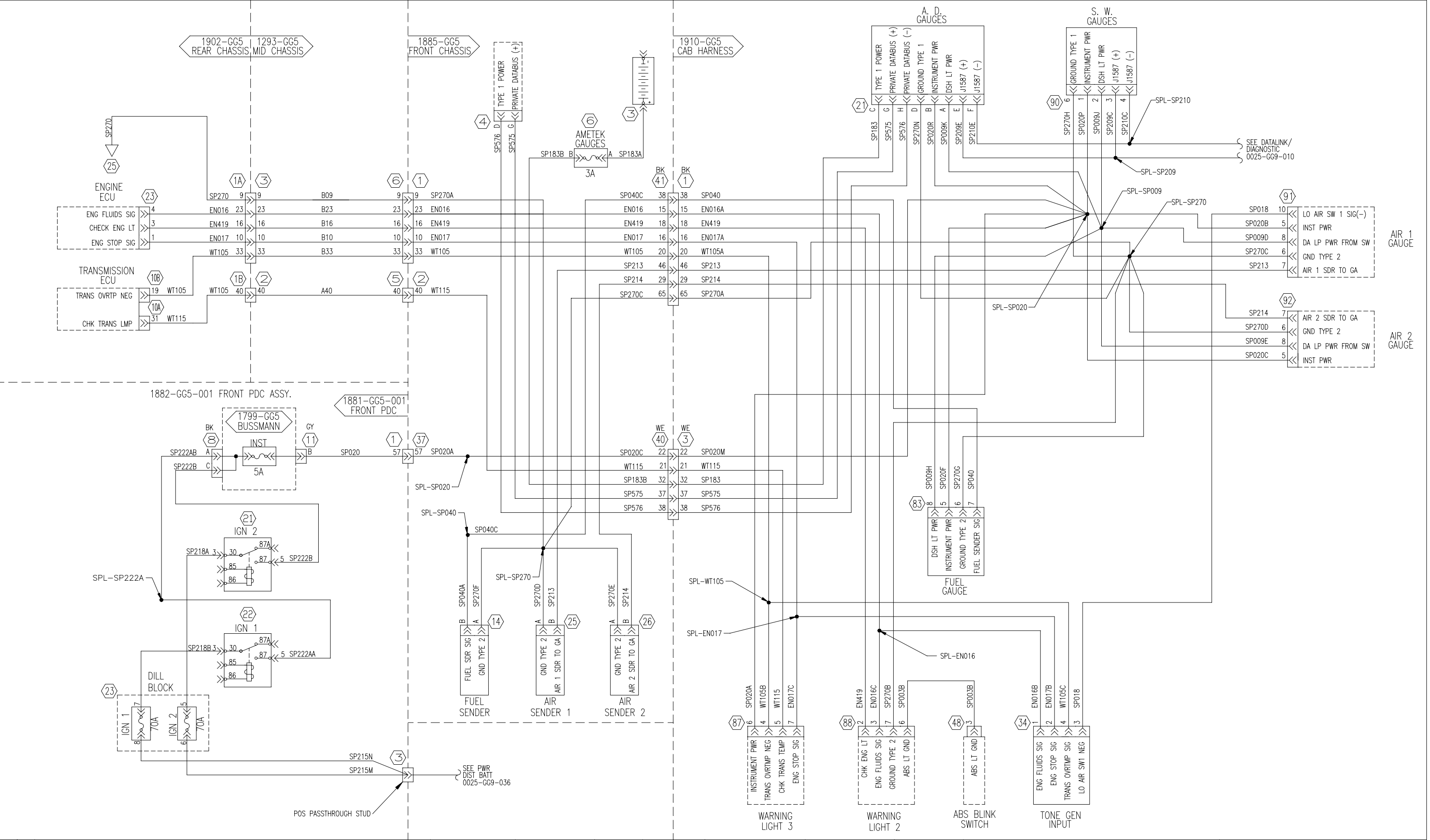
PAGE 1 OF 1	AINITIAL RELEASE					E.C.R.					02/06/01					EDG					CHECKED BY					APPROVED BY					ENGINEER					BRUCE CASE					DATE					02/01/01					DRAWN BY					TIM MARCOTTE					DATE					02/14/01					CHECKED BY					RICK SCHUTTE					DATE					02/14/01					Spartan Motors Chassis, Inc.					TITLE					CRUISE					DRAWING NUMBER					0025-GG9-006					REV.					A				
	LET.					E.C.R.					02/06/01					EDG					CHECKED BY					APPROVED BY					ENGINEER					BRUCE CASE					DATE					02/01/01					DRAWN BY					TIM MARCOTTE					DATE					02/14/01					CHECKED BY					RICK SCHUTTE					DATE					02/14/01					Spartan Motors Chassis, Inc.					TITLE					CRUISE					DRAWING NUMBER					0025-GG9-006					REV.					A				
	LET.					E.C.R.					02/06/01					EDG					CHECKED BY					APPROVED BY					ENGINEER					BRUCE CASE					DATE					02/01/01					DRAWN BY					TIM MARCOTTE					DATE					02/14/01					CHECKED BY					RICK SCHUTTE					DATE					02/14/01					Spartan Motors Chassis, Inc.					TITLE					CRUISE					DRAWING NUMBER					0025-GG9-006					REV.					A				
	LET.					E.C.R.					02/06/01					EDG					CHECKED BY					APPROVED BY					ENGINEER					BRUCE CASE					DATE					02/01/01					DRAWN BY					TIM MARCOTTE					DATE					02/14/01					CHECKED BY					RICK SCHUTTE					DATE					02/14/01					Spartan Motors Chassis, Inc.					TITLE					CRUISE					DRAWING NUMBER					0025-GG9-006					REV.					A				



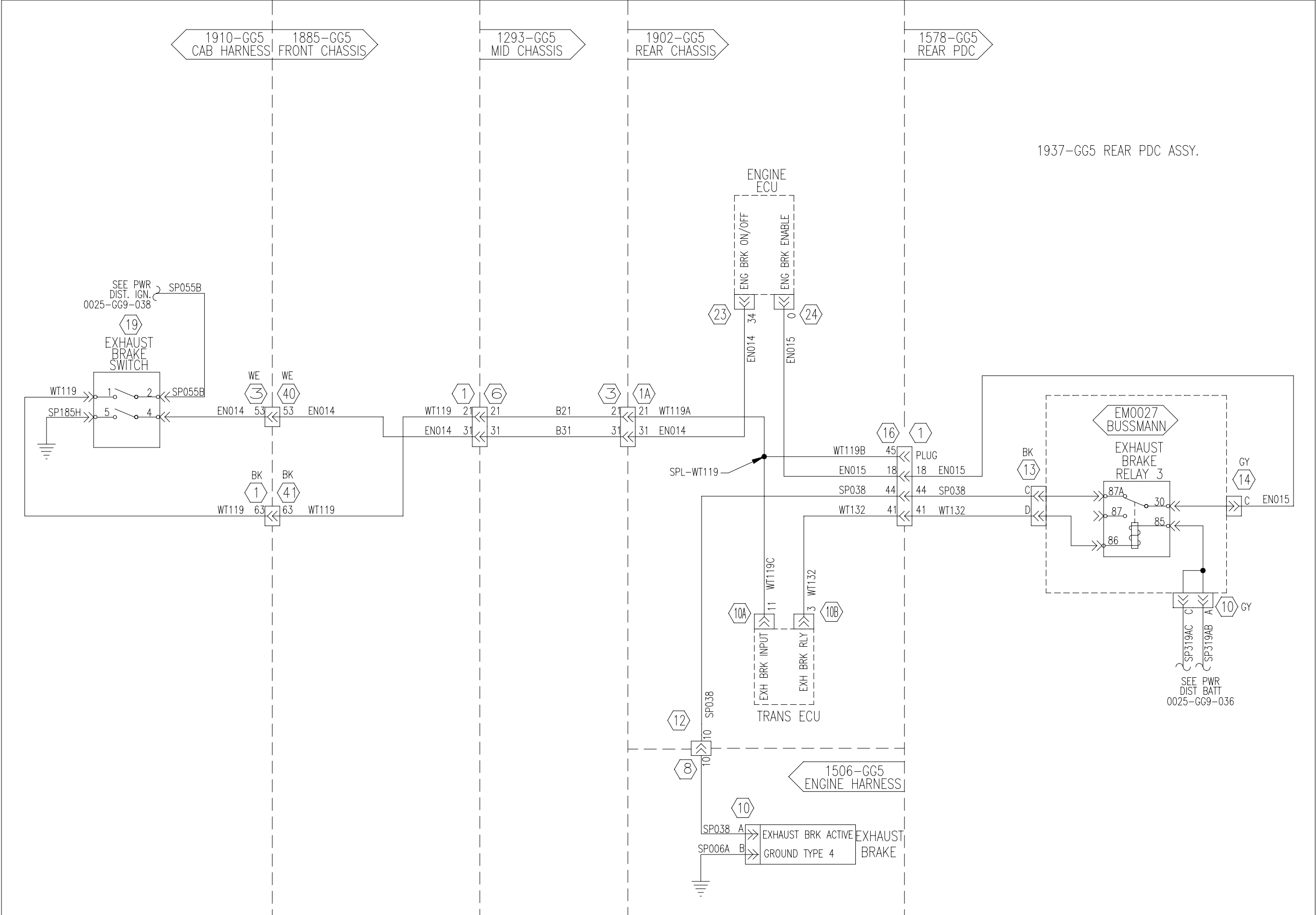
PAGE 1 OF 1						ENGINEER	DATE	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE	
						BRUCE CASE			CUSTOMER WIRES	
						DRAWN BY	DATE			
						TIM MARCOTTE	01/29/01			
A INITIAL RELEASE					02/02/01	EDG			DRAWING NUMBER	
LET. REVISIONS					E.C.R.	DATE	BY	CHECKED BY	APPROVED BY	REV.
										0025-GG9-008A



PAGE 1 OF 1	INITIAL RELEASE				03/26/01		TSM	03/26/01		03/26/01		Spartan Motors Chassis, Inc.		DATALINK/DIAGNOSTIC	
	REVISIONS				E.C.R.							0025-GG9-010A			



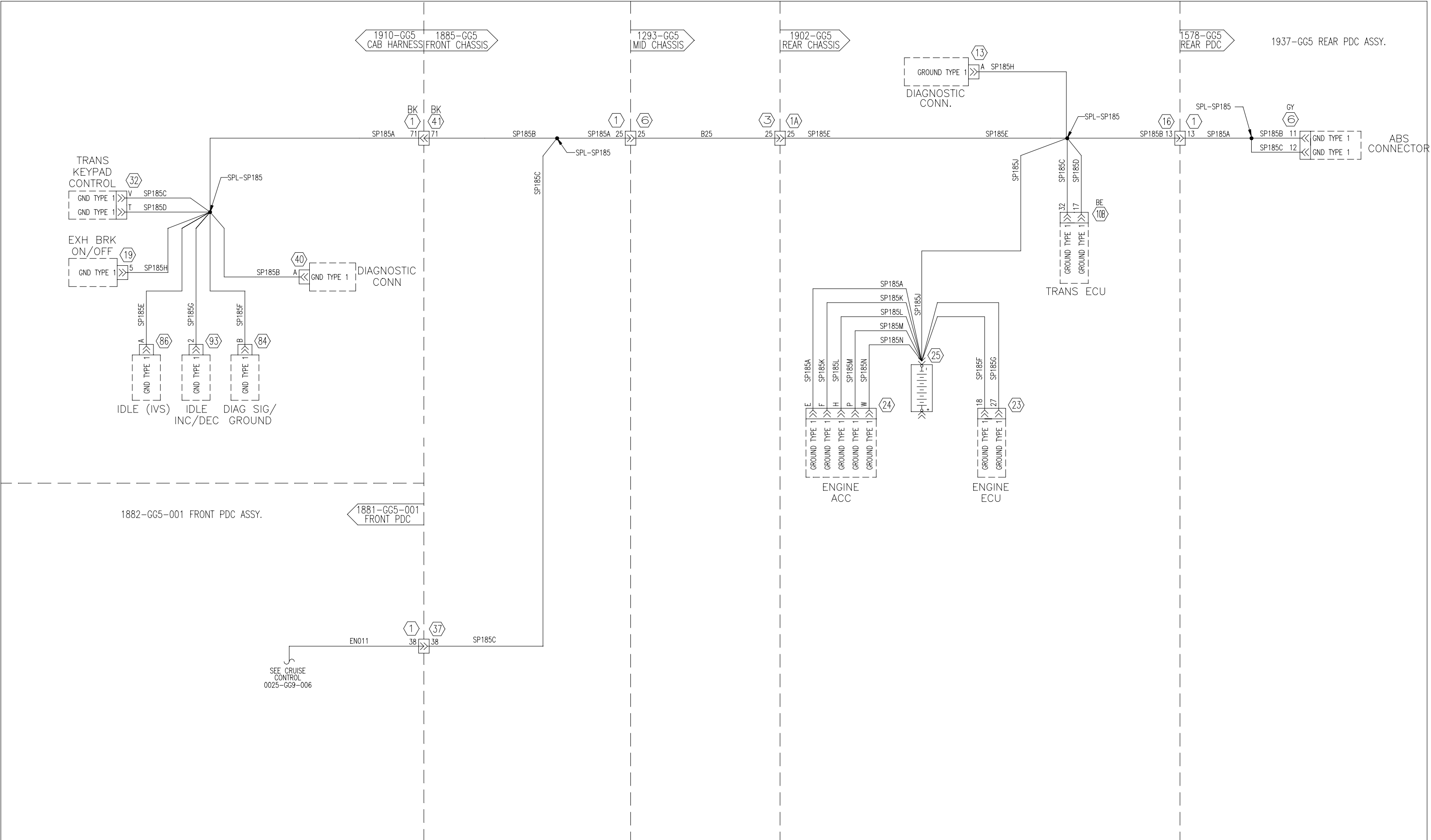
PAGE 1 OF 1	INITIAL RELEASE					ENGINEER BRUCE CASE		DATE		Spartan Motors Chassis, Inc.		TITLE DEMULTIPLEXER	
	REVISIONS					DRAWN BY TIM MARCOTTE		DATE 02/01/01		WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813		DRAWING NUMBER 0025-GG9-012A	
	E.C.R.					CHECKED BY RICK SCHUTTE		DATE 02/05/01		REV.			
	DATE 02/05/01					BY EDG		APPROVED BY					



