

SPARTAN CHASSIS, INC.

ELECTRICAL SYSTEMS GUIDE

"America's Choice for Performance"

Motorhome Chassis

Motorhome Chassis



Spartan Chassis, Inc.
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- 1) ABBREVIATIONS
- 2) WIRE LIST
- 3) SYMBOLS
- 4) SCHEMATICS

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5) CONNECTOR DESCRIPTION

DRAWING FUNCTION	DRAWING NUMBER
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BACKBONE ENGINE HARNESS	3065–GG10B
CAB HARNESS	3086–GG10A
FRONT ABS HARNESS	2665–GG10A
FRONT CHASSIS HARNESS	3070–GG10A
NF/TF CHP WIPER RELAY HARNESS	3326–GG10B
MAIN CHASSIS HARNESS	3060–GG10D
REAR CHASSIS HARNESS	2888–GG10C
START/RUN CUMMINS HARNESS	3093–GG10A
TAG AXLE ABS HARNESS	2664–GG10A

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
Brakeplate	BKPLT

DESCRIPTION	ABBREVIATION
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
Brake	BRK
Breaker	BRKR

DESCRIPTION	ABBREVIATION
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
Booster Skin	TBSKIN

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
Cleaning	CLNG

DESCRIPTION	ABBREVIATION
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
Coolant	COOL
Corner	CORN

DESCRIPTION	ABBREVIATION
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
Continually Increasing Rate	RAMP

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
Elbow	EL

DESCRIPTION	ABBREVIATION
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
End of test	EOT
Exhaust pressure regulator	EPR

DESCRIPTION	ABBREVIATION
Equalizer	EQLZR
Equipped	EQUIP
Engine RPM	ERPM
European Community Commission	ESCC
Escutcheon	ES CUT
Evaporative	EVAP
Evaporator	EVAP
Exchanger	EXCH
Exhaust	EXH
Exhaust	EXH
Expanding	EXPDG
Expansion	EXP N
External	EXT
Extension	EXTN
Exterior	EXTR
Eyelet	EYLT

ABBREVIATION LIST

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
Heat Cycle	HC

DESCRIPTION	ABBREVIATION
Head	HD
Head	HD
Handle	HDL
Headlining	HDLNG
Headlamp	HDLP
Header	HDR
Hardware	HDW
Hinge	HE

DESCRIPTION	ABBREVIATION
Handle Force - Park Brake	HFPB
High	HI
Holder	HLDR
High Line Pressure	HLP
Hanger	HNGR
Hold Down	HOLDN
Hood	HOOD
Horizontal	HORIZ

ABBREVIATION LIST

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 Input	LPBI
Hydraulic Line Pressure –Before Lh	LPBLF

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

Front	
Hydraulic Line Pressure –Master Rear	LPMER
Hydraulic Line Pressure – Rear	LPR
Hydraulic Line Pressure –Rear 4wal pump	LPR4P
Hydraulic Line Pressure –Rear after ABS	LPRAA
Hydraulic Line Pressure –Rear after Comb	LPRAC
Hydraulic Line Pressure –Rear before ABS	LPRBA
Hydraulic Line Pressure –Rear before Colv	LPRBC
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
Jacket	JKT

DESCRIPTION	ABBREVIATION
Jumper	JPR
Jumper	JRP
Jack Shaft	JS
Joint	JT

DESCRIPTION	ABBREVIATION
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

DESCRIPTION	ABBREVIATION
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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

V

DESCRIPTION	ABBREVIATION
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DESCRIPTION	ABBREVIATION
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DESCRIPTION	ABBREVIATION
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ABBREVIATION LIST

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

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

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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ABBREVIATION LIST

COLOR ABBREVIATIONS

COLOR	ABBREVIATION
BLACK	BK
BLUE	BE
BROWN	BN
BROWN w/WHITE STRIP	BN/WE
CLEAR	CR
DARK BLUE	DKBE
DARK BLUE w/WHITE STRIP	DKBE/WE
DARK GREEN	DKGN
GREEN	GN

COLOR	ABBREVIATION
GREEN/YELLOW	GN/YW
GREY	GY
LIGHT BLUE	LTBE
LIGHT GREEN	LTGN
LIGHT GREY	LTGY
LIGHT PURPLE	LTPE
ORANGE	OE
PINK	PK
PURPLE	PE

COLOR	ABBREVIATION
RED	RD
RED/WHT STRIPED	RE/WE
SHIELD	SD
SILVER	SR
TAN	TN
WHITE	WE
YELLOW	YW

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
AT101	BE-Blue		2000	AUX RANGE INHIBIT
AT101	BE-Blue		3000	AUX RANGE INHIBIT
AT102	YW-Yellow		2000	ENG BRK POS PRES REQ
AT102	YW-Yellow		3000	ENG BRK POS PRES REQ
AT103	YW-Yellow		2000	SIGNAL RETURN
AT103	YW-Yellow		3000	SIGNAL RETURN
AT104	YW-Yellow		2000	ENG BRK ENABLE
AT104	YW-Yellow		3000	ENG BRK ENABLE
AT105	OE-Orange		2000	OUTPUT SPEED INDICATOR A
AT105	OE-Orange		3000	OUTPUT SPEED INDICATOR A
AT106	YW-Yellow		2000	J2284 CAN POS
AT106	YW-Yellow		3000	J2284 CAN POS
AT107	YW-Yellow	J1939 CABLE	2000	J1939 CAN POS
AT107	YW-Yellow	J1939 CABLE	3000	J1939 CAN POS
AT108	DKGN-Dark Green	J1939 CABLE	2000	J1939 CAN NEG
AT108	DKGN-Dark Green	J1939 CABLE	3000	J1939 CAN NEG
AT109	GY-Gray		2000	TCM CLEAN GND
AT109	GY-Gray		3000	TCM CLEAN GND
AT110	PK-Pink		2000	TCM CLEAN PWR
AT110	PK-Pink		3000	TCM CLEAN PWR
AT111	OE-Orange		2000	HSD 1
AT111	OE-Orange		3000	HSD 1
AT112	PK-Pink		2000	SENSOR SUPPLY (+5VDC)
AT112	PK-Pink		3000	SENSOR SUPPLY (+5VDC)
AT113	YW-Yellow		2000	AT113
AT113	YW-Yellow		3000	OUTPUT FUNC 8
AT114	GY-Gray		2000	INTER MODE SIG SW C
AT114	GY-Gray		3000	INTER MODE SIG SW C
AT115	WE-White		2000	PCS 5
AT115	WE-White		3000	PCS 5
AT116	BE-Blue		2000	OIL LEVEL SEN
AT116	BE-Blue		3000	OIL LEVEL SEN
AT117	BE-Blue		2000	AUTOMATIC NEUTRAL
AT117	BE-Blue		3000	AUTOMATIC NEUTRAL
AT118	OE-Orange		3000	FILTER MONITOR
AT119	BE-Blue		2000	PCS 7
AT119	BE-Blue		3000	PCS 7
AT120	BE-Blue	TWP-26	2000	TURBINE SPEED LOW
AT120	BE-Blue	TWP-26	3000	TURBINE SPEED LOW
AT121	GN-Green		2000	ABS RESPONSE
AT121	GN-Green		3000	ABS RESPONSE
AT122	YW-Yellow		2000	PUMP ENABLE
AT122	YW-Yellow		3000	PUMP ENABLE
AT123	GN-Green		2000	PUMP MODE
AT123	GN-Green		3000	PUMP MODE

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
AT123	GN-Green		3500	DISPLAY BLANKING
AT124	YW-Yellow		2000	RANGE INHIBITED INDIC
AT124	YW-Yellow		3000	RETARDER INDICATOR
AT125	TN-Tan		2000	SPEEDOMETER SIGNAL
AT125	TN-Tan		3000	SPEEDOMETER SIGNAL
AT126	YW-Yellow		2000	J2284 CAN POS
AT126	YW-Yellow		3000	J2284 CAN POS
AT127	DKGN-Dark Green		2000	J2284 CAN NEG
AT127	DKGN-Dark Green		3000	J2284 CAN NEG
AT128	YW-Yellow	J1939 CABLE	2000	J1939 CAN POS
AT128	YW-Yellow	J1939 CABLE	3000	J1939 CAN POS
AT129	GN-Green		2000	CHECK TRANS LT
AT129	GN-Green		3000	CHECK TRANS LT
AT130	WE-White		2000	PTO ENABLE
AT130	WE-White		3000	PTO ENABLE
AT131	YW-Yellow		2000	HSD 3
AT131	YW-Yellow		3000	HSD 3
AT132	WE-White	TWP-25	2000	J1587 CAN HIGH
AT132	WE-White	TWP-25	3000	J1587 CAN HIGH
AT133	YW-Yellow		2000	SSS-2
AT133	YW-Yellow		3000	PCS 3
AT134	WE-White		2000	INTERNAL MODE SW PB
AT134	YW-Yellow		3000	DIRECTION SIGNAL
AT135	BE-Blue		2000	WATER TEMP
AT135	BE-Blue		3000	WATER TEMP
AT136	OE-Orange		2000	PCS 2
AT136	OE-Orange		3000	PCS 1
AT137	WE-White		2000	TORQUE CONVERTER CLUTCH
AT137	WE-White		3000	TORQUE CONVERTER CLUTCH
AT138	OE-Orange		2000	INTERNAL MODE SW NS
AT138	TN-Tan		3000	SS-P
AT139	OE-Orange	TWP-27	2000	ENGINE SPEED LOW
AT139	OE-Orange	TWP-27	3000	ENGINE SPEED LOW
AT140	GN-Green	TWP-28	2000	OUTPUT SPEED LOW
AT140	GN-Green	TWP-28	3000	OUTPUT SPEED LOW
AT141	TN-Tan		2000	NEUTRAL START
AT141	TN-Tan		3000	NEUTRAL START
AT142	WE-White		2000	SECONDARY MODE
AT142	WE-White		3000	PTO REQUEST/AUX RANGE
AT143	BE-Blue		2000	PTO INPUT
AT143	BE-Blue		3000	PTO REQUEST
AT144	BE-Blue		2000	TPS
AT144	BE-Blue		3000	TPS
AT145	OE-Orange		2000	RANGE INDICATOR
AT145	OE-Orange		3000	RANGE INDICATOR
AT147	DKGN-Dark Green		2000	J2284 CAN NEG

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
AT147	DKGN-Dark Green		3000	J2284 CAN NEG
AT148	YW-Yellow	J1939 CABLE	2000	J1939 CAN POS
AT148	YW-Yellow	J1939 CABLE	3000	J1939 CAN POS
AT149	SD-Shield Drain	J1939 CABLE	2000	J1939 SHIELD
AT149	SD-Shield Drain	J1939 CABLE	3000	J1939 SHIELD
AT150	PK-Pink		2000	PTO ENABLE
AT150	PK-Pink		3000	OUTPUT FUNC 7
AT151	YW-Yellow		2000	SSS 3
AT151	WE-White		3000	SS 1
AT152	GN-Green		2000	SSS 1
AT152	GN-Green		3000	PCS 2
AT153	YW-Yellow		2000	INTERNAL MODE SIG SW 8
AT153	GN-Green		3000	SS-2
AT154	TN-Tan		2000	SUMP TEMP SENSOR
AT154	TN-Tan		3000	SUMP TEMP SENSOR
AT155	WE-White		2000	PCS 1
AT155	WE-White		3000	PCS 4
AT156	WE-White		2000	RMR
AT156	WE-White		3000	RMR
AT157	WE-White		2000	ENG BRK NEG PRESECT
AT157	WE-White		3000	ENG BRK NEG PRESECT
AT158	GN-Green		2000	ANALOG GROUND
AT158	GN-Green		3000	ANALOG GROUND
AT159	TN-Tan	TWP-27	2000	ENGINE SPEED HIGH
AT159	TN-Tan	TWP-27	3000	ENGINE SPEED HIGH
AT160	YW-Yellow	TWP-28	2000	OUTPUT SPEED HIGH
AT160	YW-Yellow	TWP-28	3000	OUTPUT SPEED HIGH
AT161	OE-Orange		2000	OVERDRIVE DISABLE
AT161	OE-Orange		3000	RETARDER ENABLE
AT162	YW-Yellow		2000	SERVICE BRK STATUS
AT162	YW-Yellow		3000	SERVICE BRK STATUS
AT163	YW-Yellow		2000	IGNITION SIG
AT163	YW-Yellow		3000	IGNITION SIG
AT164	BE-Blue		2000	RET TEMP/SERV IND
AT164	BE-Blue		3000	RET TEMP/SERV IND
AT165	TN-Tan		2000	REVERSE WARNING
AT165	TN-Tan		3000	REVERSE WARNING
AT166	YW-Yellow		2000	J2284 CAN HIGH
AT166	YW-Yellow		3000	J2284 CAN HIGH
AT167	SD-Shield Drain		2000	J2284 SHIELD
AT167	SD-Shield Drain		3000	J2284 SHIELD
AT168	DKGN-Dark Green	J1939 CABLE	2000	J1939 CAN LOW
AT168	DKGN-Dark Green	J1939 CABLE	3000	J1939 CAN LOW
AT169	GY-Gray		2000	TCM CLEAN GND
AT169	GY-Gray		3000	TCM CLEAN GND
AT170	PK-Pink		2000	TCM CLEAN PWR

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
AT170	PK-Pink		3000	TCM CLEAN PWR
AT171	YW-Yellow		2000	HSD 2
AT171	YW-Yellow		3000	HSD 2
AT172	BE-Blue	TWP-25	2000	J1587 CAN LOW
AT172	BE-Blue	TWP-25	3000	J1587 CAN LOW
AT173	BE-Blue		2000	INTERNAL MODE SIG SW A
AT173	OE-Orange		3000	SS-1
AT174	BE-Blue		2000	MAIN MODE
AT174	BE-Blue		3000	MAIN MODE
AT175	OE-Orange		2000	RETARDER TEMP SENSOR
AT175	OE-Orange		3000	RETARDER TEMP SENSOR
AT176	YW-Yellow		2000	TRANS ID
AT176	YW-Yellow		3000	TRANS ID
AT177	GN-Green		2000	PS-4
AT177	GN-Green		3000	PS 1
AT178	WE-White		2000	TORQUE CONVERTER CLUTCH
AT179	PK-Pink		2000	PS-2
AT179	PK-Pink		3000	INPUT FUNC 11
AT180	OE-Orange	TWP-26	2000	TURBINE SPEED HIGH
AT180	OE-Orange	TWP-26	3000	TURBINE SPEED HIGH
AT181	BE-Blue		2000	SPARE 1
AT181	BE-Blue		3000	SPARE 1
AT181	BE-Blue		3500	SPARE 1
AT182	WE-White		2000	SPARE 2
AT182	WE-White		3000	SPARE 2
AT182	WE-White		3500	SPARE 2
AT183	GN-Green		2000	SPARE 3
AT183	GN-Green		3000	SPARE 3
AT183	GN-Green		3500	SPARE 3
CT099	BN-Brown			CURRENT DRV RET
CT101	RD-Red			TCM PWR
CT121	YW-Yellow			REVERSE IND
CT166	YW-Yellow			OUTPUT SPD IND
CT229	BK-Black			TCM GND
CT234	BK-Black			TCM SENS RETURN
CT249	BK-Black	J1939		J1939 SHD
CT381	PE-Purple			PTO ENABLE OUT
CT472	YW-Yellow			TRANS TEMP LT
CT473	YW-Yellow			CHECK TRANS LT
CT710	BE-Blue			ENG START IN
CT793	BE-Blue	TWP-06		J1587 NEG
CT794	YW-Yellow	TWP-06		J1587 POS
CT900	YW-Yellow	J1939		J1939 POS
CT906	BN-Brown			TCM IGN
CT921	PK-Pink			HOLD GEAR
CT924	OE-Orange			RTRDR PWM

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
CT938	YW-Yellow			AUTO NEUTRAL 2
CT939	PE-Purple			RTRDR LO/HI SW
CT942	OE-Orange			AUTO NEUTRAL
CT944	BE-Blue			SPD ENABLE OUT
CT945	BE-Blue			GEAR ENABLE OUT
CT946	BN-Brown			RTRDR SHIFT EN
CT947	OE-Orange			DRV LN PTO REQ IN
CT948	OE-Orange			GEN PUR OUT 2
CT949	YW-Yellow			GEN PUR OUT 3
CT964	BN-Brown			RTRDR MED SW
CT976	YW-Yellow			PARK BRK
CT981	OE-Orange			QUICK GEAR LIM
CT982	BE-Blue		CAT	NEU TO GEAR INHIBIT
CT983	PE-Purple			DIR CHG INHIBIT
CT990	GN-Green	J1939		J1939 NEG
CT992	PE-Purple			SVC BRK
CT994	BN-Brown			STARTER LOCK
CT998	BE-Blue			PTO ENABLE
CT999	GN-Green			DRV LN PTO SW
DD555	WE-White			PSG MODE LT
EN001	RD-Red			GRID HTR 1 PWR
EN002	OE-Orange			GRD HTR 1 FEED
EN003	PK-Pink			GRID HTR 1 SIG
EN004	RD-Red			GRID HTR 2 PWR
EN005	OE-Orange			GRD HTR 2 FEED
EN006	PK-Pink			GRID HTR 2 SIG
EN007	RD-Red			F/PUMP FEED
EN008	RD-Red			F/PUMP RLY PWR
EN009	BK-Black			F/PUMP GND
EN010	RD-Red			F/PUMP PWR
EN011	GY-Gray			BRAKE SW SIG
EN012	GY-Gray			CLUTCH SW SIG
EN013	GY-Gray			DIAGN ON/OFF
EN014	GY-Gray			ENG BRK ON/OFF
EN015	PK-Pink			ENG BRK ENABLE
EN016	GY-Gray			ENG FLUIDS SIG
EN017	GY-Gray			ENG STOP SIG
EN018	PK-Pink			FAN CLUTCH
EN019	GY-Gray			FUEL SHUTOFF
EN020	GY-Gray			OFF IDLE SIG
EN021	GY-Gray			IDLE SIG
EN022	GY-Gray			IDLE DECR SIG
EN023	GY-Gray			IDLE INCR SIG
EN024	GY-Gray			THROT INTERLOC
EN025	PE-Purple			COOL LVL RTN
EN026	PK-Pink			COOL LVL POS

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
EN027	PE-Purple			COOL LVL SPLY
EN028	GY-Gray			COOL LVL NEG
EN029	GY-Gray			FAN CLUTCH IN
EN030	GY-Gray			A/C PRESS SIG
EN031	GY-Gray			REM PTO ON/OFF
EN032	GY-Gray			REMT THROT SIG
EN033	PK-Pink			REMT THROT 5V
EN034	PK-Pink			TPS 5V
EN035	GY-Gray			WIF SENSOR
EN036	PE-Purple			REM THROT/WIF
EN037	GY-Gray			WT TO ST LT
EN038	GY-Gray			WIF LIGHT
EN039	PE-Purple			ANALOG TORQUE
EN040	WE-White			ECM COM SW RET
EN041	PK-Pink			ABM AIR SIG
EN042	TN-Tan			ABM AIR RET
EN043	GY-Gray			FAN SIG RET
EN044	GY-Gray			ALTERNATE RET
EN045	BK-Black			ECU RET 1
EN046	BK-Black			ECU RET 2
EN047	PK-Pink			ENG BRK RLY
EN048	GY-Gray			ENG BRK RET
EN049	GY-Gray			CAB GOV SW
EN050	RD-Red			OIL LVL PWR
EN051	PK-Pink			OIL LIGHT PWR
EN052	BE-Blue			OIL LIGHT SIG
EN053	GY-Gray			OIL TEST SIG
EN054	GY-Gray			OIL TEMP
EN055	GY-Gray			REMOTE ACCEL ON/OFF
EN056	PK-Pink			OIL PRESSURE SIGNAL
EN057	TN-Tan			TWO SPEED AXLE
EN058	YW-Yellow	TWT-15		ACCRTN POSN SEN 1 SCE
EN059	GY-Gray	TWT-15		ACCRTN POSN SEN 1
EN060	BK-Black	TWT-15		ACCRTN POSN SEN 1 RET
EN061	OE-Orange	TWT-16		SENSOR SUPPLY 5 V
EN062	BE-Blue	TWT-16		ACCRTN POSN SEN 2
EN063	BK-Black	TWT-16		ECM RETURN SEN
EN064	BK-Black			ECM RET TEMP LVL D
EN065	BK-Black			ECM RET GEN E
EN066	BK-Black			ECM RET GEN F
EN067	PK-Pink			PFT SENSOR 1 INLET
EN068	YW-Yellow			PFT SENSOR 2 MID
EN069	BE-Blue			PFT SENSOR 3 OUTLET
EN070	PE-Purple			CSF DELTA PRESS SEN SIG
EN071	WE-White			AFT 5V SEN SUP
EN072	GN-Green			AFT ANALOG SEN RET

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
EN073	PK-Pink			PFT TRAP #1 DIFF PRESS
EN074	YW-Yellow			PFT TRAP #1 INTAKE TEMP
EN075	PE-Purple			PFT TRAP #1 OUTLET TEMP
EN076	BE-Blue			AFT TEMP SEN RET
EN077	OE-Orange			AFT IGN CLEAN PWR
EN078	RD-Red			EMP
EN079	PK-Pink			CAT THROT INPUT CONTR
EN080	BK-Black			ECU GND TO ENG
EN081	BK-Black			MAIN PWR RELAY ENABLE
EN082	BK-Black			ENG CRANK INHIBIT
EN083	PK-Pink			BRAKE PRESS SW
EN084	BK-Black			RADIATOR SHUTTER ENABLE
EN085	OE-Orange			EXH GAS RECIR POS
EN086	BK-Black			MASS AIR FLOW SEN GND
EN087	GY-Gray			MASS AIR FLOW SEN
EN115	PK-Pink			COOLANT LEVEL
EN150	WE-White			BATT NEG
EN151	WE-White			BATT NEG
EN240	RD-Red			BATT POS
EN241	RD-Red			BATT POS
EN242	RD-Red			BATT POS
EN243	RD-Red			BATT POS
EN244	RD-Red			BATT POS
EN245	RD-Red			BATT POS
EN246	RD-Red			BATT POS
EN247	RD-Red			BATT POS
EN340	RD-Red			BATT FUSE PWR
EN341	RD-Red			BATT FUSE PWR
EN342	RD-Red			BATT FUSE PWR
EN343	RD-Red			BATT FUSE PWR
EN344	RD-Red			BATT FUSE PWR
EN350	RD-Red			BATT FUSE SW PWR
EN351	RD-Red			BATT FUSE SW PWR
EN352	RD-Red			BATT FUSE SW PWR
EN353	RD-Red			BATT FUSE SW PWR
EN354	RD-Red			BATT FUSE SW PWR
EN416	RD-Red			SENSOR SUPPLY
EN417	PK-Pink	TWT-01		THROT SIG
EN419	PK-Pink			CHECK ENG LT
EN420	PK-Pink			DCHARGE +5V
EN421	BK-Black			DCHARGE GND
EN422	GY-Gray			DCHARGE SIG
EN423	PK-Pink			INTAKE +5V
EN424	BK-Black			INTAKE GND
EN425	GY-Gray			INTAKE SIG
EN439	PK-Pink			CLEAN IGN

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
EN440	RD-Red			BATT POS
EN451	GY-Gray			DIAGN REQUEST
EN452	BK-Black			SENSOR RETURN
EN499	GY-Gray			PSG ACTIVE LT
EN505	PK-Pink			TACHOMETER
EN509	GY-Gray			STOP ENG LT
EN510	PK-Pink			VAR SPEED THRT
EN523	GY-Gray			PSG MODE
EN524	GY-Gray			THROT INHIBIT
EN525	PK-Pink			REMOTE THROTTLE
EN528	GY-Gray			VSG INHIBIT
EN531	GY-Gray			PARK BRAKE
EN532	PK-Pink			TURBO / TEMP SENSOR
EN533	GY-Gray			REMOTE PTO / HIGH IDLE
EN540	GY-Gray			JAKE DISABLE
EN541	GY-Gray			SET/DECREASE
EN542	GY-Gray			ALT MIN VSG
EN543	GY-Gray			PSG ACTIVE
EN544	PK-Pink			CRUISE ENABLE
EN545	GY-Gray			RESUME/INCREASE
EN555	PK-Pink			ENG OIL TMP LT
EN556	PK-Pink			VSS POS
EN557	GY-Gray			VSS NEG
EN563	GY-Gray			COOLANT LEVEL
EN564	PK-Pink			START LOCKOUT
EN565	GY-Gray			FAN CONTROL #1
EN566	GY-Gray			A/C STATUS
EN583	GY-Gray			ENG BRAKE MED
EN749	PK-Pink			PUMP SEN SUP
EN801	OE-Orange			DPF LAMP
EN802	GY-Gray			DPF SWITCH
EN803	PE-Purple			MIL LAMP
EN804	BN-Brown			HET LAMP
EN805	YW-Yellow			PV HIGH SIDE SUP
EN806	BE-Blue			SENSOR GND
EN807	GN-Green			SENSOR GND
EN808	PK-Pink			DPF SEN TEMP BEFORE TRAP
EN809	YW-Yellow			DPF SEN TEMP INLET TRAP
EN810	BE-Blue			DPF TEMP AFTER TRAP
EN811	WE-White			DPF SEN SUPPLY
EN812	PE-Purple			DPF SEN EXH PRESS AFTER FILTER
EN813	TN-Tan			DPF SEN EXH PRESS BEFORE FILTER
EN814	GY-Gray			MAN REG SW
EN905	YW-Yellow			AMBIENT AIR TEMP
EN908	PK-Pink			PWM #1
EN916	PK-Pink	TWT-01		SENSOR SPLY +5V

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
EN952	GY-Gray	TWT-01		SENS RETURN (-)
EN953	BK-Black			BATT NEG
EN976	PK-Pink			RELATIVE HUMIDITY
EN979	GY-Gray			ENG BRAKE LOW
EN985	BE-Blue			TPS +8V
EN988	WE-White			ENG BRK ACTIVE
EN990	PK-Pink			RLY TO HEAT 1
EN991	PK-Pink			RLY TO HEAT 2
EN992	PK-Pink	TWT-17		COOL SENS SUPPLY
EN993	TN-Tan	TWT-17		COOL SENS SIGNAL
EN994	BK-Black	TWT-17		COOL SENS RETURN
EN995	OE-Orange	TWT-18		SENSOR SUPPLY 5V
EN996	PK-Pink	TWT-18		REMOTE THROTTLE
EN997	BK-Black	TWT-18		ECM RETURN SEN
EN998	PK-Pink	TWP-35		FAN CONTROL OUTPUT
EN999	BK-Black	TWP-35		ECM RET GEN E
EN1000	PK-Pink	TWP-36		INTAKE AIR HTR
EN1001	BK-Black	TWP-36		ECM RET GEN F
EN1002	PK-Pink	TWP-37		AUX BRAKE LAMP
EN1003	BK-Black	TWP-37		ECM RET GEN E
EN1004	PK-Pink	TWP-38		STARTER LOCKOUT
EN1005	BK-Black	TWP-38		ECM RET GEN F
EN1006	OE-Orange	TWT-19		SENSOR SUPPLY 5V
EN1007	PE-Purple	TWT-19		CSF DELTA PRESS SEN SIG
EN1008	BK-Black	TWT-19		ECM RET SEN
EN1009	BK-Black			ECM RETURN (SWITCH)
EN1010	BK-Black			ECM RETURN (SENSOR)
EN1011	OE-Orange			SENSOR SUPPLY 5V
EN1012	RD-Red			TAILPIPE NOx BATT POS
EN1013	RD-Red			DCU BATT POS
EN1014	PK-Pink			DCU IGN
EN1015	BE-Blue			HH RELAY CNTRL POS
EN1016	BK-Black			HH RLY CNTRL NEG
EN1017	GN-Green			HH1 SUPPLY
EN1018	BK-Black			HH1 RETURN
EN1019	YW-Yellow			HH2 SUPPLY
EN1020	BK-Black			HH2 RETURN
EN1021	OE-Orange			HH3 SUPPLY
EN1022	BK-Black			HH3 RETURN
EN1023	YW-Yellow	TWP-42		METERING VLV HIGH
EN1024	BK-Black	TWP-42		METERING VLV LOW
EN1025	OE-Orange			TANK HTR HIGH
EN1026	BK-Black			TANK HTR LOW
EN1027	PE-Purple			TNK LVL SENS SIG
EN1028	BK-Black			TNK LVL SENS RTN
EN1029	TN-Tan			TNK TMP SENS SIG

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
EN1030	BK-Black			TNK TMP SENS RTN
EN1031	GN-Green			PMP MOTOR SUPPLY
EN1032	BK-Black			PMP MOTOR RETURN
EN1033	PE-Purple			PMP MOTOR PWM
EN1034	GN-Green			REVERTING VLV SIG
EN1035	BK-Black			REVERTING VLV RTN
EN1036	BK-Black			PSI SENS RETURN
EN1037	PK-Pink			PSI SENS SUPPLY 5V
EN1038	TN-Tan			PSI SENS SIG
EN1039	WE-White			ELEC HTR SUPPLY
EN1040	BK-Black			ELEC HTR RETURN
EN1041	TN-Tan			PFT FILTER OUTLET PSI SIG
EN1042	PK-Pink	TWT-22		FAN SPD SENS SUPPLY
EN1043	OE-Orange	TWT-22		FAN SPD SENS SIG
EN1044	BK-Black	TWT-22		FAN SPD SENS RETURN
EN1045	BK-Black	TWQ-1		ECU RETURN SENSOR
EN1046	TN-Tan	TWQ-1		DPF DELTA PRESSURE
EN1047	PE-Purple	TWQ-1		DPF OUTLET PRESSURE
EN1048	OE-Orange	TWQ-1		SENSOR SUPPLY 5V
EN1049	WE-White			DOC OUTLET TEMP
EN1050	BK-Black			ECU RETURN SWITCH
EN1051	YW-Yellow			DOC INLET TEMP
EN1052	BE-Blue			DPF OUTLET TEMP
EN1053	BK-Black			ECU RETURN SENSOR
EN1054	PE-Purple			SCR OUTLET TEMP
EN1055	YW-Yellow			SCR INLET TEMP
EN1056	GY-Gray			DPF MANUAL REGEN
EN1057	GY-Gray			DPF REGEN INHIBIT
EN1058	PK-Pink			TNK SENS SUPPLY 12V
EN1059	RD-Red			ENG NOx BATT POS
EN1060	WE-White	TWP-46		AMBIENT AIR TEMP SEN
EN1061	BK-Black	TWP-46		AMBIENT AIR TEMP SEN RET
EN1062	YW-Yellow	TWP-53		DATALINK HIGH
EN1063	GN-Green	TWP-53		DATALINK LOW
FW078	BN-Brown			DEAD BOLT OUTPUT
FW079	OE-Orange			DEAD BOLT RIGHT
FW080	BN-Brown			DOOR LOCK OUTPUT
FW081	GY-Gray			DOOR LOCK LEFT
FW129	OE-Orange			DOOR LOCK
LC101	GY-Gray			TYPE 1 GROUND
LC102	YW-Yellow			IGN ACTIVE POWER
LC103	PK-Pink			BATTERY DIRECT
LC104	YW-Yellow			IGN ACTIVE
LC105	GY-Gray			TYPE 1
LC106	WE-White			PTO ENABLE
LC107	OE-Orange			EXHAUST BRAKE ENABLE

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
LC108	WE-White			AUTO NEUTRAL
LC109	WE-White			PLUG
LC110	YW-Yellow			SEC. SHIFT SCHDULE
LC111	GN-Green			AUX. RANGE INHIBIT
LC112	BE-Blue			RETARDER ENABLE
LC113	PK-Pink			ABS
LC114	OE-Orange			SERVICE BRAKE STATUS
LC115				PLUG
LC116				PLUG
LC117				PLUG
LC118				PLUG
LC119	WE-White			PTO OUTPUT
LC120	OE-Orange			EXHAUST BRAKE OUTPUT
LC121	WE-White			RANGE IDICATOR
LC122	BE-Blue			OUTPUT SPEED INDICTR
LC123	PK-Pink			RANGE INHIBIT
LC124	WE-White			RETARDER INDICATOR
LC125	GN-Green			CHECK TRANS
LC126	TN-Tan			SPD SIG NON-ZERO CROSS
LC127	TN-Tan			SPD SIG ZERO CROSS
LC128	YW-Yellow			SIGNAL RETURN
LC129	RD-Red			J1939+
LC130				PLUG
LC131	GN-Green			SHIELD
LC132	BK-Black			J1939-
LC201	BE-Blue			PRESSURE SWITCH C
LC202	PK-Pink			PRESSURE SWITCH D
LC203	WE-White			PRESSURE SWITCH E
LC204	GN-Green			PRESSURE SWITCH R
LC205	BE-Blue			NSBU SWITCH A
LC206	YW-Yellow			NSBU SWITCH B
LC207	GY-Gray			NSBU SWITCH C
LC208	WE-White			NSBU SWITCH P
LC210	TN-Tan			SUMPTMP
LC213	OE-Orange	TWP-21		TURBINE SPEED HI
LC214	BE-Blue	TWP-21		TURBINE SPEED LO
LC215	YW-Yellow	TWP-22		OUTPUT SPEED HI
LC216	GN-Green	TWP-22		OUTPUT SPEED LO
LC217	TN-Tan	TWP-23		ENGINE SPEED HI
LC218	OE-Orange	TWP-23		ENGINE SPEED LO
LC220	GN-Green			COMMON RETURN
LC221	YW-Yellow			TRANS ID
LC222	YW-Yellow			SOL A RETURN
LC223	WE-White			SOL A
LC224	PK-Pink			SOL B
LC225	OE-Orange			SOL B RETURN

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
LC226	GN-Green			SOL C ON/OFF
LC227	BE-Blue			SOL D ON/OFF
LC228	GY-Gray			SOL E ON/OFF
LC229	WE-White			SOL F LOCKUP
LC230	BE-Blue			MOD MAIN PSI
LC231	TN-Tan			SOL C, D, E RETURN
LC232	GN-Green			SOL F RETURN
RB008	PE-Purple			REAR WARN LTS
RB016	WE-White			BODY OPEN DOOR LT
RB021	RD-Red			IGNITION
RB024	RD-Red			PUMP SHIFT POWER
RB033	WE-White			OK TO PUMP (+)
RB061	WE-White			SPARE
RB062	WE-White			SPARE
RB065	GN-Green			PUMP ENGAGED
RB070	BK-Black			COMMON GND
RB080	WE-White			PTO PUMP AND ROLL
RB091	WE-White			SPARE
RB092	WE-White			SPARE
RB094	WE-White			PARK BRAKE
RB106	BE-Blue			ROAD MODE
RB118	GN-Green			PUMP MODE
RB123	YW-Yellow			PUMP MODE POS INPUT
RB124	RD-Red			SPEED CONTROL FUSED PWR
RB133	GY-Gray			OK TO PUMP (-)
RB170	BK-Black			SPEED CONTROL BATT GND
RB178	OE-Orange			REAR BEACONS
RB302	WE-White	TWP-40		J1587 POSITIVE
RB303	BE-Blue	TWP-40		J1587 NEGATIVE
RB304	RD-Red			THROTTLE +5V
RB305	BK-Black			THROTTLE RETURN
RB306	GN-Green			THROTTLE SIGNAL
RB346	PE-Purple			ECM HIGH IDLE ENABLE
RR0001	GN-Green			C/S DR SW
RR0002	GN-Green			#6 COMP SW
RR0003	GN-Green			#6.5 COMP SW
RR0004	GN-Green			#8 COMP SW
RR0005	BN-Brown			#8-7 SCENE
RR0006	PE-Purple			FT LT BAR
RR0007	YW-Yellow			BENCH LT
RR0008	OE-Orange			#6.5 COMP LT
RR0009	OE-Orange			#6 SCENE LT
RR0010	PE-Purple			AUX DOME LT
RR0011	RD-Red			DOME LT TMR TRIG GND
RR0012	BN-Brown			OEM TAP
RR0013	WE-White			SIREN HORN