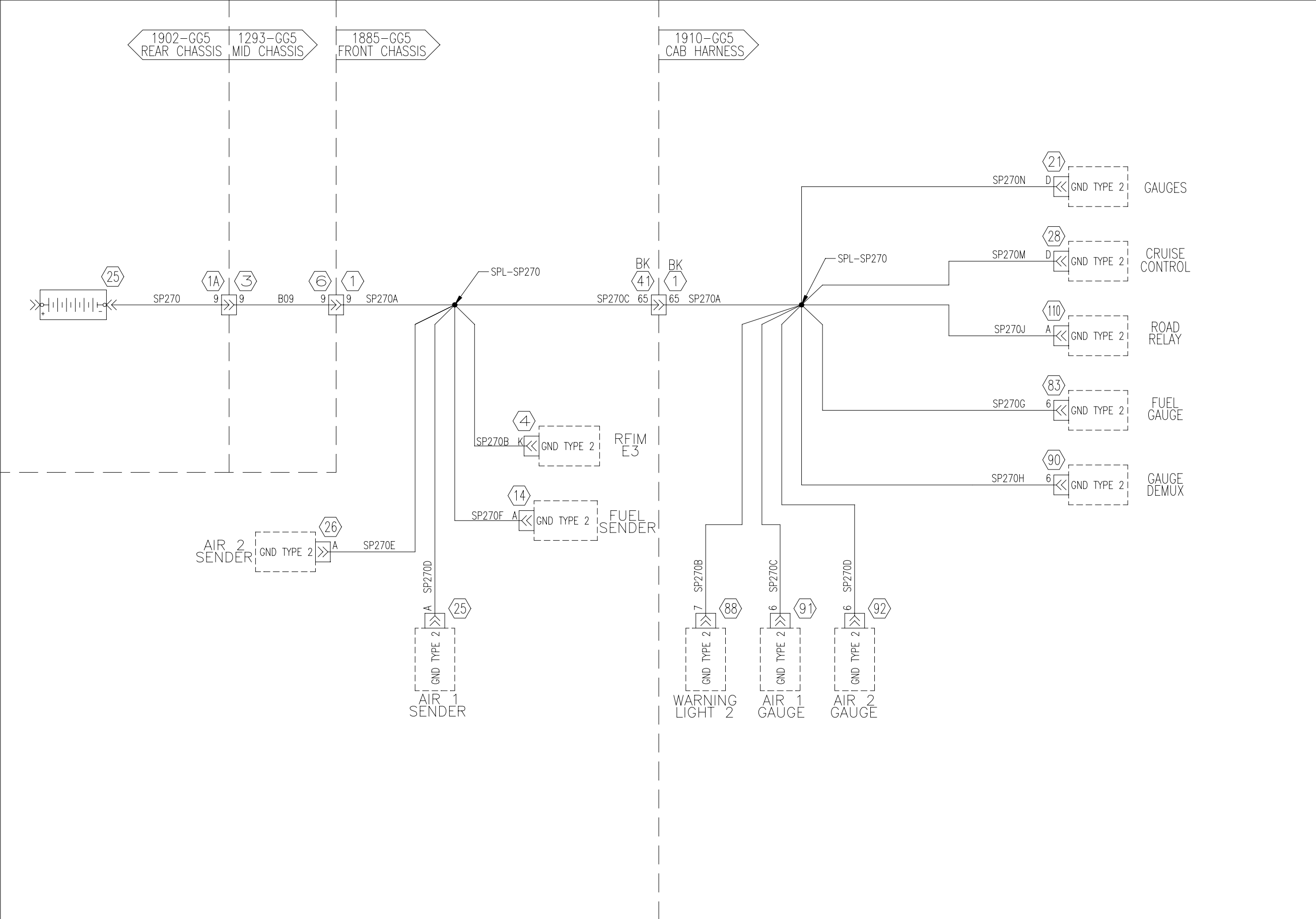
PAGE							ENGINEER	DATE	Spartan Motors Chassis, Inc.	TITLE
							BRUCE CASE			EXHAUST BRAKE
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LET.	REVISIONS						CHECKED BY	DATE		REV.
							RICK SCHUTTE	8/16/00		A



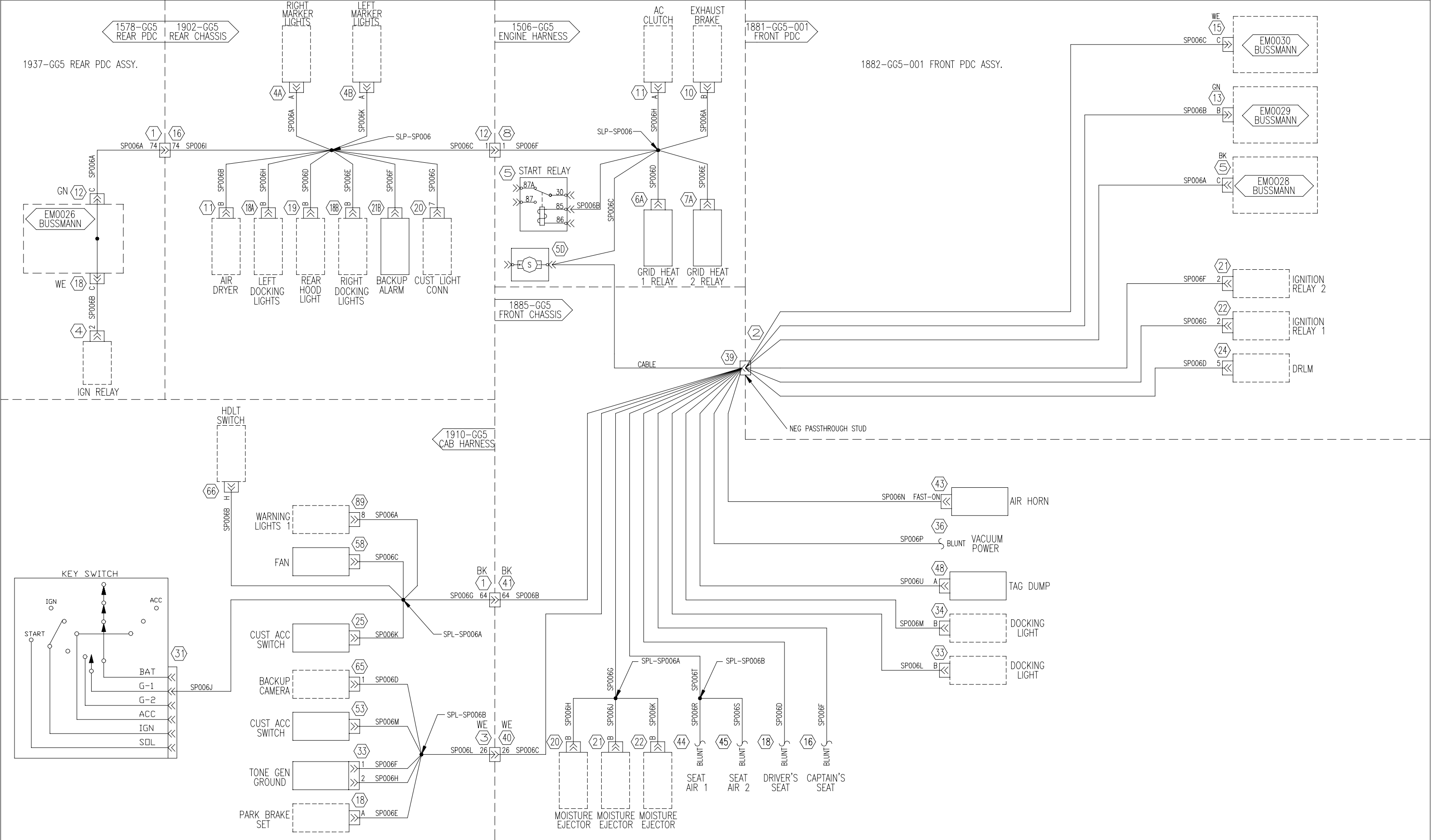
WORLD WIDE VEHICLES AND CHASSIS
1000 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813



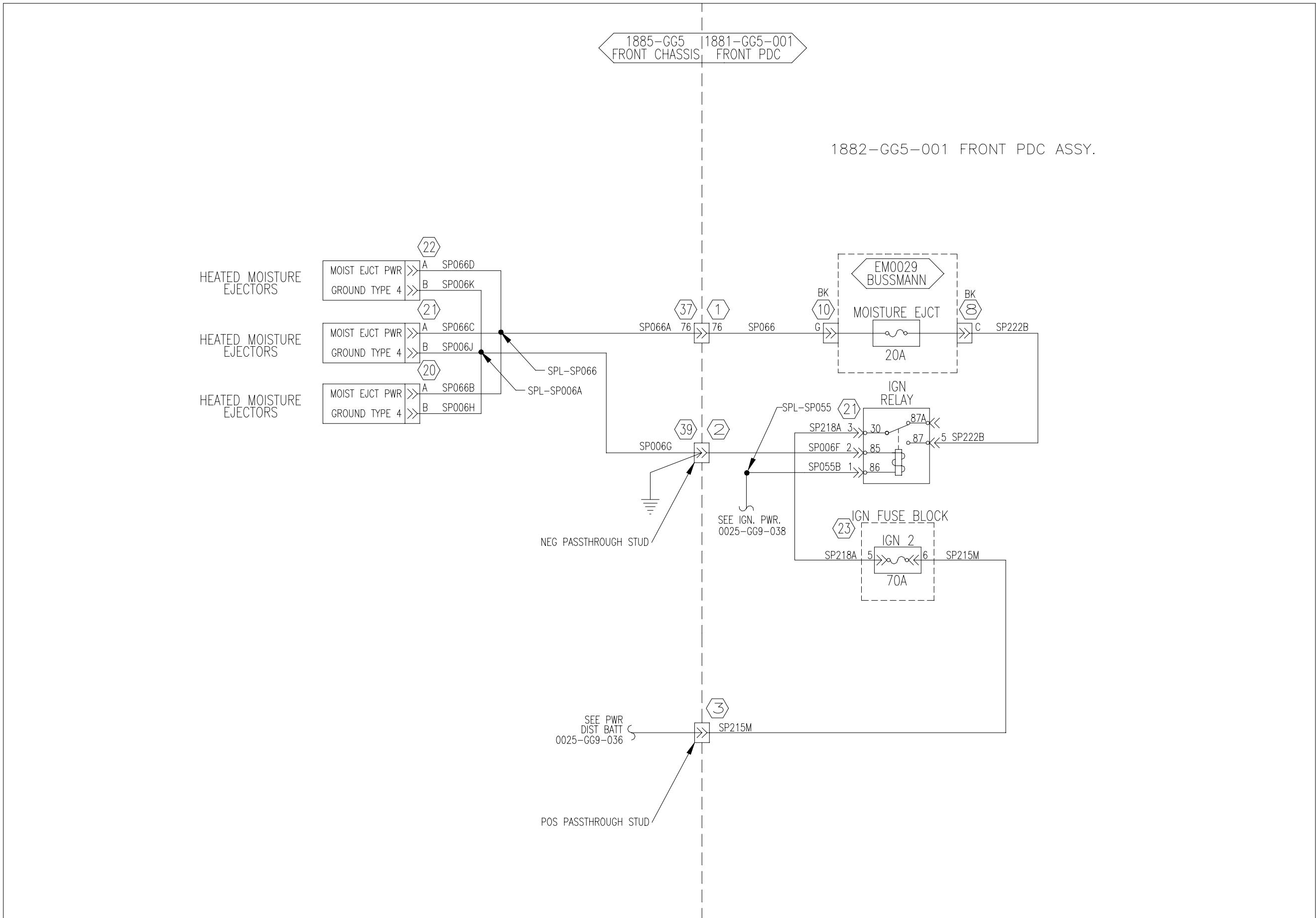
PAGE 1 OF 1	INITIAL RELEASE										ENGINEER BRUCE CASE	DATE 01/24/01	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE GROUND TYPE 1 DRAWING NUMBER 0025-GG9-016A REV. A
	REVISIONS										DRAWN BY TIM MARCOTTE	DATE 01/24/01		
	E.C.R.										CHECKED BY RICK SCHUTTE	DATE 02/15/01		
	DATE										BY EDG			



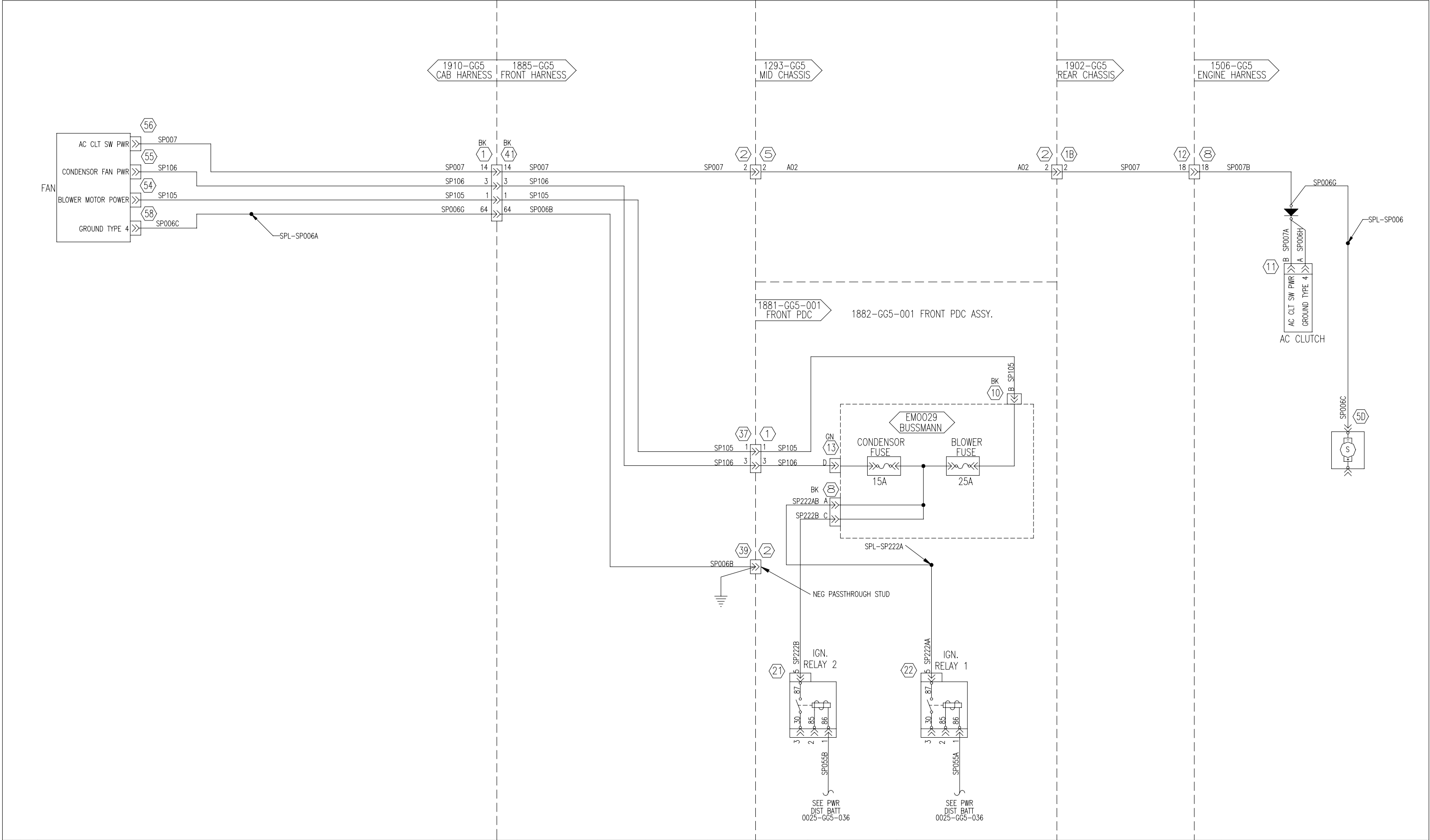
PAGE 1 OF 1	INITIAL RELEASE						ENGINEER BRUCE CASE	DATE 01/24/01	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE GROUND TYPE 2	
	REVISIONS						DRAWN BY TIM MARCOTTE	DATE 01/24/01		DRAWING NUMBER 0025-GG9-018	REV. A
	E.C.R.						CHECKED BY RICK SCHUTTE	DATE 02/14/01			
							CHECKED BY	DATE			

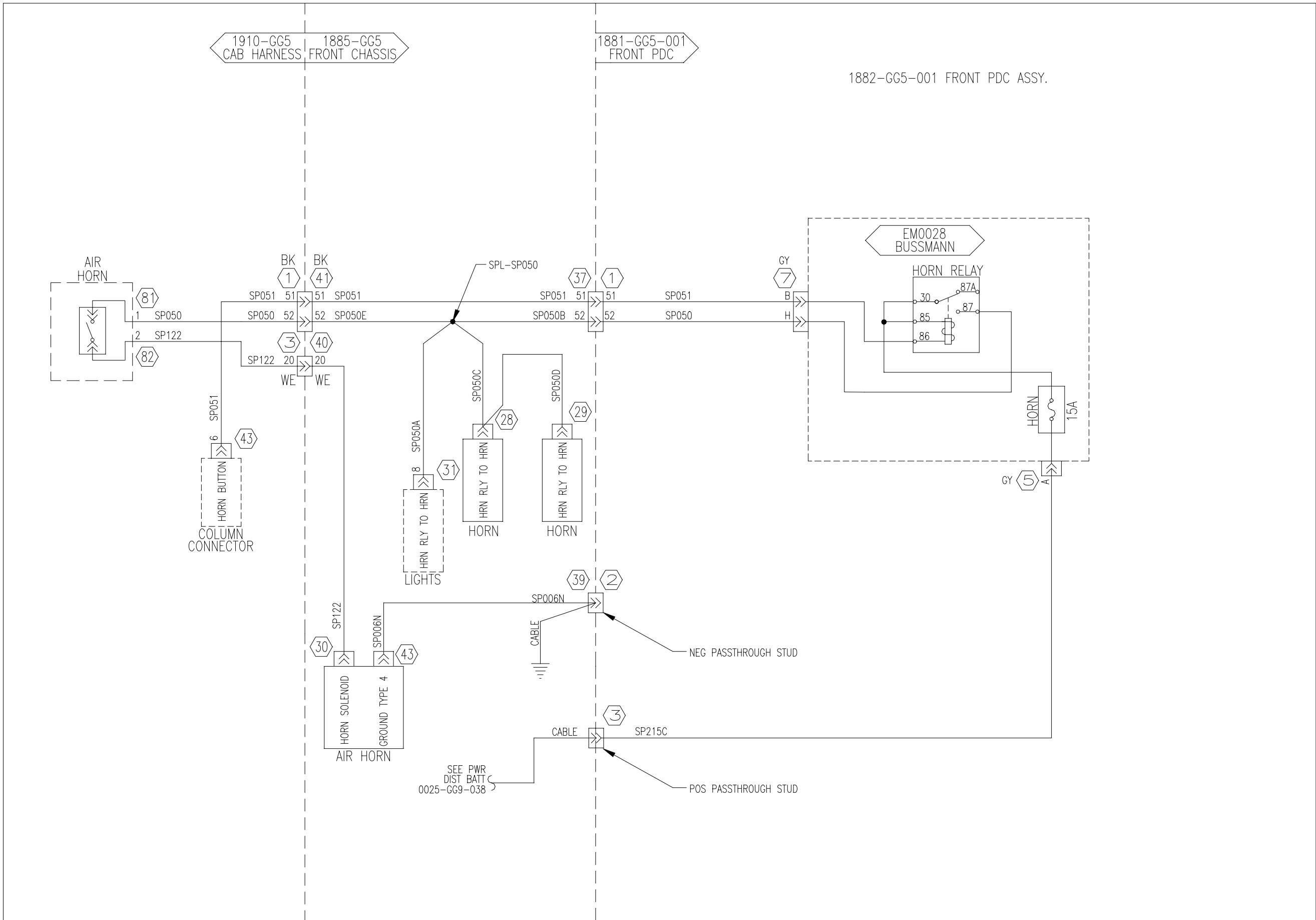


PAGE 1 OF 1						ENGINEER BRUCE CASE	DATE	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE GROUND TYPE 4	
						DRAWN BY TIM MARCOTTE	DATE 01/24/01		DRAWING NUMBER 0025-GG9-020	
						CHECKED BY RICK SCHUTTE	DATE 02/28/01		REV. A	
						APPROVED BY				
A INITIAL RELEASE			E.C.R.		02/26/02	DRG				
REVISIONS					DATE	BY	CHECKED BY			

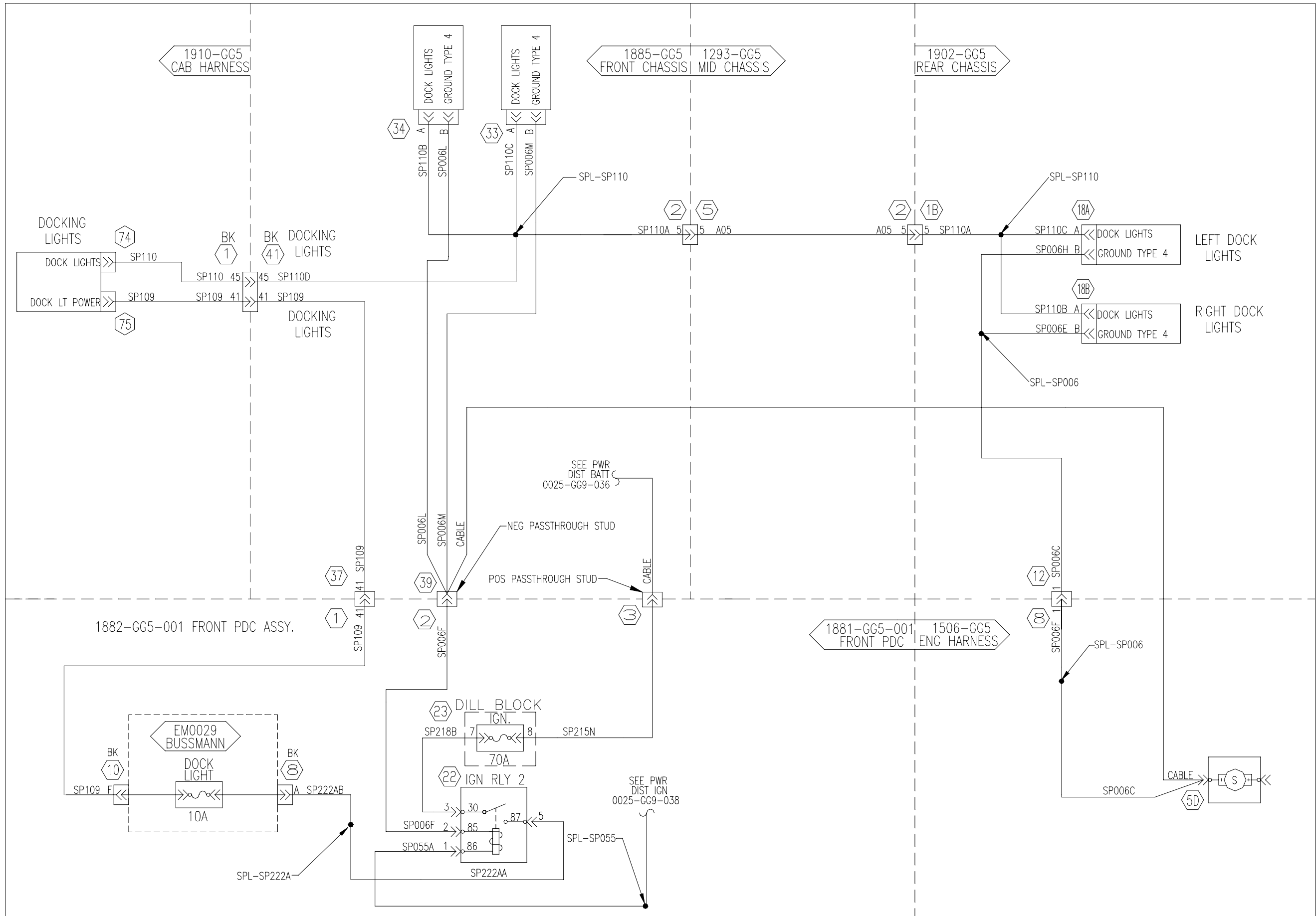


PAGE 1 OF 1								ENGINEER BRUCE CASE	DATE	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE HEATED MOISTURE EJECTORS	
								DRAWN BY TIM MARCOTTE	DATE 01/24/01		DRAWING NUMBER 0025-GG9-022	REV. A
								CHECKED BY RICK SCHUTTE	DATE 02/09/01			
INITIAL RELEASE			02/08/01	DRG								
LET.	REVISIONS		E.C.R.	DATE	BY	CHECKED BY	APPROVED BY					





PAGE 1 OF 1	INITIAL RELEASE						ENGINEER BRUCE CASE	DATE 01/26/01	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE HORN	
	REVISIONS						DRAWN BY TIM MARCOTTE	DATE 01/26/01		DRAWING NUMBER 0025-GG9-026	REV. A
	E.C.R.						CHECKED BY RICK SCHUTTE	DATE 02/05/01			
							DATE 01/26/01	DRG			

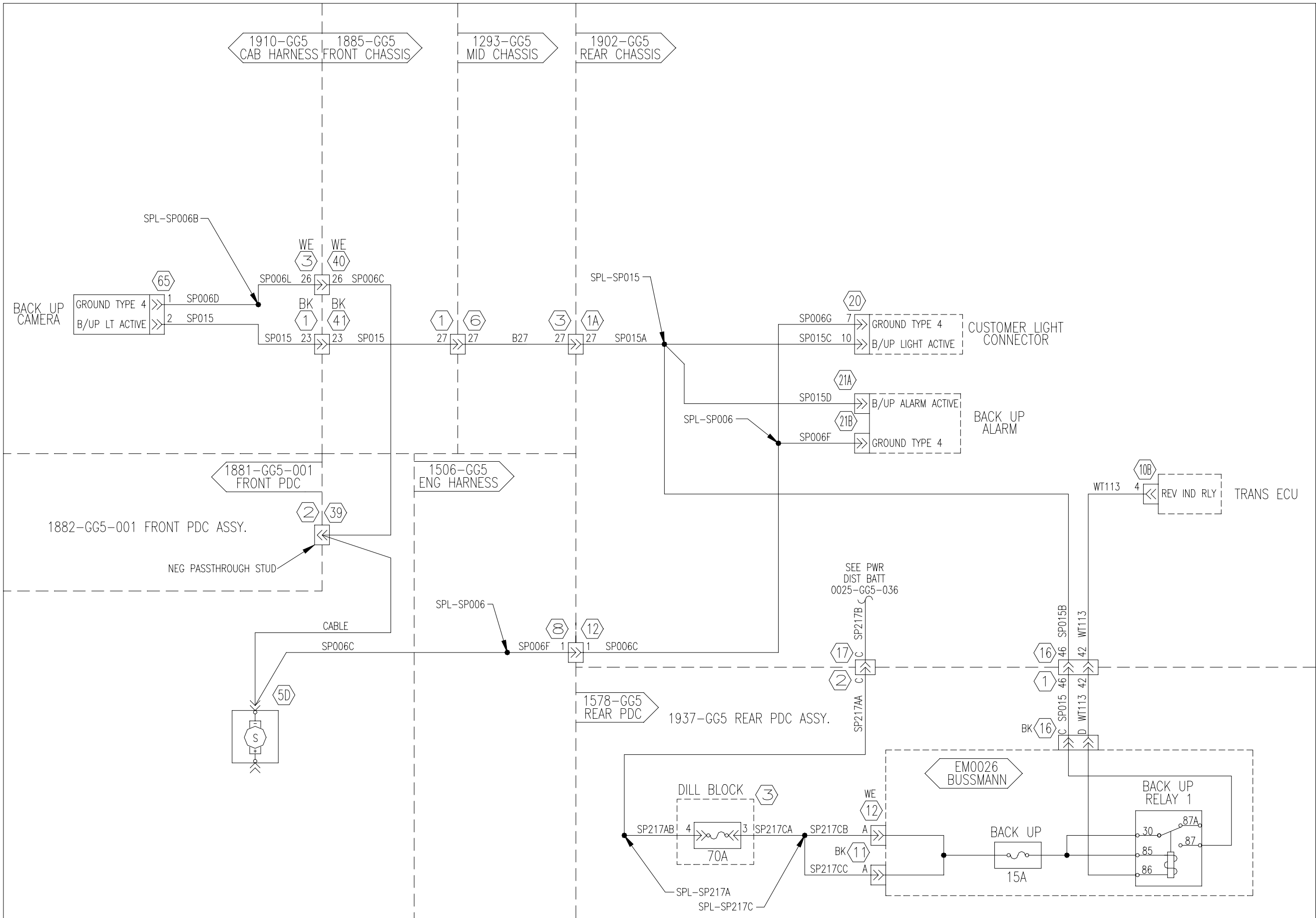


PAGE 1 OF 1							ENGINEER	DATE	Spartan Motors Chassis, Inc.	TITLE	
							BRUCE CASE			DOCKING LAMPS	
							DRAWN BY	DATE		DRAWING NUMBER	
							TIM MARCOTTE	01/30/01		REV.	
A INITIAL RELEASE						02/22/01	TSM				
LET.						REVISIONS	E.C.R.	DATE	BY	CHECKED BY	APPROVED BY
										RICK SCHUTTE	02/26/01

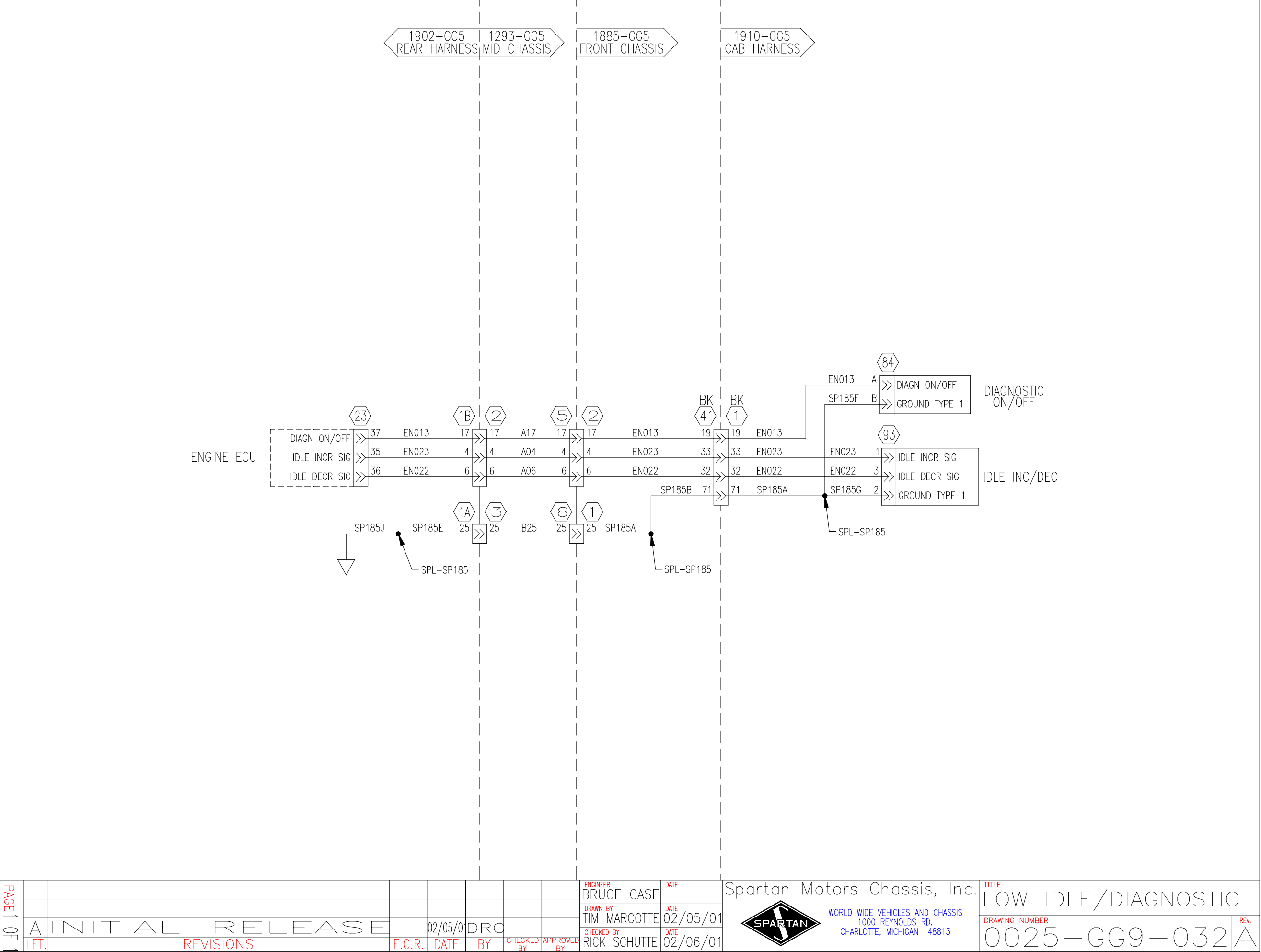
WORLD WIDE VEHICLES AND CHASSIS
1000 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813