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
RR0014	WE-White			EXTRA
RR0015	RD-Red			DRL CUTOUT
RR0016	GY-Gray			DRL 1
RR0017	PE-Purple			DRL 2
RR0018	RD-Red			HEAT VALVE
RR0019	YW-Yellow			SIREN SPEAKER 1 +
RR0020	BK-Black			SIREN SPEAKER 1 -
RR0021	OE-Orange			SIREN SPEAKER 2 +
RR0022	BK-Black			SIREN SPEAKER 2 -
RR0023	BE-Blue			HORN RING
RR0024	GY-Gray			CHASSIS HORN
RR0025	RD-Red			INTERSECTION LT
RR0026	PE-Purple			GRILL LT
RR0027	YW-Yellow			CAB DOOR
RR0028	WE-White			E BRAKE
RR0029	PE-Purple			REAR SCENE LTS
RR0030	PE-Purple			SUCTION
RR0031	YW-Yellow			COT LTS
RR0032	BE-Blue			ATTENDANT LT
RR0033	BE-Blue			HI BEAM FLSHR
RR0034	WE-White			HI BEAM IND
RR0035	BN-Brown			EXHAUST FAN
RR0036	GN-Green			REAR DR SW
RR0037	GN-Green			SIDE DR SW
RR0038	WE-White			O2 LIGHT
RR0039	WE-White			O2 SOLENOID
RR0040	OE-Orange			ADDL
RR0041	RD-Red			HD LT FD
RR0042	RD-Red			FLASHER A
RR0043	WE-White			FLASHER B
RR0044	BK-Black			FLASHER C
RR0045	BE-Blue			REAR LIGHT BAR
RR0046	GN-Green			#1 COMPT SW
RR0047	OE-Orange			#1 COMPT LT
RR0048	GN-Green			#2 COMPT SW
RR0049	OE-Orange			#2 COMPT LT
RR0050	GN-Green			#3 COMPT SW
RR0051	OE-Orange			#3 COMPT LT
RR0052	GN-Green			#4 COMPT SW
RR0053	OE-Orange			#4 COMPT LT
RR0054	GN-Green			#5 COMPT SW
RR0055	OE-Orange			#5 COMPT LT
RR0056	YW-Yellow			DRIVING LT
RR0057	RD-Red			SWITCH PANEL FD
RR0058	BE-Blue			LOW VOLTAGE IND
RR0059	OE-Orange			OPEN DOOR IND

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
RR0060	OE-Orange			OPEN COMPT IND
RR0061	OE-Orange			MOD DISC IND
RR0062	BE-Blue			SS GEN
RR0063	BE-Blue			SS AMB
RR0064	BE-Blue			SS RED
RR0065	BE-Blue			SS BUZZER
RR0066	OE-Orange			#6 COMP LT
RR0067	OE-Orange			#8 COMP LT
RR0068	YW-Yellow			#1-2 SCENE
RR0069	PE-Purple			#4-5 SCENE
RR0070	OE-Orange			#3 SCENE
RR0071	OE-Orange			PARK SIGNAL
RR0072	PE-Purple			FLASH PRIM TRIG
RR0073	YW-Yellow			FLASH SEC TRIG
RR0074	OE-Orange			CLIMATE FAN HI
RR0075	OE-Orange			CLIMATE FAN LO
RR0076	GN-Green			#7 COMPT SW
RR0077	OE-Orange			#7 COMPT LT
RR0078	OE-Orange			CLIMATE FAN MED
RR0079	OE-Orange			CLIMATE CONTROL FD
RR0080	RD-Red			INVERTER REMOTE
RR0081	WE-White			INVERTER REMOTE
RR0082	OE-Orange			SS REAR SCENE LT
RR0083	OE-Orange			CS REAR SCENE LT
RR0084	GN-Green			FLSHR/BRK
RR0085	GN-Green			COMPT #8 SW
RR0086	OE-Orange			COMPT #8 LT
RR0087	GN-Green			COMPT #6 SW
RR0088	OE-Orange			COMPT #6 LT
RR0089	WE-White			MODEM RING
RR0090	BK-Black			MODEM TIP
RR0091	BN-Brown			OEM MRKR TAP
RR0092	PK-Pink			OEM STOP TAP
RR0093	YW-Yellow			OEM LEFT TURN TAP
RR0094	DKGN-Dark Green			OEM RIGHT TURN TAP
RR0095	GY-Gray			OEM E-BRAKE TAP
RR0096	OE-Orange			OEM PARK/NEU TAP
RR0097	WE-White			OEM REV TAP
RR0098	PK-Pink			OEM IGN TAP
RR0099	PK-Pink			OEM ACC TAP
RR0100	RD-Red			REAR SCENE LTS
RR0101	OE-Orange			FLSHR PRI TRIG
RR0102	GY-Gray			FLSHR SEC TRIG
RR0103	GY-Gray			TIMER CUT-OUT
RR0104	OE-Orange			DUMP ENABLE
RR0105	PE-Purple			SUCTION PUMP

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
RR0106	RD-Red			MUX NODE PWR
RR0107	PK-Pink			MUX NODE IGN
RR0108	RD-Red			MOD IGN PWR
RR0109	RD-Red			CLIMATE MOD PWR
RR0110	RD-Red			CURRENT MOD PWR
RR0111	RD-Red			O2 MOD PWR
RR0112	RD-Red			1660 FLSHR PWR
RR0113	RD-Red			MED ISO PWR
RR0114	RD-Red			MED ISO OUTLET PWR
RR0115	RD-Red			DOVE LT MOD PWR
RR0116	RD-Red			12V OUTLET PWR
RR0117	RD-Red			DOOR LOCK PWR
RR0118	RD-Red			CABNT LOCK PWR
RR0119	RD-Red			FSP PWR
RR0120	RD-Red			RSP PWR
RR0121	OE-Orange			WARN 1A PWR
RR0122	BE-Blue			WARN 1A RTN
RR0123	OE-Orange			WARN 2A PWR
RR0124	BE-Blue			WARN 2A RTN
RR0125	OE-Orange			WARN 3B PWR
RR0126	BE-Blue			WARN 3B RTN
RR0127	OE-Orange			WARN 4A PWR
RR0128	BE-Blue			WARN 4A RTN
RR0129	OE-Orange			WARN 5A PWR
RR0130	BE-Blue			WARN 5A RTN
RR0131	OE-Orange			WARN 6A PWR
RR0132	BE-Blue			WARN 6A RTN
RR0133	OE-Orange			WARN 7B PWR
RR0134	BE-Blue			WARN 7B RTN
RR0135	OE-Orange			WARN 8A PWR
RR0136	BE-Blue			WARN 8A RTN
RR0137	OE-Orange			WARN 9C PWR
RR0138	BE-Blue			WARN 9C RTN
RR0139	OE-Orange			WARN 10A PWR
RR0140	BE-Blue			WARN 10A RTN
RR0141	OE-Orange			WARN 11A PWR
RR0142	BE-Blue			WARN 11A RTN
RR0143	OE-Orange			WARN 12B PWR
RR0144	BE-Blue			WARN 12B RTN
RR0145	OE-Orange			WARN 13A PWR
RR0146	BE-Blue			WARN 13A RTN
RR0147	OE-Orange			WARN 14A PWR
RR0148	BE-Blue			WARN 14A RTN
RR0149	OE-Orange			WARN 15A PWR
RR0150	BE-Blue			WARN 15A RTN
RR0151	OE-Orange			WARN 16C PWR

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
RR0152	BE-Blue			WARN 16C RTN
RR0153	OE-Orange			WARN 17C PWR
RR0154	BE-Blue			WARN 17C RTN
RR0155	OE-Orange			WARN 18C PWR
RR0156	BE-Blue			WARN 18C RTN
RR0157	OE-Orange			WARN 19C PWR
RR0158	BE-Blue			WARN 19C RTN
RR0159	RD-Red	TWT-23		CUR SENS PWR
RR0160	BE-Blue	TWT-23		CUR SENS SIG
RR0161	BK-Black	TWT-23		CUR SENS RTN
RR0162	RD-Red	TWT-24		O2 SENS PWR
RR0163	BE-Blue	TWT-24		O2 SENS SIG
RR0164	BK-Black	TWT-24		O2 SENS RTN
RR0165	PK-Pink			OEM ACC
RR0166	PK-Pink			OEM IGN
RR0167	PK-Pink			HEAT PUMP
RR0168	RD-Red			FLSHR PWR
RR0169	PK-Pink			AUTO EJECT SIG
RR0170	GN-Green			MOD PWR SW SIG
RR0171	RD-Red			FSP PWR
RR0172	RD-Red			RSP PWR
RR0173	RD-Red			PWR DOOR LOCKS
RR0174	RD-Red			TIME DELAY PWR
RR0175	BE-Blue			DOME LT TMR TRIG +12V
RR0176	RD-Red	TWT-25		INT TMP SEN POS
RR0177	WE-White	TWT-25		INT TMP SEN SIG
RR0178	BK-Black	TWT-25		INT TMP SEN NEG
RR0179	RD-Red	TWT-26		EXT TMP SEN POS
RR0180	WE-White	TWT-26		EXT TMP SEN SIG
RR0181	BK-Black	TWT-26		EXT TMP SEN NEG
RR0182	PK-Pink			CS SCENE LTS
RR0183	PK-Pink			SS SCENE LTS
RR0184	RD-Red			SER RX
RR0185	WE-White			SER TX
RR0186	BK-Black			SER GND
RR0187	RD-Red			COT LTS HI
RR0188	RD-Red			COT LTS LO
RR0189	RD-Red			BENCH LTS HI
RR0190	RD-Red			BENCH LTS LO
RR0191	RD-Red			DOME LTS HI
RR0192	RD-Red			DOME LTS LO
RR0193	RD-Red			SIREN/HORN PWR
RR0194	GN-Green			#8.5 COMP SW
RR0195	OE-Orange			#8.5 COMP LT
RR0196	RD-Red			STEP WELL LT PWR
RR0197	PK-Pink			CLK ILLUM PWR

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
RR0198	GY-Gray			FLASHER PRIM/SEC
RR0199	RD-Red			LT BAR FLASH PRIM/SEC
RR0200	PK-Pink			LT BAR PRI SW
RR0201	OE-Orange			LT BAR PRI SEC SW
RR0202	RD-Red			MOD POWER
RR0203	RD-Red			COTS LTS
RR0204	RD-Red			BENCH LTS
RR0205	PK-Pink			REAR FLOOD ENABLE
RR0206	RD-Red			REAR DOOR PWR
RR0207	RD-Red			SIDE DOOR PWR
RR0208	BE-Blue			PWR DR SW LK
RR0209	OE-Orange			PWR DR SW UNLK
RR0210	GN-Green			PWR DR LK
RR0211	WE-White			PWR DR UNLK
RR0212	RD-Red			O2 LIFT 1
RR0213	YW-Yellow			O2 LIFT 2
RR0214	RD-Red			HEAT PAD RLY
RR0215	PK-Pink			HEAT PAD
RR0216	BK-Black			THERMOSTAT
RR0217	RD-Red			RECTIFIER PWR
RR0218	OE-Orange			CABINET LT
RR0219	BK-Black			FLASHER BRAKES GND
RR0220	OE-Orange			WARN 20A PWR
RR0221	BE-Blue			WARN 20A RTN
RR0222	OE-Orange			WARN 21A PWR
RR0223	BE-Blue			WARN 21A RTN
RR0224	OE-Orange			WARN 22A PWR
RR0225	BE-Blue			WARN 22A RTN
RR0226	OE-Orange			WARN 23A PWR
RR0227	BE-Blue			WARN 23A RTN
RR0228	OE-Orange			WARN A PWR
RR0229	BE-Blue			WARN A RTN
RR0230	OE-Orange			WARN B PWR
RR0231	BE-Blue			WARN B RTN
RR0232	OE-Orange			WARN C PWR
RR0233	BE-Blue			WARN C RTN
RR0234	GY-Gray			FLSHR BRK TRIG
RR0235	OE-Orange			WARN 24A PWR
RR0236	BE-Blue			WARN 24A RTN
RR0237	YW-Yellow			PWR DR LK
RR0238	BN-Brown			PWR DR UNLK
RR0239	GY-Gray			ANTI THEFT
SP001	PK-Pink			HDLP SW TO MKR
SP002	RD-Red			ABS BATT PWR
SP003	BK-Black			ABS LIGHT GND
SP004	RD-Red			IGN TO ABS ECU

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP005	PK-Pink			ABS RELAY
SP006	BK-Black			COMMON GND
SP007	RD-Red			AC CLT SW PWR
SP008	RD-Red			MRKR LT PWR FT
SP009	RD-Red			DSH LP PWR
SP011	RD-Red			AIR DRYER PWR
SP012	RD-Red			BATT SENSE
SP013	PK-Pink			IGN ACT TO ALT
SP014	RD-Red			B/UP LIGHT PWR
SP015	PK-Pink			B/UP LT ACTIVE
SP016	GY-Gray			OIL PRS SW NEG
SP017	GY-Gray			COL TMP SW NEG
SP018	GY-Gray			LO AIR SW1 NEG
SP019	GY-Gray			LOW COL LT NEG
SP020	RD-Red			INSTRUMENT PWR
SP021	GY-Gray			LO COOL SNDR
SP022	GY-Gray			IGN START GND
SP023	TN-Tan			COOL TEMP SNDR
SP024	PK-Pink			STP PRS SW1
SP025	RD-Red			STP CIR FT PWR
SP026	GY-Gray			NEUTRAL SIGNAL
SP027	PE-Purple			CRCONT JUMPER
SP028	GY-Gray			CRCONT SET SW
SP029	GY-Gray			CRCONT SET DSH
SP030	GY-Gray			CRCONT RESUME
SP031	PK-Pink			CRUZ ACTIVE
SP032	GY-Gray			CRUZ MTR NEG
SP033	PK-Pink			CRUZ MTR POS
SP034	GY-Gray			CRUZ CLT NEG
SP035	PK-Pink			CRUZ CLT POS
SP036	RD-Red			CRUZ POWER
SP037	RD-Red			CRUZ PWR - ECU
SP038	PK-Pink			EXH BRK ACTIVE
SP039	RD-Red			ENG BRK POWER
SP040	TN-Tan			FUEL SNDR SIG
SP041	RD-Red			HZD/TRNSIG PWR
SP042	RD-Red			FLASHER OUTPUT
SP043	RD-Red			CORNER LT PWR
SP044	YW-Yellow			LEFT TURN SIG
SP045	DKGN-Dark Green			RIGHT TURN SIG
SP046	RD-Red			REAR TURN PWR
SP047	DKGN-Dark Green			RIGHT TRN REAR
SP048	YW-Yellow			LEFT TURN REAR
SP049	RD-Red			HORN POWER
SP050	PK-Pink			HRN RLY TO HRN
SP051	GY-Gray			HORN BUTTON

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP052	GY-Gray			HOURLMETER SNDR
SP053	RD-Red			BATTPOS/IGN SW
SP054	PK-Pink			IGN SW/ACC RLY
SP055	PK-Pink			IGNITION SW
SP056	PK-Pink			START SIGNAL
SP057	PK-Pink			START RELAY
SP058	RD-Red			HDLMP PWR
SP059	RD-Red			HIGH LOW SW
SP060	RD-Red			HDLP LO BM PWR
SP061	RD-Red			HDLP HI BM PWR
SP062	BK-Black			DOVE LT SW GND
SP063	RD-Red			MARKER LIGHTS
SP064	BN-Brown			R MRKR LT PWR
SP065	BN-Brown			REAR MRKR RLY
SP066	RD-Red			MOIST EJCT PWR
SP067	TN-Tan			OIL PRESS SNDR
SP068	GY-Gray			PARK BRK LIGHT
SP069	RD-Red			PREHT CONT PWR
SP070	GY-Gray			PRHT START SIG
SP071	BK-Black			FT ECU GND ABS
SP072	RD-Red			START RELAY
SP073	RD-Red			STARTER SOL
SP074	RD-Red			STRT TO FL SOL
SP075	RD-Red			STOP LIGHT PWR
SP076	RD-Red			STP LT-RLY/LT
SP077	PK-Pink	TWP-05		TACH GAUGE POS
SP078	GY-Gray	TWP-05		TACH GAUGE NEG
SP079	TN-Tan			TRANS TEMP SIG
SP080	BN-Brown			LVL JK FLT SW
SP081	LTBE-Light Blue			LVL JK MTR SOL
SP082	DKGN-Dark Green			LVL JK DMP VLV
SP083	YW-Yellow			LVL JK LEFT
SP084	OE-Orange			LVL JK RIGHT
SP085	PE-Purple			LVL JK FRONT
SP086	RD-Red			ACC PWR TO LEVEL CONT
SP087	GY-Gray			LEVEL CONT NEG
SP088	PK-Pink			LEVEL CONT POS
SP089	GY-Gray			LEVEL WARN LT
SP090	RD-Red			TOW VEH POWER
SP091	PK-Pink			HOOD LIGHTS
SP092	RD-Red			DRIVER ST PWR
SP093	RD-Red			CAPT SEAT PWR
SP094	RD-Red			WIPER POWER
SP095	PE-Purple			WIPER LOW
SP096	GY-Gray			WIPER HIGH
SP097	TN-Tan			WIPER INTRM

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP098	RD-Red			WASHER
SP099	RD-Red			HOOD LIGHT PWR
SP100	GY-Gray			MRKR FLASH SW
SP101	RD-Red			TURN SIGNAL PWR
SP102	BK-Black			DAYTIME LT PWR
SP103	RD-Red			CIGAR LTR PWR
SP104	RD-Red			SPOTLIGHT PWR
SP105	RD-Red			BLWR MTR PWR
SP106	RD-Red			CNDSR FAN PWR
SP107	RD-Red			FOG LMP PWR
SP108	BK-Black			FOG LMP SW/LTS
SP109	RD-Red			DOCK LT PWR
SP110	PK-Pink			DOCK LIGHTS
SP111	RD-Red			PWR BMNT LT SW
SP112	BK-Black			BASEMENT LIGHT
SP113	RD-Red			DASH FAN PWR
SP114	BK-Black			DASH FAN PWR
SP115	BK-Black			DASH FAN PWR
SP116	BK-Black			DASH FAN PWR
SP117	BK-Black			DASH FAN PWR
SP118	RD-Red			PWR AUX ST SW
SP119	RD-Red			AUX START PWR
SP120	RD-Red			PWR TO STEP SW
SP121	RD-Red			STEP SW PWR
SP122	BK-Black			HORN SOLENOID
SP123	RD-Red			RADIO SW PWR
SP124	RD-Red			PWR - RADIO SW
SP125	RD-Red			RADIO POWER
SP126	RD-Red			MEMORY POWER
SP127	RD-Red			CB POWER
SP128	RD-Red			REAR AUTO HTR
SP129	RD-Red			HEATER RELAY
SP130	BK-Black			RLY - COND MTR
SP131	BK-Black			RADIO GND
SP132	RD-Red			MIRROR PWR
SP133	PK-Pink			RT MIRROR SIG
SP134	PK-Pink			RT MIRROR SIG
SP135	PK-Pink			MIRROR SIGNALS
SP136	PK-Pink			SPEED SW POS
SP137	GY-Gray			SPEED SW NEG
SP138	RD-Red			HTD MIRROR PWR
SP139	PK-Pink			RT HTD MIRROR
SP140	RD-Red			REAR CAM PWR
SP141	RD-Red			DOME LIGHT PWR
SP142	RD-Red			DOME LIGHT PWR
SP143	BK-Black			LFT CRNRING LT

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP144	BK-Black			RT CRNRING LT
SP145	BK-Black			DUMP VLV RT
SP146	GY-Gray			DUMP VLV COM
SP147	YW-Yellow			DUMP VLV LEFT
SP148	LTGN-Light Green			AIR DUMP
SP149	LTBE-Light Blue			AIR FILL
SP150	GY-Gray			MIR - MIR CONT
SP151	BK-Black			DOME LMP NEG
SP152	PK-Pink			DOME SW TO RLY
SP153	GY-Gray			LOW FUEL WARN
SP154	TN-Tan			KYSR OIL HI
SP155	TN-Tan			KYSOR OIL TEMP
SP156	TN-Tan			KYSOR COOL LOW
SP157	TN-Tan			KYSOR COOL HI
SP158	TN-Tan			KYSON OIL LOW
SP159	GY-Gray			NEUTRAL SW RET
SP160	PK-Pink	TWT-14		THROTTLE POS
SP161	GY-Gray	TWT-14		THROTTLE NEG
SP162	TN-Tan	TWT-14		THROTTLE SIG
SP163	PK-Pink			IDLE SW N.OPEN
SP164	GY-Gray			IDLE SW N.CLS
SP165	GY-Gray			ENG BRK SIGNAL
SP166	GY-Gray			CRUZ SW ON
SP167	GY-Gray			CRUZ SET
SP168	GY-Gray			CRUZ RESUME
SP169	GY-Gray			CHECK ENG
SP170	GY-Gray			STOP ENG
SP171	GY-Gray			IDLE INCREMENT
SP172	GY-Gray			IDLE DECREMENT
SP173	GY-Gray			BRAKE SWITCH
SP174	GY-Gray			DIANOSTIC TEST
SP175	PK-Pink			LEVEL SENSOR C
SP176	GY-Gray			LEVEL SENSOR B
SP177	WE-White			LEVEL SENSOR D
SP178	TN-Tan			LEVEL SENSOR A
SP179	WE-White			FAN CLUTCH NEG
SP180	GY-Gray			AC PRS SW N CL
SP181	PK-Pink			ENGINE BRAKE 1
SP182	PK-Pink			ENGINE BRAKE 2
SP183	RD-Red			CLEAN PWR
SP184	RD-Red			BATTERY PWR
SP185	BK-Black			CLEAN GND
SP186	-----	J1939-11 CABLE		J1939-11 SHLD DRN
SP187	YW-Yellow	J1939-11 CABLE		J1939-11 POS
SP188	DKGN-Dark Green	J1939-11 CABLE		J1939-11 NEG
SP189	RD-Red			BCC IGN PWR

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP190	RD-Red			CUST BATT
SP191	RD-Red			CUST IGN
SP192	RD-Red			CUST ACC
SP193	BK-Black			MKR RLY FL RLY
SP194	BN-Brown			MKR RLY FL RLY
SP195	GY-Gray			JAKE RLY TO SW
SP196	YW-Yellow			L STP COL-RLY
SP197	DKGN-Dark Green			R STP COL-RLY
SP198	YW-Yellow			L STP RLY - LT
SP199	DKGN-Dark Green			R STP RLY - LT
SP200	BK-Black			HDLP SW FL RLY
SP201	GY-Gray			ATC SW TO ECU
SP202	GY-Gray			ENG PROT
SP203	GY-Gray			OIL SW HR MTR
SP204	TN-Tan			2ND COOL GA
SP205	TN-Tan			2ND OIL PRS TO GA
SP206				DR INTRLCK SIG
SP207	BE-Blue			BAV
SP208	BN-Brown			BAV
SP209	PK-Pink	TWP-06		J1587 POS
SP210	GY-Gray	TWP-06		J1587 NEG
SP211	GY-Gray			BRK FLUID LVL
SP212	GY-Gray			ECU TO ATC LT
SP213	TN-Tan			AIR 1 TO GA
SP214	TN-Tan			AIR 2 TO GA
SP215	RD-Red			BATT TO FUSES
SP216	PK-Pink			RLY 1 TO RLY 2
SP217	RD-Red			BATT TO FUSES
SP218	RD-Red			FRT BATT PWR
SP219	RD-Red			REAR BATT PWR
SP220	PK-Pink			IGN RLY TO FUS
SP221	GY-Gray			AUD ALRM NEG
SP222	PK-Pink			IGN RLY TO FUS
SP223	PK-Pink			FUSE TO J BLK
SP224	RD-Red			FRT ACC PWR
SP225	PK-Pink			ACC RLY TO FUS
SP226	DKGN-Dark Green			RIGHT STOP/TURN
SP227	YW-Yellow			LEFT STOP/TURN
SP228				
SP229	GY-Gray			PHT TMP RET
SP230	GY-Gray			PHT OIL PRS SW
SP231	PK-Pink			PHT FL SOL PWR
SP232	PK-Pink			PHT RLY ACTIVA
SP233	PK-Pink			ST RLY - STRTR
SP234	PK-Pink			LR JACK EXTEND
SP235	GY-Gray			LR JACK LIMIT

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP236	PK-Pink			LR JACK RETRCT
SP237	PK-Pink			RR JACK EXTEND
SP238	GY-Gray			RR JACK LIMIT
SP239	PK-Pink			RR JACK RETRCT
SP240	BK-Black	TWP-07		ABS 1 SENS L2
SP241	BN-Brown	TWP-07		ABS 1 SENS L1
SP242	BN-Brown	TWP-08		ABS 1 SENS R1
SP243	BK-Black	TWP-08		ABS 1 SENS R2
SP244	GN/YW- Green/Yellow	TWT-05		ABS 1 VLV COM L
SP245	BN-Brown	TWT-05		ABS 1 VLV I/L L
SP246	BE-Blue	TWT-05		ABS 1 VLV O/L L
SP247	GN/YW- Green/Yellow	TWT-06		ABS 1 VLV COM R
SP248	BN-Brown	TWT-06		ABS 1 VLV I/L R
SP249	BE-Blue	TWT-06		ABS 1 VLV O/L R
SP250	YW-Yellow			L STP/TRN OUT
SP251	DKGN-Dark Green			R STP/TRN OUT
SP252	BN-Brown	TWP-09		ABS 2 SENS L1
SP253	BK-Black	TWP-09		ABS 2 SENS L2
SP254	BN-Brown	TWP-10		ABS 2 SENS R1
SP255	BK-Black	TWP-10		ABS 2 SENS R2
SP256	GN/YW- Green/Yellow	TWT-07		ABS 2 VLV COM L
SP257	BN-Brown	TWT-07		ABS 2 VLV I/L L
SP258	BE-Blue	TWT-07		ABS 2 VLV O/L L
SP259	GN/YW- Green/Yellow	TWT-08		ABS 2 VLV COM R
SP260	BN-Brown	TWT-08		ABS 2 VLV I/L R
SP261	BE-Blue	TWT-08		ABS 2 VLV O/L R
SP262	PK-Pink			RF JACK EXTEND
SP263	GY-Gray			RF JACK LIMIT
SP264	PK-Pink			RF JACK RETRCT
SP265	PK-Pink			LF JACK EXTEND
SP266	GY-Gray			LF JACK LIMIT
SP267	PK-Pink			LF JACK RETRCT
SP268	PK-Pink			DRVG LT SW FD
SP269	WE-White			DRVG LTS ACT
SP270	BK-Black			INSTRUMENT GND
SP271	RD-Red			24V SUPPLY
SP273	TN-Tan			ECAS DR INPUT
SP274	TN-Tan	TWP-15		SENS RR ECAS
SP275	RD-Red			24V IGNITION
SP276	TN-Tan			ECAS DSH SOUND
SP277	TN-Tan			ECAS EXT SOUND
SP279	TN-Tan			LOW RIDE ECAS
SP281	TN-Tan			HI RIDE SWITCH

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP282	TN-Tan			SHPNG LVL SW
SP283	TN-Tan			KNEELING LIGHT
SP284	TN-Tan			LO RIDE SWITCH
SP285	TN-Tan			AUTO KNEEL SW
SP286	TN-Tan			MAN KNEEL SW
SP287	BK-Black	TWP-16		SENS RL ECAS
SP288	TN-Tan	TWP-14		SENS F ECAS
SP289	BK-Black	TWP-14		24V GND-ECAS
SP292	TN-Tan			FAULT LIGHT
SP293	TN-Tan			24V NEUT GND
SP294	TN-Tan			ECAS PARK BRK
SP295	TN-Tan			HI RIDE LT ECAS
SP296	BK-Black	TWP-18		ABS 3 SENS L2
SP297	BN-Brown	TWP-18		ABS 3 SENS L1
SP298	BN-Brown	TWP-17		ABS 3 SENS R1
SP299	BK-Black	TWP-17		ABS 3 SENS R2
SP300	GN/YW- Green/Yellow	TWT-10		ABS 3 VLV COM L
SP301	BN-Brown	TWT-10		ABS 3 VLV I/L L
SP302	BE-Blue	TWT-10		ABS 3 VLV O/L L
SP303	GN/YW- Green/Yellow	TWT-09		ABS 3 VLV COM R
SP304	BN-Brown	TWT-09		ABS 3 VLV I/L R
SP305	BE-Blue	TWT-09		ABS 3 VLV O/L R
SP308	BN-Brown	TWP-15		ECAS SENS RR COM
SP309	BN-Brown	TWP-16		ECAS SENS RL COM
SP310	TN-Tan			RTRDER BRK SIG
SP311	TN-Tan			FUEL HTR POS
SP312	TN-Tan			CHARGE LIGHT
SP315	RD-Red			BAT - PHT FUSE
SP316	RD-Red			BAT - PHT FUSE
SP317	RD-Red			PHT FSE TO RLY
SP318	RD-Red			PHT FSE TO RLY
SP319	RD-Red			BAT TO FL RLY
SP320	RD-Red			R STP/TRN PWR
SP321	RD-Red			FUS TO IGN RLY
SP322	RD-Red			HDLT FLSH COL
SP323	YW-Yellow			CUSTOMER 1
SP324	YW-Yellow			CUSTOMER 2
SP325	YW-Yellow			CUSTOMER 3
SP326	YW-Yellow			CUSTOMER 4
SP327	YW-Yellow			CUSTOMER 5
SP328	YW-Yellow			CUSTOMER 6
SP329	YW-Yellow			CUSTOMER 7
SP330	YW-Yellow			CUSTOMER 8
SP331	BN-Brown	TWP-19		VIP DATA LINK (-)

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP332	YW-Yellow	TWP-19		VIP DATA LINK (+)
SP333	GY-Gray			VIP MKR LMP OF
SP334	GY-Gray			VIP MKR LMP ON
SP335	GY-Gray			VIP HD LMP WPR
SP336	GY-Gray			VIP HD LMP OFF
SP337	GY-Gray			VIP HD LMP ON
SP338	GY-Gray			HDLT FLASH
SP339	GY-Gray			MKR LT FLASH
SP340	RD-Red			GENER START
SP341	RD-Red			VAC PUMP PWR
SP342	BK-Black			AUTO STEP A
SP343	BK-Black			AUTO STEP B
SP344	RD-Red			FAN SOL PWR
SP345	BK-Black			FAN SOL GND
SP346	TN-Tan			FAN THERM SIG
SP347	BK-Black			FAN THERM GND
SP348	RD-Red			FAN POWER
SP349	RD-Red			FAN POWER-12V
SP350	GY-Gray			FAN OVER-RIDE
SP351	GY-Gray			RETRDR IND LT
SP352	PK-Pink	TWP-20		SPEEDO POS
SP353	GY-Gray	TWP-20		SPEEDO NEG
SP354	RD-Red			SPD GENER PWR
SP355	GY-Gray			TRANS TEMP SW
SP356	PK-Pink			LVL JACK CONT POS BATT
SP357	RD-Red			SLIDE OUT PWR
SP358	PK-Pink			KNEEL VLV FILL
SP359	RD-Red			KNEEL VLV PWR
SP360	PK-Pink			TAG DUMP
SP361	RD-Red			DRV LGT PWR
SP362	PE-Purple			SW DRV LGT
SP363	GY-Gray			H'MAX FLOW SW
SP364	GY-Gray			H'MAX WRNG LMP
SP365	GY-Gray			H'MAX PUMP SIG
SP366	GY-Gray			H'MAX PUMP POS
SP367	RD-Red			H'MAX RLY FEED
SP368	RD-Red			DDEC BUZZER
SP369	PK-Pink			PSG INTRLK POS
SP370	GY-Gray			PSG INTRLK NEG
SP371	GY-Gray			LO AIR 2 SW
SP372	RD-Red			FL PRMR PWR
SP373	PK-Pink			PRMR SW TO PMP
SP374	RD-Red			SHUTDOWN PWR
SP375	PK-Pink			SHTDN SW - SOL
SP376	TN-Tan			FAST IDLE MAN
SP377	TN-Tan			DISABLE MAN

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP378	PE-Purple			TAG STEER LOCK
SP379	PK-Pink			TAG PRESS SW
SP380	PK-Pink			FAST IDLE SW
SP381	GY-Gray			HIGH IDLE LAMP
SP382	GY-Gray			SIREN BRAKE
SP383	GY-Gray			SIREN RELAY
SP384	GY-Gray			WIPER PARK L
SP385	GY-Gray			WIPER PARK R
SP386	GY-Gray			RIGHT WIPER LO
SP387	GY-Gray			RIGHT WIPER HI
SP388	WE-White			EXTERIOR TEMP
SP389	PK-Pink			DIAGN TOOL PWR
SP390	GY-Gray			TRANS ENGAGED
SP391	PK-Pink			LVL JACKS
SP392	PK-Pink			DOOR RLTC
SP393	GY-Gray			HNDL SENS
SP394	GY-Gray			RLR SENS
SP395	PK-Pink			LTCH JMP
SP396	RD-Red			LVL JACK BATT
SP397	PK-Pink			LFT SD WARNING
SP398	PK-Pink			RT SD WARNING
SP399	PK-Pink			RT LWR WRNING
SP400	PK-Pink			LT LWR WRNING
SP401	PK-Pink			SD WRN RLY
SP402	RD-Red			SD WARN SW
SP403	RD-Red			SD WARN PWR
SP404	PK-Pink			INTERLOCK
SP405	RD-Red			MAP LT
SP406	PK-Pink			LFT WARNING LT
SP407	PK-Pink			RT WARNING LT
SP408	RD-Red			FRT WARN PWR
SP409	RD-Red			CRTSY LMP PWR
SP410	RD-Red			BEACON
SP411	RD-Red			BEACON PWR
SP412	RD-Red			BEACON SWITCH
SP413	RD-Red			ALT LT PWR
SP414	PK-Pink			WRN LT RLY
SP415	PK-Pink			WARN LT SW
SP416	RD-Red			SIREN PWR
SP417	RD-Red			OPN DR BEAC PW
SP418	PK-Pink			P-MODE SHIFT
SP419	RD-Red			DEFROST FAN
SP420	PK-Pink			BRKR TO RLY
SP421	RD-Red			RLY TO BUS BAR
SP422	RD-Red			BRKR - AC BLWR
SP423	RD-Red			BRKR - AC BLWR

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP424	GY-Gray			DOME LT LFT
SP425	GY-Gray			DOME LT RT
SP426	GY-Gray			DUMP VLV OFF
SP427	PK-Pink			DUMP VLV ON
SP428	RD-Red			HTR PWR
SP429	RD-Red			HTR PWR
SP430	RD-Red			HTR PWR
SP431	GY-Gray			ABS WARN
SP433	RD-Red			FRT WARN FLSHR
SP434	RD-Red			MSTR WARN SW FEED
SP435	RD-Red			MSTR WARN SW PWR
SP436	GY-Gray			N TO R INHIBIT
SP437	GY-Gray			4TH RANGE IND
SP438	RD-Red			LEFT SPOT LT
SP439	RD-Red			RIGHT SPOT LT
SP440	RD-Red			RELAY 1 PWR
SP441	PK-Pink			RELAY 1 NC
SP442	PK-Pink			RELAY 1 NO
SP443	RD-Red			RELAY 2 PWR
SP444	PK-Pink			RELAY 2 NC
SP445	PK-Pink			RELAY 2 NO
SP446	RD-Red			RELAY 3 PWR
SP447	PK-Pink			RELAY 3 NC
SP448	PK-Pink			RELAY 3 NO
SP449	RD-Red			RELAY 4 PWR
SP450	PK-Pink			RELAY 4 NO
SP451	RD-Red			RELAY 5 PWR
SP452	PK-Pink			RELAY 5 NO
SP453	GN-Green			SEAT AIR 1
SP454	GN-Green			SEAT AIR 2
SP455	YW-Yellow			DR SW TO AUX
SP456	RD-Red			SW BRKR PWR
SP457	RD-Red			LIVE BRKR PWR
SP458	RD-Red			IGN PWR
SP459	RD-Red			MAST PWR
SP460	RD-Red			IGN PWR
SP461	RD-Red			CO ALARM PWR
SP462	RD-Red			LP ALARM PWR
SP463	RD-Red			MONITOR PWR
SP464	PK-Pink			HEATED MIRROR
SP465	RD-Red			HTD MIRROR PWR
SP466	RD-Red			POWER MIRROR
SP467	GY-Gray			DOOR WARNING
SP468	PK-Pink			RT LOW WARN LT
SP469	PK-Pink			LF LOW WARN LT
SP470	PK-Pink			DIFF LOCK LT