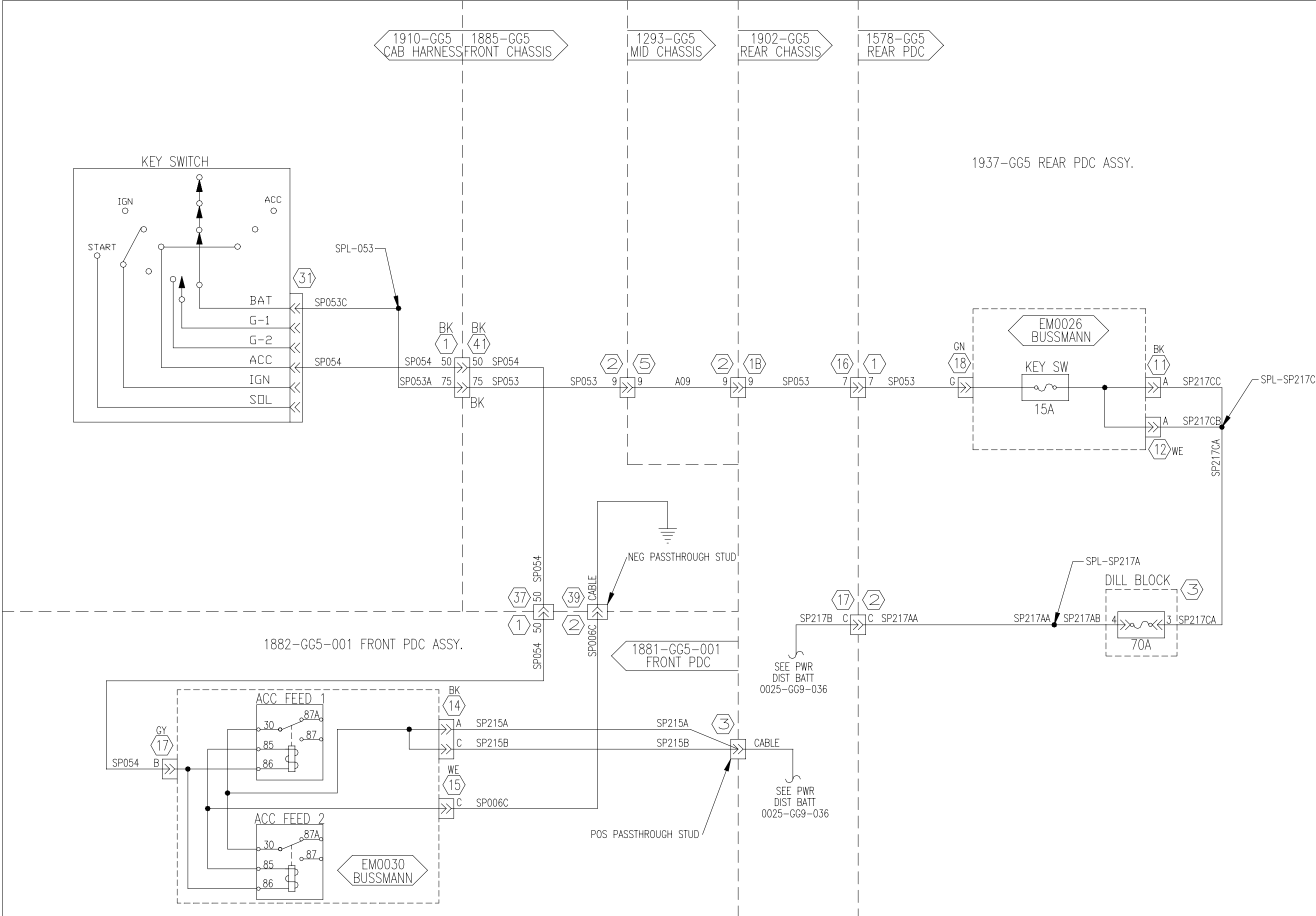
0025-GG9-028

A



PAGE 1 OF 1	INITIAL RELEASE				ENGINEER BRUCE CASE		DATE 01/25/01		Spartan Motors Chassis, Inc.		TITLE BACK UP LAMPS	
	LET.				DRAWN BY TIM MARCOTTE		DATE 01/31/01		WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813		DRAWING NUMBER 0025-GG9-030A	
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	E.C.R.				DATE 01/26/01		DRG					

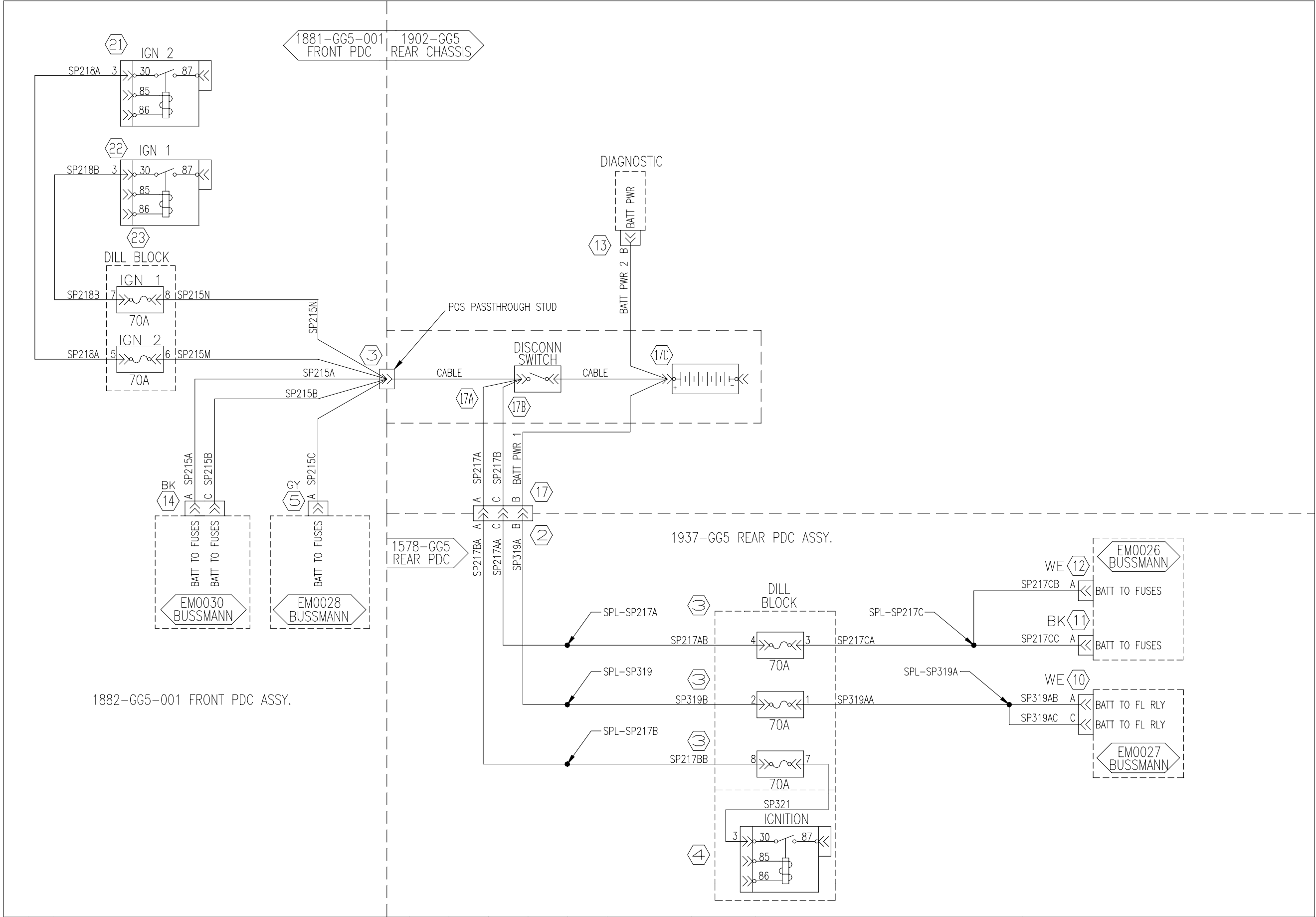




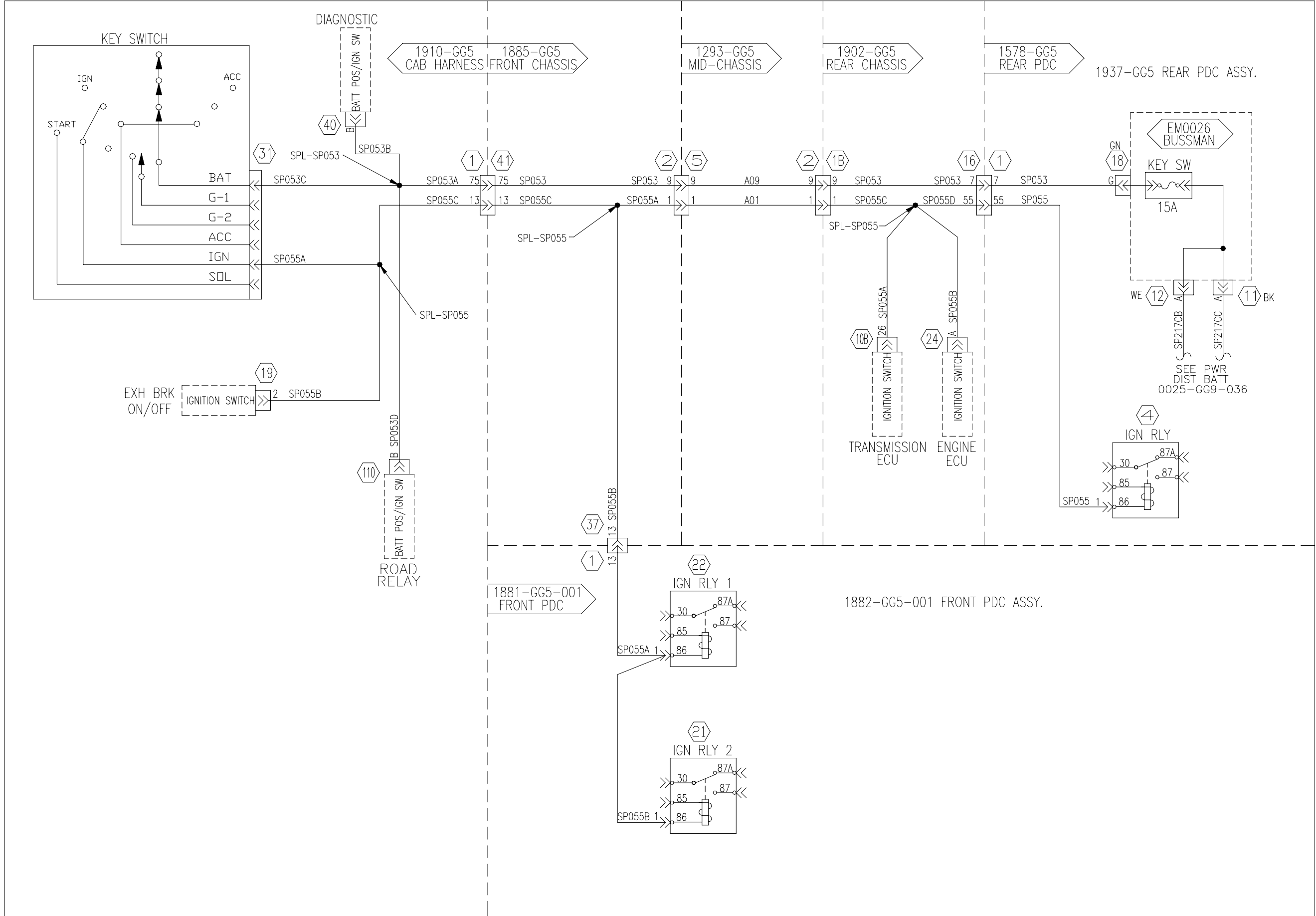
PAGE 1 OF 1	INITIAL RELEASE						ENGINEER	BRUCE CASE	DATE	Spartan Motors Chassis, Inc.		TITLE	POWER DIST ACCY	
							DRAWN BY	TIM MARCOTTE	DATE			DRAWING NUMBER	0025-GG9-034	
							CHECKED BY	RICK SCHUTTE	DATE			REV.	A	
							APPROVED BY							



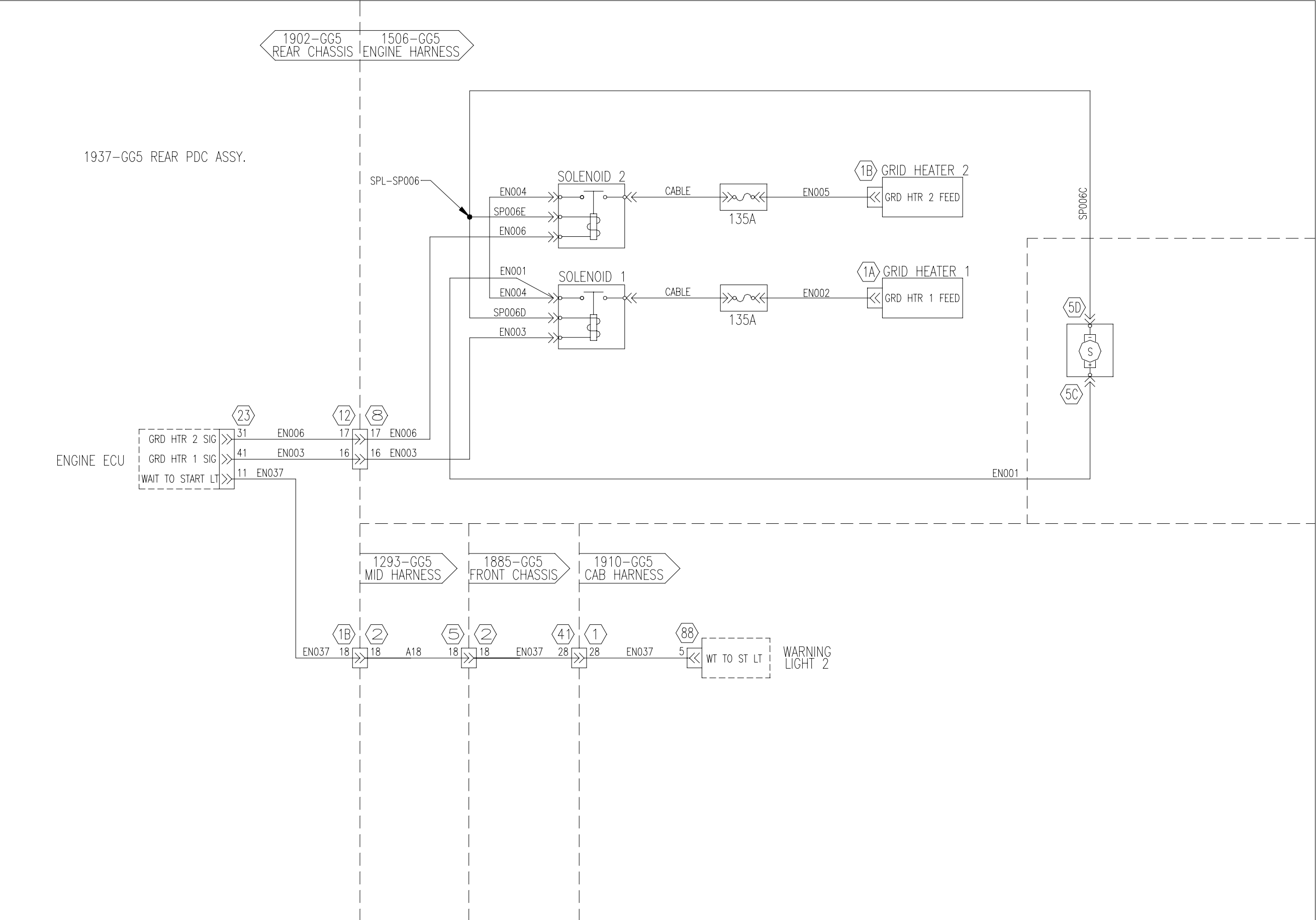
WORLD WIDE VEHICLES AND CHASSIS
1000 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813



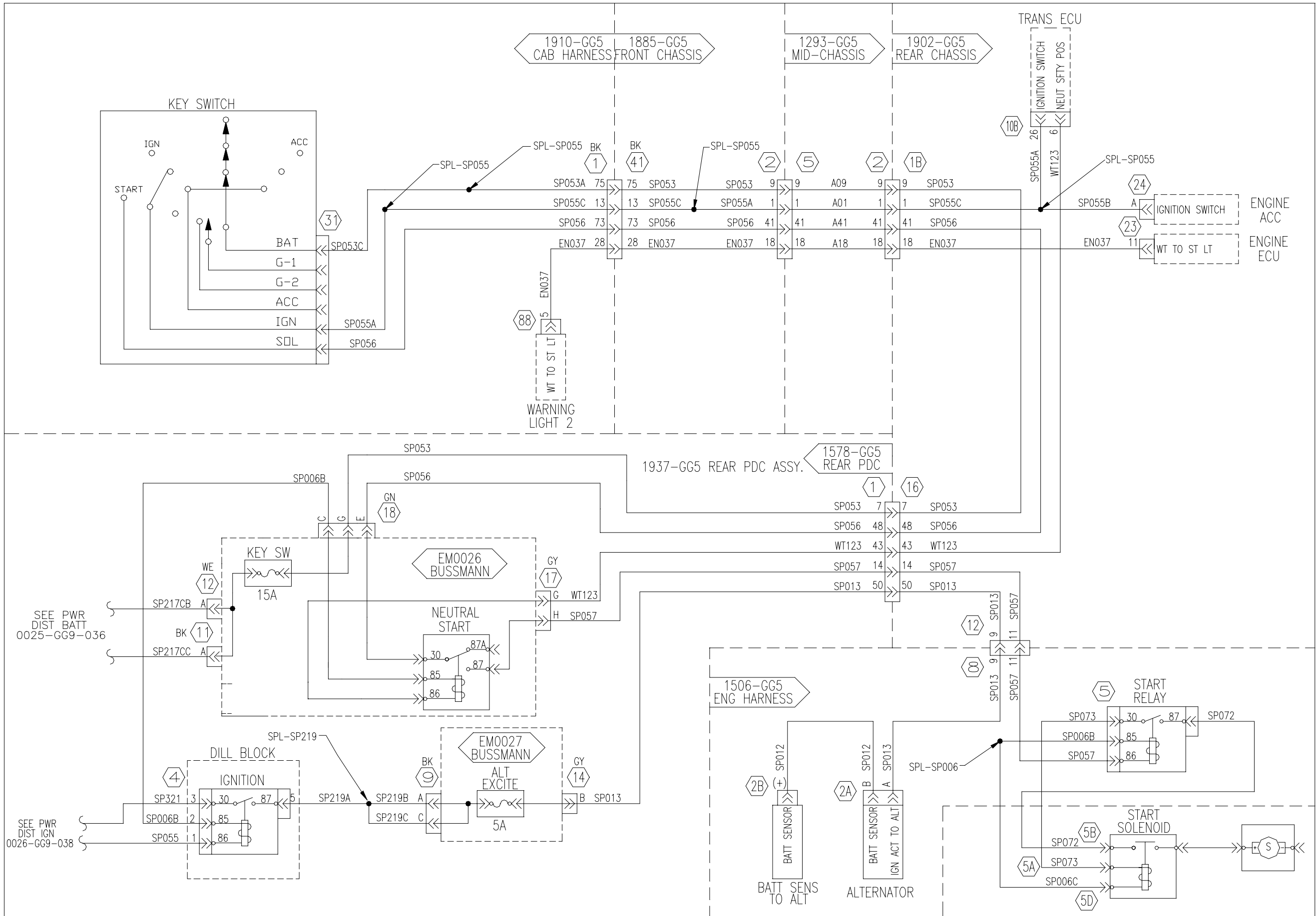
PAGE 1 OF 1							ENGINEER	DATE	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE					
							BRUCE CASE			POWER DIST. BATTERY					
							DRAWN BY	DATE		DRAWING NUMBER	REV.				
	A I N I T I A L R E L E A S E						TIM MARCOTTE	01/30/01							
							CHECKED BY	DATE							
LET.	REVISIONS						E.C.R.	DATE	BY	CHECKED BY	APPROVED BY	RICK SCHUTTE	02/26/01	0025—GG9—036	A
						02/22/01	TSM								



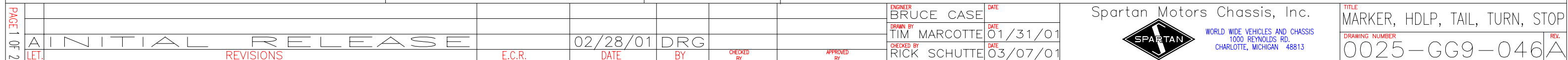
PAGE 1 OF 1							ENGINEER BRUCE CASE	DATE	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE POWER DIST. IGNITION
							DRAWN BY TIM MARCOTTE	DATE 01/30/01		DRAWING NUMBER
	A INITIAL RELEASE						CHECKED BY RICK SCHUTTE	DATE 02/26/01		0025-GG9-038
	LET.	REVISIONS		E.C.R.	DATE	BY	CHECKED BY	APPROVED BY		REV. A



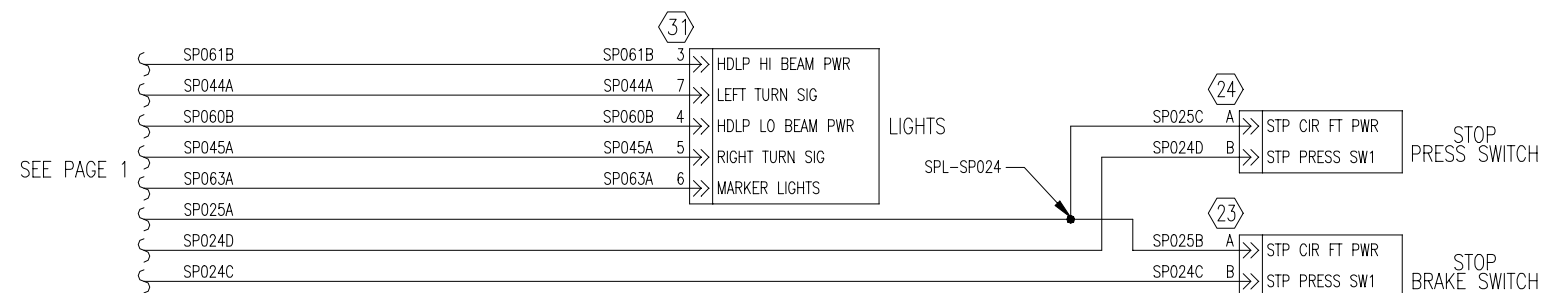
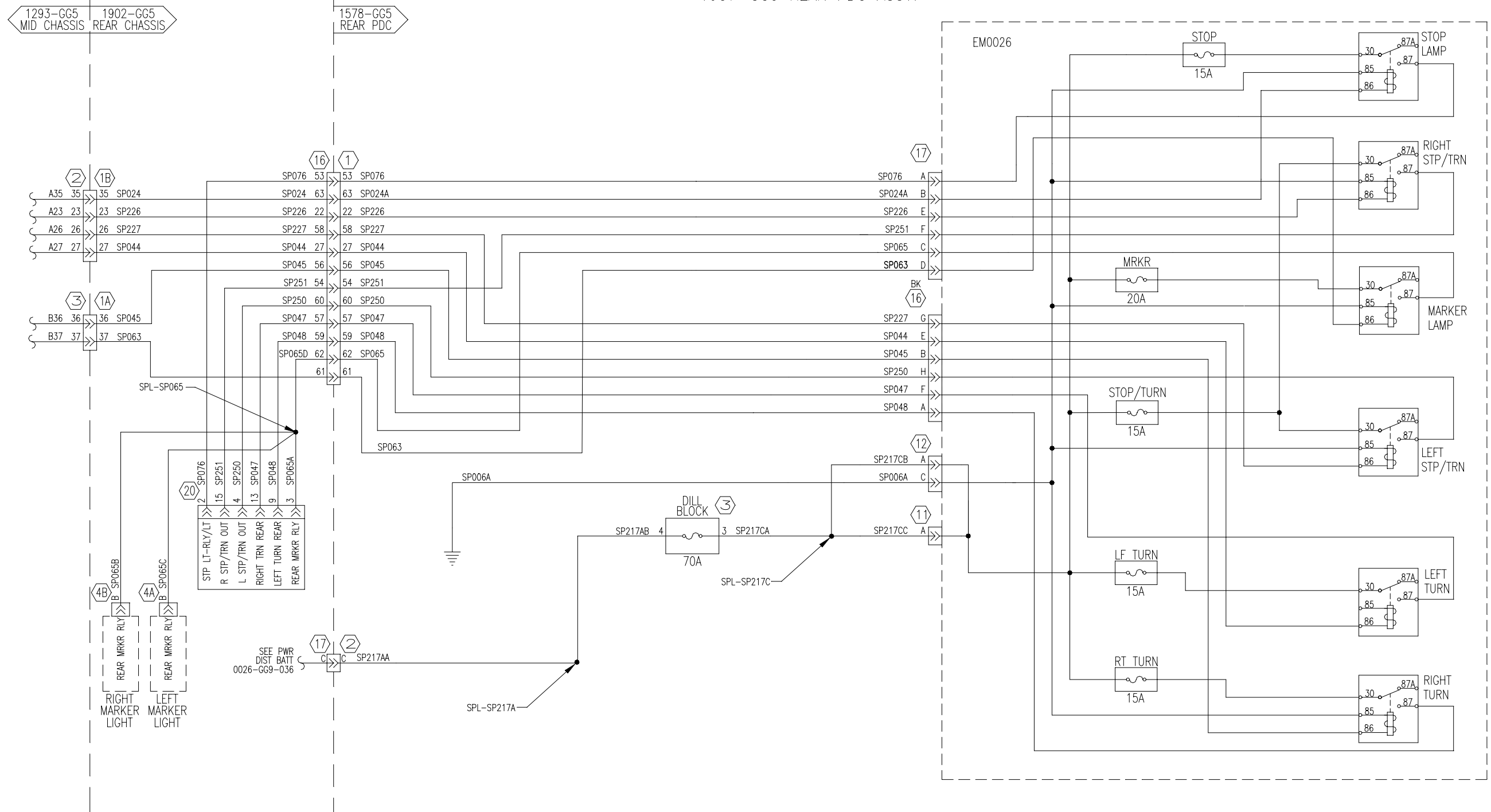
PAGE 1 OF 1									ENGINEER	DATE	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE	
									BRUCE CASE			PREHEATER	
									DRAWN BY	DATE		DRAWING NUMBER	
									TIM MARCOTTE	02/01/01			REV.
A INITIAL RELEASE				02/08/01	DRG					CHECKED BY	DATE		
LET.	REVISIONS				E.C.R.	DATE	BY	CHECKED BY	APPROVED BY	RICK SCHUTTE	02/09/01	0025-GG9-042	A