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP471	GY-Gray			RACOR ALARM
SP472	RD-Red			CAB FEED POS
SP473	PK-Pink			FUEL HEAT SW
SP474	RD-Red			START SOL #2
SP475	PK-Pink			FRT STROBE RLY
SP476	PK-Pink			SIDE STROBE RY
SP477	PK-Pink			FRT STROBE SW
SP478	PK-Pink			SIDE STROBE SW
SP479	RD-Red			GROUND LT PWR
SP480	PK-Pink			ENG SD SIG POS
SP481	GY-Gray			ENG SD SIG NEG
SP482	PK-Pink			THRTL COM POS
SP483	GY-Gray			THRTL COM NEG
SP484	RD-Red			ALTERNATOR OUT
SP485	RD-Red			BAT POS TO STR
SP486	RD-Red			PTO POWER
SP487	PK-Pink			LEFT SCENE LT
SP488	PK-Pink			RIGHT SCENE LT
SP489	PK-Pink			CAB TILT SOL. TO ALARM
SP490	RD-Red			FLOOD LT POWER
SP491	PK-Pink			RT FLOOD LIGHT
SP492	PK-Pink			LT FLOOD LIGHT
SP493	RD-Red			OPTICOM POWER
SP494	RD-Red			OPTICOM SWITCH
SP495	PK-Pink			PTO CLUTCH SW
SP496	GY-Gray			PTO IND LIGHT
SP497	PK-Pink			RELAY TO A/C CONDNSR
SP498	RD-Red			BREAKER TO A/C COND RY
SP499	GY-Gray			A/C EVAP TO COND
SP500	RD-Red			LOAD MGR PWR
SP501	PK-Pink			LOAD MGR #1
SP502	PK-Pink			LOAD MGR #2
SP503	PK-Pink			LOAD MGR #3
SP504	PK-Pink			LOAD MGR #4
SP505	PK-Pink			LOAD MGR #5
SP506	PK-Pink			LOAD MGR #6
SP507	PK-Pink			LOAD MGR #7
SP508	PK-Pink			LOAD MGR #8
SP509	PK-Pink			LOAD MGR #9
SP510	PK-Pink			LOAD MGR #10
SP511	PK-Pink			LOAD MGR #11
SP512	PK-Pink			LOAD MGR #12
SP513	RD-Red			SCENE LT PWR
SP514	BK-Black			SWITCHED GND
SP515	GN-Green			ABS BLINK IN
SP516	YW-Yellow			ABS BLINK OUT

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP517	RD-Red			IGN TO ABS ECU
SP518	RD-Red			RELAY TO WARN LT
SP519	GY-Gray			FUEL PRESS SNDR
SP520				NSBU ACC FEED
SP521	BE-Blue			REV ACTIVE
SP522				PARK ACTIVE
SP523	GY-Gray			Left Mirror Heat (-)
SP524	GY-Gray			Left Mirror Heat (+)
SP525	GY-Gray			Left Mirror Adj.
SP526	GY-Gray			Left Mirror Adj.
SP527	GY-Gray			Left Mirror Adj.
SP528	RD-Red			DATALINK PWR
SP529	PK-Pink			AMMETER POS
SP530	GY-Gray			AMMETER NEG
SP531	RD-Red			PWR VENT SW
SP532	RD-Red			PWR VENT PWR
SP533	RD-Red			PWR VENT
SP534	PK-Pink			SEC SIG STP LT RLY
SP535	BK-Black			PROP VALVE
SP536	PK-Pink			PROP VALVE
SP537	PK-Pink			COOLANT TEMP (+)
SP538	BK-Black			COOLANT TEMP (-)
SP539	OE-Orange			MC PWR CONTR
SP540	PK-Pink	TWP-31		INSTR DATA +
SP541	GY-Gray	TWP-31		INSTR DATA -
SP542	PK-Pink			GAUGE DATA
SP543	RD-Red			VDC PWR
SP544	PK-Pink			VDC IGN
SP545	GY-Gray			VDC ACT
SP546	BN-Brown			FT MRKR LT
SP547	GY-Gray			AIR FILTER
SP548	GY-Gray			CAB AJAR
SP549	PK-Pink			TV FUSE TO RLY
SP550	PK-Pink			TV PWR FROM RLY
SP551	RD-Red			BACK LT PWR
SP552	BN-Brown			BACK LT
SP553	PK-Pink			TAG LFT LGHT ACTIVE
SP554	GY-Gray			REVERSE OUTPUT SIG(GRD)
SP555	PK-Pink			CLN IGN FRM FUSE
SP556	PK-Pink			CUST IGN FRM FUSE
SP557	RD-Red			AUD ALRM POS
SP558	PK-Pink			AUX BRK SIG
SP559	PK-Pink			AUX BRK IND
SP560	RD-Red			CUST ACC FRM FUSE
SP561	RD-Red			LTBAR PWR 1
SP562	RD-Red			LTBAR SYS 1

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP563	RD-Red			LTBAR PWR 2
SP564	RD-Red			LTBAR SYS 2
SP565	RD-Red			LTBAR SW 1
SP566	RD-Red			LTBAR SW 2
SP567	DKGN-Dark Green			R TURN SIG FROM SW TO FR RLY
SP568	YW-Yellow			L TURN SIG FROM SW TO FR RLY
SP569	DKGN-Dark Green			R TURN FROM RLY TO LTS
SP570	YW-Yellow			L TURN FROM RLY TO LTS
SP571	PK-Pink			FAN ON/OFF
SP572	PK-Pink			FAN HIGH/LOW OFF
SP573	TN-Tan			FAN VARIABLE
SP574	BK-Black			FAN SIG RTN
SP575	PE-Purple	TWP-24		PRIVATE DATABUS (+)
SP576	GN-Green	TWP-24		PRIVATE DATABUS (-)
SP577	RD-Red			CNDSR PWR FRM SW TO FAN
SP578	GY-Gray			TRIP RESET
SP579	GY-Gray			ENGLISH/METRIC
SP580	RD-Red			MASTER SW
SP581	RD-Red			SMRT WHEEL/VIP B (+)
SP582	RD-Red			ROAD RELAY B (+)
SP583	GY-Gray			WASHER SIGNAL (-)
SP584	GY-Gray			WIPER SW LOW
SP585	GY-Gray			WIPER SW HIGH
SP586	BK-Black			BACK LT GND
SP587	RD-Red			CAB SPOT LT PWR
SP588	PK-Pink			RELAY 4 NC
SP589	PK-Pink			RELAY 5 NC
SP590	RD-Red			RELAY 6 PWR
SP591	PK-Pink			RELAY 6 NC
SP592	PK-Pink			RELAY 6 NO
SP593	RD-Red			RELAY 7 PWR
SP594	PK-Pink			RELAY 7 NC
SP595	PK-Pink			RELAY 7 NO
SP596	RD-Red			RELAY 8 PWR
SP597	PK-Pink			RELAY 8 NC
SP598	PK-Pink			RELAY 8 NO
SP599	RD-Red			RELAY 9 PWR
SP600	PK-Pink			RELAY 9 NC
SP601	PK-Pink			RELAY 9 NO
SP602	RD-Red			RELAY 10 PWR
SP603	PK-Pink			RELAY 10 NC
SP604	PK-Pink			RELAY 10 NO
SP605	RD-Red			RELAY 11 PWR
SP606	PK-Pink			RELAY 11 NC
SP607	PK-Pink			RELAY 11 NO
SP608	RD-Red			RELAY 12 PWR

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP609	PK-Pink			RELAY 12 NC
SP610	PK-Pink			RELAY 12 NO
SP611	YW-Yellow			CUSTOMER 9
SP612	YW-Yellow			CUSTOMER 10
SP613	YW-Yellow			CUSTOMER 11
SP614	YW-Yellow			CUSTOMER 12
SP615	WE-White			TELMA LT 1
SP616	WE-White			TELMA LT 2
SP617	WE-White			TELMA LT 3
SP618	WE-White			TELMA LT 4
SP619	WE-White			TELMA RELAY 1
SP620	WE-White			TELMA RELAY 2
SP621	WE-White			TELMA RELAY 3
SP622	WE-White			TELMA RELAY 4
SP623	WE-White			TELMA THRTLE ACT 1
SP624	WE-White			TELMA THRTLE ACT 1
SP625	RD-Red			TELMA POWER
SP626	WE-White			TELMA BRAKE LT
SP627	WE-White			TELMA ABS
SP628	WE-White			TELMA STAGE 1
SP629	WE-White			TELMA STAGE 2
SP630	WE-White			TELMA STAGE 3
SP631	WE-White			TELMA STAGE 4
SP632	RD-Red			INSTRUMENT (B+)
SP633	PE-Purple			TIRE CHAIN SW TO SOL
SP634	RD-Red			LUG LOCK PWR
SP635	RD-Red			BATT TO IGN RLY
SP636	PK-Pink			IGN PWR TO FUSES
SP637	RD-Red			BATT TO IGN RLY
SP638	PK-Pink			IGN PWR TO FUSES
SP639	RD-Red			BATT TO IGN RLY
SP640	PK-Pink			IGN PWR TO FUSES
SP641	RD-Red			BATT TO IGN RLY
SP642	PK-Pink			IGN PWR TO FUSES
SP643	RD-Red			BATT TO IGN RLY
SP644	PK-Pink			IGN PWR TO FUSES
SP645	RD-Red			BATT TO ACC RLY
SP646	PK-Pink			ACC PWR TO FUSES
SP647	RD-Red			BATT TO ACC RLY
SP648	PK-Pink			ACC PWR TO FUSES
SP649	RD-Red			BATT TO ACC RLY
SP650	PK-Pink			ACC PWR TO FUSE
SP651	BK-Black			COMMON GND
SP652	BK-Black			COMMON GND
SP653	BK-Black			COMMON GND
SP654	BK-Black			CLEAN GND

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP655	BK-Black			CLEAN GND
SP656	RD-Red			GPS BATT (+)
SP657	RD-Red			FUEL/WATER SEP (+)
SP658	WE-White			STATE OF ABS LT
SP659	PK-Pink			SUN VISOR IGN PWR
SP660	BK-Black			LVL JK GND
SP661	PK-Pink			NT VISION SW IGN
SP662	GN-Green			ADCAN
SP663	SD-Shield Drain			SHIELD
SP664	BK-Black			CAN L
SP665	WE-White			CAN H
SP666	RD-Red			SLU BATT (+)
SP667	PK-Pink			SLU WAKE-UP (EREV0)
SP668	WE-White			DIAG CN (EREV1)
SP669	RD-Red			MCU BATT (+)
SP670	RD-Red			NODE BATT (+)
SP671	RD-Red			NODE IGN (+)
SP672	PK-Pink			NODE IGN RLY CONTROL
SP673	OE-Orange			DIAG K LINE
SP674	GY-Gray			DIAG L LINE
SP675	OE-Orange			STP MTR BI-DIRECT
SP676	YW-Yellow			STP MTR BI-DIRECT
SP677	RD-Red			STEP LIGHT
SP678	GY-Gray			ACCESSORY SIG (-)
SP679	GY-Gray			IGNITION SIG (-)
SP680	GY-Gray			START SIG (-)
SP681	GY-Gray			BATT BOOST
SP682	WE-White			DOOR LOCK
SP683	BE-Blue			DOOR STP OVR RIDE
SP684	RD-Red			AIR HORN PWR
SP685	PK-Pink			AIR HORN SOL SW
SP686	PK-Pink			SIREN SW PWR
SP687	OE-Orange			ANALOG SIG
SP688	RD-Red			SENSOR PWR
SP689	BK-Black			SENSOR GND
SP690	CR-Clear	SHIELD CABLE		MUX HIGH
SP691	BK-Black	SHIELD CABLE		MUX LOW
SP692	SD-Shield Drain	SHIELD CABLE		MUX SHIELD
SP693	PK-Pink			PARK BRAKE POS
SP694	RD-Red			FAN PWR FT
SP695	RD-Red			FAN PWR RR
SP696	RD-Red			LT BAR A
SP697	RD-Red			LT BAR B
SP698	RD-Red			LT BAR C
SP699	RD-Red			LT BAR D
SP700	RD-Red			HDLT SW PWR

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP701	OE-Orange			EVAP THERM
SP702	PK-Pink			COND FAN CONTR
SP703	DKGN-Dark Green			RIGHT TURN ENABLE
SP704	YW-Yellow			LEFT TURN ENABLE
SP705	RD-Red			MAST PWR FUSE
SP706	RD-Red			MUX PWR
SP707	PK-Pink			PUMP W/ PARK
SP708	BE-Blue			NGI PWR +7.6V
SP709	BE-Blue			TRAILER BRAKE
SP710	PE-Purple			SEAT BELT IND
SP711	PK-Pink			ISS INDICATOR LT
SP712	WE-White			PSG INTRLK
SP713	RD-Red			STROBE POWER
SP714	BE-Blue			FRNT STROBE SW
SP715	GN-Green			SIDE STROBE SW
SP716	PK-Pink			CLEAN IGN PWR
SP717	PK-Pink			RADIO IGN
SP718	PK-Pink			A/C THERM TO PRS SW
SP719	RD-Red			COOLANT LVL PWR
SP720	RD-Red			LF VLV POS
SP721	BK-Black			LF VLV NEG
SP722	RD-Red			RF VLV POS
SP723	BK-Black			RF VLV NEG
SP724	RD-Red			LR VLV POS
SP725	BK-Black			LR VLV NEG
SP726	RD-Red			RR VLV POS
SP727	BK-Black			RR VLV NEG
SP728	RD-Red			TAG LR VLV POS
SP729	BK-Black			TAG LR VLV NEG
SP730	RD-Red			TAG RR VLV POS
SP731	BK-Black			TAG RR VLV NEG
SP732	RD-Red	TWT-11		FRT VERT SENS POS
SP733	BK-Black	TWT-11		FRT VERT SENS NEG
SP734	TN-Tan	TWT-11		FRT VERT SENS SIG
SP735	RD-Red	TWT-12		RR VERT SENS POS
SP736	BK-Black	TWT-12		RR VERT SENS NEG
SP737	TN-Tan	TWT-12		RR VERT SENS SIG
SP738	RD-Red	TWT-13		LATL SENS POS
SP739	BK-Black	TWT-13		LATL SENS NEG
SP740	TN-Tan	TWT-13		LATL SENS SIG
SP741	OE-Orange			FAULT IND
SP742	BE-Blue			HARD/SOFT IND
SP743	BE-Blue	LEONI CABLE 2 WIRE		ABS ATC VLV APLY
SP744	BN-Brown	LEONI CABLE 2 WIRE		ABS ATC VLV COM

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP745	PK-Pink			SAR IGN POS
SP746	GY-Gray			INTER SW TO LT
SP747	PK-Pink			INTER BRKR TO SW
SP748	PK-Pink			INTER SW TO SOL
SP749	PK-Pink			DCDL SW TO SOL
SP750	PK-Pink			DCDL BRKR TO SW
SP751	BE-Blue			LP SIGNAL
SP752	PE-Purple			ZF EASY STRT SIG
SP753	BE-Blue	LEONI CABLE 2 WIRE		ZF EASY STRT SOL APLY
SP754	BN-Brown	LEONI CABLE 2 WIRE		ZF EASY STRT SOL COM
SP755	GN-Green			ZF ZF EASY STRT BRK SIG
SP756	RD-Red			ZF 24V BATT POS
SP757	PK-Pink			ZF 24V IGN
SP758	RD-Red			ZF 12V BATT POS
SP759	YW-Yellow			ENGINE BRAKE 3
SP760	YW-Yellow			SHUTDOWN DELAY
SP761	PK-Pink			PWR COL TILT U
SP762	GY-Gray			PWR COL TILT D
SP763	PK-Pink			PWR COL TELE F
SP764	GY-Gray			PWR COL TELE R
SP765	BN-Brown			MRKR LT
SP766	BN-Brown			TRLR MRKR LT
SP767	RD-Red			ADJ PEDAL PWR
SP768	PK-Pink			CONTROLLER IGN
SP769	PK-Pink			MEM CTRL IGN PWR
SP770	TN-Tan			MEM MAN HOME
SP771	LTBE-Light Blue			MEMORY SW 2
SP772	OE-Orange			MEMORY SW 1
SP773	YW-Yellow			MEMORY SET
SP774	GY-Gray			MEMORY SW COMMON
SP775	BK-Black			ENGINE LT SIG
SP776	PK-Pink			ENGINE LT SW PWR
SP777	RD-Red			MEMORY PWR 1
SP778	RD-Red			MEMORY PWR 2
SP779	PK-Pink			POTENTIOMETER POS
SP780	BK-Black			POTENTIOMETER NEG
SP781	WE-White			POTENTIOMETER SENS
SP782	YW-Yellow			SET RIDE HT
SP783	PE-Purple			RAISE RIDE HT
SP784	GN-Green			LOWER RIDE HT
SP785	OE-Orange			HADLEY LIGHT +
SP786	WE-White			HADLEY LIGHT -
SP787	BK-Black			SWITCH RETURN
SP788	PK-Pink			L WARN LT

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP789	PK-Pink			R WARN LT
SP790	RD-Red			SEAT FRT UP INPUT
SP791	BE-Blue			SEAT FRT DN INPUT
SP792	RD-Red			SEAT REAR UP INPUT
SP793	GN-Green			SEAT REAR DN INPUT
SP794	RD-Red			SEAT BASE FWD INPUT
SP795	WE-White			SEAT BASE RWD INPUT
SP796	RD-Red			SEAT BACK FWD INPUT
SP797	YW-Yellow			SEAT BACK RWD INPUT
SP798	WE-White			SEAT FRT POT 5V SEN
SP799	WE-White			SEAT REAR POT 5V SEN
SP800	WE-White			SEAT BASE POT 5V SEN
SP801	WE-White			SEAT BACK POT 5V SEN
SP802	WE-White			THROT POT 5V SEN
SP803	WE-White			PWR COL TILT PT 5V SEN
SP804	WE-White			PWR COL TELE PT 5V SEN
SP805	RD-Red			MIRROR UP INPUT
SP806	OE-Orange			MIRROR DN INPUT
SP807	WE-White			MIR DRV PT 5V SEN UP/DN
SP808	BN-Brown			MIRROR LT INPUT
SP809	TN-Tan			MIRROR RT INPUT
SP810	WE-White			MIR DRV PT 5V SEN LFT/ RT
SP811	GN-Green			MIR PAS SIDE UP INPUT
SP812	DKBE-Dark Blue			MIR PAS SIDE DN INPUT
SP813	WE-White			MIR PAS PT 5V SEN UP/DN
SP814	YW-Yellow			MIR PASS SIDE LT INPUT
SP815	OE-Orange			MIRROR PAS SIDE RT INPUT
SP816	WE-White			MIR PASS PT 5V SEN LT/RT
SP817	GY-Gray			MIR SEL DRV / PAS
SP818	RD-Red			REFRIG 1
SP819	RD-Red			REFRIG 2
SP820	RD-Red			SEAT MTR FRONT UP
SP821	BE-Blue			SEAT MTR FRONT DN
SP822	RD-Red			SEAT MTR REAR UP
SP823	GN-Green			SEAT MTR REAR DN
SP824	RD-Red			SEAT MTR BASE FWD
SP825	WE-White			SEAT MTR BASE RWD
SP826	RD-Red			SEAT MTR BACK FWD
SP827	YW-Yellow			SEAT MTR BACK REAR
SP828	RD-Red			MIR MTR DRVS UP
SP829	OE-Orange			MIR MTR DRVS DN
SP830	BN-Brown			MIR MTR DRVS. LFT
SP831	TN-Tan			MIR MTR DRVS. RT
SP832	DKGN-Dark Green			MIR MTR PASS UP
SP833	DKBE-Dark Blue			MIR MTR PASS DN
SP834	YW-Yellow			MIR MTR PASS LFT

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP835	OE-Orange			MIR MTR PASS RT
SP836	RD-Red			WINDOW PWR
SP837	PK-Pink			DRV MTR PWR
SP838	WE-White			DRV MTR RET
SP839	PK-Pink			DRV RR MTR PWR
SP840	WE-White			DRV RR MTR RET
SP841	PK-Pink			OFCR MTR PWR
SP842	WE-White			OFCR MTR RET
SP843	PK-Pink			OFCR RR MTR PWR
SP844	WE-White			OFCR RR MTR RET
SP845	PK-Pink			WINDOW MTR PWR
SP846	WE-White			WINDOW MTR RET
SP847	RD-Red			HADLEY IGN PWR
SP848	RD-Red			MEMORY PWR 3
SP849	RD-Red			CNVX MIRROR UP INPUT
SP850	OE-Orange			CNVX MIRROR DN INPUT
SP851	WE-White			CNVX MIR DRV PT 5V SEN UP/DN
SP852	BN-Brown			CNVX MIRROR LF INPUT
SP853	TN-Tan			CNVX MIRROR RT INPUT
SP854	WE-White			CNVX MIR DRV PT 5V SEN LFT/RT
SP855	GN-Green			CNVX MIR PAS SIDE UP INPUT
SP856	DKBE-Dark Blue			CNVX MIR PAS SIDE DN INPUT
SP857	WE-White			CNVX MIR PAS PT 5V SEN UP/DN
SP858	YW-Yellow			CNVX MIR PASS SIDE LT INPUT
SP859	OE-Orange			CNVX MIR PAS SIDE RT INPUT
SP860	WE-White			CNVX MIR PASS PT 5V SEN LT/RT
SP861	GY-Gray			CNVX MIR SELECT DRV / PASS
SP862	RD-Red			CNVX MIR MTR DRVS UP
SP863	OE-Orange			CNVX MIR MTR DRVS DN
SP864	BN-Brown			CNVX MIR MTR DRVS LFT
SP865	TN-Tan			CNVX MIR MTR DRVS RT
SP866	DKGN-Dark Green			CNVX MIR MTR PASS UP
SP867	DKBE-Dark Blue			CNVX MIR MTR PASS DN
SP868	YW-Yellow			CNVX MIR MTR PASS LFT
SP869	OE-Orange			CNVX MIR MTR PASS RT
SP870	RD-Red			BKUP ALRM PWR
SP871	OE-Orange			BLKOUT LT PWR
SP872	RD-Red			BLKOUT SWD PWR
SP873	GN-Green			HDLP SW TO BO LT
SP874	RD-Red			RED BACKLIGHT
SP875	YW-Yellow			WIPER DELAY A
SP876	OE-Orange			WIPER DELAY B
SP877	GN-Green			WIPER DELAY C
SP878	PK-Pink			NEUTRAL SIG POS
SP879	GY-Gray			NEUTRAL SIG NEG
SP880	WE-White			NEUTRAL SIG POS / NEG

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP881	PK-Pink			T-CASE AWD ENABLE
SP882	TN-Tan			ANT UP WARNING
SP883	TN-Tan			JACK DOWN WARNING
SP884	PK-Pink			CUSTOMER 1
SP885	RD-Red			CUSTOMER 2
SP886	BE-Blue			CUSTOMER 3
SP887	YW-Yellow			CUSTOMER 4
SP888	OE-Orange			CUSTOMER 5
SP889	GN-Green			CUSTOMER 6
SP890	BN-Brown			CUSTOMER 7
SP891	PE-Purple			CUSTOMER 8
SP892	BK-Black			CUSTOMER 9
SP893	WE-White			CUSTOMER 10
SP894	TN-Tan			CUSTOMER 11
SP895	LTBE-Light Blue			CUSTOMER 12
SP896	DKBE-Dark Blue			CUSTOMER 13
SP897	LTBE-Light Blue			CUSTOMER 14
SP898	LTGN-Light Green			CUSTOMER 15
SP899	DKGN-Dark Green			CUSTOMER 16
SP900	PK-Pink			BRAKE CNTRL
SP901	WE-White			BLKOUT STP LT
SP902	PK-Pink			T-CASE LO ENABLE
SP903	GY-Gray			T-CASE LO LT
SP904	PK-Pink			TRW IGN
SP905	RD-Red			TRW BATT
SP906	PK-Pink			DIFF LOCK ENABLE
SP907	BE-Blue			AWD CONTROL LOGIC
SP908	GN-Green			DIFF CONTROL LOGIC
SP909	YW-Yellow			T-CASE CONTROL LOGIC
SP910	GY-Gray			AWD LT
SP911	PK-Pink			CUSTOMER 17
SP912	RD-Red			CUSTOMER 18
SP913	BE-Blue			CUSTOMER 19
SP914	YW-Yellow			CUSTOMER 20
SP915	GY-Gray			SLS 5 VDC REG
SP916	BN-Brown			SLS RAISE / ARROW 1 GN LED
SP917	PK-Pink			SLS LOWER / ARROW 1 YW LED
SP918	OE-Orange			SLS RIDE HEIGHT / ARROW 2 GN LED
SP919	DKGN-Dark Green			SLS SUSP / ARROW 2 YW LED
SP920	DKBE-Dark Blue			SLS AIR PRES / SET LED
SP921	PE-Purple			SLS BANK SEL LOW / BANK SEL HIGH
SP922	WE-White			SLS BANK SEL HIGH / BANK SEL LOW
SP923	TN-Tan			SLS ENABLE
SP924	RD-Red			SLS SET
SP925	YW-Yellow			SLS STD RIDE
SP926	LTGN-Light Green			SLS LOWER

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP927	LTBE-Light Blue			SLS RAISE
SP928	BK-Black			SLS TOUCH PAD GROUND
SP929	RD-Red			HDLP SW TO IR LT
SP930	RD-Red			IR LT PWR
SP931	BE-Blue			LT AND ALARM DIS
SP932	WE-White			SPD/NEU LOCK POS
SP933	WE-White			SPD/NEU LOCK NEG
SP934	RD-Red			DC CONVERTOR PWR (24V)
SP935	PK-Pink			CREW DOME LT PWR SW
SP936	PK-Pink			CREW DOME LT RD/WE SW
SP937	WE-White			WHITE DOME LT PWR
SP938	RD-Red			RED DOME LT PWR
SP939	RD-Red			DOOR SW PWR
SP940	PK-Pink			DOOR SW TO DOME LT RLY
SP941	PK-Pink			FAN HIGH SPEED
SP942	OE-Orange			FAN MED SPEED
SP943	BE-Blue			FAN LOW SPEED
SP944	PK-Pink			A/C RECIRC SIG
SP945	PK-Pink			A/C DEFROST SIG
SP946	PK-Pink			A/C HEAT VALVE SIG
SP947	PK-Pink			A/C FACE SIG
SP948	RD-Red			DC CONVERTOR PWR (12V)
SP949	GY-Gray			GAUGE ALARM DISABLE
SP950	PE-Purple			HDLP LOW BEAM SIG
SP951	BE-Blue			HDLP HIGH BEAM SIG
SP952	GN-Green			WINCH POWER IN
SP953	WE-White			WINCH COMMON
SP954	BK-Black			WINCH POWER OUT
SP955	RD-Red			SPOT LT CONTROL 1
SP956	WE-White			SPOT LT CONTROL 2
SP957	BK-Black			SPOT LT CONTROL 3
SP958	BN-Brown			SPOT LT CONTROL 4
SP959	GN-Green			SPOT LT CONTROL 5
SP960	YW-Yellow			SPOT LT CONTROL 6
SP961	BE-Blue			SPOT LT CONTROL 7
SP962	PE-Purple			SPOT LT CONTROL 8
SP963	BE-Blue			INVERTER ON-OFF SW
SP964	BE-Blue			ABS RSC VALUE APPLY
SP965	BN-Brown			ABS RSC VALUE COM
SP966	YW-Yellow			TRLR L STOP/TURN
SP967	DKGN-Dark Green			TRLR R STOP/TURN
SP968	PK-Pink			TIRE PRESSURE IGN
SP969	PK-Pink			COMPASS MODULE IGN
SP970	PK-Pink			JUNIOR MODULE IGN
SP971	PK-Pink			A/C CLUTCH CONTROL
SP972	RD-Red			TRLR BATT CHARGE

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP973	RD-Red			HDLP HIGH BEAM / L FLASH
SP974	RD-Red			HDLP HIGH BEAM / R FLASH
SP975	RD-Red			PWR POINT LIVE
SP976	RD-Red			PWR POINT MASTER
SP977	RD-Red			REMOTE BATT DIS PWR
SP978	PK-Pink			REMOTE BATT DIS SIG
SP979	LTGN-Light Green			SPARTAN DATA BUS
SP980	WE-White	TWP-29		J1587 POS
SP981	BE-Blue	TWP-29		J1587 NEG
SP982	RD-Red			BATT POS
SP983	RD-Red			BATT POS
SP984	RD-Red			BATT POS
SP985	RD-Red			CLN BATT POS
SP986	RD-Red			CLN BATT POS
SP987	RD-Red			CLN BATT POS
SP988	GY-Gray			GND LT NEG
SP989	GY-Gray			SCNE LT NEG
SP990	PK-Pink			IGN SIG
SP991	RD-Red			PUMP POWER
SP992	PK-Pink			PUMP SWITCH
SP993	BE-Blue			PUMP MODE REQUESTED
SP994	OE-Orange			PUMP ENGAGED
SP995	RD-Red			OK TO PUMP
SP996	PE-Purple			THROTTLE READY
SP997	OE-Orange	TWT-02		LIN POWER
SP998	WE-White	TWT-02		LIN GROUND
SP999	PE-Purple	TWT-02		LIN COMM
SP1000	GY-Gray	TWP-54		SRS WARN LT
SP1001	OE-Orange			ELECT PUMP SOL
SP1002	WE-White			SPARE 1
SP1003	BE-Blue			SPARE 2
SP1004	GN-Green			SPARE 3
SP1005	YW-Yellow			SPARE 4
SP1006	PK-Pink			SPARE 5
SP1007	BE-Blue			DC CURRENT SEN
SP1008	GY-Gray			AUD ALARM NEG INPUT
SP1009	GY-Gray			AUD ALARM NEG OUTPUT
SP1010	BK-Black			MUX GND
SP1011	DKGN-Dark Green			MRKR - R TURN SIG
SP1012	YW-Yellow			MRKR - L TURN SIG
SP1013	GY-Gray			SEC BRK INPUT 1
SP1014	GY-Gray			SEC BRK INPUT 2
SP1015	PK-Pink			SEC BRK OUTPUT 1
SP1016	PK-Pink			SEC BRK OUTPUT 2
SP1017	RD-Red			STEERING COL PWR
SP1018	TN-Tan	TWP-34		ICSP PGD

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1019	RD-Red	TWP-34		ICSP PGC
SP1020	BE-Blue			ICSP PGM
SP1021	OE-Orange			ICSP RESET
SP1022	PK-Pink			ICSP 5V+
SP1023	PK-Pink			PUMP ROAD MODE
SP1024	DKBE-Dark Blue	TWP-32		PYRO BELT (+)
SP1025	DKBE/WE-Dark Blue/White	TWP-32		PYRO BELT (-)
SP1026	BN-Brown	TWP-33		PYRO CURT (+)
SP1027	BN/WE-Brown/White	TWP-33		PYRO CURT (-)
SP1028	RD-Red			TRAILER ABS PWR
SP1029	GN-Green			TRAILER ABS LT
SP1030	YW-Yellow			SPARE 0
SP1031	YW-Yellow			SPARE 1
SP1032	YW-Yellow			SPARE 2
SP1033	YW-Yellow			SPARE 3
SP1034	YW-Yellow			SPARE 4
SP1035	YW-Yellow			SPARE 5
SP1036	YW-Yellow			SPARE 6
SP1037	YW-Yellow			SPARE 7
SP1038	YW-Yellow			SPARE 8
SP1039	YW-Yellow			SPARE 9
SP1040	PE-Purple			TC NEU CONTROL LOGIC
SP1041	GY-Gray			TCASE NEU LT
SP1042	PK-Pink			TCASE NEU ENABLE
SP1043	GY-Gray			CLEAN GND SW
SP1044	PK-Pink			PUMP SHIFT SW
SP1045	RD-Red			IR LT HI BM PWR
SP1046	RD-Red			IR LT LO BM PWR
SP1047	WE-White			ENGINE RUNNING
SP1048	RD-Red			EVAP POWER
SP1049	RD-Red			COND POWER
SP1050	BE-Blue			CREW OVERRIDE SW
SP1051	PK-Pink			SW IGN TO A/C
SP1052	PK-Pink			BO MRKR LT PWR
SP1053	BN-Brown		3000	MRKR LTS FRNT
SP1054	BN-Brown			MRKR LTS REAR
SP1055	BN-Brown			SMRT WHL SWITCH
SP1056	YW-Yellow			SMRT WHL BANK
SP1057	OE-Orange			AMBNT LT SENSOR
SP1058	GN-Green			AUTO WIPER SENSOR
SP1059	PE-Purple			AUTO WIPER DISABLE
SP1060	YW-Yellow			TAG DMP SW
SP1061	BE-Blue			BK LT INC
SP1062	OE-Orange			BK LT DEC

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1063	GY-Gray			ICC BLINK
SP1064	RD-Red			HDLP L HI BEAM
SP1065	RD-Red			HDLP L LO BEAM
SP1066	RD-Red			HDLP R HI BEAM
SP1067	RD-Red			HDLP R LO BEAM
SP1068	RD-Red			FOG LT LEFT
SP1069	RD-Red			FOG LT RIGHT
SP1070	WE-White			TAG SW AUTO
SP1071	YW-Yellow			TAG SW MANUAL
SP1072	WE-White		3000	TELMA THRTL ACT 3
SP1073	WE-White			TELMA THRTL ACT 4
SP1074	BE-Blue			VENT FAN SW FEED
SP1075	BE-Blue			VENT FAN SW RTN
SP1076	YW-Yellow			LEFT TURN TO GAUGE
SP1077	DKGN-Dark Green			RIGHT TURN TO GAUGE
SP1078	RD-Red			HIGH BEAM TO GAUGE
SP1079	GY-Gray			MRKR LMP SW
SP1080	PE-Purple			HDLP SW
SP1081	RD-Red			STOP LTS
SP1082	DKGN-Dark Green			TRLR R TURN SIG
SP1083	YW-Yellow			TRLR L TURN SIG
SP1084	RD-Red			TRIP COMPUTER PWR
SP1085	RD-Red			TRLR STOP LT
SP1086	DKGN-Dark Green			RIGHT TRN SIG FROM SW
SP1087	YW-Yellow			LEFT TRN SIG FROM SW
SP1088	DKGN-Dark Green			TRLR R STP/TRN OR TRN
SP1089	YW-Yellow			TRLR L STP/TRN OR TRN
SP1090	DKGN-Dark Green			INPUT R STP/TRN OR TRN
SP1091	YW-Yellow			INPUT L STP/TRN OR TRN
SP1092	OE-Orange			B/UP ALARM
SP1093	PK-Pink			HORN OUTPUT
SP1094	OE-Orange			SCM OUTPUT SPEED INDIC
SP1095	PK-Pink			MARKER SWITCH SIGNAL
SP1096	GY-Gray			STP SW TO SCM
SP1097	RD-Red	WABCO CABLE 449 362 XXX 0		WABCO POWER
SP1098	BN-Brown	WABCO CABLE 449 362 XXX 0		WABCO GROUND
SP1099	BE-Blue	WABCO CABLE 449 362 XXX 0		WABCO CAN HIGH
SP1100	YW-Yellow	WABCO CABLE 449 362 XXX 0		WABCO CAN LOW
SP1101	RD-Red	WABCO CABLE 449 722 XXX 0		WABCO SENSOR POWER
SP1102	BN-Brown	WABCO CABLE 449 722 XXX 0		WABCO SENSOR GROUND
SP1103	GN-Green	WABCO CABLE 449		WABCO SENSOR SIGNAL

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
		722 XXX 0		
SP1104	GY-Gray			TORQUE LIMIT SW
SP1105	RD-Red			SIREN BRAKE PWR
SP1106	BE-Blue			FRT AXLE BRK VLV APLY
SP1107	BN-Brown			FRT AXLE BRK VLV COM
SP1108	RD-Red			IR SPOTLIGHT PWR
SP1109	OE-Orange			ACD HARD/SOFT SELECT
SP1110	RD-Red			DOOR LOCK POWER B+
SP1111	BK-Black			DOOR LOCK GROUND
SP1112	RD-Red			COMPARTMENT LOCK OUTPUT
SP1113	GN-Green			EMS COMPARTMENT LOCK OUTPUT
SP1114	BE-Blue			COMPARTMENT UNLOCK OUT
SP1115	OE-Orange			EMS COMPARTMENT UNLOCK OUT
SP1116	GY-Gray			DOME LIGHT INPUT
SP1117	BE-Blue			CAB UNLOCK OUTPUT
SP1118	GN-Green			CAB LOCK OUTPUT
SP1119	GY-Gray			COURTESY LIGHT OUTPUT
SP1120	TN-Tan			CAB UNLOCK INPUT
SP1121	BN-Brown			CAB LOCK INPUT
SP1122	TN/WE-Tan/White			COMPARTMENT UNLOCK INPUT
SP1123	BN/WE-Brown/White			COMPARTMENT LOCK INPUT
SP1124	GN-Green			APPARATUS LOCK OUTPUT
SP1125	YW-Yellow			APPARATUS UNLOCK OUTPUT
SP1126	PK-Pink			CRN LOCKOUT PWR
SP1127	GN-Green			STEER FLUID SENS OUT
SP1128	WE-White			BOOM UP
SP1129	WE-White			BOOM DOWN
SP1130	WE-White			SWING LEFT
SP1131	WE-White			SWING RIGHT
SP1132	PK-Pink			FT DIFF LOCK EN
SP1133	PK-Pink			RR DIFF LOCK EN
SP1134	PK-Pink			CRANE ON SIG
SP1135	GY-Gray			FT AXLE DIFF LT
SP1136	GY-Gray			RR AXLE DIFF LT
SP1137	GY-Gray			MID AXLE DIFF LT
SP1138	RD-Red			PERSONNEL HEATER
SP1139	RD-Red			RADIO/INTERCOM
SP1140	RD-Red			LITTER MOTOR
SP1141	RD-Red			GYROCAM
SP1142	RD-Red			DVE/CREW2/DAGR
SP1143	RD-Red			AN/GRC-213
SP1144	RD-Red			HELIOS/LITTER ELEC
SP1145	RD-Red			CROWS
SP1146	RD-Red			FBCB2
SP1147	RD-Red			FIRE SUPRESSION