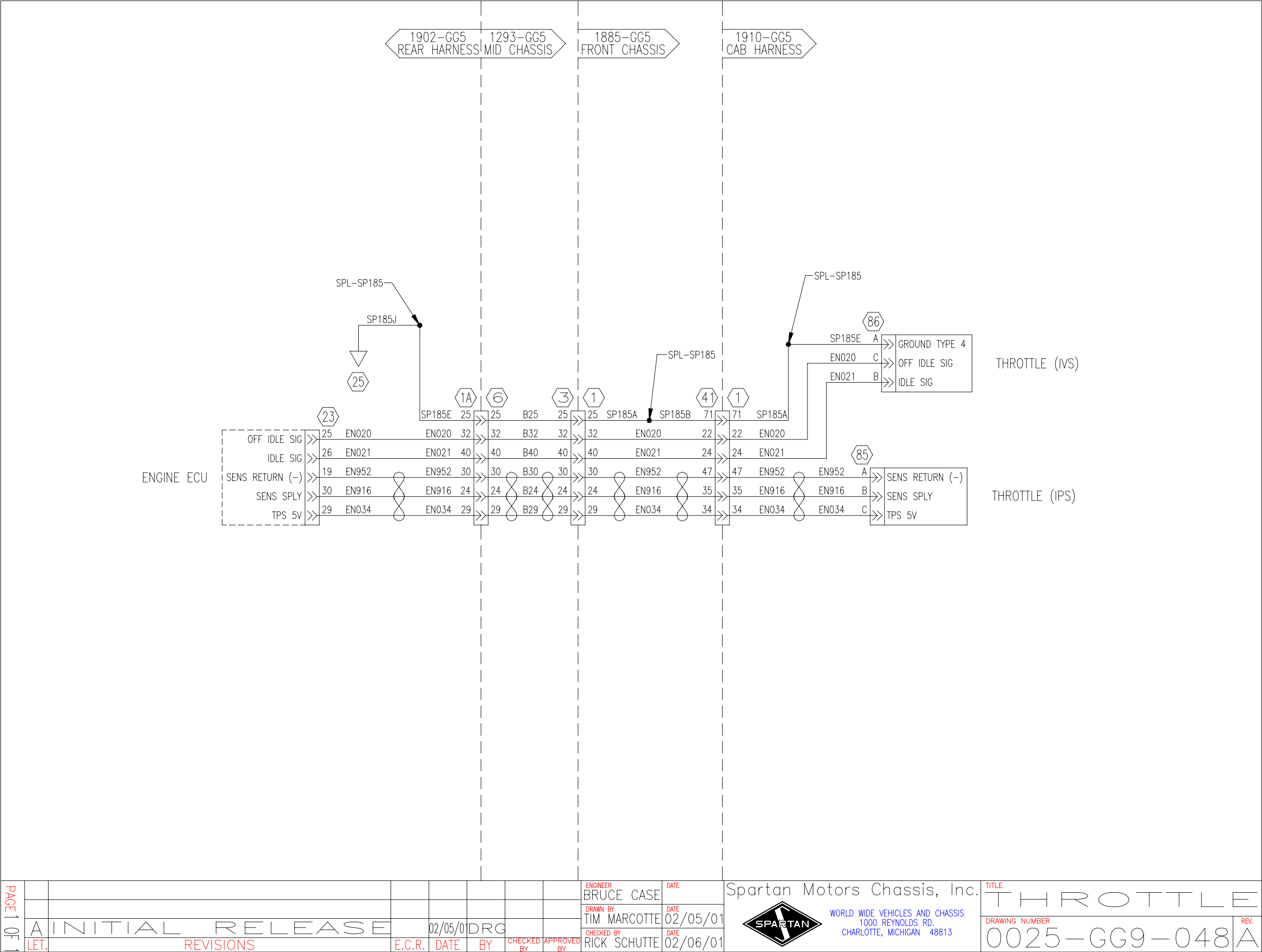


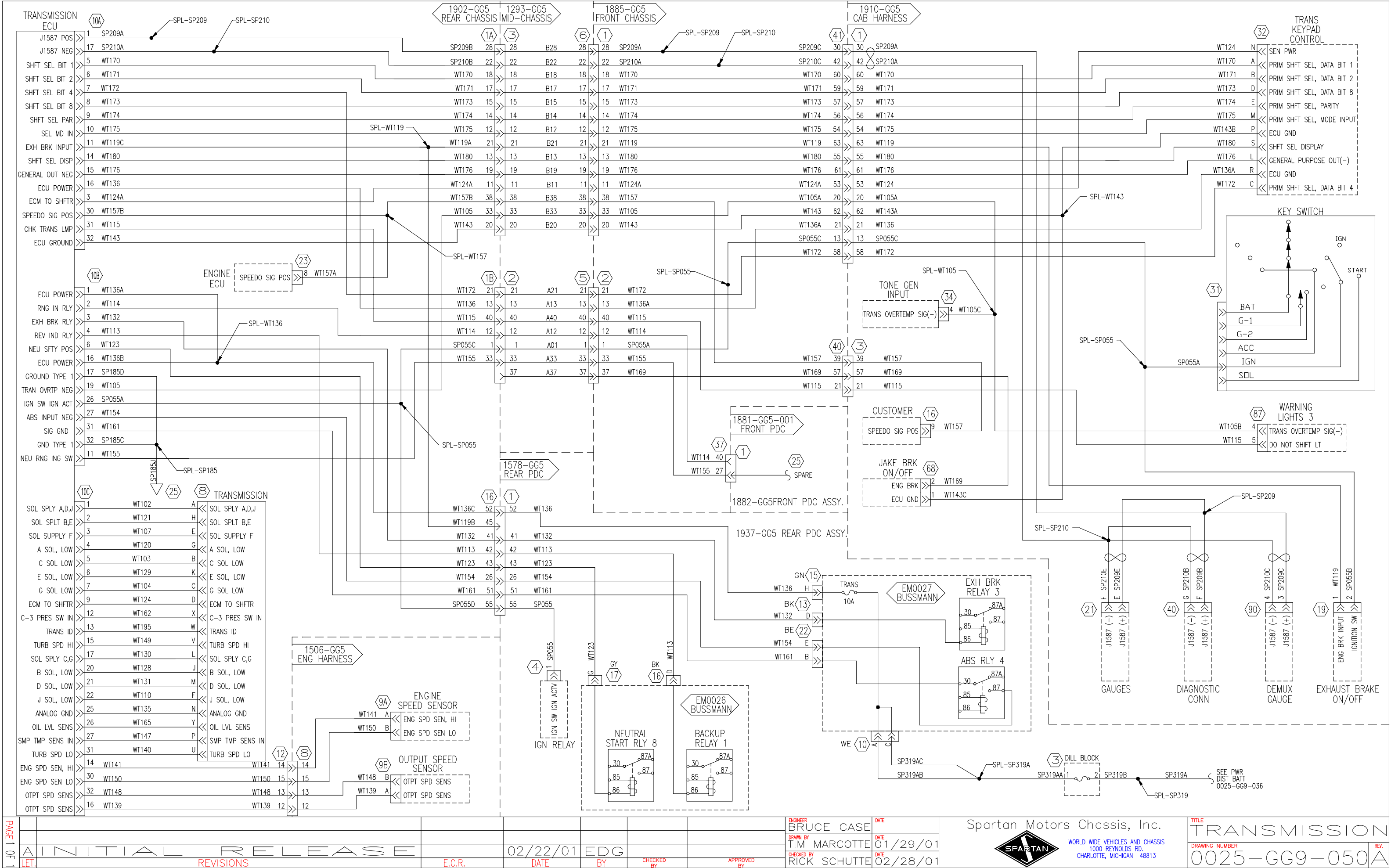
PAGE 1 OF 1	INITIAL RELEASE						ENGINEER BRUCE CASE	DATE 01/30/01	Spartan Motors Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	TITLE START, CHARGE DRAWING NUMBER 0025-GG9-044A REV.
	REVISIONS						DRAWN BY TIM MARCOTTE	DATE 01/30/01		
	E.C.R.						CHECKED BY RICK SCHUTTE	DATE 02/26/01		
	02/22/01						BY TSM			

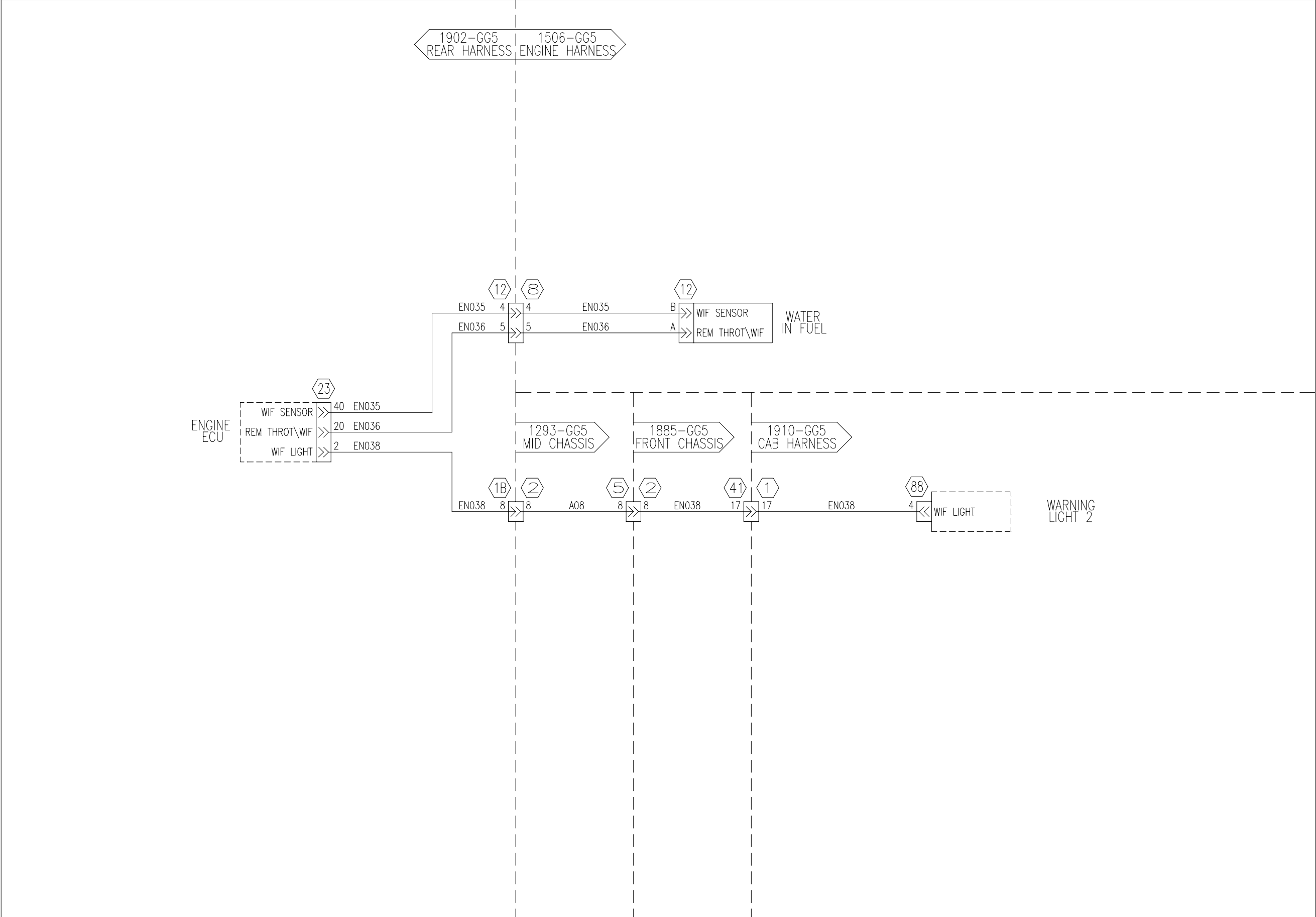


1937-GG5 REAR PDC ASSY.









PAGE 1 OF 1								ENGINEER	DATE	Spartan Motors Chassis, Inc.	TITLE
								BRUCE CASE			WATER IN FUEL
								DRAWN BY	DATE		DRAWING NUMBER
	A INITIAL RELEASE							TIM MARCOTTE	01/31/01		0025-GG9-052
LET.	REVISIONS							E.C.R.	DATE	BY	REV.
								CHECKED BY	DATE	APPROVED BY	
								RICK SCHUTTE	02/01/01		A

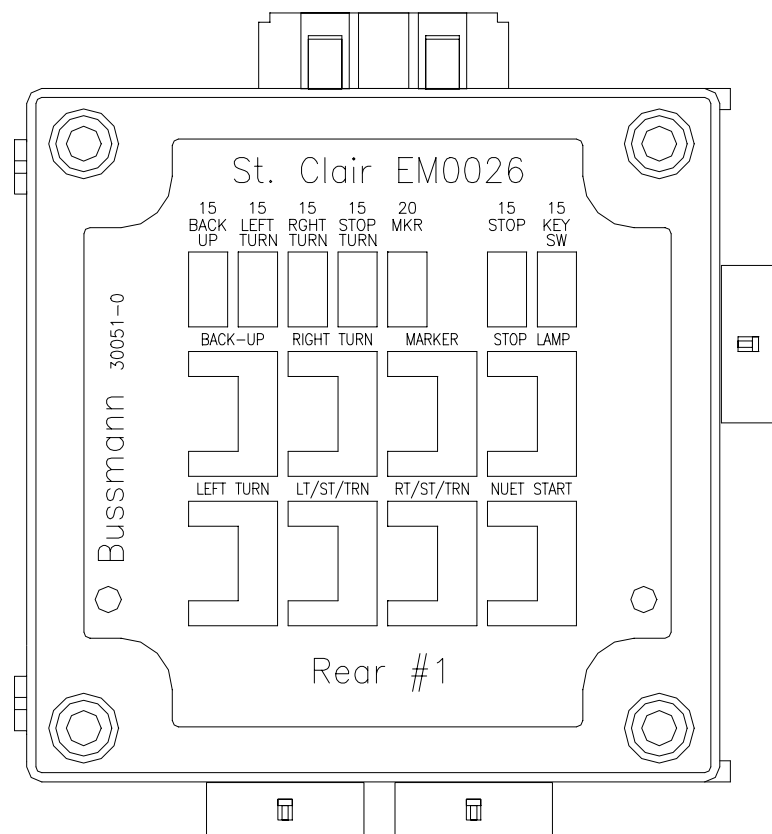
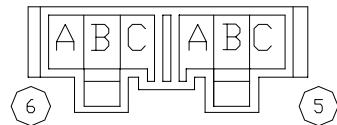


WORLD WIDE VEHICLES AND CHASSIS
1000 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813

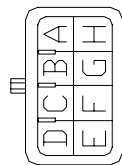
REV	LOC	DESCRIPTION	DATE	BY	ECN
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	--	FORMAT UPDATE	09/15/98	MKG	

CAVITY	CIRCUIT
A	BATTERY
B	---
C	GROUND

CAVITY	CIRCUIT
A	BATTERY
B	---
C	GROUND

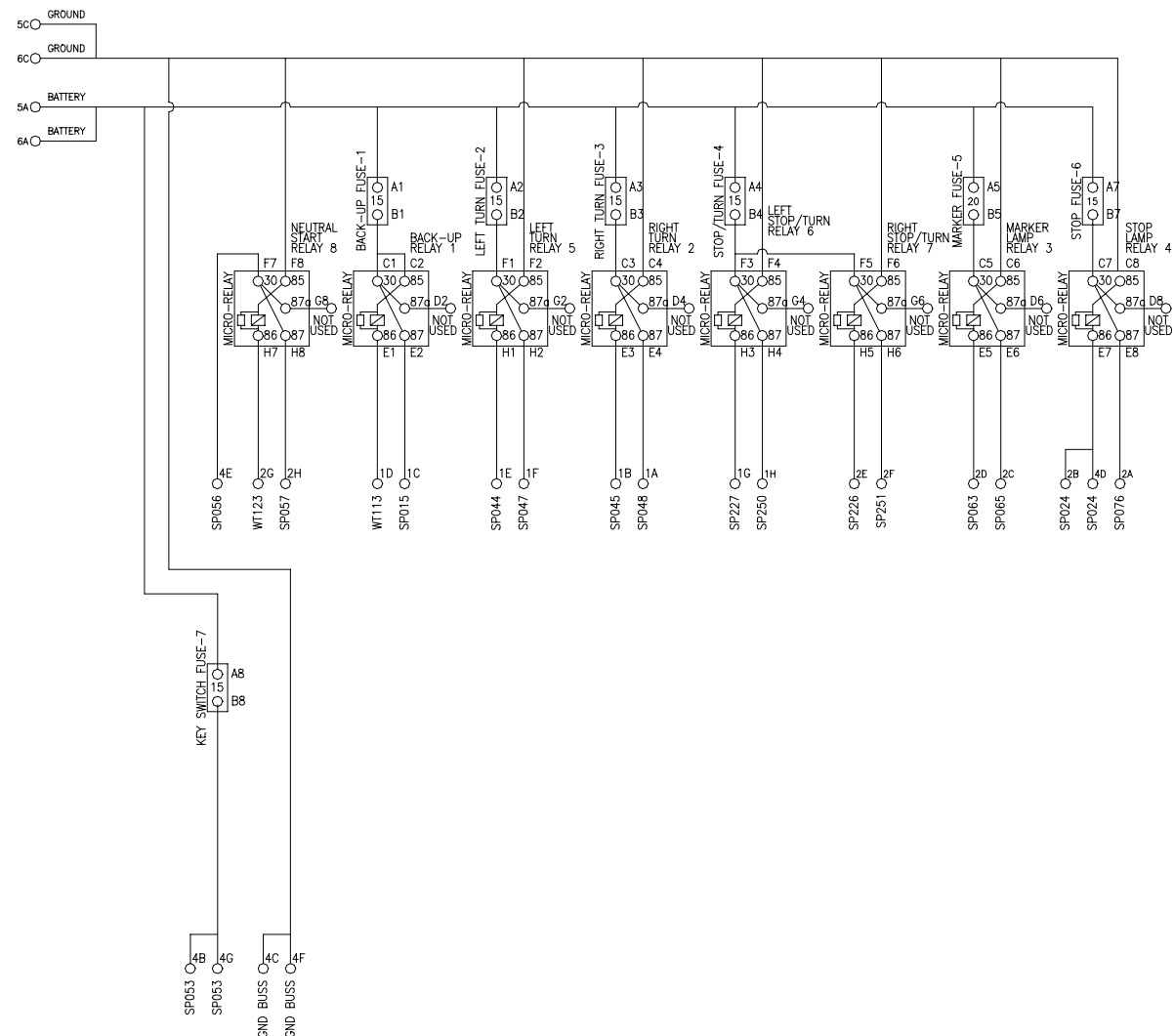
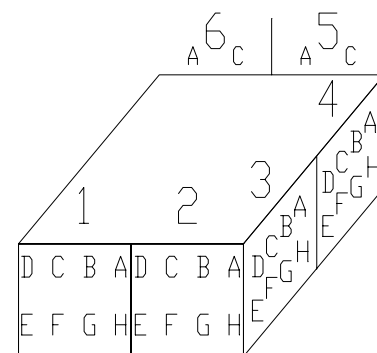
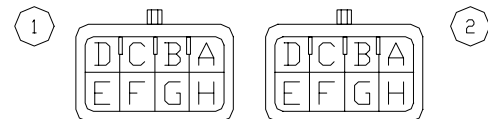


CAVITY	CIRCUIT
A	---
B	SP053
C	GND BUSS
D	SP024
E	SP056
F	GND BUSS
G	SP053
H	---



CAVITY	CIRCUIT
A	SP048
B	SP045
C	SP015
D	WT113
E	SP044
F	SP047
G	SP227
H	SP250

CAVITY	CIRCUIT
A	SP076
B	SP024
C	SP065
D	SP063
E	SP226
F	SP251
G	WT123
H	SP057



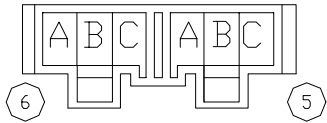
TOLERANCES	
0-299mm	-1
300-999mm	-2
1000-2499mm	-3
2500-4999mm	-5
5000-7499mm	-7
OVER-7500mm	-1

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	SCALE NONE	ALL DIMENSIONS ARE IN MILLIMETERS
	DRAWN TLT	CHECKED APPROVED
	DATE: 05/28/98 REFERENCE: BUSSMAN# 30051-0	
DESC: VEC, MW02E- REAR #1 DWG#: EM0026		
SHEET: 1 OF 1		SIZE: C

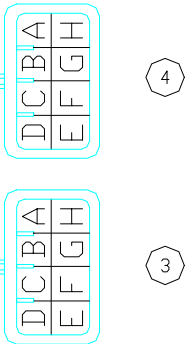
DWG # EM0027 REV B

REV	LOC	DESCRIPTION	DATE	BY	ECN
A	ALL	COMPONENT PRINT RELEASE	06/09/98	MKG	0079
--	--	FORMAT UPDATE	09/15/98	MKG	
B	B7	SP195 MOVED TO 87A FROM 87	10/19/98	KMT	0220
	ALL	OEM PT NUMBER CHANGED TO 30052-1			

CONNECTOR #6		CONNECTOR #5	
CAVITY	CIRCUIT	CAVITY	CIRCUIT
A	IGNITION +	A	BATTERY 2+
B	---	B	---
C	IGNITION +	C	BATTERY 2+

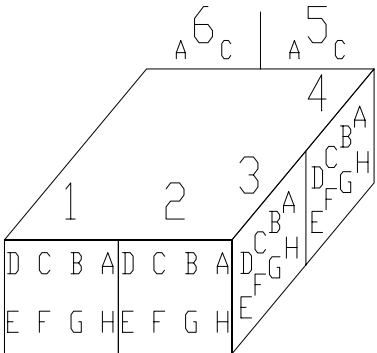
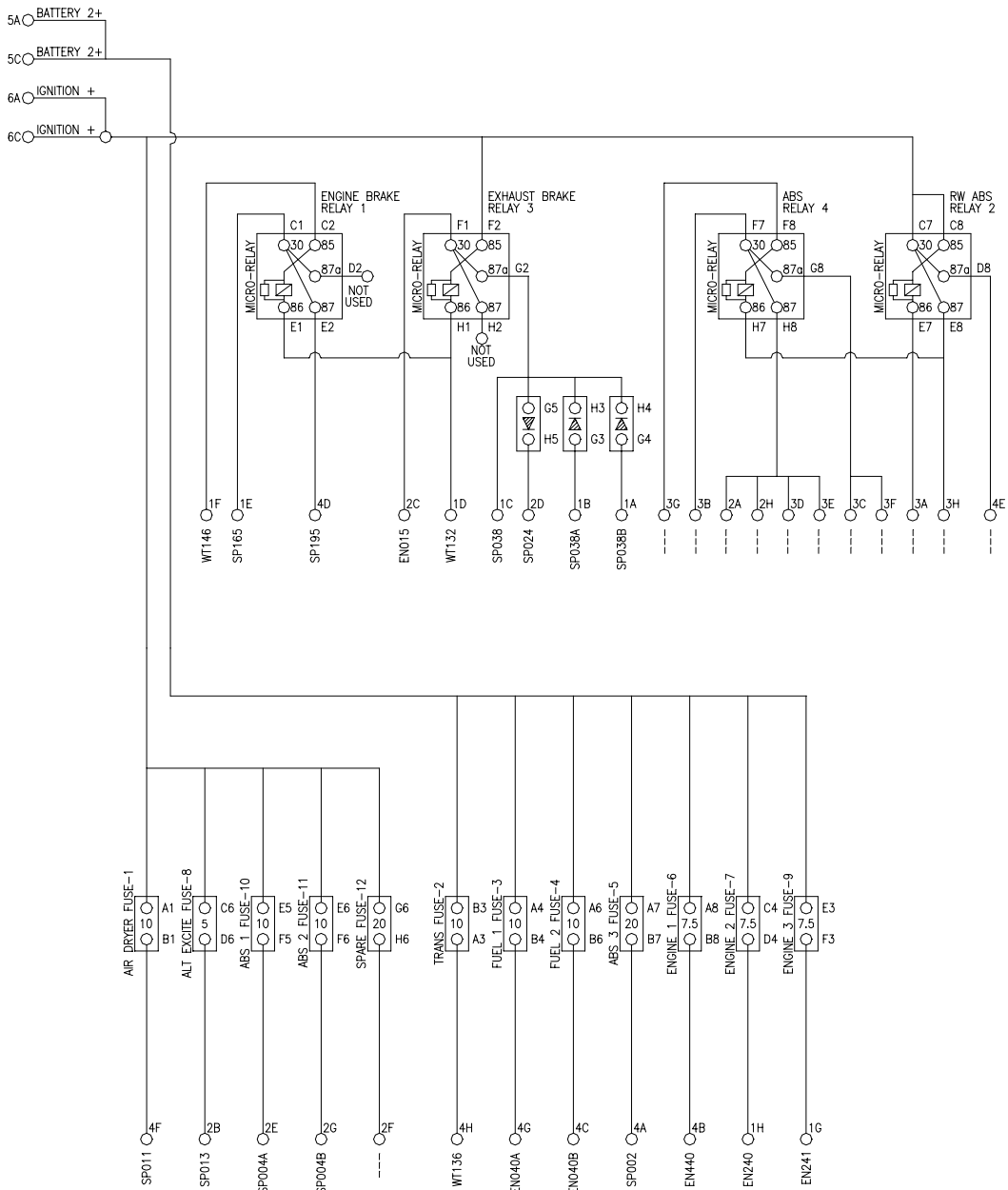
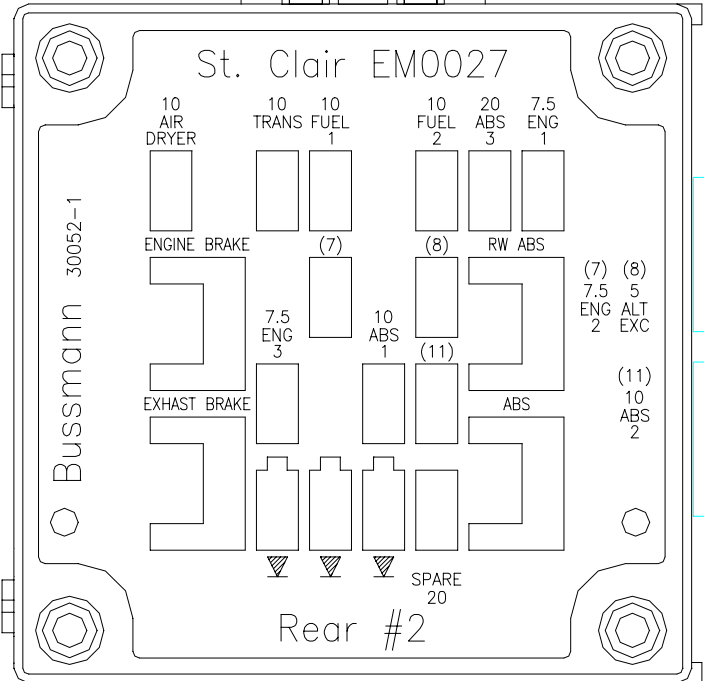


CONNECTOR #4	
CAVITY	CIRCUIT
A	---
B	EN440
C	EN040B
D	SP195
E	TBD
F	SP011
G	EN040A
H	WT136



CONNECTOR #3	
CAVITY	CIRCUIT
A	TBD
B	TBD
C	TBD
D	TBD
E	TBD
F	TBD
G	TBD
H	TBD

CONNECTOR #1		CONNECTOR #2	
CAVITY	CIRCUIT	CAVITY	CIRCUIT
A	SP038B	A	TBD
B	SP038A	B	SP013
C	SP038	C	EN015
D	WT132	D	SP024
E	SP165	E	SP013
F	WT146	F	---
G	EN241	G	SP011
H	EN240	H	TBD



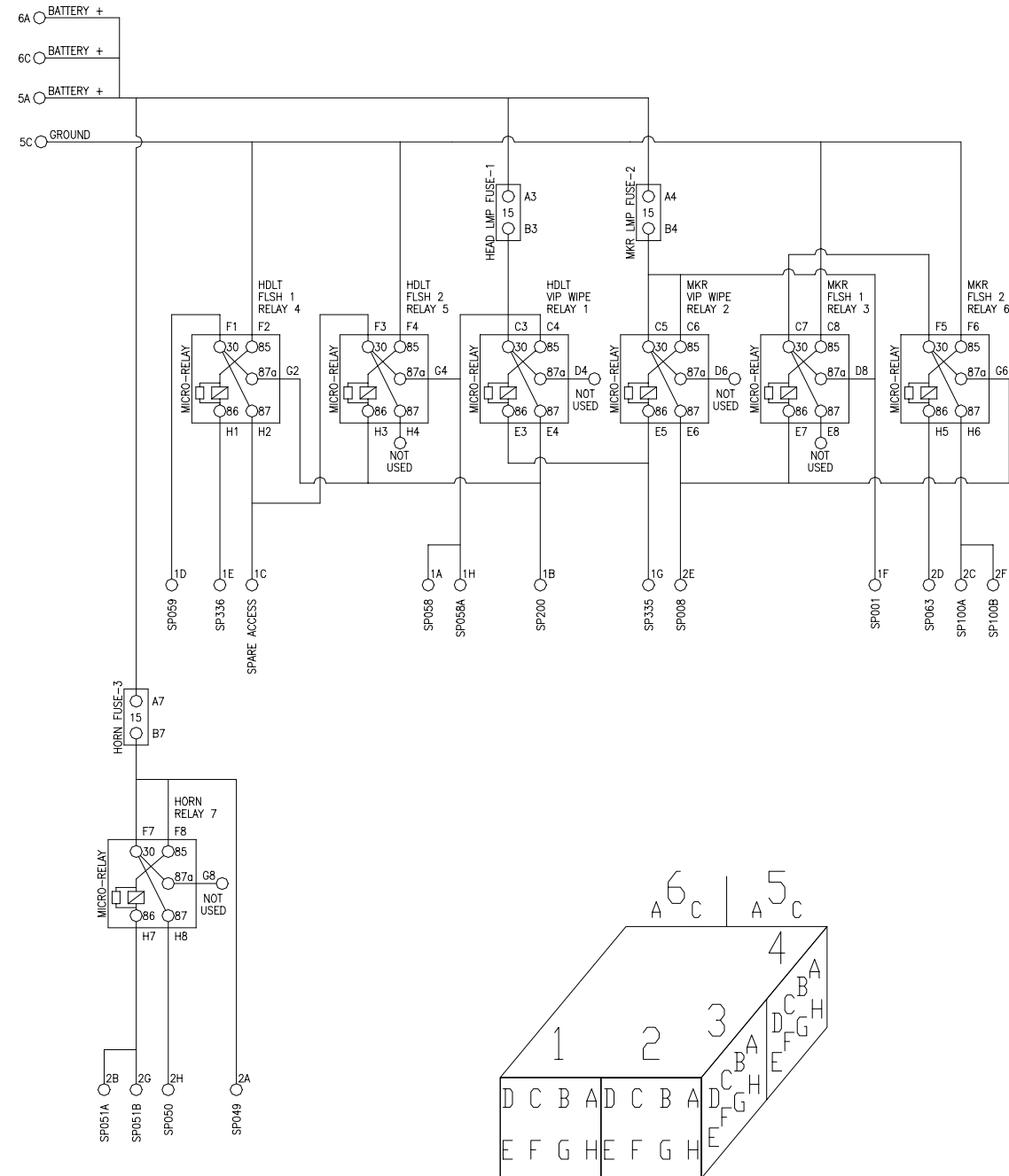
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SCALE	NONE	ALL DIMENSIONS ARE IN MILLIMETERS
DRAWN	TLT	CHECKED
DATE: 05/28/98	REFERENCE: BUSSMAN #30052-0	
DESC: VEC, MWO2E- REAR #2		
DWG#: EM0027		SHEET: 1 OF 1
		SIZE: C

TOLERANCES		
0-299mm	-10	+15
300-999mm	-25	+35
1000-2499mm	-35	+50
2500-4999mm	-50	+100
5000-7499mm	-75	+125
OVER-7500mm	-100	+150

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DATE: 05/28/98	DRAWN TLT	CHECKED	APPROVED	
REFERENCE: BUSSMAN 30053-0				
DESC: VEC, MWO2E - FRONT #1				
	DWG#: EM0028	SHEET: 1 OF 1		SIZE: C



CONNECTOR #1		CONNECTOR #2	
CAVITY	CIRCUIT	CAVITY	CIRCUIT
A	SP058	A	SP049
B	SP200	B	SP051A
C	---	C	SP100A
D	SP059	D	SP063
E	SP336	E	SP008
F	SP001	F	SP100B
G	SP335	G	SP051B
H	SP058A	H	SP050

NOTE:REMOVE RELAY'S WO/VIP!