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1148	RD-Red			NATO SLV PWR
SP1149	RD-Red			VEHICLE BATT PWR
SP1150	RD-Red			ALT REG STRTR V
SP1151	RD-Red			ALT REG MISS V
SP1152	PK-Pink			LT FUEL PUMP
SP1153	PK-Pink			RT FUEL PUMP
SP1154	PK-Pink			FUEL SENDER PWR
SP1155	PK-Pink			AWD/DIFF PWR
SP1156	PK-Pink			TCASE/DIFF LT PWR
SP1157	PK-Pink			LOUDSPEAKER
SP1158	PK-Pink			CREW2
SP1159	PK-Pink			COM POST 1
SP1160	PK-Pink			COM POST 2
SP1161	PK-Pink			EPLRS
SP1162	BK-Black			FUEL SNDR RTN
SP1163	RD-Red			A/C WATER PUMP
SP1164	YW-Yellow			PROGRAM 1
SP1165	YW-Yellow			PROGRAM 2
SP1187	YW-Yellow	J1939-15 CABLE		J1939-15 POS
SP1188	DKGN-Dark Green	J1939-15 CABLE		J1939-15 NEG
SP1189	RD-Red			STRTR BATT PWR
SP1190	PE-Purple			REV BATT V PROTECT
SP1191	PK-Pink			STRTR IGN PWR
SP1192	RD-Red			AUX TOW PWR
SP1193	YW-Yellow			NVD COMPAT BKLT
SP1194	GN-Green			TOW MODE INTERLOCK
SP1195	RD-Red			LRAS3/TOW-ITAS
SP1196	BE-Blue			4x4 HIGH
SP1197	WE-White			4X4 LOW
SP1198	OE-Orange			4X4 VALVE
SP1199	BN-Brown			2 SPD REAR AXLE INPUT
SP1200	TN-Tan			4X4 LT
SP1201	BN-Brown			2X4 LT
SP1202	YW-Yellow			4X4 ENGAGE
SP1203	WE-White			F DIFF CONTROL LOGIC
SP1204	GN-Green			R DIFF CONTROL LOGIC
SP1205	PK-Pink			AWD SEL LT
SP1206	PK-Pink			R DIFF SEL LT
SP1207	PK-Pink			F DIFF SEL LT
SP1208	PK-Pink			TC LO SEL LT
SP1209	PK-Pink			TC NEU SEL LT
SP1210	RD-Red			TILT PUMP POWER
SP1211	GN-Green			WINSHIELD WASHER SENSOR
SP1212	GN-Green			POWER STEERING SENSOR
SP1213	PK-Pink			AIR HORN SWITCH
SP1214	BE-Blue			CAB TILT UP

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1215	RD-Red			CAB TILT DOWN
SP1216	RD-Red			FRONT DOME LT
SP1217	RD-Red			REAR DOME LT
SP1218	RD-Red			CLEAR WARNING LT
SP1219	PK-Pink			SIREN BRAKE
SP1220	PK-Pink			MASTER SW SIG
SP1221	GN-Green	TWP-39		400A ALT REG A
SP1222	WE-White	TWP-39		400A ALT REG B
SP1223	BE-Blue			400A ALT REG C
SP1224	GN-Green			CRUISE SET
SP1225	YW-Yellow			CRUISE RESUME
SP1226	BN-Brown			CRUISE ON
SP1227	GY-Gray			SIREN SWITCH
SP1228	RD-Red			SLAVE SW PWR
SP1229	PK-Pink			SLAVE SW SIG
SP1230	RD-Red			BUS SW PWR
SP1231	PK-Pink			BUS SW SIG
SP1232	RD-Red			STRTR BATT PWR
SP1233	RD-Red			VHCL BATT PWR
SP1234	RD-Red			SLAVE PWR
SP1235	PK-Pink			STRT DIS SOL TRIG
SP1236	PK-Pink			VEH DIS SOL TRIG
SP1237	PK-Pink			SLV DIS SOL TRIG
SP1238	PK-Pink			BUS CON SOL TRIG
SP1239	RD-Red			BATT SWAP PWR
SP1240	GY-Gray			BATT SWAP COIL SIG
SP1241	PK-Pink			PTO REQUESTED
SP1242	PK-Pink			PTO ENGAGED
SP1243	PK-Pink			SERV BRK STATUS
SP1244	PK-Pink			NEU ACTIVE
SP1245	PK-Pink			OIL PRESS OK
SP1246	PK-Pink			LOW SPEED
SP1247	PK-Pink			STARTER INTERLOCK
SP1248	PK-Pink			ENG STOP REQ
SP1249	PK-Pink			STARTER REQUEST
SP1250	PK-Pink			KNEEL INTERLOCK
SP1251	PK-Pink			START REQUEST
SP1252	RD-Red			T-CASE HI ENABLE
SP1253	TN-Tan			STR WHL EFFORT CNTRL
SP1254	BE-Blue			AMMETER 1 SIG
SP1255	YW-Yellow			AMMETER 2 SIG
SP1256	OE-Orange	TWP-41		BATT TEMP SENSE SIG
SP1257	BE-Blue	TWP-41		BATT TEMP SENSE RTN
SP1258	PK-Pink			LFT FRT SCN LT PWR
SP1259	BK-Black			LFT FRT SCN LT RTN
SP1260	PK-Pink			FRT SCN LT PWR

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1261	BK-Black			FRT SCN LT RTN
SP1262	PK-Pink			RGT FRT SCN LT PWR
SP1263	BK-Black			RGT FRT SCN LT RTN
SP1264	PK-Pink			LFT REAR SCN LT PWR
SP1265	BK-Black			LFT REAR SCN LT RTN
SP1266	PK-Pink			REAR SCN LT PWR
SP1267	BK-Black			REAR SCN LT RTN
SP1268	PK-Pink			RGT REAR SCN LT PWR
SP1269	BK-Black			RGT REAR SCN LT RTN
SP1270	PE-Purple			FLSHR RESISTOR
SP1271	RD-Red			24V METER
SP1272	GN/YW- Green/Yellow			ABS 2 VLV COM L RR AXL
SP1273	BN-Brown			ABS 2 VLV I/L L RR AXL
SP1274	BE-Blue			ABS 2 VLV O/L L RR AXL
SP1275	GN/YW- Green/Yellow			ABS 2 VLV COM R RR AXL
SP1276	BN-Brown			ABS 2 VLV I/L R RR AXL
SP1277	BE-Blue			ABS 2 VLV O/L R RR AXL
SP1278	YW-Yellow			CAB LOWER
SP1279	YW-Yellow			CAB LOWER VALVE
SP1280	BE-Blue			CAB TILT LIMITED SW
SP1281	PK-Pink			4X4 SW PWR
SP1282	RD-Red			MAST CUST BATT
SP1283	GY-Gray			SENSOR RETURN
SP1284	PE-Purple			COMM ERROR
SP1285	PK-Pink			4X4 LOW LIGHT
SP1286	PK-Pink			4X2 VALVE
SP1287	OE-Orange			SEAT BELT SW A
SP1288	PE-Purple			SEAT OPTION SW A
SP1289	OE-Orange			SEAT BELT SW B
SP1290	PE-Purple			SEAT OPTION SW B
SP1291	OE-Orange			SEAT BELT SW C
SP1292	PE-Purple			SEAT OPTION SW C
SP1293	OE-Orange			SEAT BELT SW D
SP1294	PE-Purple			SEAT OPTION SW D
SP1295	OE-Orange			SEAT BELT SW E
SP1296	PE-Purple			SEAT OPTION SW E
SP1297	OE-Orange			SEAT BELT SW F
SP1298	PE-Purple			SEAT OPTION SW F
SP1299	OE-Orange			SEAT BELT SW G
SP1300	PE-Purple			SEAT OPTION SW G
SP1301	OE-Orange			SEAT BELT SW H
SP1302	PE-Purple			SEAT OPTION SW H
SP1303	OE-Orange			SEAT BELT SW J
SP1304	PE-Purple			SEAT OPTION SW J

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1305	OE-Orange			SEAT BELT SW K
SP1306	PE-Purple			SEAT OPTION SW K
SP1307	PK-Pink			KNEELING SW PWR
SP1308	PK-Pink			KNEELING IND LT
SP1309	PK-Pink			KNEELING ACTIVATION
SP1310	PK-Pink			KNEELING AIR SOL
SP1311	RD-Red			SBW BATT PWR 1
SP1312	RD-Red			SBW BATT PWR 2
SP1313	GN-Green			SBW MOTOR 1A
SP1314	YW-Yellow			SBW MOTOR 1B
SP1315	BE-Blue			SBW MOTOR 2A
SP1316	OE-Orange			SBW MOTOR 2B
SP1317	PK-Pink	TWT-20		SBW POS SENS PWR 1A
SP1318	BE-Blue	TWT-20		SBW POS SENS SIG 1B
SP1319	GY-Gray	TWT-20		SBW POS SENS GND 1C
SP1320	PK-Pink	TWT-21		SBW POS SENS PWR 2A
SP1321	OE-Orange	TWT-21		SBW POS SENS SIG 2B
SP1322	GY-Gray	TWT-21		SBW POS SENS GND 2C
SP1323	RD-Red			VDR POWER
SP1324	PK-Pink			BED LIGHT PWR
SP1325	YW-Yellow			12V L STP/TRN
SP1326	GN-Green			12V R STP/TRN
SP1327	PK-Pink			12V AUX PWR
SP1328	RD-Red			12V STOP LT
SP1329	RD-Red	120 ohm Impedance (120 ohm , 0.8m, 19 Strand)		120 OHM JUMP WIRE
SP1330	GY-Gray			AIR DUMP ENGAGED
SP1331	PK-Pink			TILT ENABLE SOL
SP1332	PK-Pink			CAB TILT MOTOR SOL
SP1333	PK-Pink			CAB TILT DN
SP1334	PK-Pink			CAB LOCKED DN
SP1335	GY-Gray			CAB TILT LIMIT SW
SP1336	OE-Orange			KNEEL ON
SP1337	DKBE-Dark Blue			KNEEL OFF
SP1338	PE-Purple			KNEEL DEACTIVATION
SP1339	PK-Pink			KNEEL OFF SW PWR
SP1340	PK-Pink			FRONT BMPR WARN LT
SP1341	PK-Pink			SIDE BMPR WARN LT
SP1342	PK-Pink			SIREN ENABLE
SP1343	CPR-Copper			SPEAKER PWR 1
SP1344	CR-Clear			SPEAKER GND 1
SP1345	CPR-Copper			SPEAKER PWR 2
SP1346	CR-Clear			SPEAKER GND 2
SP1347	PK-Pink			CAB WARN LT
SP1348	PK-Pink			PTO RELAY

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1349	RD-Red			IR REMOTE POS
SP1350	BK-Black			IR REMOTE NEG
SP1351	GY-Gray			METZ SPARE 1
SP1352	YW-Yellow			RKR SW LT
SP1353	GY-Gray			ENG RPM SET SPD A
SP1354	GY-Gray			ENG RPM SET SPD B
SP1355	RD-Red	TWP-43		CAMERA POWER
SP1356	BK-Black	TWP-43		CAMERA RTN
SP1357	BE-Blue			CAM CTL BIT 0
SP1358	GN-Green			CAM CTL BIT 1
SP1359	OE-Orange			CAM CTL BIT 2
SP1360	YW-Yellow			CAM CTL BIT 3
SP1361	BN-Brown			CAM CTL BIT 4
SP1362	PE-Purple			CAM CTL BIT 5
SP1363	WE-White			CAM CTL SPARE
SP1364	BK-Black			CAM CTL RTN
SP1365	RD-Red	TWP-44		DEBRIS SHLD PWR
SP1366	BK-Black	TWP-44		DEBRIS SHLD GND
SP1367	BK-Black	RG-179 CABLE		CAM VID SIGNAL
SP1368	YW-Yellow	J1939-11 CABLE		ARV CAN BUS +
SP1369	DKGN-Dark Green	J1939-11 CABLE		ARV CAN BUS -
SP1370	-----	J1939-11 CABLE		ARV CAN BUS SHIELD
SP1371	RD-Red			TETHER PWR
SP1372	BK-Black			TETHER RTN
SP1373	YW-Yellow	TWP-45		TETHER DATA +
SP1374	DKGN-Dark Green	TWP-45		TETHER DATA -
SP1375	OE-Orange			SEAT BELT SW 11
SP1376	PE-Purple			SEAT OPTION SW 11
SP1377	OE-Orange			SEAT BELT SW 12
SP1378	PE-Purple			SEAT OPTION SW 12
SP1379	GY-Gray			GEN SIG NEG
SP1380	RD-Red			GEN SIG POS
SP1381	GY-Gray			TIRE CHAINS ENGAGED
SP1382	YW-Yellow	J1939-15 CABLE		J1939-15 POS
SP1383	DKGN-Dark Green	J1939-15 CABLE		J1939-15 NEG
SP1384	BE-Blue			FRONT AXLE ENGAGE
SP1385	YW-Yellow			FRONT AXLE ENGAGE LT
SP1386	GN-Green			INTER AXLE LOCK
SP1387	TN-Tan			INTER AXLE LOCK LT
SP1388	OE-Orange			ROAD MODE
SP1389	PE-Purple			ROAD MODE LT
SP1390	WE-White			PTO MODE
SP1391	BN-Brown			PTO MODE LT
SP1392	BE-Blue			COAX SHLD
SP1393	WE-White			COAX SIGNAL
SP1394	PE-Purple			RTRDR DISABLE FROM ABS

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1395	TN-Tan			THROTTLE POSITION
SP1396	PK-Pink			THROTTLE 12V
SP1397	GY-Gray			THROTTLE GND
SP1398	GN-Green			T-CASE TEMP SW
SP1399	BE-Blue			T-CASE LOW PRESS SW
SP1400	GN/YW- Green/Yellow			TURN SIGNAL
SP1401	BE-Blue			COOL HTR DIAG
SP1402	BK-Black			COOL HTR GND
SP1403	YW-Yellow			COOL HTR SWITCHED PWR
SP1404	RD-Red			COOL HTR PWR
SP1405	GY-Gray			REAR STEER FAULT
SP1406	GY-Gray			REAR STEER LOCK
SP1407	OE-Orange			REAR STEER PWR
SP1408	OE-Orange			REAR STEER RTN
SP1409	PK-Pink			UNLOAD COIL PWR
SP1410	GY-Gray			UNLOAD COIL RTN
SP1411	GN-Green			METZ PTO SW REQ
SP1412	DKGN-Dark Green			METZ PTO SW REQ SIG
SP1413	OE-Orange			SLF RECOVERY SW
SP1414	BK-Black			T-CASE GND
SP1415	PK-Pink			INT DIFF LOGIC
SP1416	OE-Orange			INT DIFF ENABLE
SP1417	BK-Black			COMP DRIVE
SP1418	RD-Red			REAR AIR
SP1419	PK-Pink			INT AXLE SEL LT
SP1420	GY-Gray			INT AXLE DIFF LT
SP1421	RD-Red			IGNITION SW
SP1422	BK-Black			LOW PRESSURE OUT
SP1423	OE-Orange			LOW PRESSURE IN
SP1424	PK-Pink	TWP-30		DATA LINK POS
SP1425	GY-Gray	TWP-30		DATA LINK NEG
SP1426	RD-Red			HYD COOL FAN PWR
SP1427	PK-Pink			HYD COOL FAN IGN
SP1428	CPR-Copper			SPEAKER PWR 3
SP1429	CR-Clear			SPEAKER GND3
SP1430	CPR-Copper			SPEAKER PWR 4
SP1431	CR-Clear			SPEAKER GND 4
SP1432	OE-Orange			RADIO BACKLIGHTING
SP1433	PK-Pink			SEAT HEAT 1
SP1434	PK-Pink			SEAT HEAT 2
SP1435	RD-Red			IGN ACC PWR
SP1436	PK-Pink			POS DISABLE INPUT
SP1437	GY-Gray			NEG DISABLE INPUT
SP1438	GN-Green			NIGHT LIGHT
SP1439	BK-Black			COMP DRIVE ENGAGED

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1440	OE-Orange			COMP TEMP SW
SP1441	GN-Green			COMP DRIVE DISENGAGED
SP1442	OE-Orange			COMP DRIVE ENGAGED
SP1443	RD-Red			LCD CONTROLLER
SP1444	RD-Red			EVAP CONTROL PWR
SP1445	WE-White			HIGH PRESS FEED BACK
SP1446	WE-White			LOW PRESS FEED/CLUTCH
SP1447	WE-White	TWP-47		OUTSIDE SENDOR POS
SP1448	BK-Black	TWP-47		OUTSIDE SENDOR NEG
SP1449	WE-White			CLUTCH OUTPUT SIG
SP1450	GN-Green	TWP-48		DATA LINK POS
SP1451	WE-White	TWP-48		DATA LINK NEG
SP1452	BE-Blue			A/C CLUTCH SIG
SP1453	RD-Red			EVAP FAN MOTOR PWR
SP1454	WE-White			LOW PRESS FEED/CLUTCH
SP1455	WE-White	TWP-49		LF SPEAKER POS
SP1456	WE/BK- WHITE/BLACK	TWP-49		LF SPEAKER NEG
SP1457	GY-Gray	TWP-50		RF SPEAKER POS
SP1458	GY/BK- GREY/BLACK	TWP-50		RF SPEAKER NEG
SP1459	GN-Green	TWP-51		LR SPEAKER POS
SP1460	GN/BK- GREEN/BLACK	TWP-51		LR SPEAKER NEG
SP1461	PE-Purple	TWP-52		RR SPEAKER POS
SP1462	PE/BK- PURPLE/BLACK	TWP-52		RR SPEAKER NEG
SP1463	PK-Pink			FRT WARN LT
SP1464	PK-Pink			SD WARN LT
SP1465	PK-Pink			FRT CLR WARN LT
SP1466	PK-Pink			SD CLR WARN LT
SP1467	GY-Gray			FUEL HT SW NEG
SP1468	BN-Brown	TWP-58		MID FWD BELT (-)
SP1469	BN-Brown	TWP-58		MID FWD BELT (+)
SP1470	BN-Brown	TWP-59		DRVR/OFCR RR FWD BELT (-)
SP1471	BN-Brown	TWP-59		DRVR/OFCR RR FWD BELT (+)
SP1472	DKBE-Dark Blue	TWP-60		DRVR/OFCR RWD CRTN (-)
SP1473	DKBE-Dark Blue	TWP-60		DRVR/OFCR RR FWD CTRN (+)
SP1474	BN-Brown	TWP-61		MID RR BELT (-)
SP1475	BN-Brown	TWP-61		MID RR BELT (+)
SP1476	BN-Brown	TWP-62		DRVR/OFCR RR BELT (-)
SP1477	BN-Brown	TWP-62		DRVR/OFCR RR BELT (+)
SP1478	DKBE-Dark Blue	TWP-63		DRVR/OFCR RR CTRN (-)
SP1479	DKBE-Dark Blue	TWP-63		DRVR/OFCR RR CRTN (+)
SP1480	DKGN-Dark Green	TWP-64		DRVR/OFCR FT BELT (-)
SP1481	DKGN-Dark Green	TWP-64		DRVR/OFCR FT BELT (+)
SP1482	DKBE-Dark Blue	TWP-65		DRVR/OFCR FT CTRN (-)

Spartan Motors Chassis, Inc. Circuit Numbers

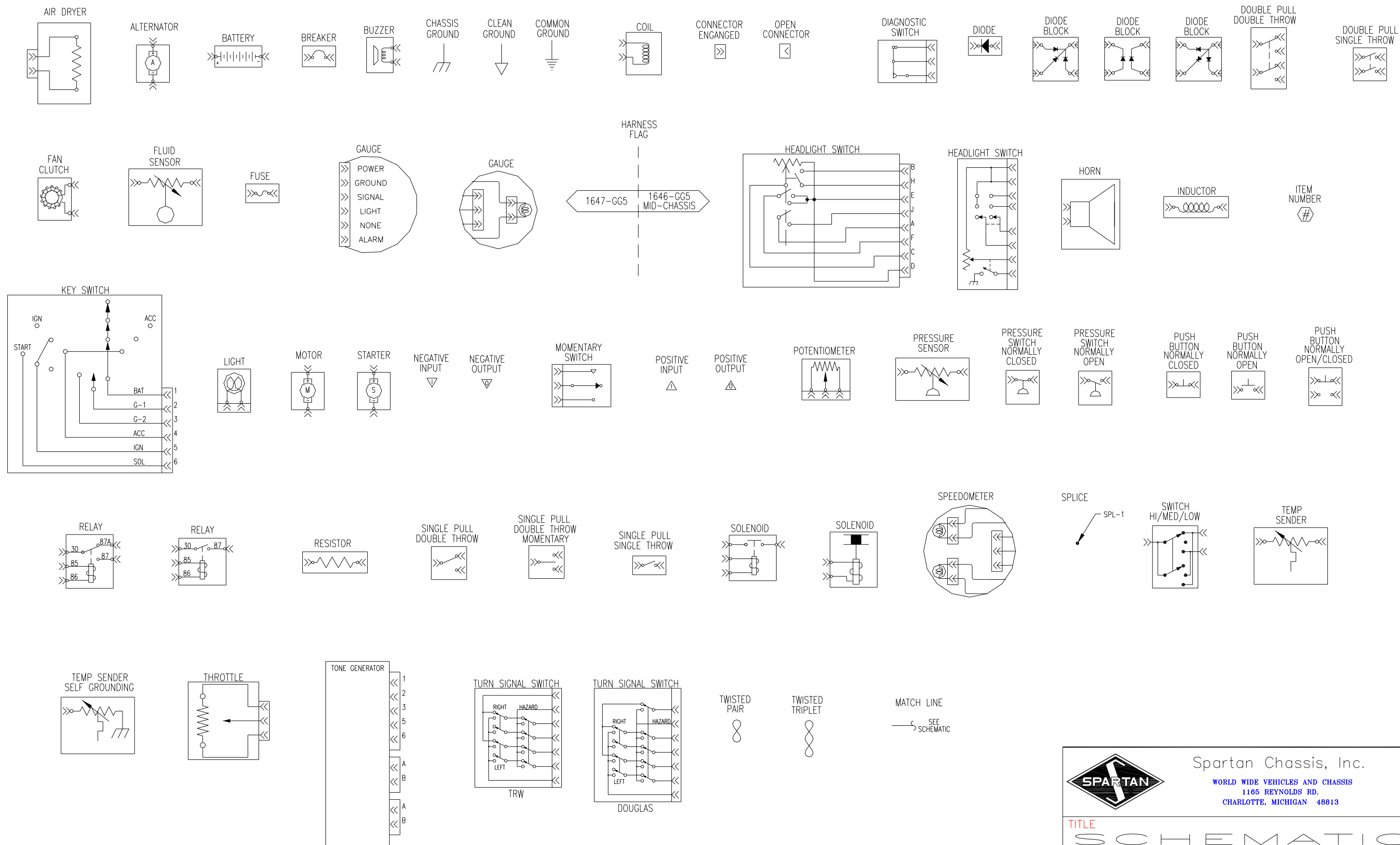
WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
SP1483	DKBE-Dark Blue	TWP-65		DRVR/OFCR FT CTRN (+)
SP1484	TN-Tan	TWP-54		SRS DRAIN WIRE
SP1485	BK-Black	TWP-56		SRS WARN LT GND
SP1486	RD-Red	TWP-55		SRS IGN PWR SUP IN
SP1487	BK-Black	TWP-55		SRS CLEAN GND IN
SP1488	RD-Red	TWP-56		SRS IGN PWR SUP OUT
SP1489	BK-Black			SRS CLEAN GND OUT
SP1490	BE-Blue	TWP-57		SRS COMM (+)
SP1491	YW-Yellow	TWP-57		SRS COM (-)
SP1492	BK-Black			LF DOOR SW GND
SP1493	BK-Black			LR DOOR SW GND
SP1494	BK-Black			LMID CAB COMPART SW GND
SP1495	BK-Black			LR CAB COMPART SW GND
SP1496	BK-Black			RF DOOR SW GND
SP1497	BK-Black			RR DOOR SW GND
SP1498	BK-Black			RMID CAB COMPART SW GND
SP1499	BK-Black			RR CAB COMPART SW GND
SP1500	BN-Brown			WINDOW UP
SP1501	WE-White			WINDOW DWN
WT101	BE-Blue			N SOL, LOW
WT102	OE-Orange			SOL SPLY A,D,J
WT103	GN-Green			C SOL LOW
WT104	WE-White			G SOL LOW
WT105	GN-Green			TRAN OVRTP NEG
WT106	PK-Pink			TRANS TO ECU
WT107	GN-Green			SOL SUPPLY F
WT110	WE-White			F SOL, LOW
WT111	GN-Green			J SOL, LOW
WT112	TN-Tan			ENG OVRSPD RLY
WT113	WE-White			REV IND RLY
WT114	WE-White			RNG IND RLY
WT115	GN-Green			CHK TRANS LMP
WT116	YW-Yellow			RTRDR SOL SPLY
WT117	WE-White			GEN PUR IN 8
WT118	WE-White			AUTO NEUTRAL
WT119	YW-Yellow			EXH BRK INPUT
WT120	WE-White			A SOL, LOW
WT121	TN-Tan			SOL SPLY B,E
WT123	TN-Tan			NEU SFTY POS
WT124	PK-Pink			ECM TO SHFTR
WT125	WE-White			GEN PUR OUT 4
WT126	YW-Yellow			GEN PUR IN 9
WT127	WE-White			H SOL, LOW
WT128	OE-Orange			B SOL, LOW
WT129	TN-Tan			E SOL, LOW
WT130	YW-Yellow			SOL SPLY C, G

Spartan Motors Chassis, Inc. Circuit Numbers

WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
WT131	BE-Blue			D SOL, LOW
WT132	OE-Orange			EXH BRK RLY
WT135	GN-Green			ANALOG GND
WT136	PK-Pink			ECU POWER
WT137	OE-Orange			SERV BRK STAT
WT138	OE-Orange			RTRDR TMP SENS
WT139	YW-Yellow	TWP-11		OTPT SPD SENS
WT140	BE-Blue	TWP-12		TURB SPD LO
WT141	TN-Tan	TWP-13		ENG SPD SEN,HI
WT142	WE-White			SERIAL COM POS
WT143	GY-Gray			ECU GROUND
WT144	GY-Gray			CHASSIS GND
WT146	YW-Yellow			IGN SW
WT147	TN-Tan			SMP TMP SEN IN
WT148	GN-Green	TWP-11		OTPT SPD SENS
WT149	OE-Orange	TWP-12		TURB SPD HI
WT150	OE-Orange	TWP-13		ENG SPD SEN LO
WT151	BE-Blue			J1587 POS
WT153	YW-Yellow			AUTO NEUT INPUT
WT154	WE-White			ABS INPUT NEG
WT155	GN-Green			NEU RNG INH SW
WT156	BE-Blue			THRTL POS SENS
WT157	TN-Tan			SPEEDO SIG POS
WT158	GY-Gray			LIGHT SWITCH
WT159	TN-Tan			COMMUNICATION
WT160	PK-Pink			REMT SHFTR POS
WT161	YW-Yellow			SIG GND
WT162	WE-White			C-3 PRES SW IN
WT163	BE-Blue			RTRDR SW
WT164	YW-Yellow			RTRDR MOD REQ
WT165	BE-Blue			OIL LVL SENS
WT166	TN-Tan			GEN PUR OUT 7
WT167	WE-White			GEN PUR OUT 8
WT168	GY-Gray			REMT SHFTR NEG
WT169	BE-Blue			ENGINE BRAKE
WT170	OE-Orange			SHFT SEL BIT 1
WT171	GN-Green			SHFT SEL BIT 2
WT172	BE-Blue			SHFT SEL BIT 4
WT173	YW-Yellow			SHFT SEL BIT 8
WT174	TN-Tan			SHFT SEL PAR
WT175	GN-Green			SHF SEL MD IN
WT176	OE-Orange			GENERL OUT NEG
WT177	TN-Tan			GEN PUR OUT 10
WT178	OE-Orange			GEN PUR IN 11
WT179	BE-Blue			ENG H2O TEMP
WT180	BE-Blue			SHIFT SEL DISP

Spartan Motors Chassis, Inc. Circuit Numbers

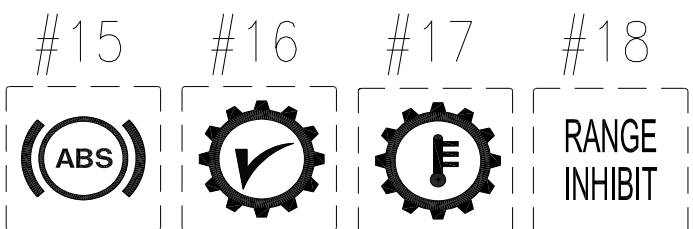
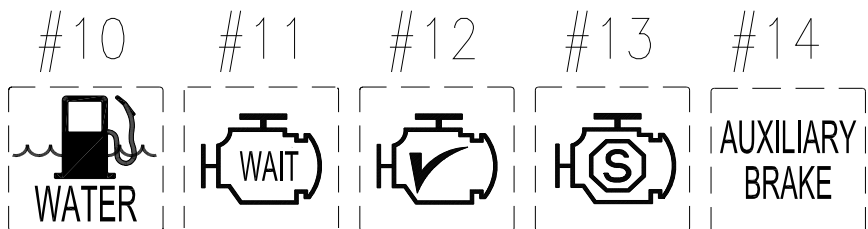
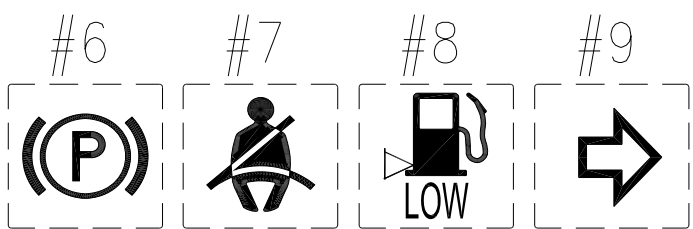
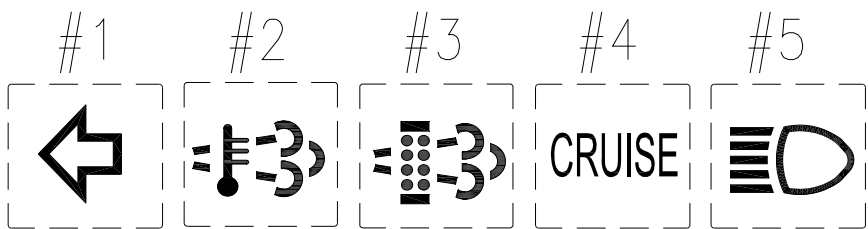
WIRE PART				PART DESCRIPTION
CIRCUIT NUMBERS	COLOR	SPECIAL NOTES	TRANS	CIRCUIT DEFINITION PRIMARY
WT186	WE-White			DIMMER A
WT187	YW-Yellow			DIMMER B
WT188	GY-Gray			DIMMER GND
WT190	OE-Orange			SEC SHFT BIT 1
WT191	GN-Green			SEC SHFT BIT 2
WT192	BE-Blue			SEC SHFT BIT 4
WT193	YW-Yellow			SEC SHFT BIT 8
WT194	TN-Tan			SEC SHFT PAR
WT195	YW-Yellow			TRANS ID



Spartan Chassis, Inc.
 WORLD WIDE VEHICLES AND CHASSIS
 1165 REYNOLDS RD.
 CHARLOTTE, MICHIGAN 48813

TITLE
 SCHEMATIC
 SYMBOLS

SPARTAN
INDICATOR LAMP IDENTIFICATION AND DESCRIPTIONS



WIRE GAUGE
EQUIVALENCE

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

ID #	LAMP ID	DESCRIPTION
1	LEFT TURN	LEFT TURN SIGNAL ON
2	HEST LAMP	ACTIVE REGENERATION HAS BEEN INITIATED AND EXHAUST SYSTEM TEMPERATURES WILL BE ELEVATED ABOVE NORMAL LEVELS FOR THE VEHICLE OPERATING CONDITIONS
3	DPF LAMP	FILTER HAS NOT BEEN ABLE TO REGENERATE AND IS IN NEED OF ASSISTANCE IN ORDER TO PERFORM AN ACTIVE REGENERATION
4	CRUISE	CRUISE ENABLED
5	HIGH BEAM	HIGH BEAM ON
6	PARK BRAKE/PARK BRAKE SET	PARKING BRAKES APPLIED. WIRE # SP068
7	SEAT BELT	SEAT BELT REMINDER
8	LOW FUEL	ON=LESS THAN 1/8 TANK OFF=MORE THAN 1/4 TANK
9	RIGHT TURN	RIGHT TURN SIGNAL ON
10	WATER IN FUEL	WATER IN FUEL DRAIN FUEL BOWL.
11	WAIT TO START	ENGINE PREHEAT WIRE #EN037
12	CHECK ENGINE	ENGINE FAULT ENGINE WILL OPERATE, MAY DERATE POWER.
13	ENGINE STOP	ENGINE FAULT ENGINE WILL SHUTDOWN, SERVICE IMMEDIATELY.
14	AUXILIARY BRAKE	AUX. BRAKE ACTIVE INDICATES ENGINE BRAKE OR RETARDER IS ACTIVE. MAY NOT BE USED ON ALL APPLICATIONS.
15	ABS	ABS FAULT ABS MAY BE INOP., SERVICE ASAP.
16	CHECK TRANS	TRANS FAULT SHIFTING LIMITED OR RESTRICTED, SERVICE IMMEDIATELY.
17	HIGH TRANS. TEMP.	TRANS. FLUID TEMP. TEMPERATURE HAS EXCEEDED THE SPECIFIED VALUE.
18	RANGE INHIBIT	INHIBIT SHIFTS FROM NEUTRAL

PAGE 1 OF 1

REV.	INITIAL RELEASE	REVISIONS
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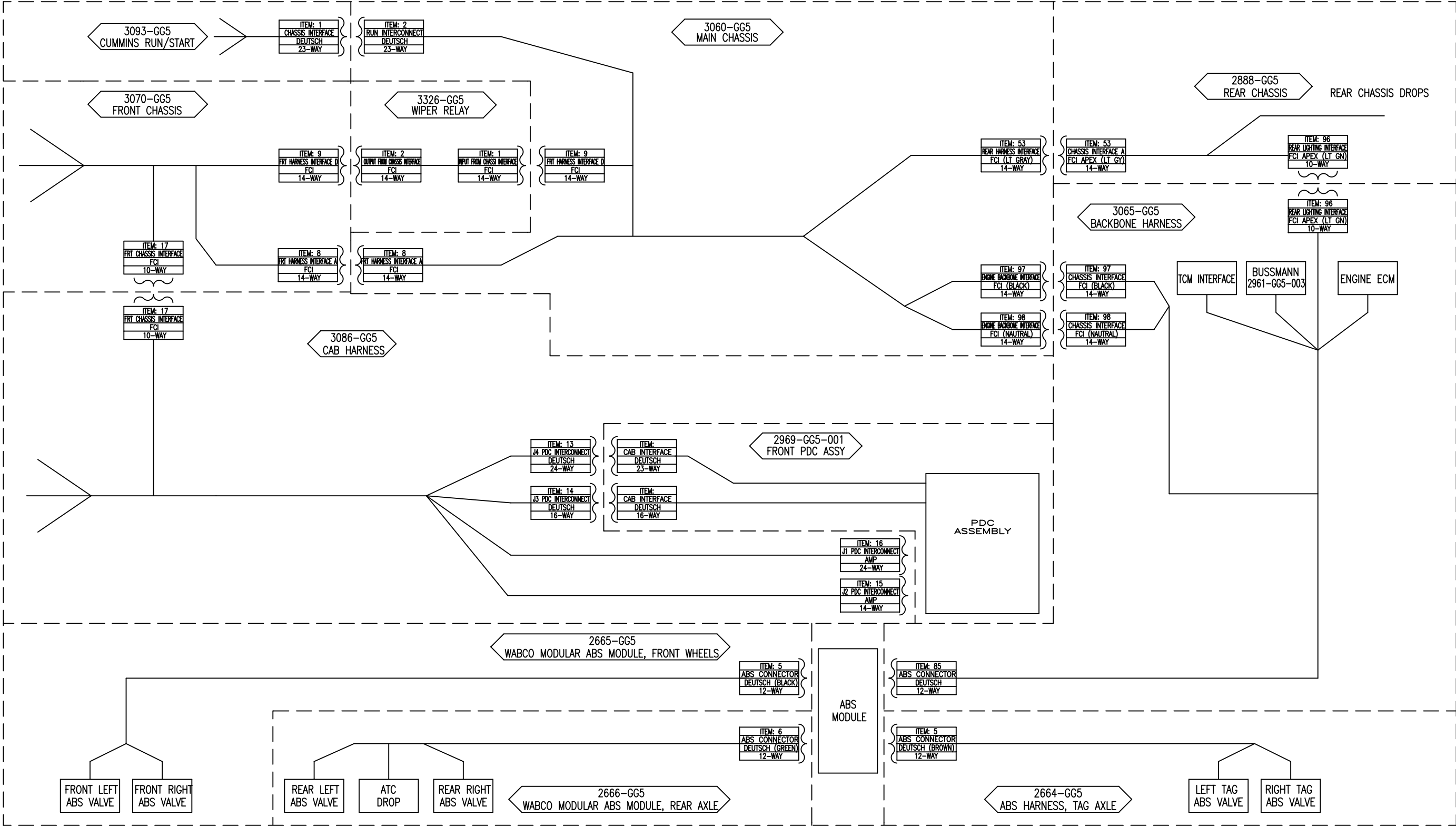
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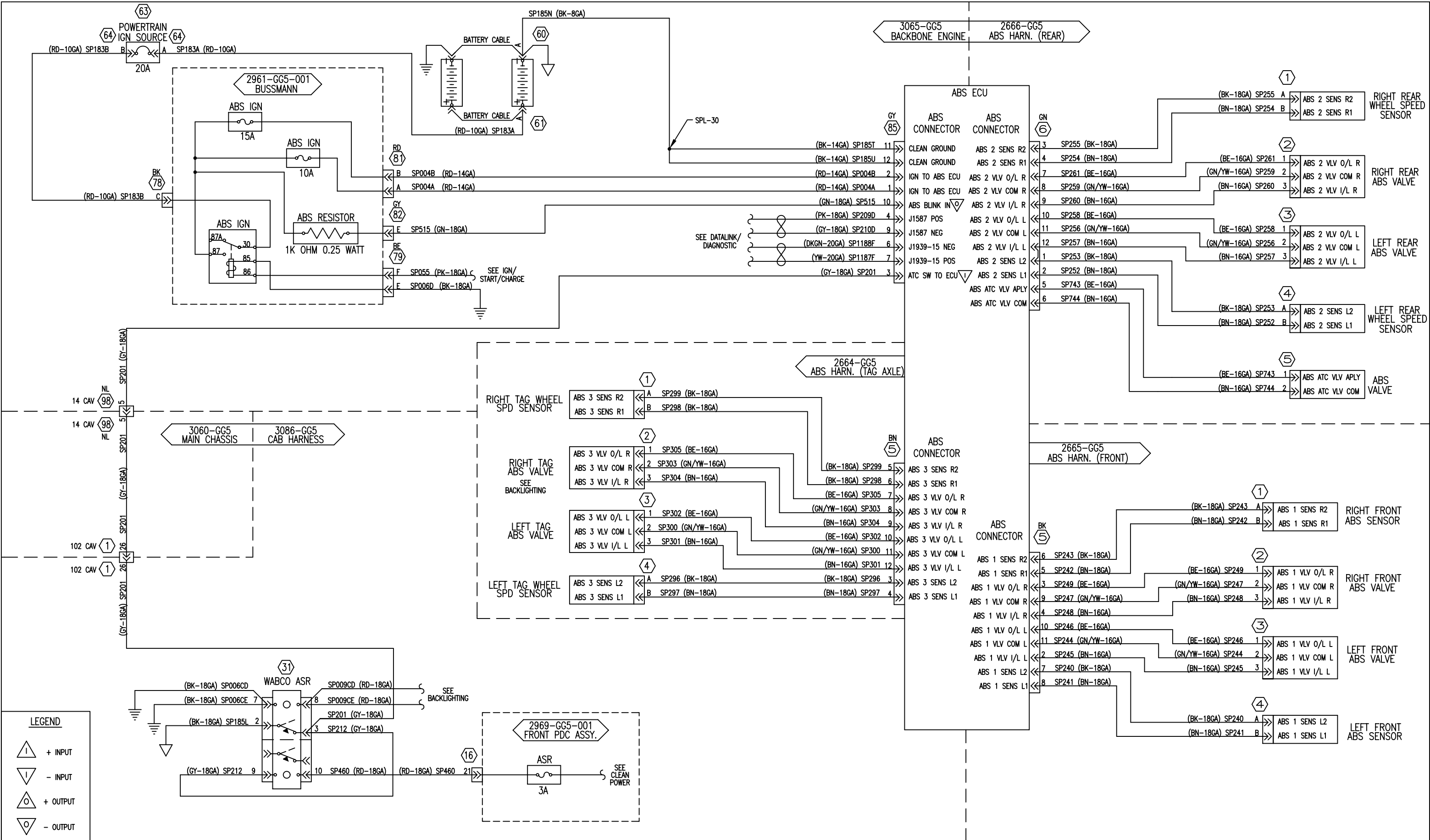
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CHECKED BY	DATE

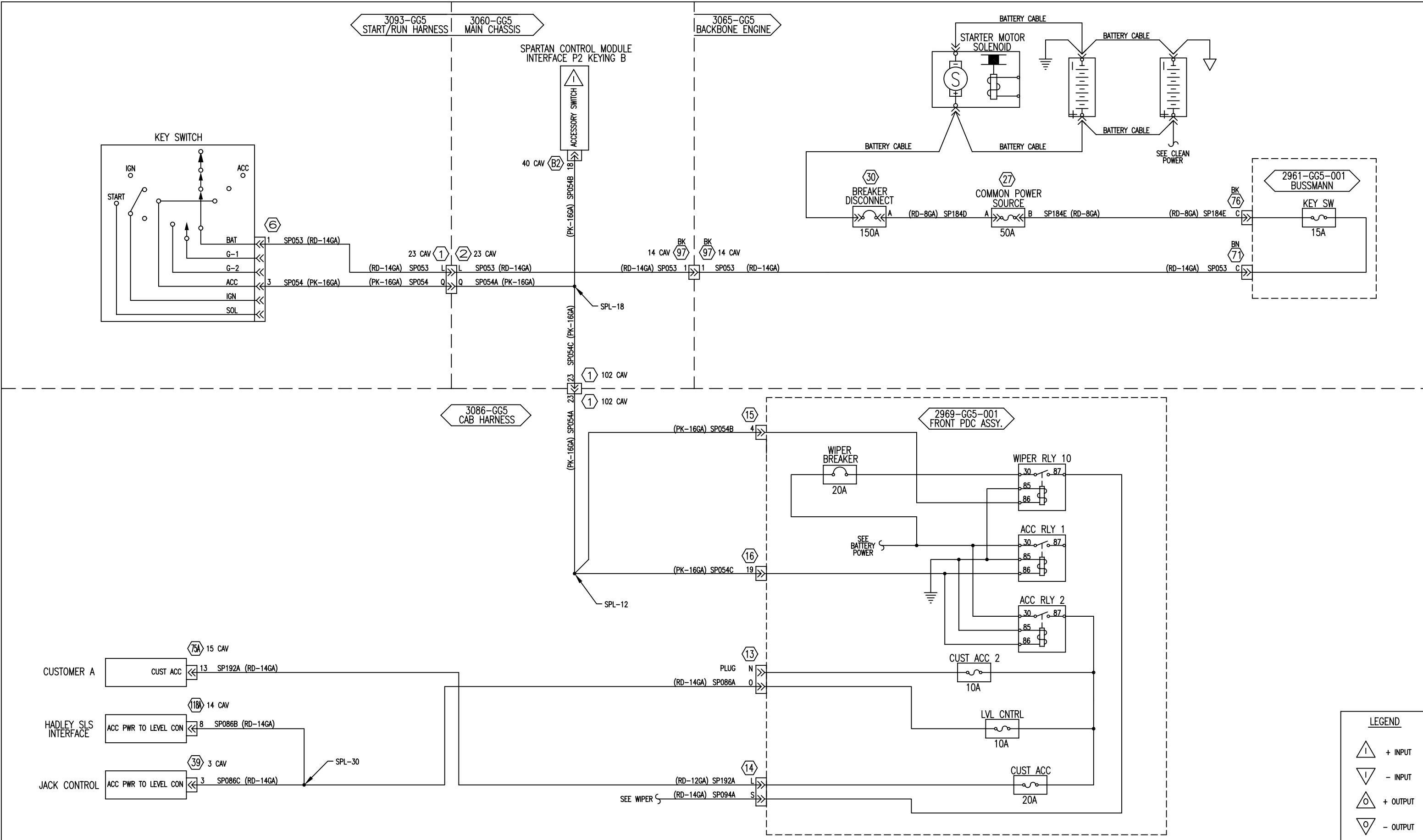
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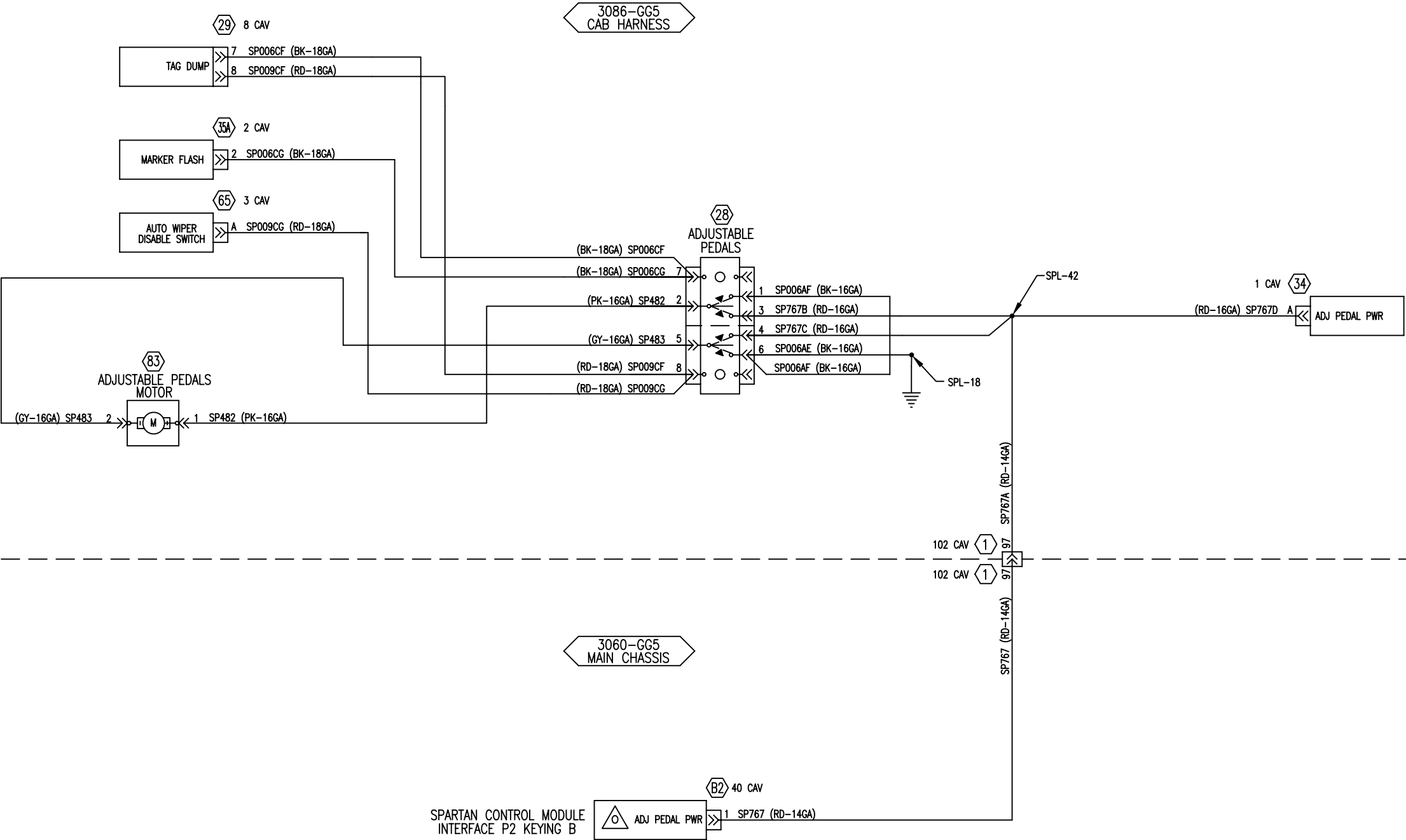
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2009-10 ENTEGRA COACH K2 MODULAR LAYOUT









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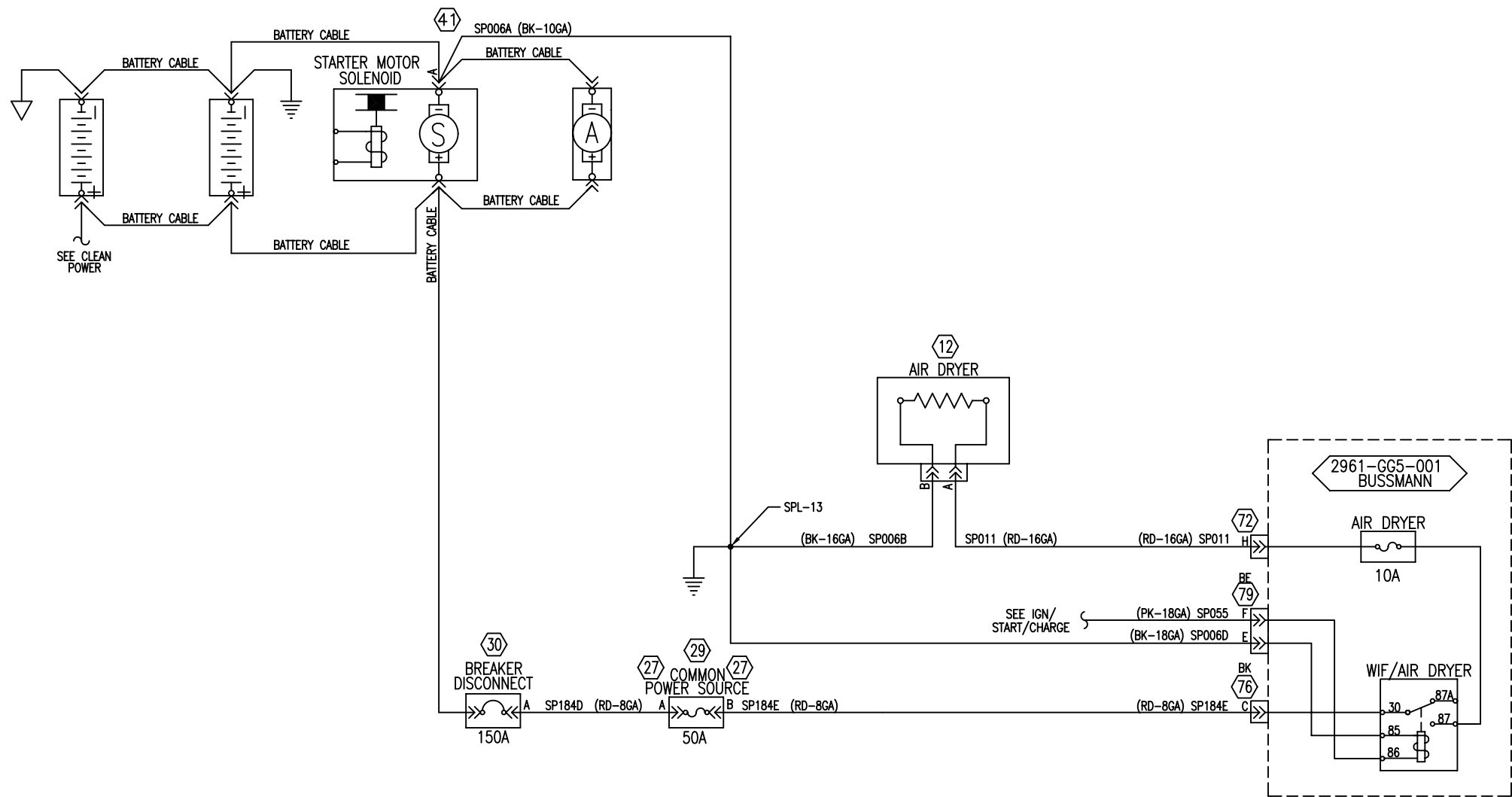
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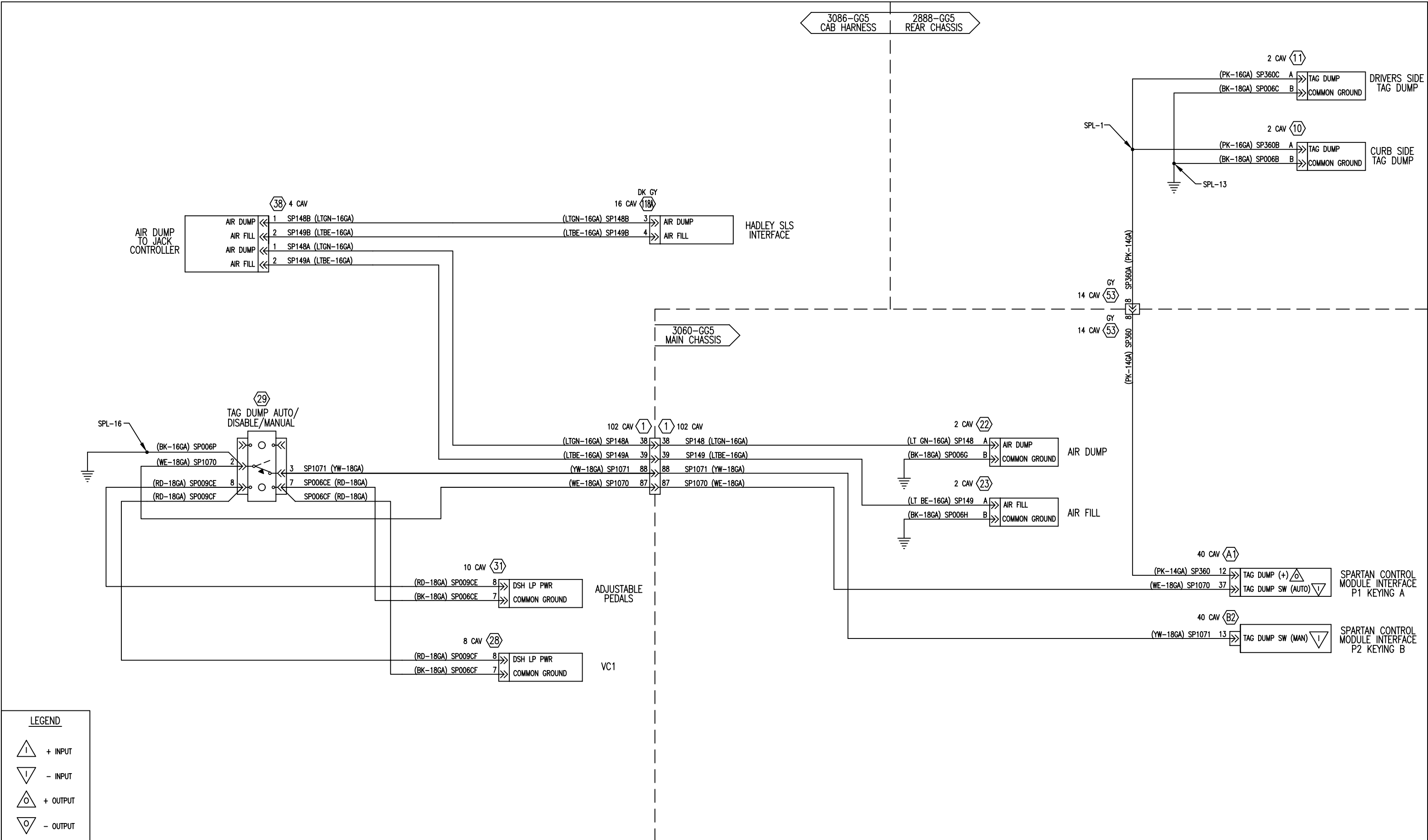
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PAGE 1 OF 1							ENGINEER	DRAWN BY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE. <td rowspan="4"> SPARTAN </td> <td colspan="2">TITLE</td> <td colspan="2">ADJUSTABLE PEDALS</td>	SPARTAN	TITLE		ADJUSTABLE PEDALS		
	B. CASE						K. WHITNEY								
	CHECKED BY						DATE				CAGE CODE				
							07/27/10				36MV0				
REV.	REVISIONS						E.C.R.	DATE	BY	CHECKED BY	APPROVED BY	DWG. NUMBER	0234-GG9-006		A
SHEET FORMAT REV: B DATE: 05/19/2010															

3065-GG5
BACKBONE ENGINE



PAGE 1 OF 1	INITIAL RELEASE REVISIONS	E.C.R. DATE	BY CHECKED BY	APPROVED BY	ENGINEER B. CASE	DRAWN BY K. WHITNEY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	AIR DRYER 0234-GG9-008
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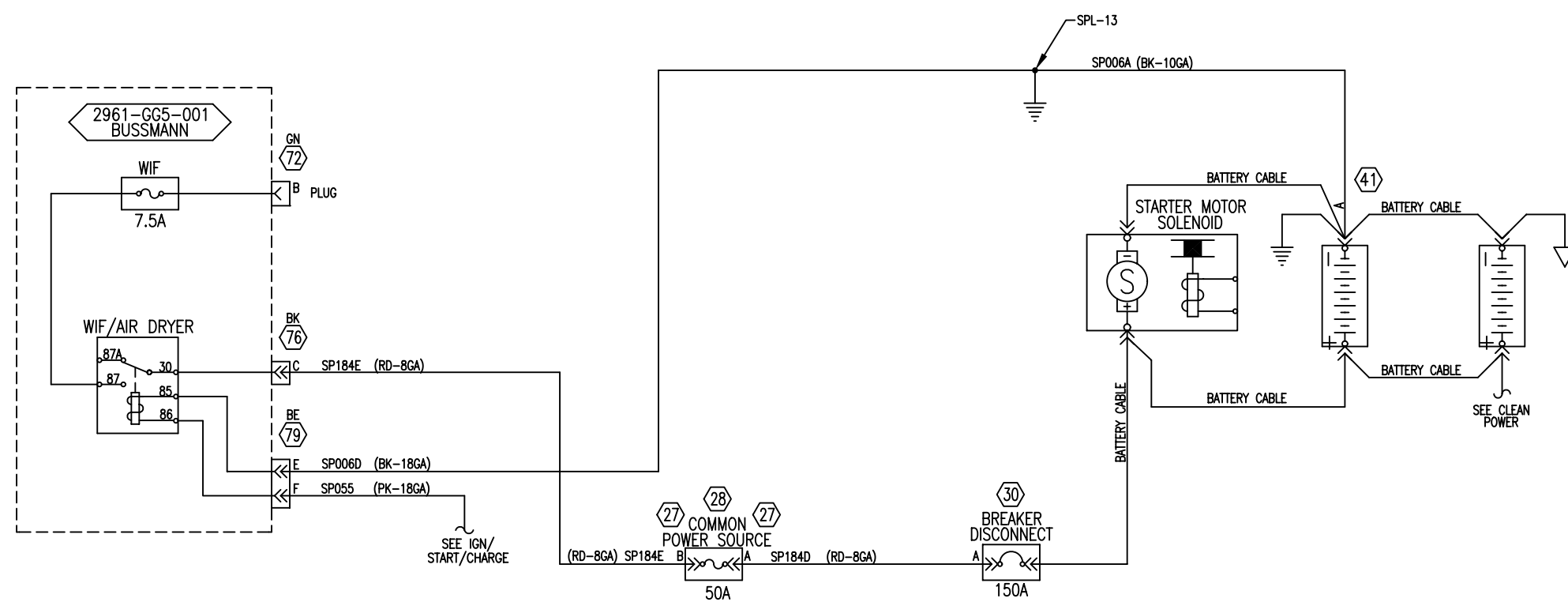
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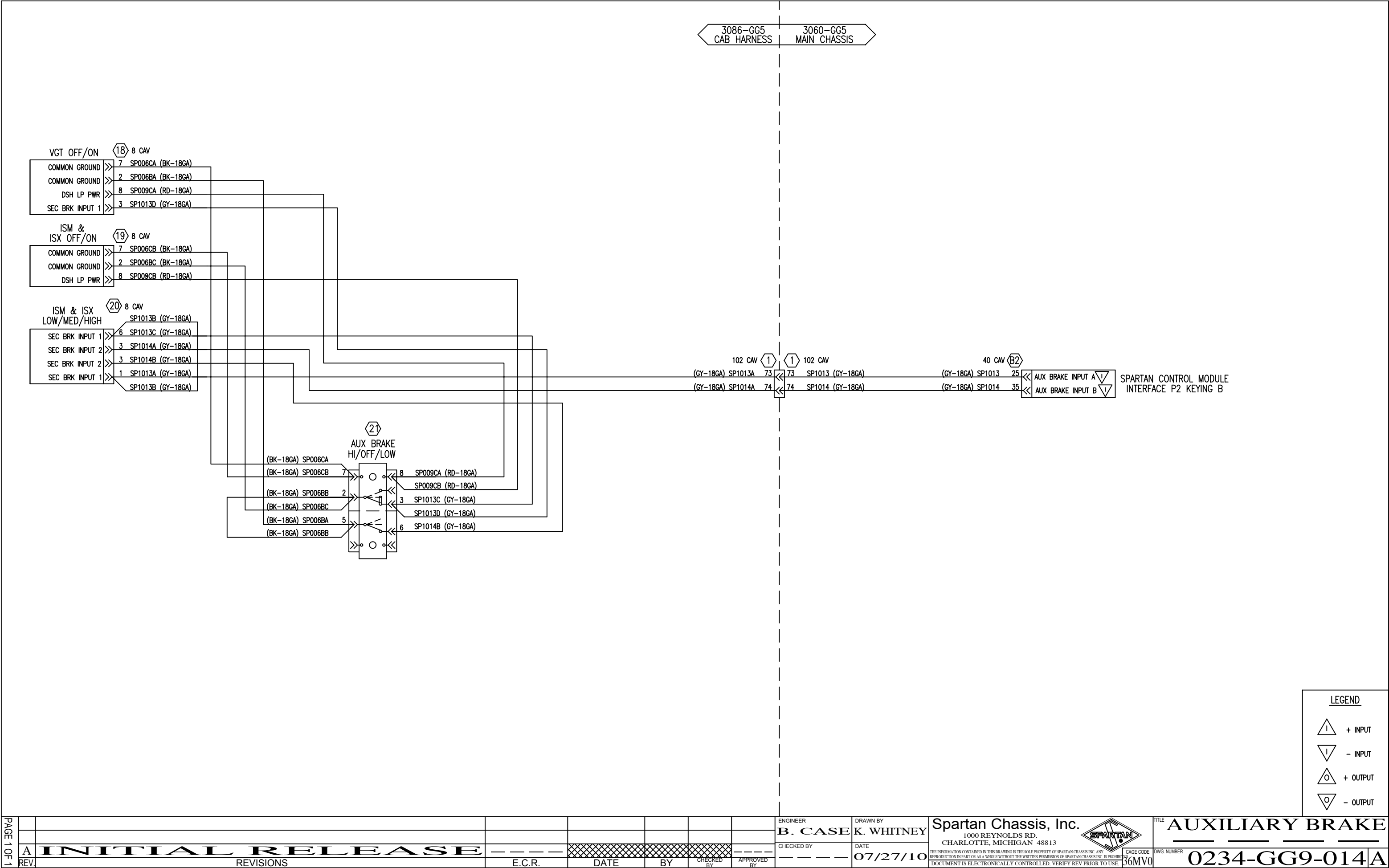
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REV.	A	INITIAL RELEASE	---	---	---	---	---	---	---	CHECKED BY	DATE 07/27/10	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.	
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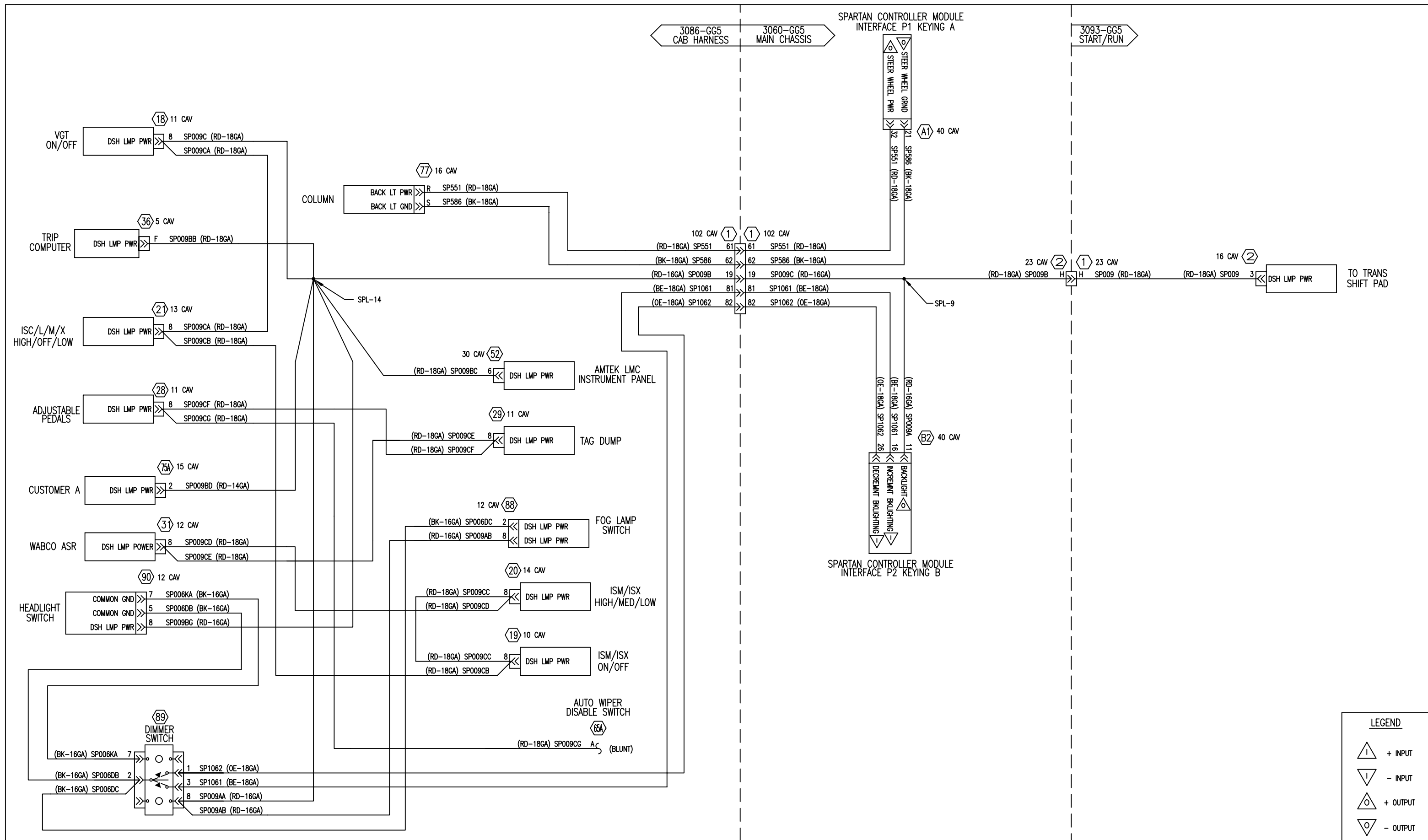
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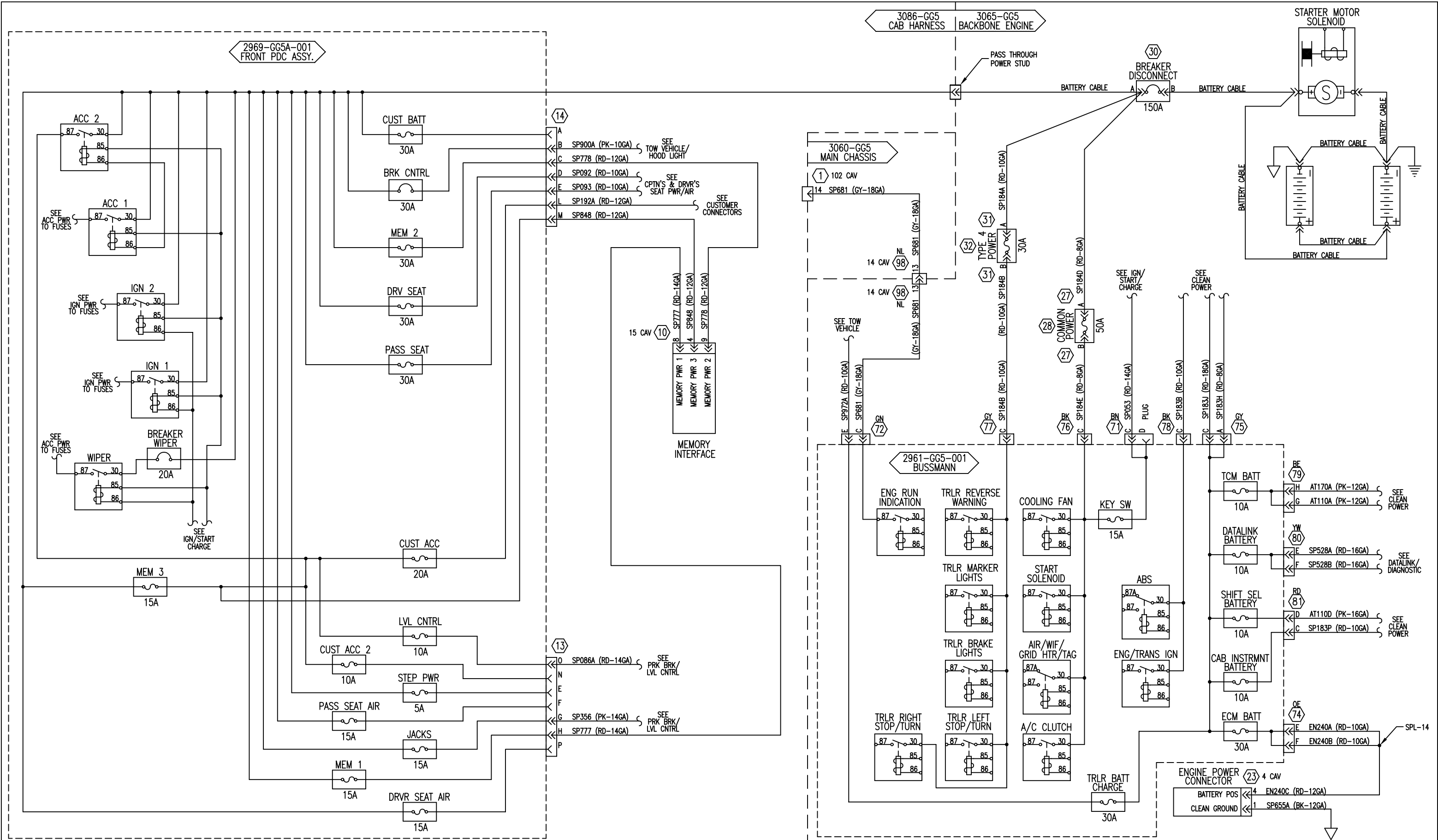
DATE: 05/19/2010