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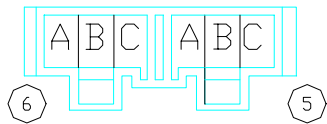
SCALE NONE	ALL DIMENSIONS ARE IN MILLIMETERS	
DRAWN TLT	CHECKED	APPROVED

REF: VEC, MWO2E- FRONT #1			
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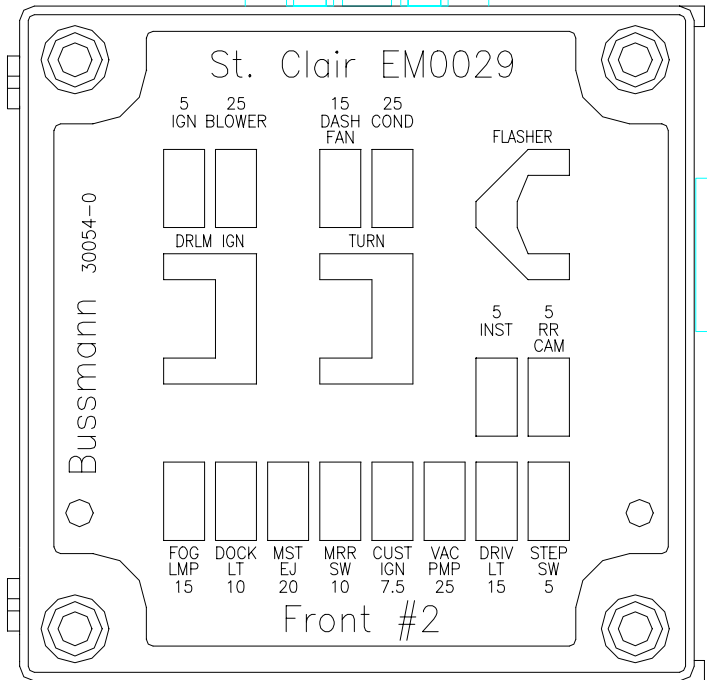
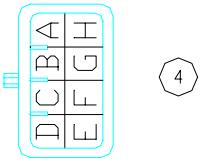
	DWG#: EM0028	SHEET: 1 OF 1	SIZE: C
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DWG # EM0029 REV A

CONNECTOR #6		CONNECTOR #5	
CAVITY	CIRCUIT	CAVITY	CIRCUIT
A	IGNITION	A	IGNITION
B	---	B	---
C	IGNITION	C	GROUND

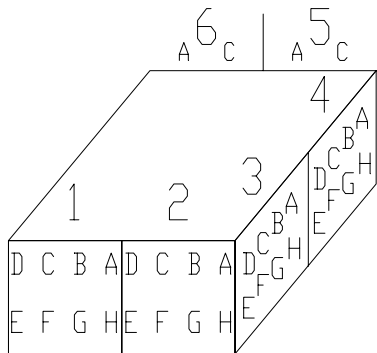
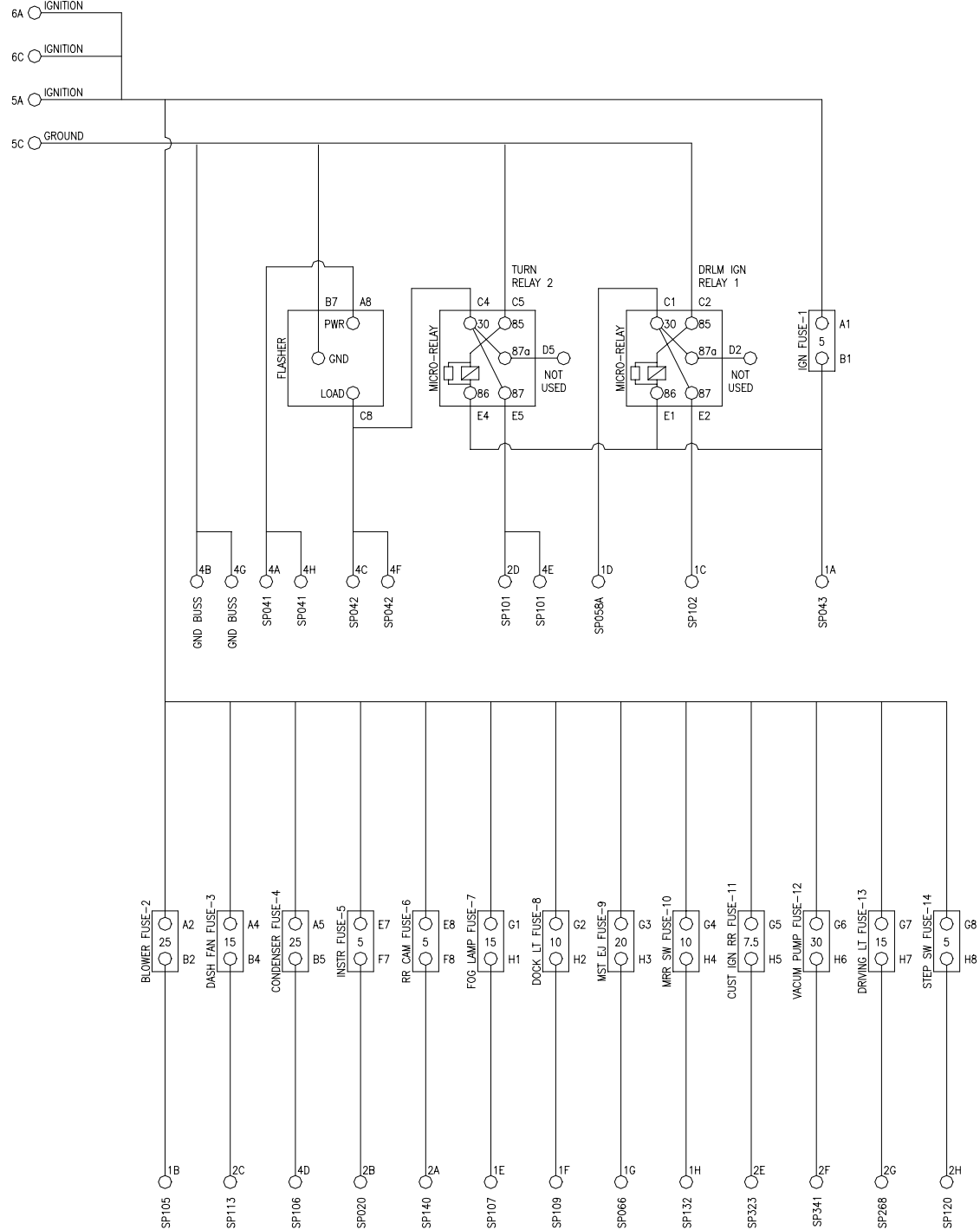


CONNECTOR #4	
CAVITY	CIRCUIT
A	SP041
B	GND BUSS
C	SP042
D	SP106
E	SP101
F	SP042
G	GND BUSS
H	SP041



CONNECTOR #1	
CAVITY	CIRCUIT
A	SP043
B	SP105
C	SP102
D	SP058A
E	SP107
F	SP109
G	SP066
H	SP132

CONNECTOR #2	
CAVITY	CIRCUIT
A	SP140
B	SP020
C	SP113
D	SP101
E	SP323
F	SP341
G	SP268
H	SP120



REV/LOC	DESCRIPTION	DATE	BY	ECN
A	ALL COMPONENT PRINT RELEASE	06/08/98	MKG	0079
--	ALL FORMAT UPDATE	10/19/98	MKG	
--	C9 VAC FUSE CHANGED FROM 25A TO 30A			

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SCALE
NONE

DRAWN
TLT

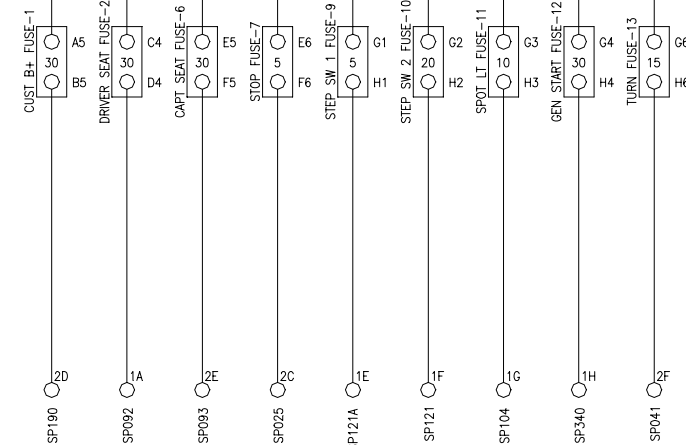
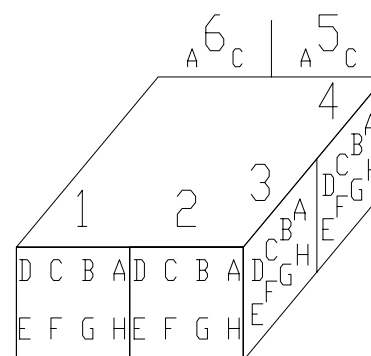
CHECKED
APPROVED

DATE: 05/28/98
REFERENCE: 30054-0
DESC: VEC, MWO2E- FRONT #2
DWG#: EM0029

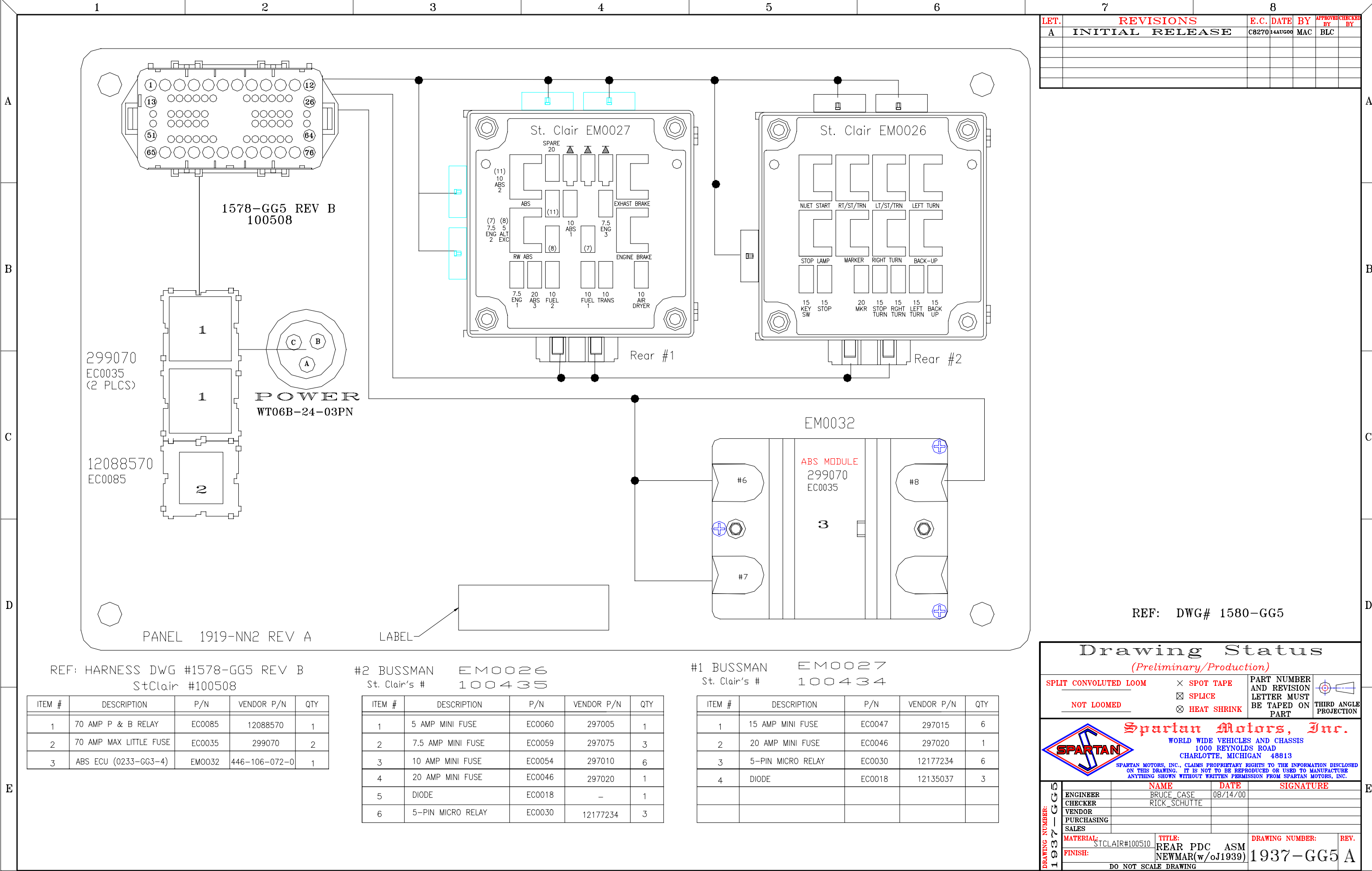
SHEET: 1 OF 1
SIZE: C

TOLERANCES		
0-299mm	-10	+15
300-999mm	-25	+35
1000-2499mm	-35	+50
2500-4999mm	-50	+100
5000-7499mm	-75	+125
OVER-7500mm	-100	+150

CONNECTOR #1		CONNECTOR #2	
CAVITY	CIRCUIT	CAVITY	CIRCUIT
A	SP092	A	SP094
B	SP124	B	SP054
C	SP192A	C	SP025
D	SP192	D	SP190
E	SP121A	E	SP093
F	SP121	F	SP041
G	SP104	G	SP192B
H	SP340	H	SP086



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DATE: 05/28/98		DRAWN	CHECKED APPROVED
REFERENCE: BUSSMAN #30055-0		TLT	
DESC: VEC, MW02E- FRONT #3			
	DWG#: EM0030	SHEET: 1 OF 1	SIZE: C



LET.		REVISIONS			E.C.	DATE	BY	APPROVED	CHECKED
A		INITIAL RELEASE			CB270	14AUG00	MAC	BLC	

REF: HARNESS DWG #1578-GG5 REV B
StClair #100508

ITEM #	DESCRIPTION	P/N	VENDOR P/N	QTY
1	70 AMP P & B RELAY	EC0085	12088570	1
2	70 AMP MAX LITTLE FUSE	EC0035	299070	2
3	ABS ECU (0233-GG3-4)	EM0032	446-106-072-0	1

#2 BUSSMAN EM0026
St. Clair's # 100435

ITEM #	DESCRIPTION	P/N	VENDOR P/N	QTY
1	5 AMP MINI FUSE	EC0060	297005	1
2	7.5 AMP MINI FUSE	EC0059	297075	3
3	10 AMP MINI FUSE	EC0054	297010	6
4	20 AMP MINI FUSE	EC0046	297020	1
5	DIODE	EC0018	-	1
6	5-PIN MICRO RELAY	EC0030	12177234	3

#1 BUSSMAN EM0027
St. Clair's # 100434

ITEM #	DESCRIPTION	P/N	VENDOR P/N	QTY
1	15 AMP MINI FUSE	EC0047	297015	6
2	20 AMP MINI FUSE	EC0046	297020	1
3	5-PIN MICRO RELAY	EC0030	12177234	6
4	DIODE	EC0018	12135037	3

REF: DWG# 1580-GG5

Drawing Status
(Preliminary/Production)

SPLIT CONVOLUTED LOOM

NOT LOOMED

× SPOT TAPE

☒ SPLICE

☒ HEAT SHRINK

PART NUMBER AND REVISION LETTER MUST BE TAPED ON PART

THIRD ANGLE PROJECTION

SPARTAN

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1000 REYNOLDS ROAD

CHARLOTTE, MICHIGAN 48813

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ENGINEER

CHECKER

VENDOR

PURCHASING

SALES

MATERIAL:

FINISH:

NAME

BRUCE CASE

RICK SCHUTTE

STCLAIR#100510

REAR PDC ASM

NEWMAR(w/oJ1939)

DATE

08/14/00

SIGNATURE

DRAWING NUMBER: 1937-GG5

TITLE:

DRAWING NUMBER:

REV.

DO NOT SCALE DRAWING

1937-GG5 A

89