3065-GG5
BACKBONE ENGINE

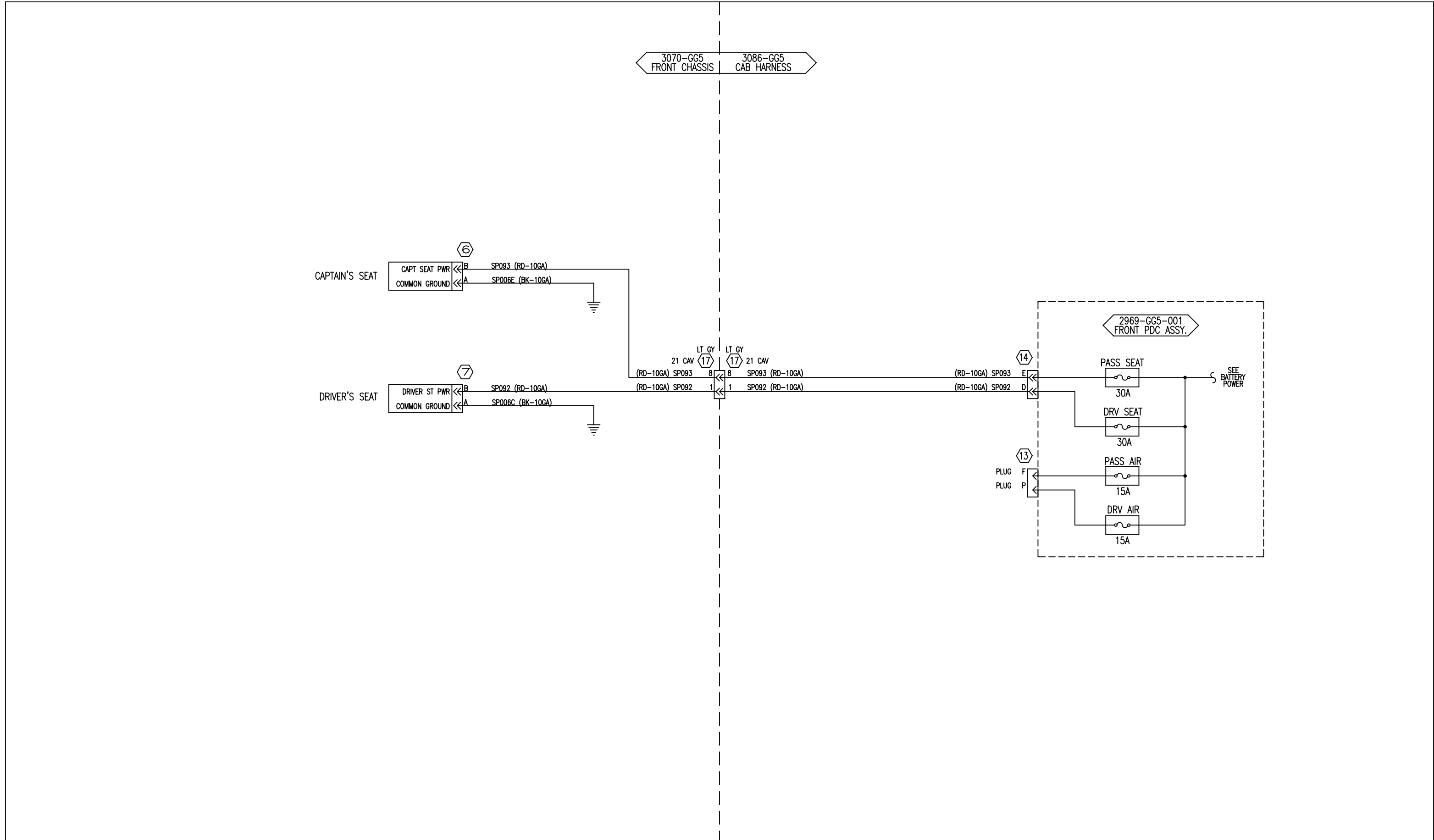




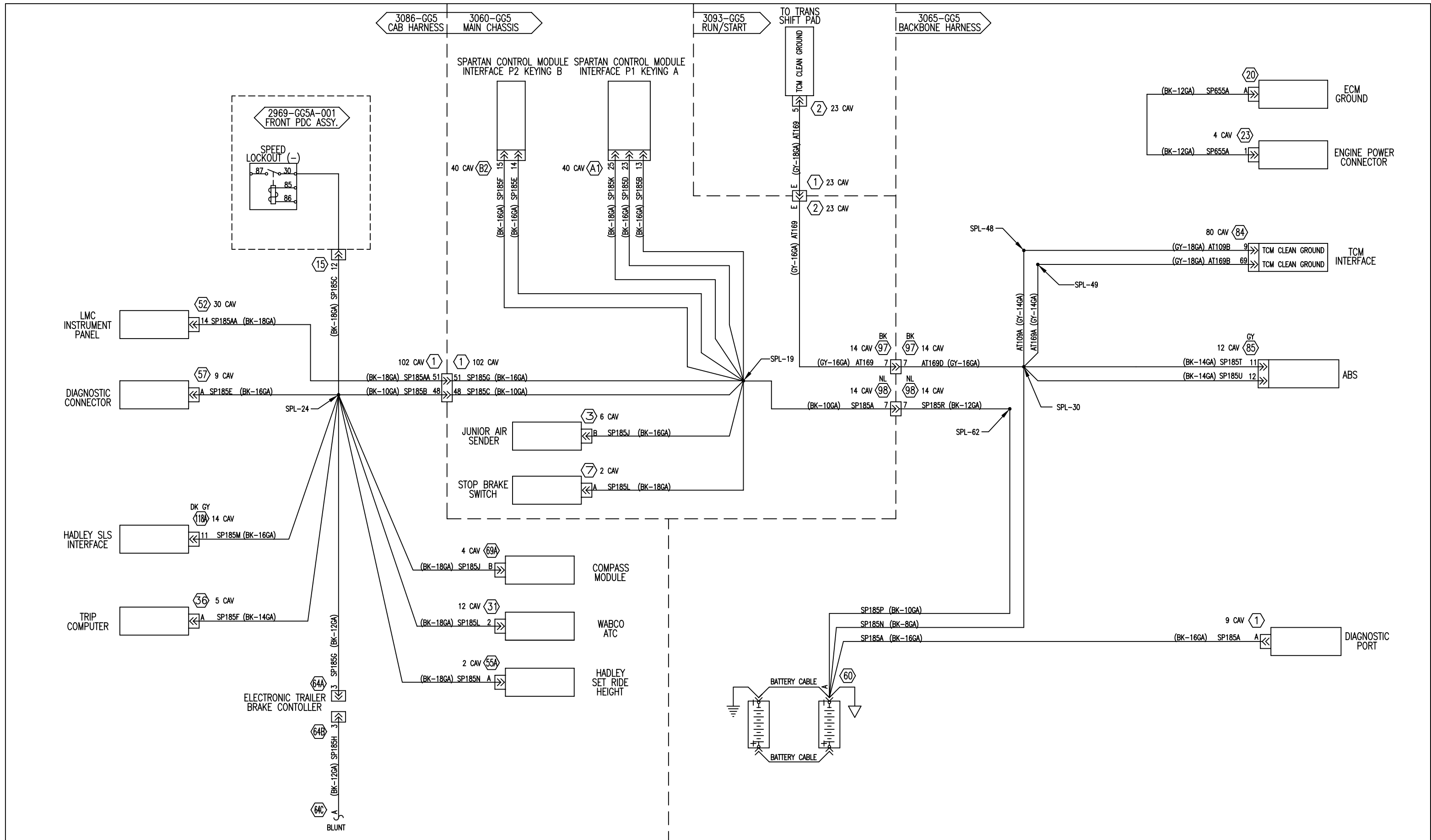




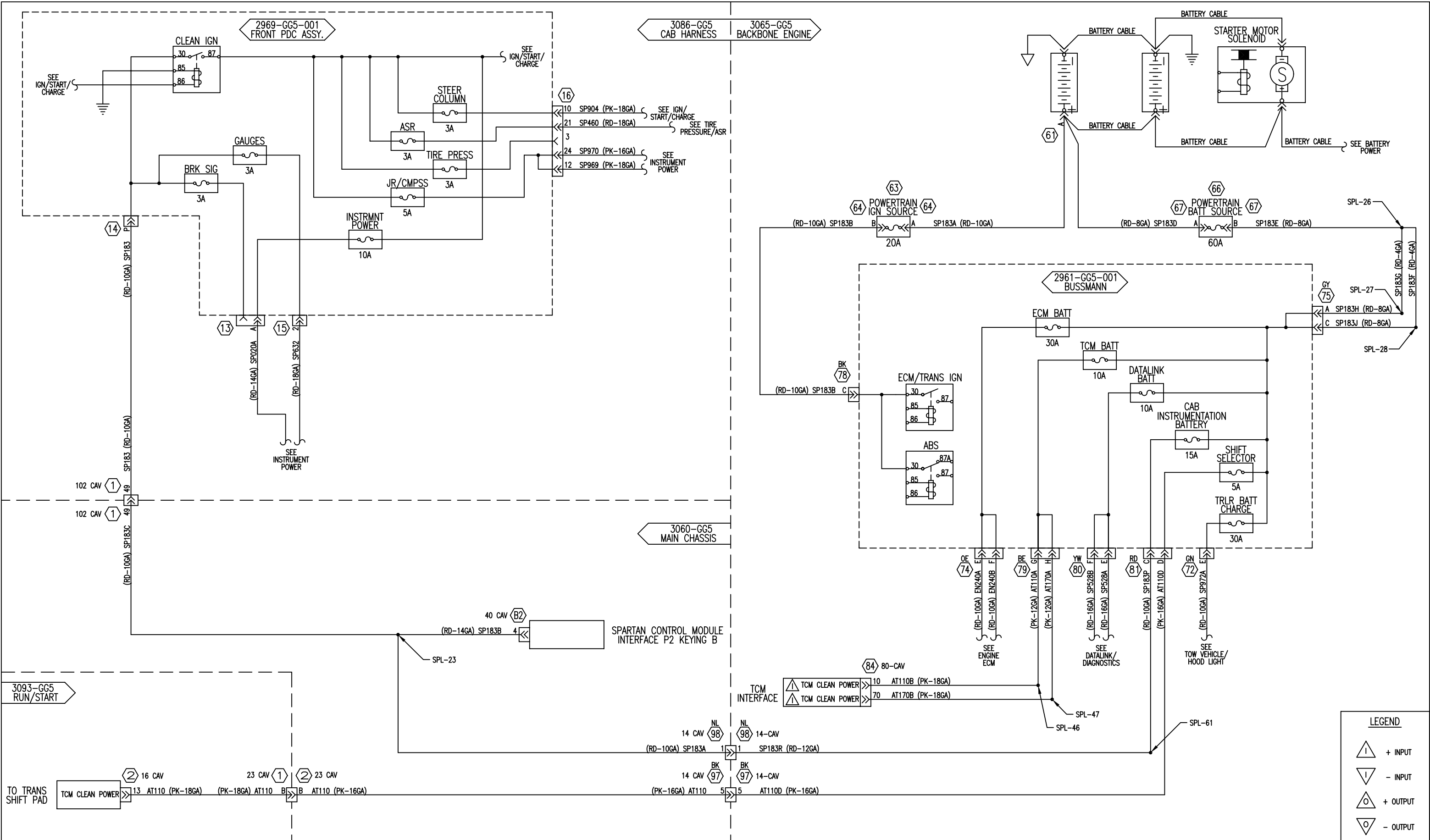
PAGE 1 OF 1					ENGINEER B. CASE	DRAWN BY K. WHITNEY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813		TITLE BATTERY POWER	
A INITIAL RELEASE					CHECKED BY	DATE 07/27/10	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED.		CAGE CODE 36MV0	
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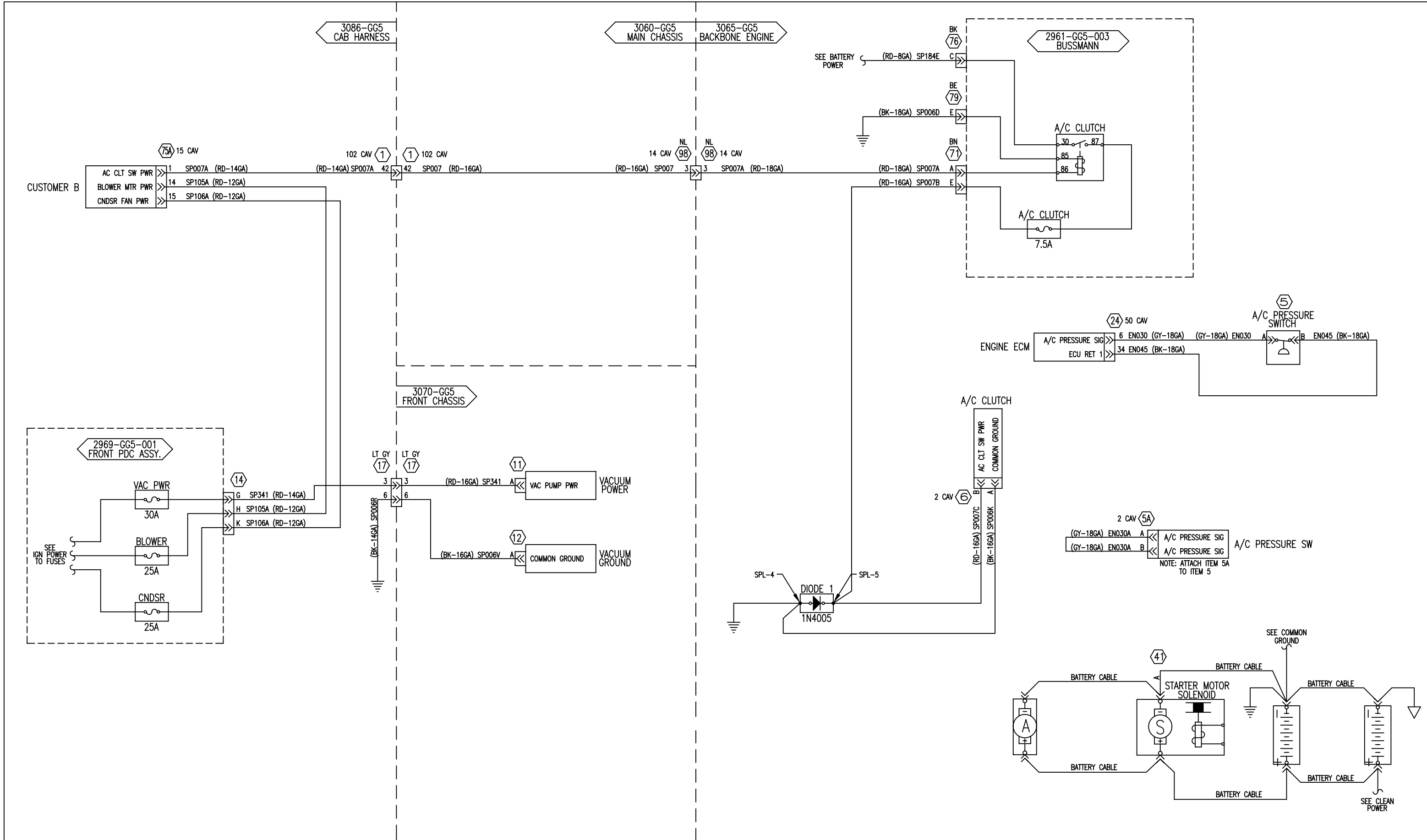


PAGE 1 OF 1							ENGINEER	DRAWN BY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED.	CAGE CODE 36MV0	DWG. NUMBER 0234-GG9-020	TITLE CAPTAIN'S AND DRIVER'S SEAT POWER/ AIR
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							CHECKED BY	DATE				
							---	07/27/10				
REV.	REVISIONS						E.C.R.	DATE	BY	CHECKED BY	APPROVED BY	A
A	INITIAL RELEASE						---					

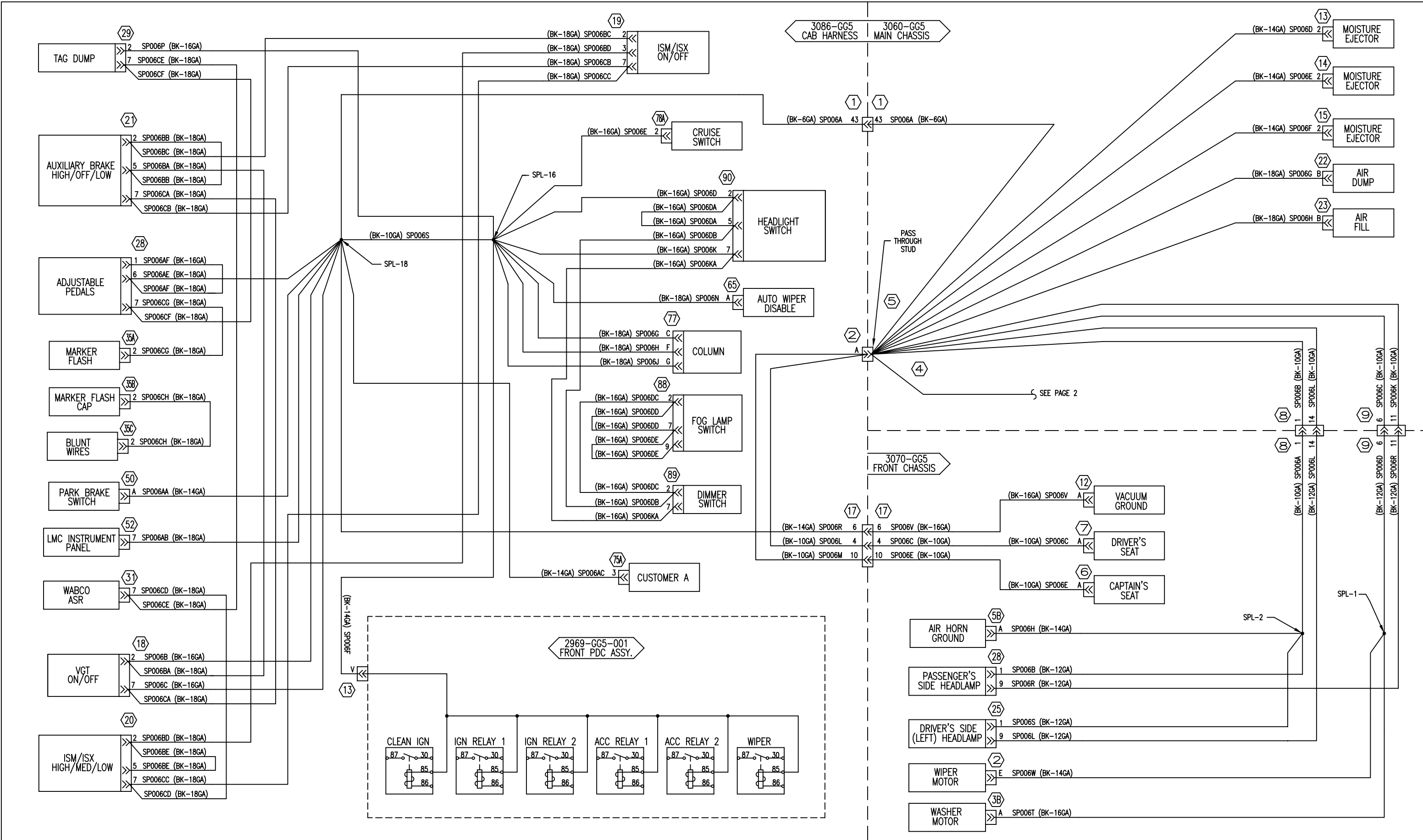


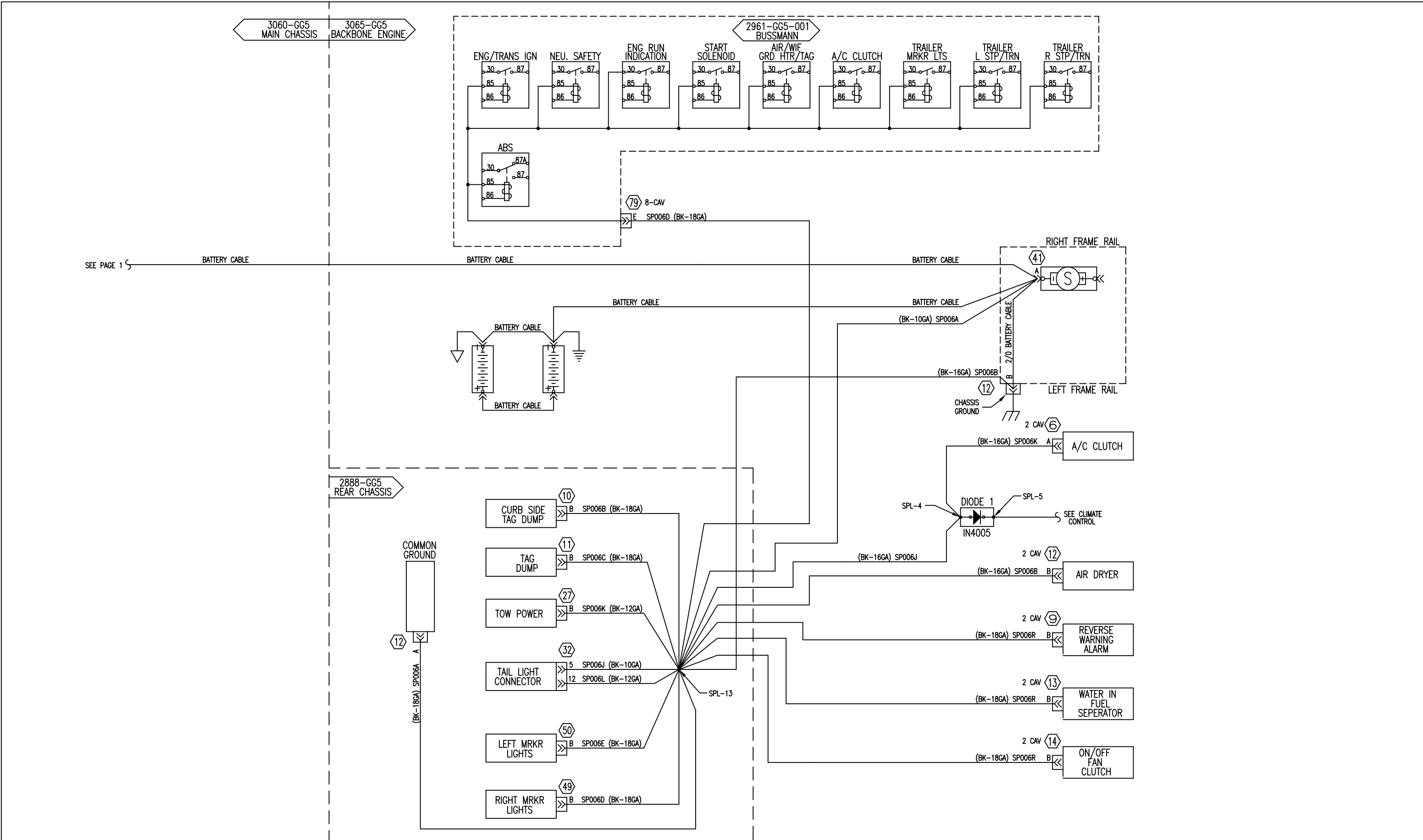
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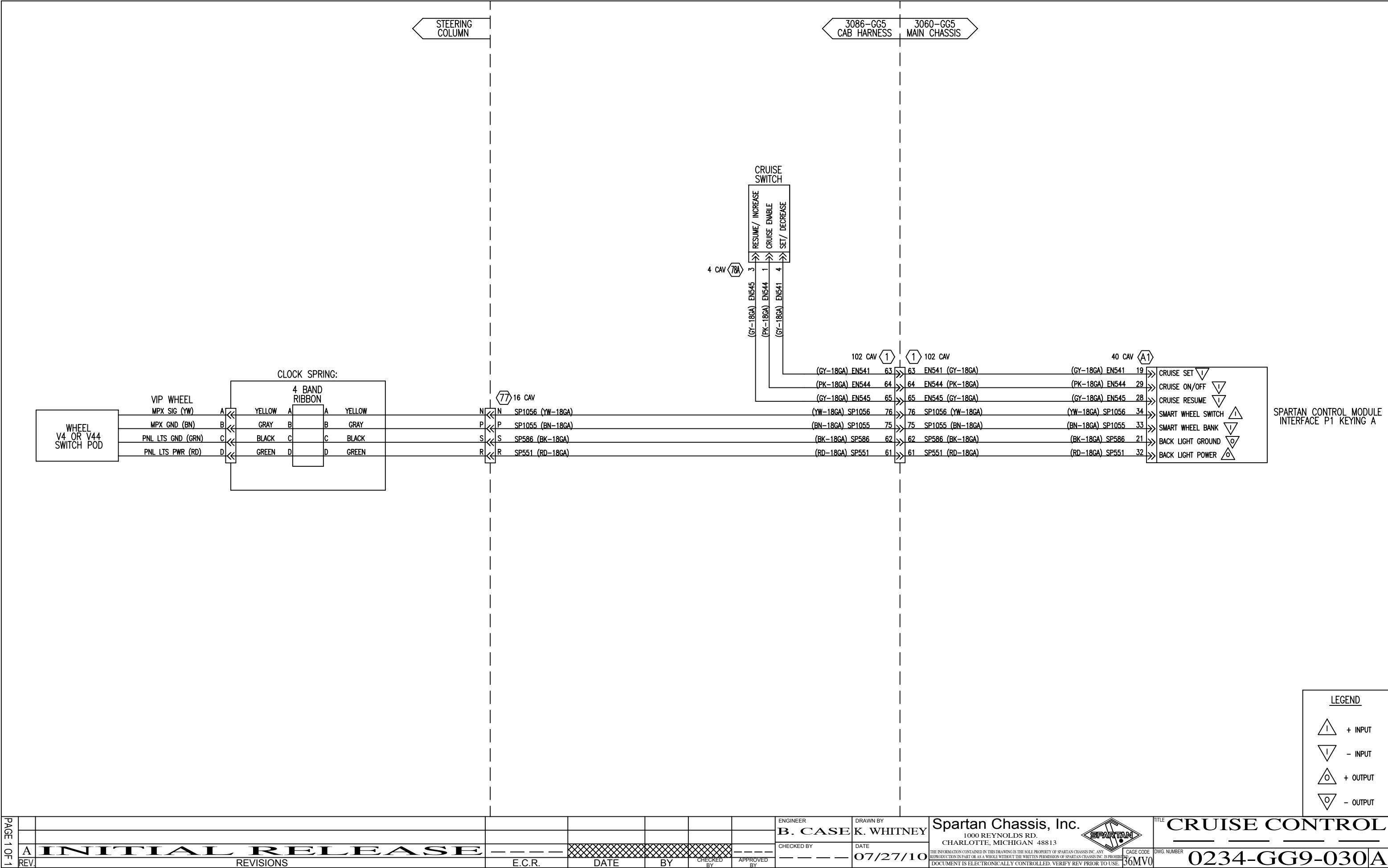




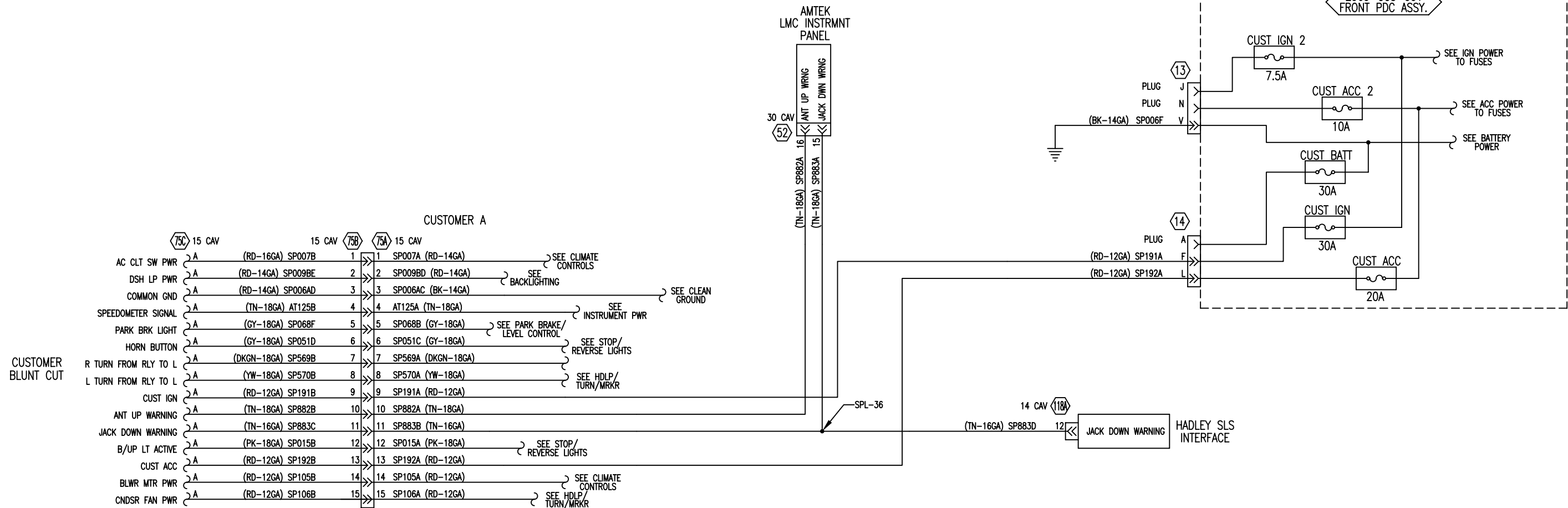
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	REVISIONS					E.C.R.		DATE	BY	CHECKED BY	APPROVED BY	CHECKED BY	DATE	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED.		CAGE CODE 36MV0	
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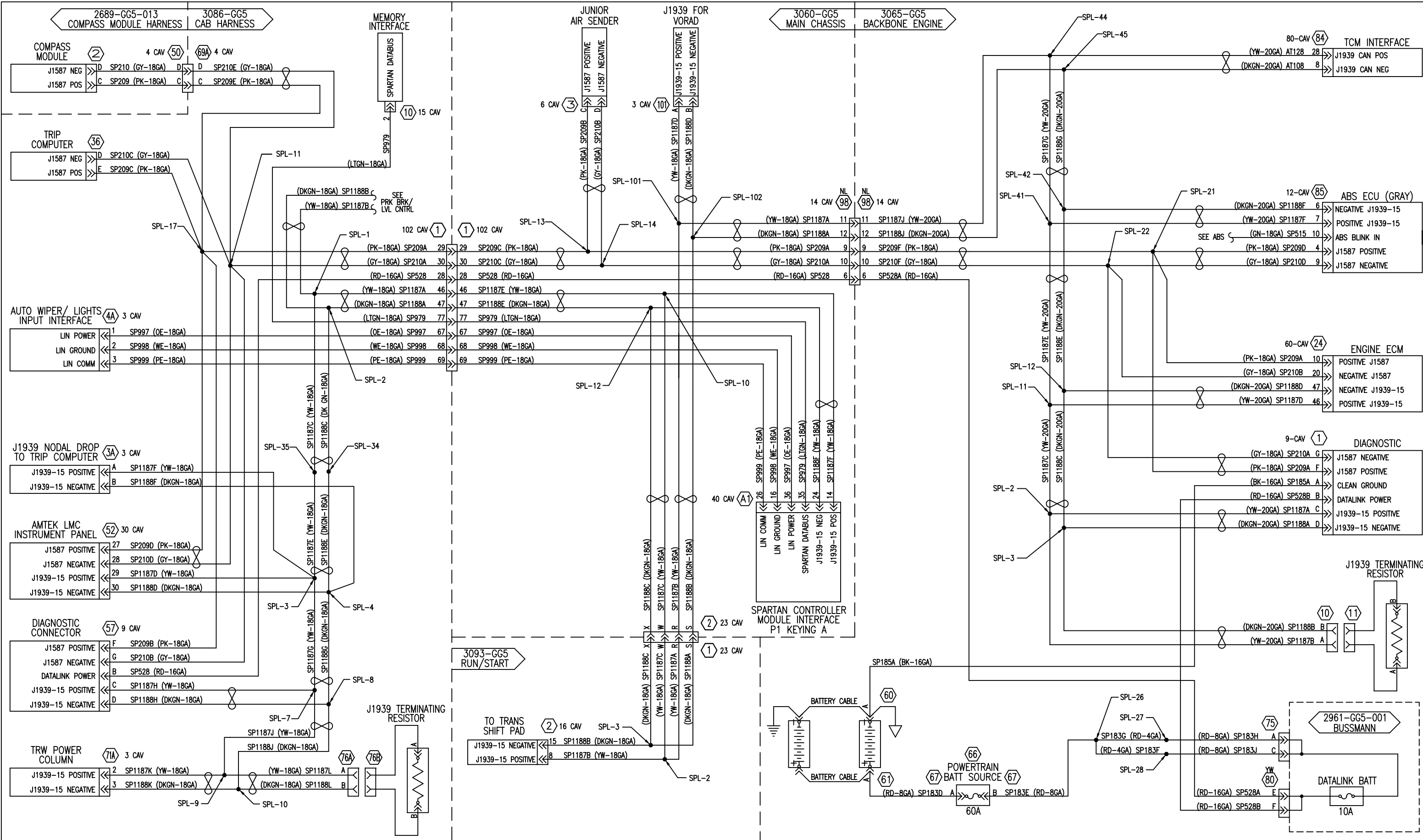


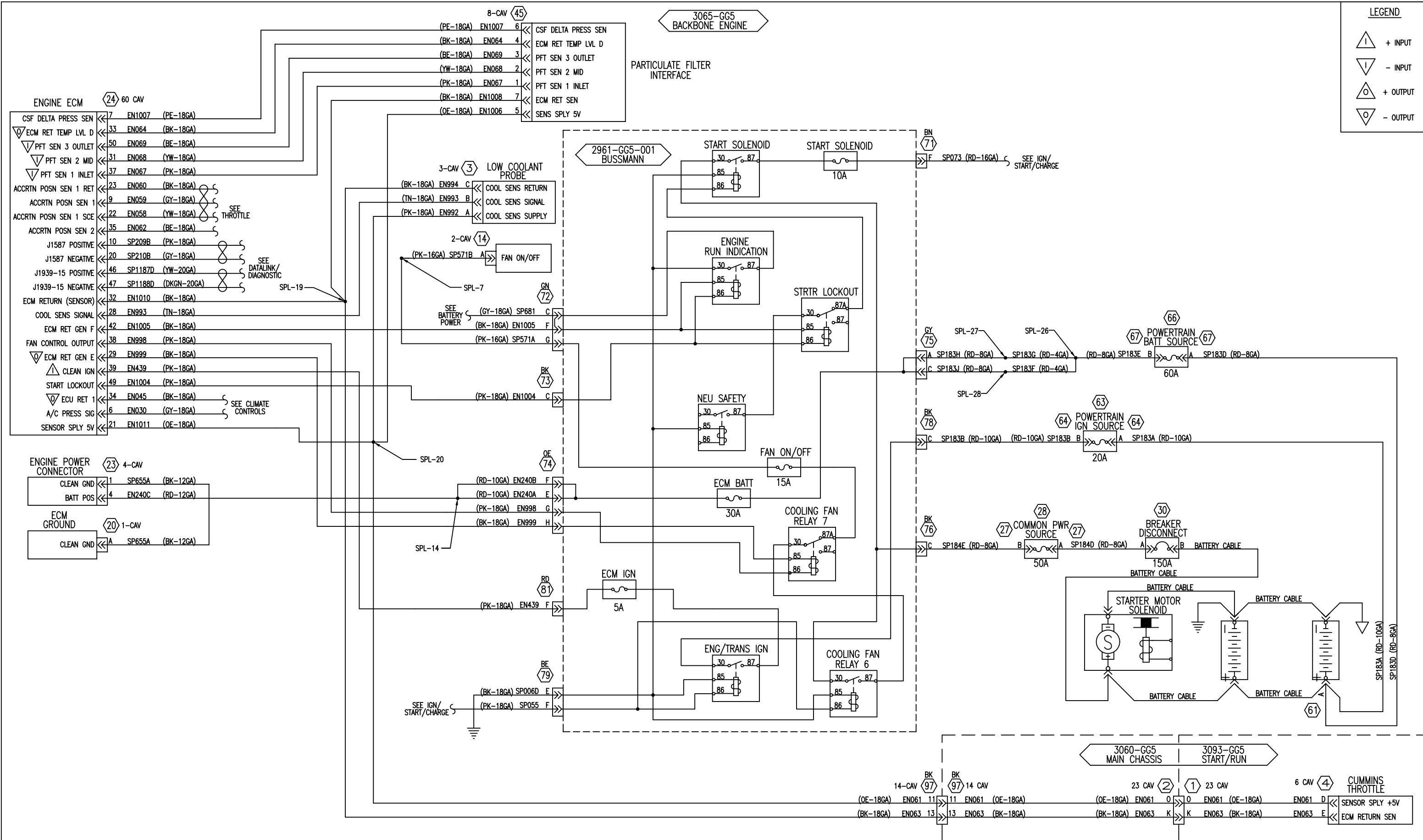


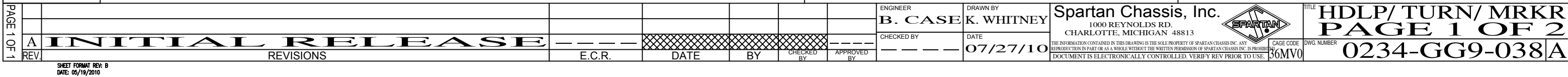


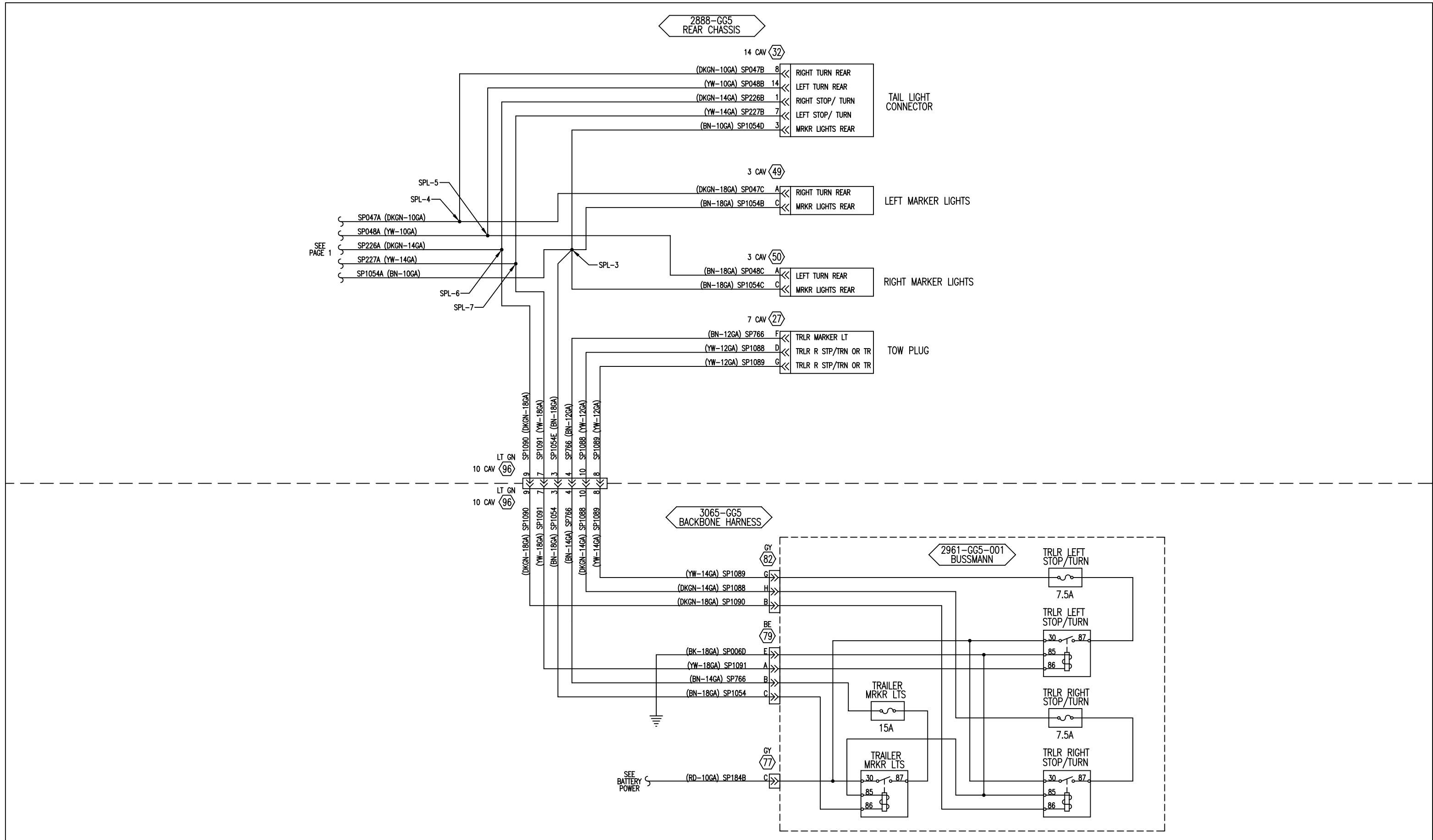
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CAB HARNESS

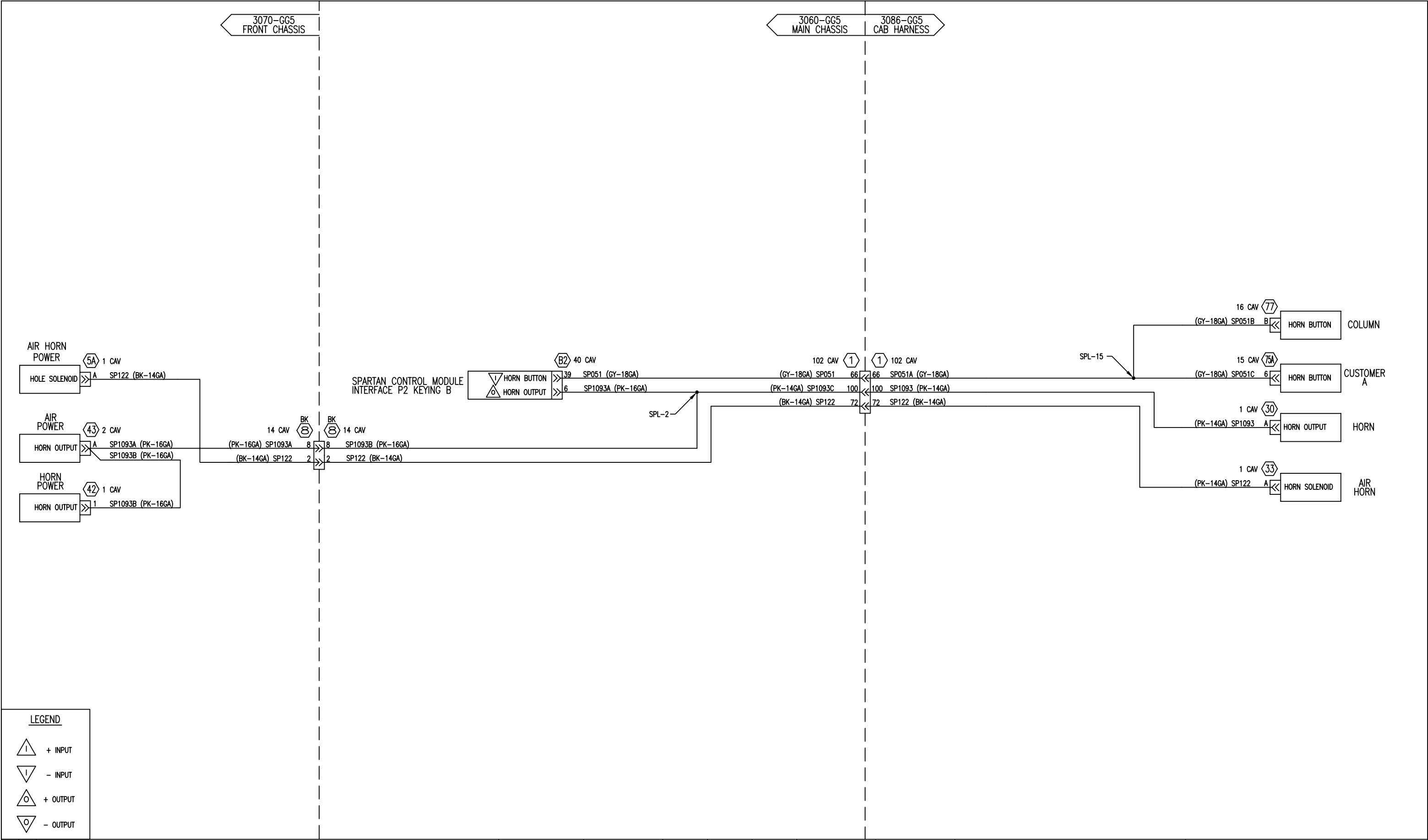




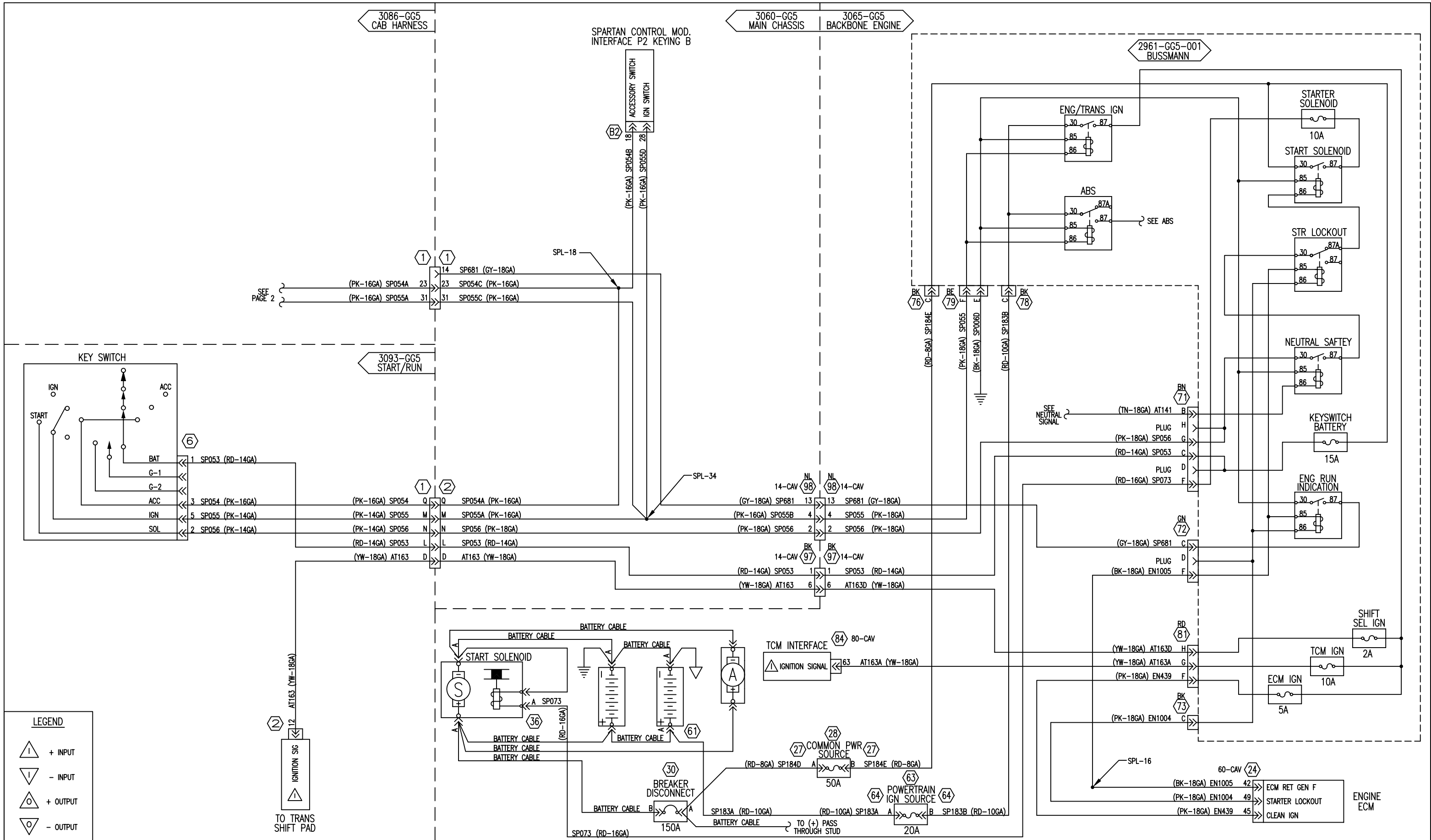


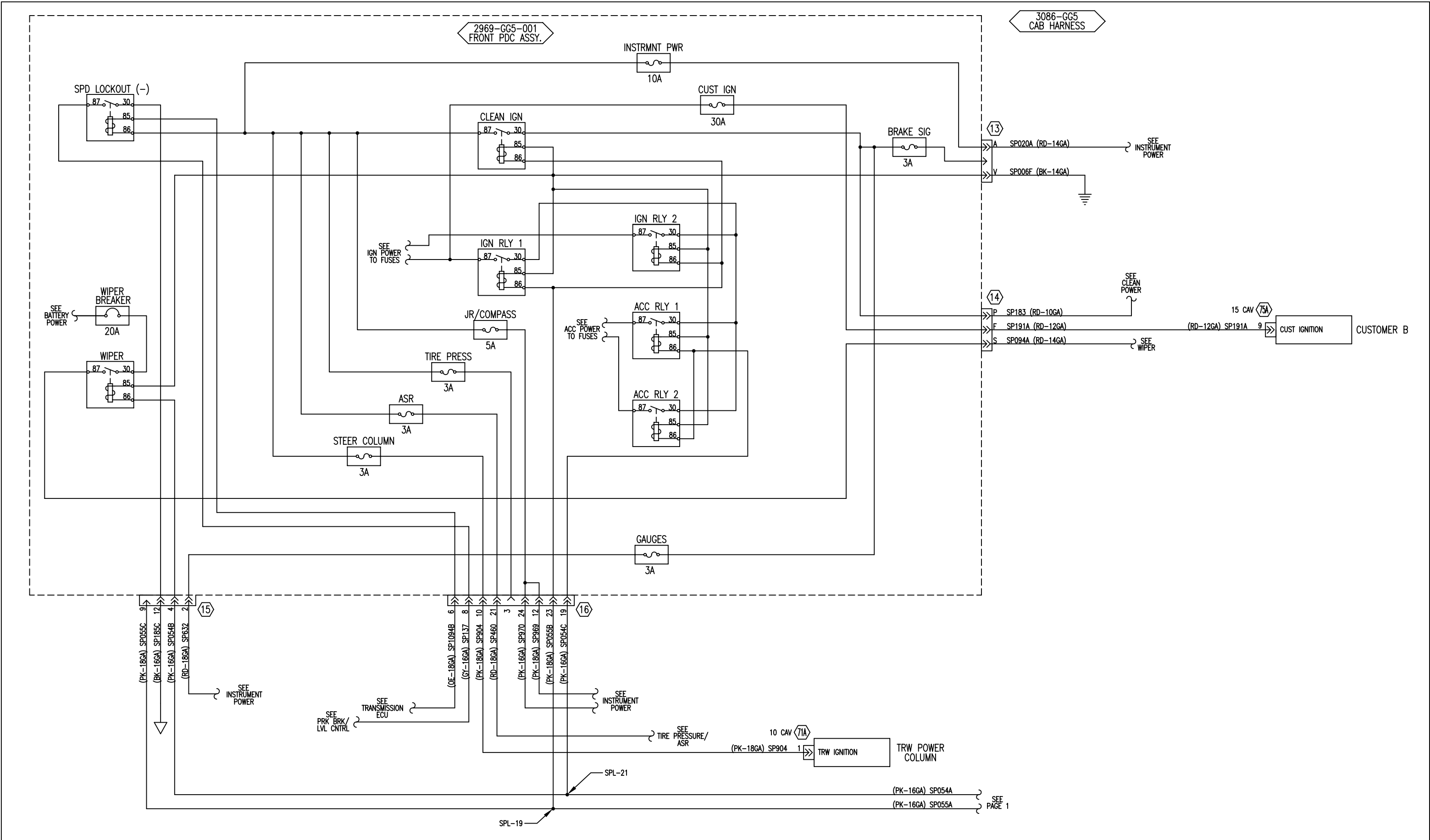






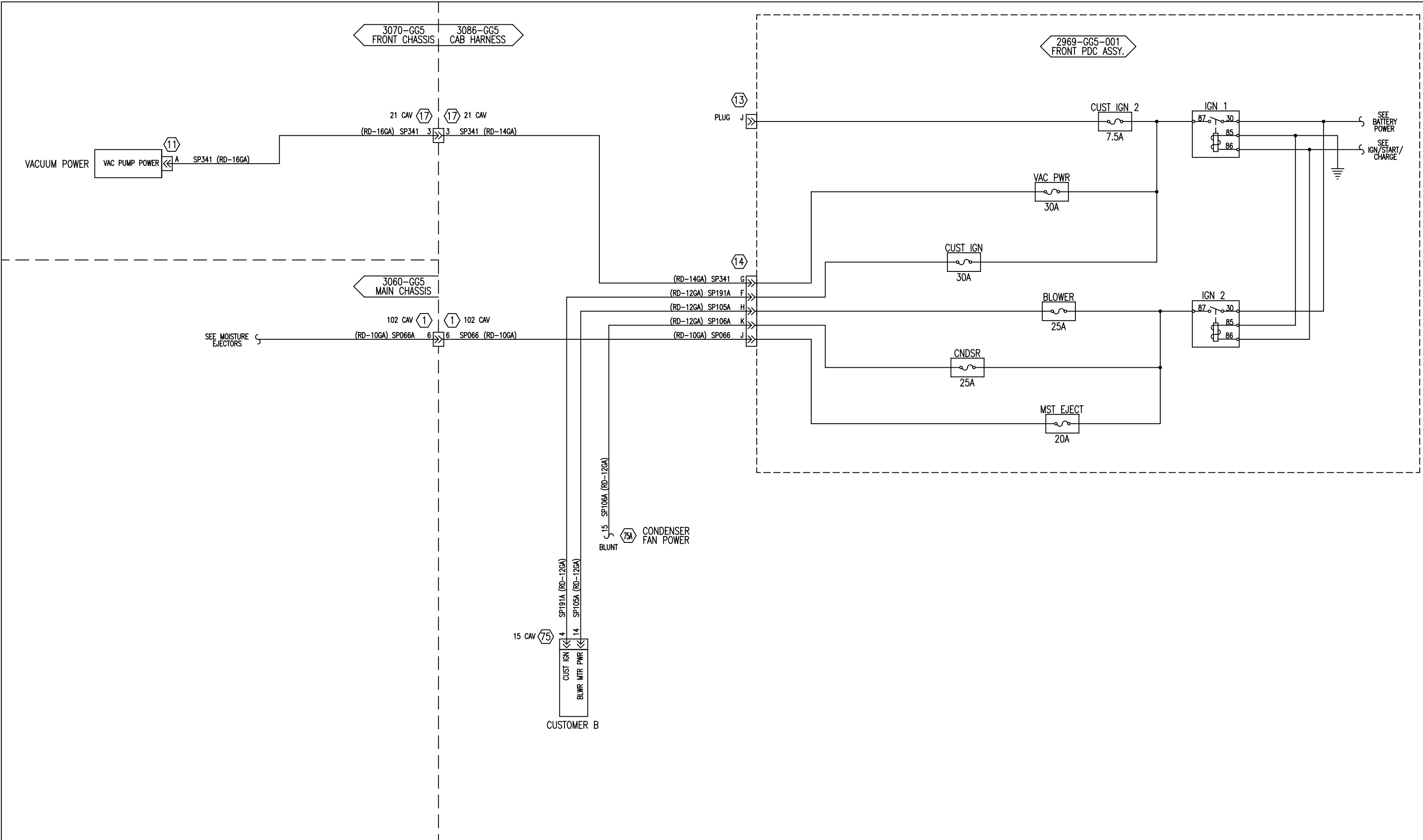
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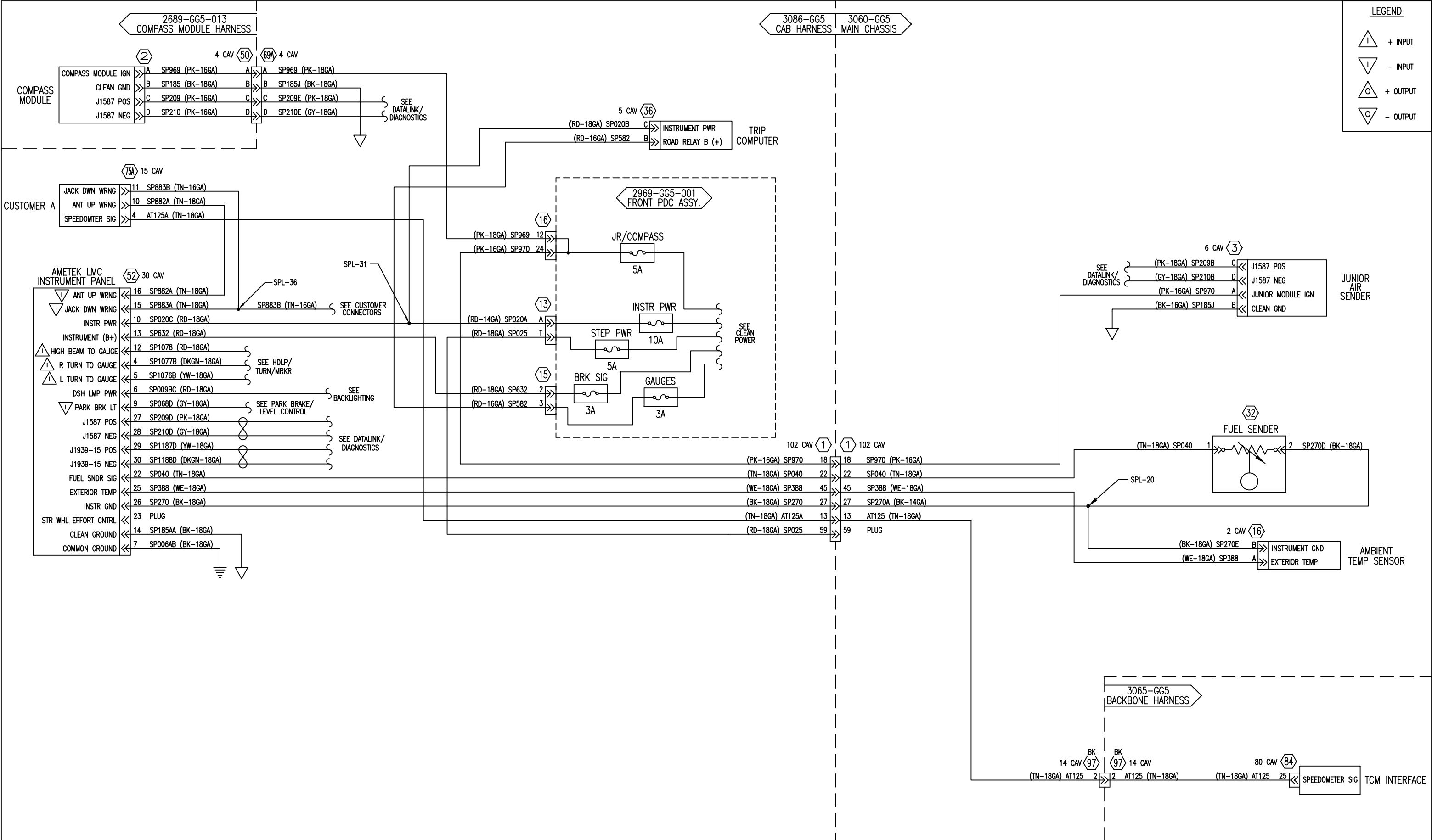
PAGE 1 OF 1		A INITIAL RELEASE		E.C.R.		DATE		BY		CHECKED BY		APPROVED BY		ENGINEER B. CASE		DRAWN BY K. WHITNEY		Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813		TITLE IGN/ START/ CHARGE PAGE 2 OF 2	
REV.		REVISIONS														DATE 07/27/10		CAGE CODE 36MV0		DWG. NUMBER 0234-GG9-042	
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SHEET FORMAT REV: B
DATE: 05/19/2010

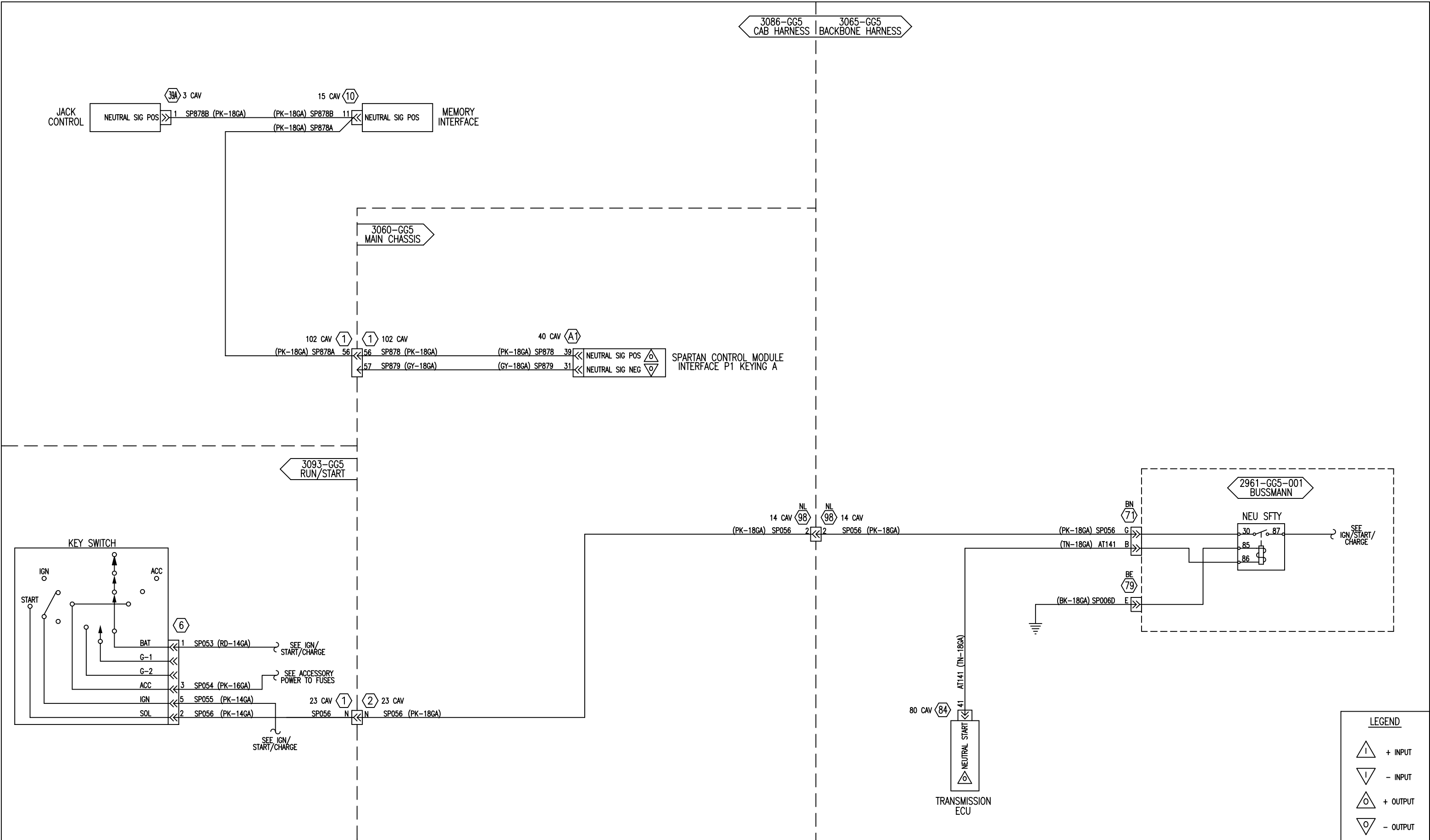


PAGE 1 OF 1							ENGINEER	DRAWN BY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED.	TITLE	
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							CHECKED BY	DATE		CAGE CODE	DWG. NUMBER
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SHEET FORMAT REV: B
DATE: 05/19/2010



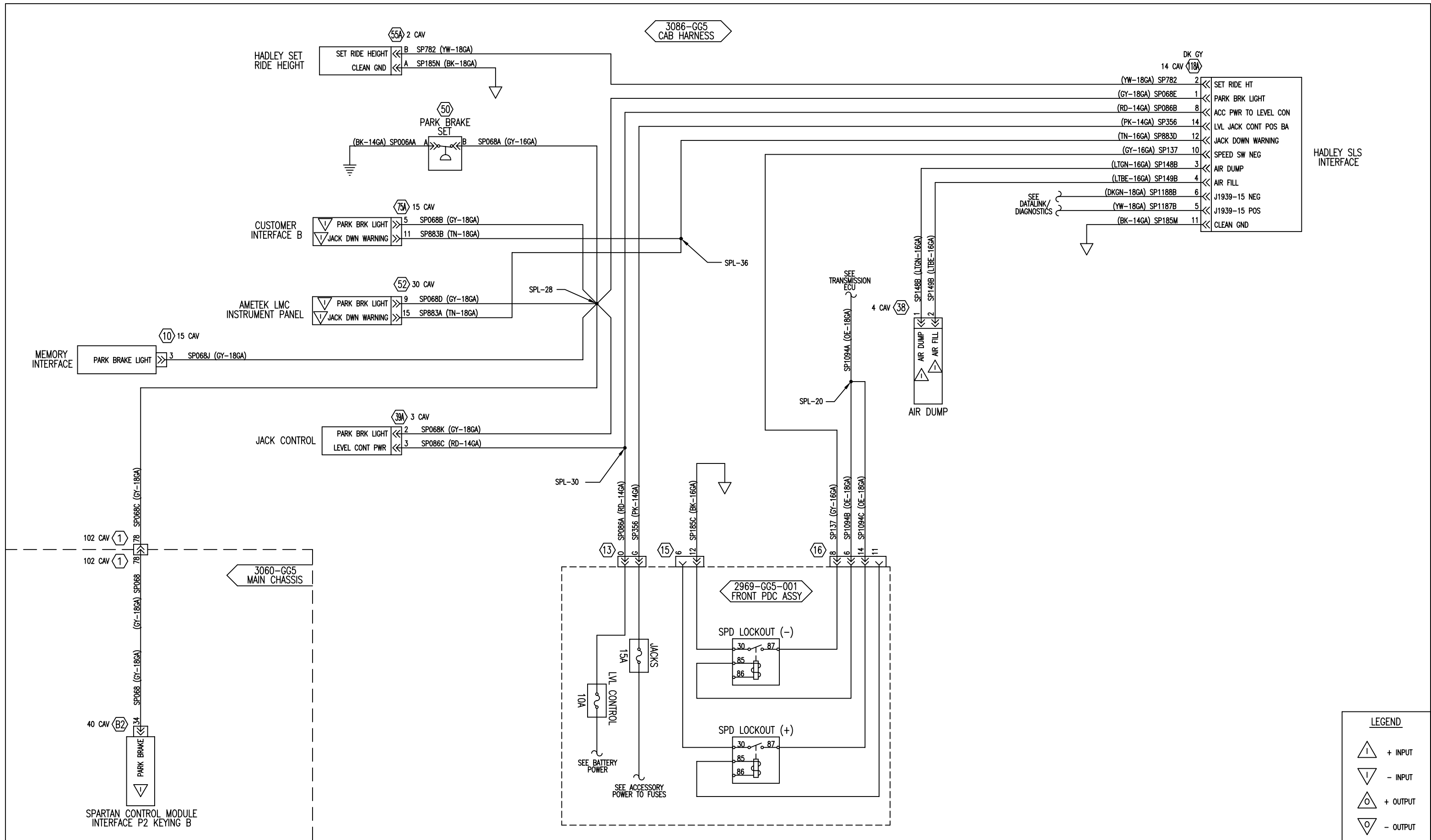
PAGE 1 OF 1	INITIAL RELEASE						ENGINEER B. CASE	DRAWN BY K. WHITNEY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813		INSTRUMENT POWER	
	REVISIONS						CHECKED BY	DATE	07/27/10		CAGE CODE 36MV0	
	E.C.R.						DATE	BY	CHECKED BY	APPROVED BY	DWG. NUMBER 0234-GG9-046	
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PAGE 1 OF 1							ENGINEER	DRAWN BY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED.	CAGE CODE 36MV0	DWG. NUMBER 0234-GG9-050	TITLE NEUTRAL SIGNAL
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							CHECKED BY	DATE				
							---	07/27/10				
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SHEET FORMAT REV: B
DATE: 05/19/2010

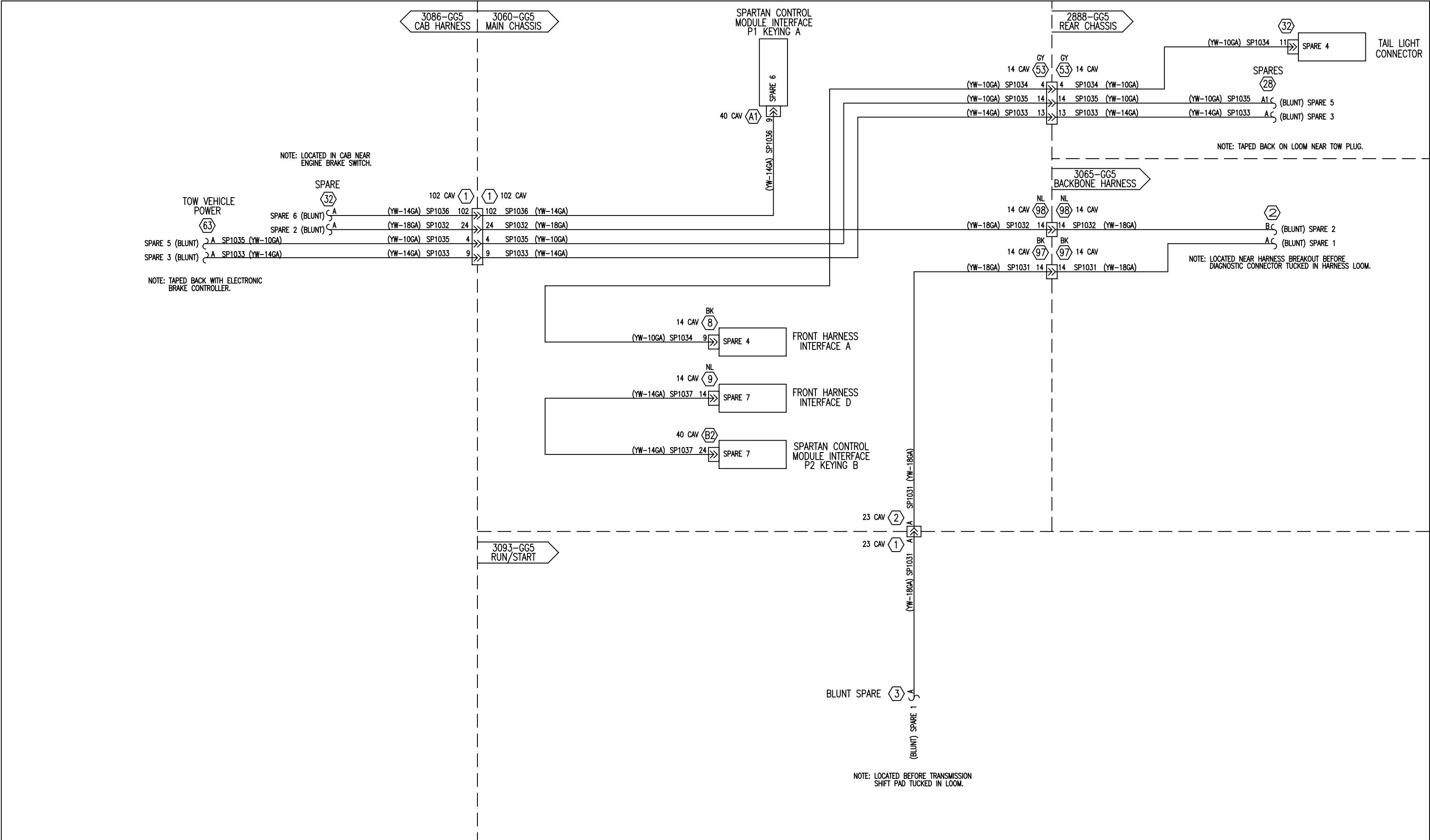
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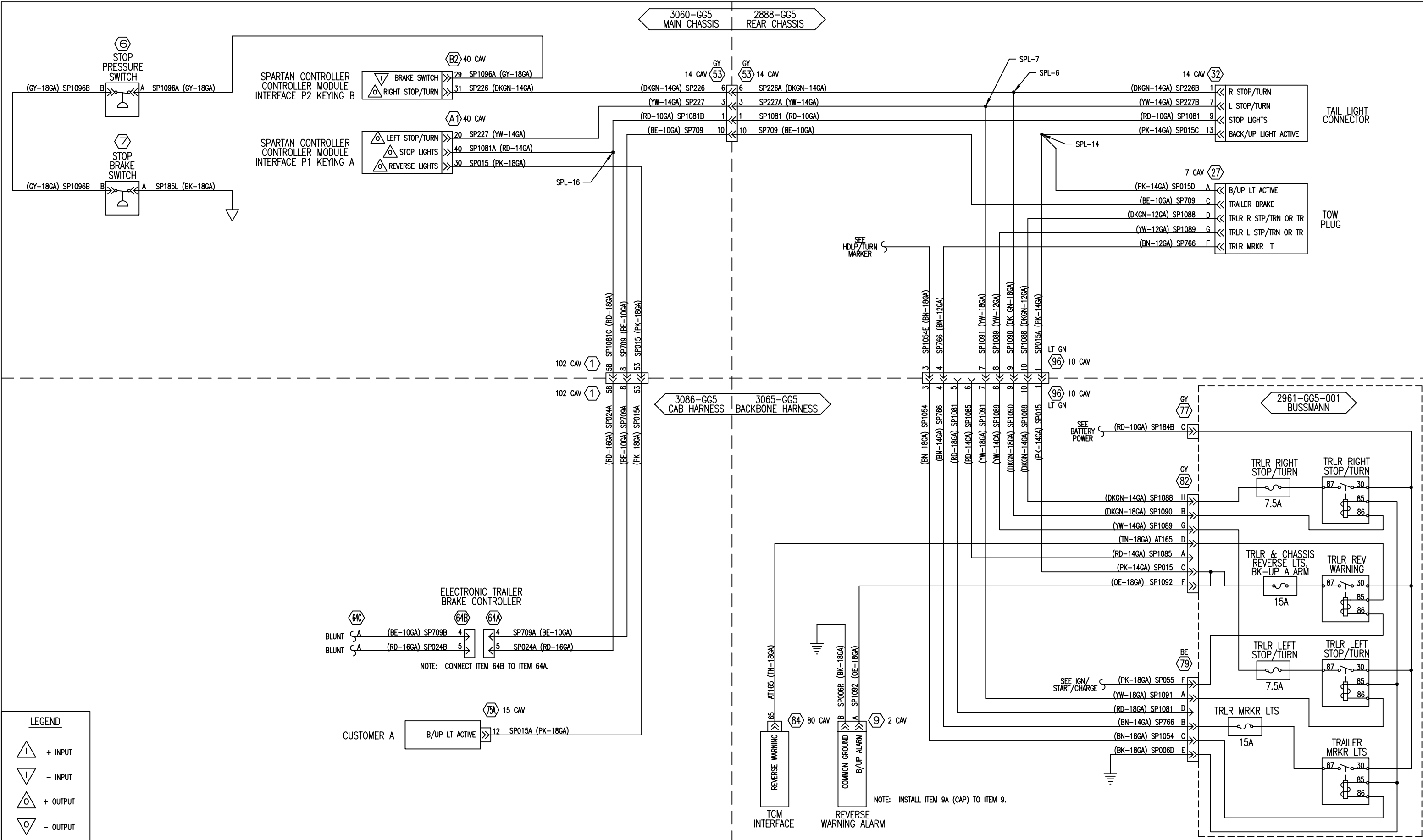
PAGE 1 OF 1					ENGINEER B. CASE	DRAWN BY K. WHITNEY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED.	TITLE PARK BRAKE/LEVEL CONTROL	
REV. A					CHECKED BY	DATE 07/27/10		CAGE CODE 36MV0	DWG. NUMBER 0234-GG9-052
INITIAL RELEASE					DATE	BY		A	

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SHEET FORMAT REV: B
DATE: 05/19/2010



PAGE 1 OF 1							ENGINEER	DRAWN BY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.	SPARTAN CAGE CODE 36MV0 DWG. NUMBER 0234-GG9-054	TITLE SPARES
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REVISIONS											



PAGE 1 OF 1							ENGINEER	DRAWN BY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.	TITLE	STOP/ REVERSE LIGHTS	
							B. CASE	K. WHITNEY				
	INITIAL RELEASE							CHECKED BY	DATE	07/27/10		
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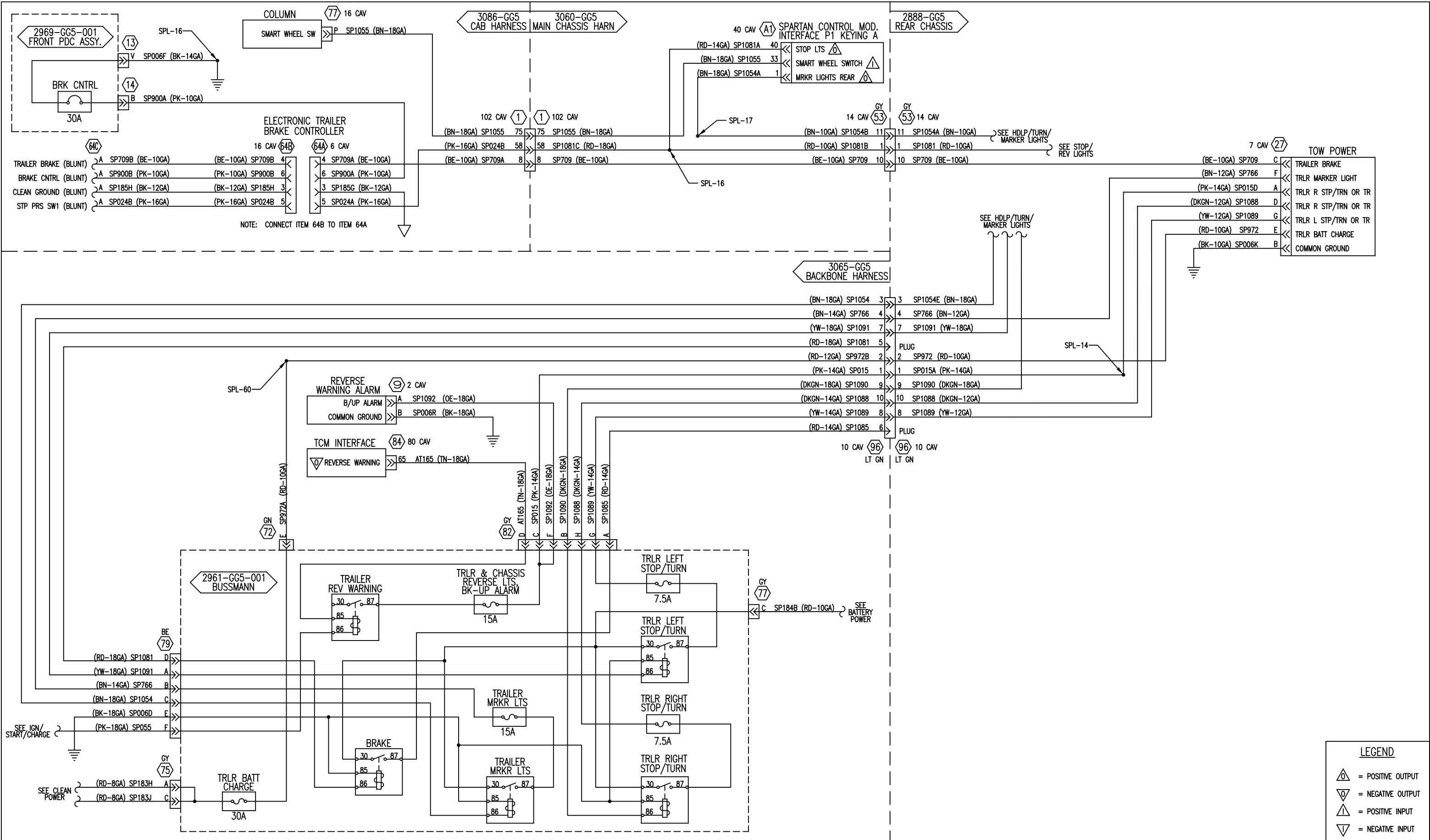
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CHECKED BY — — — —	DATE 07/27/10



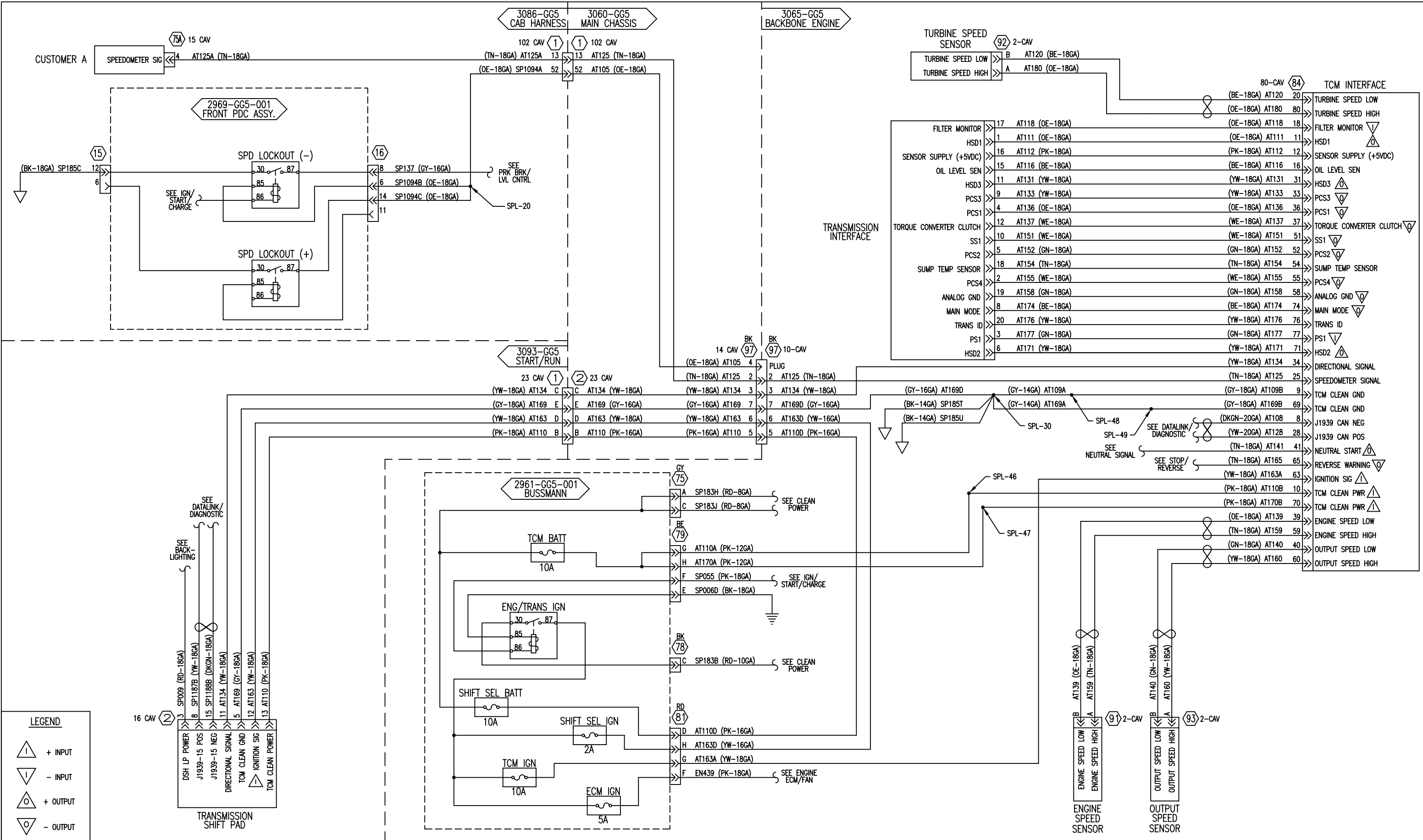
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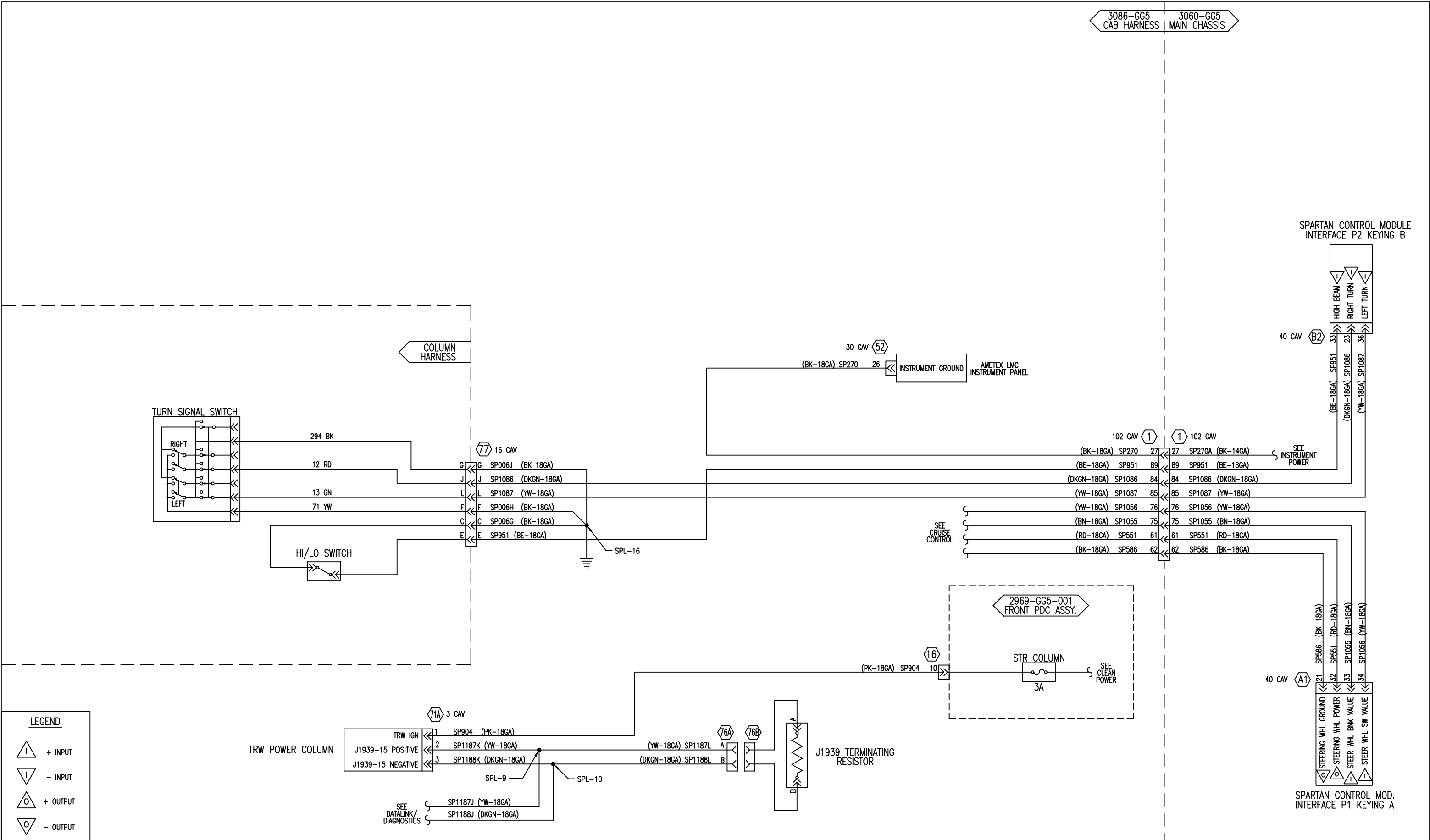
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PAGE 1 OF 1								ENGINEER B. CASE	DRAWN BY K. WHITNEY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.	 TITLE TOW VEHICLE			
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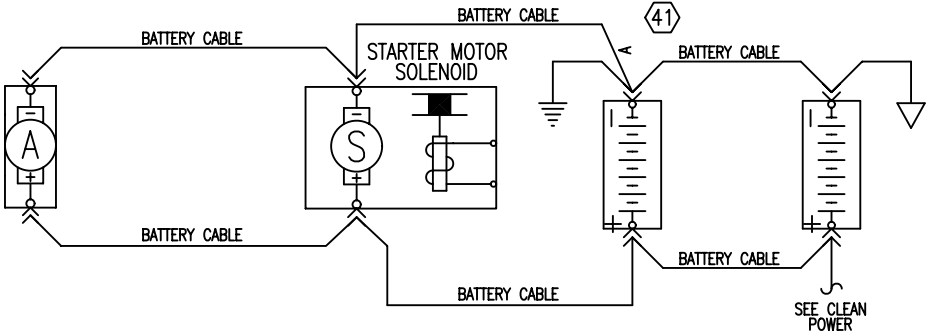
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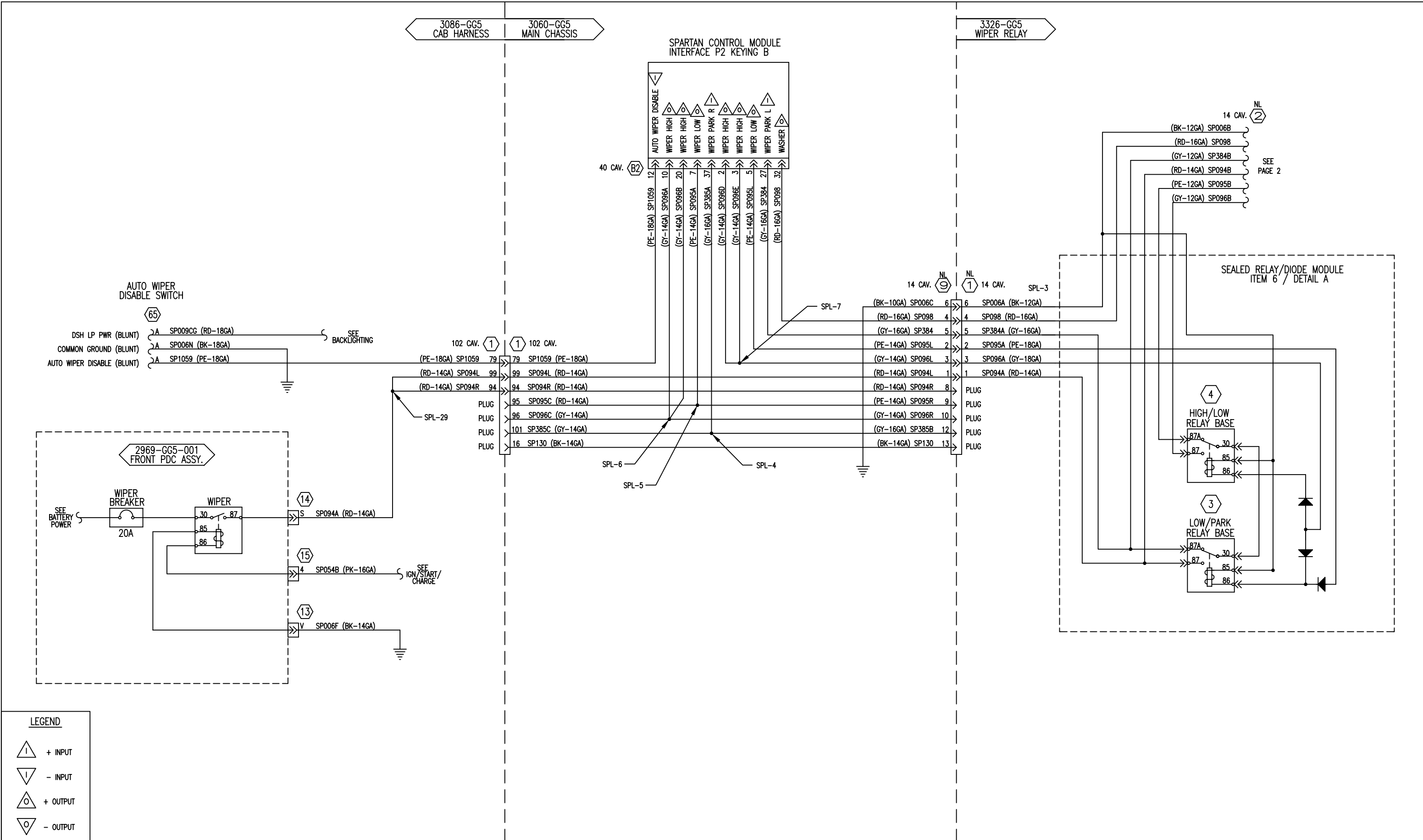
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							B. CASE	K. WHITNEY								
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REV.	REVISIONS						E.C.R.	DATE	BY	CHECKED BY	APPROVED BY	CAGE CODE	DWG. NUMBER	0234-GG9-066		A
SHEET FORMAT REV: B DATE: 05/19/2010																

3065-GG5
BACKBONE ENGINE



PAGE 1 OF 1										ENGINEER B. CASE	DRAWN BY K. WHITNEY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813  THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.	TITLE W I F
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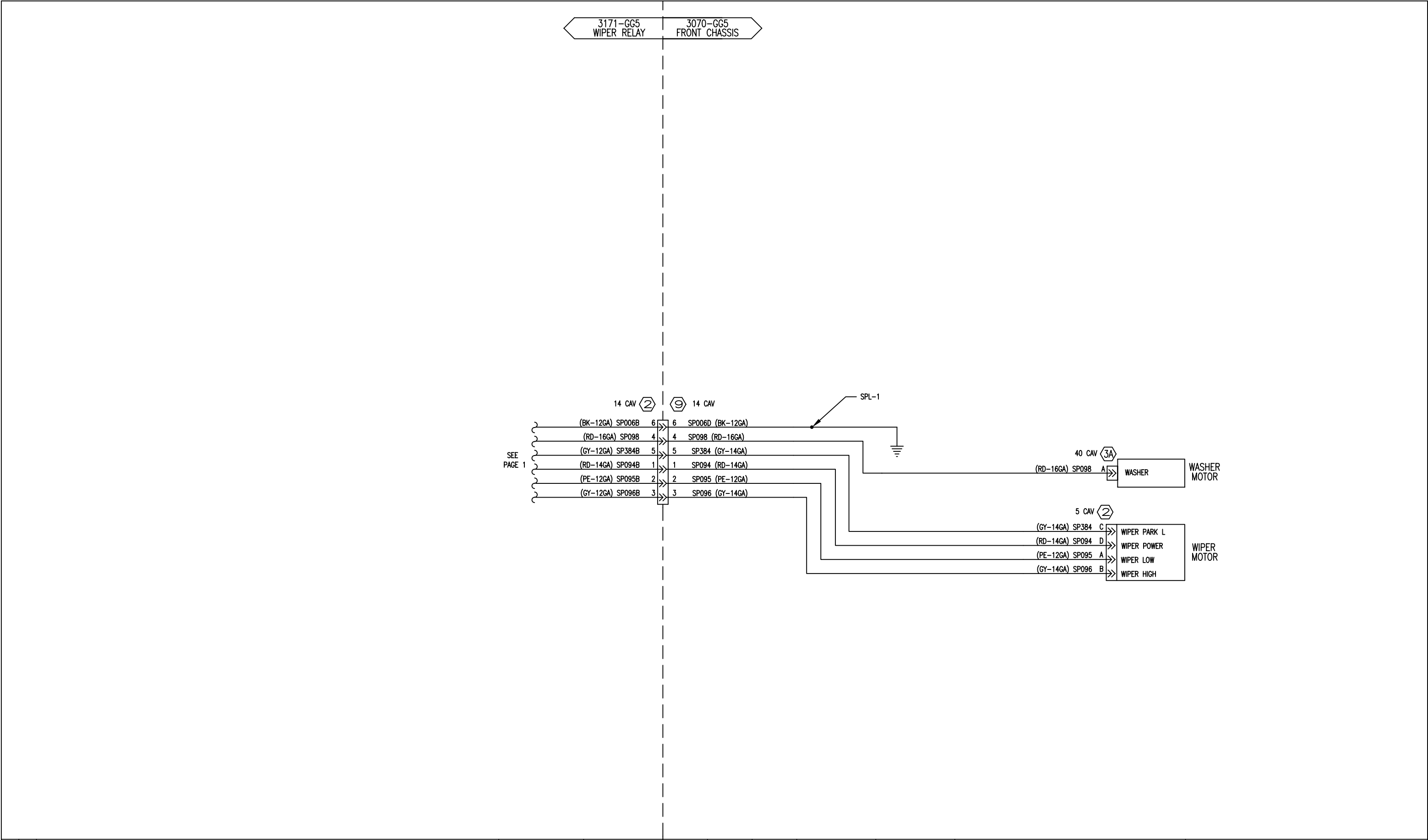
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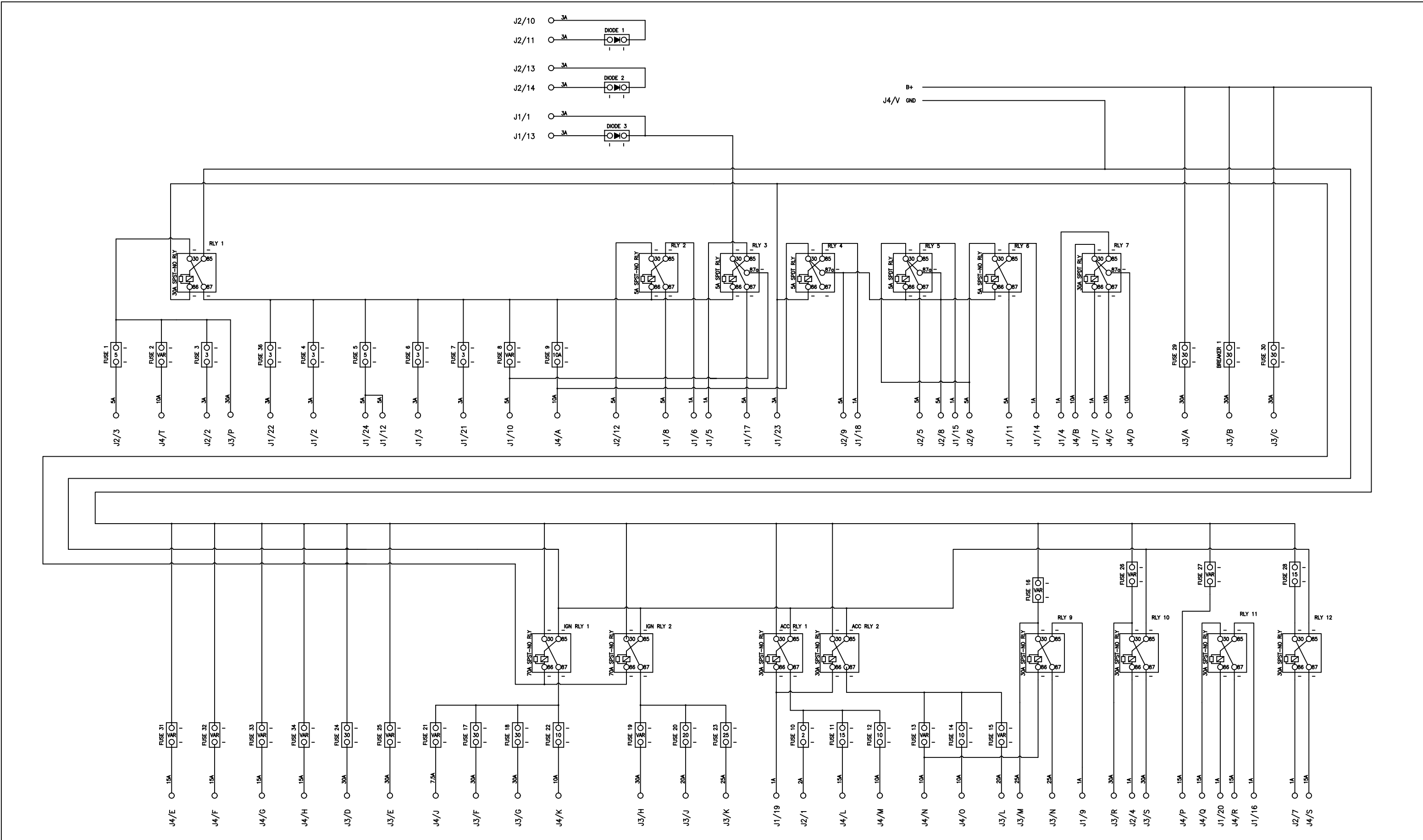
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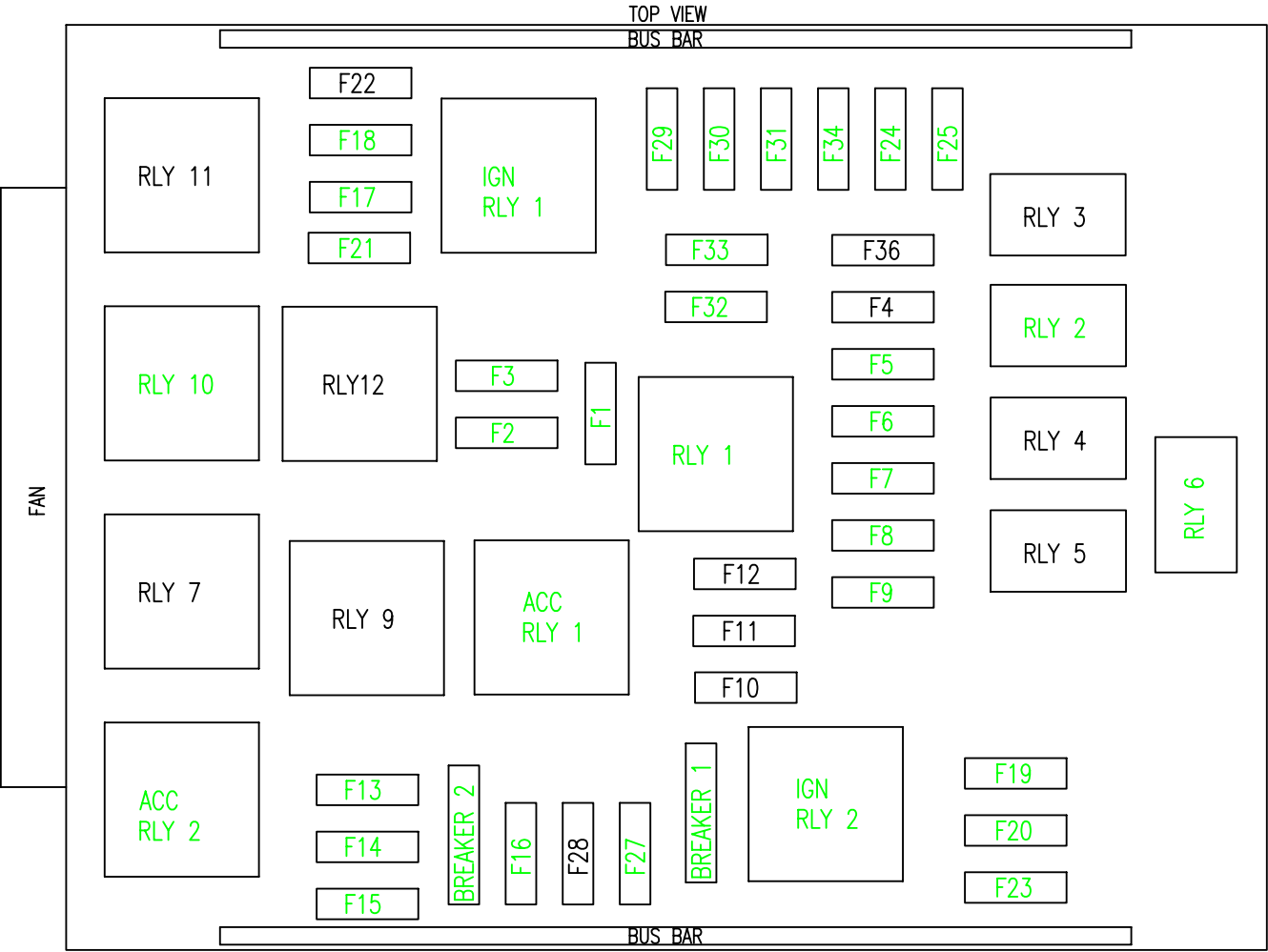
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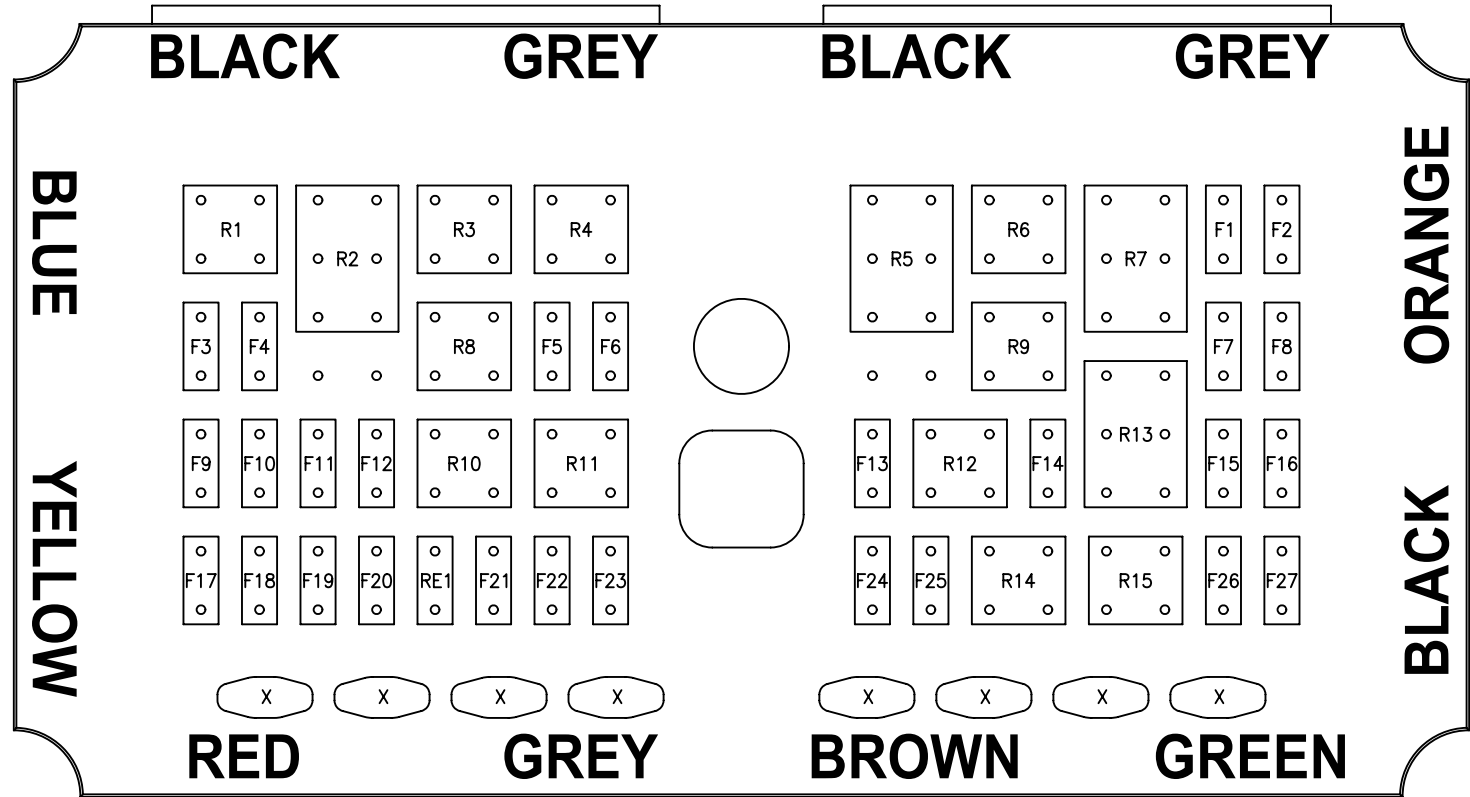


PAGE 1 OF 1									ENGINEER	DRAWN BY	Spartan Chassis, Inc. 1000 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN CHASSIS INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN CHASSIS INC. IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.	SPARTAN CAGE CODE 36MV0	DWG. NUMBER 0234-GG9-068	TITLE WIPER RELAY PAGE 2 OF 2
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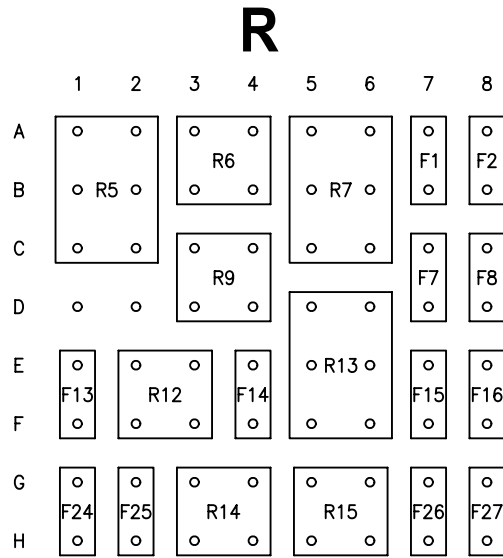
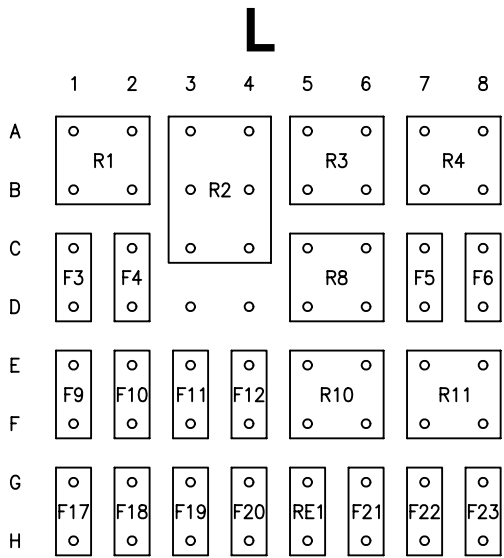




LOADING		
COMPONENT NUMBER	AMPERAGE	LABEL
DIODE 1	---	---
DIODE 2	---	---
DIODE 3	---	---
FUSE 1	5A	TRIPTEK
FUSE 2	3A	BRK SIG
FUSE 3	3A	GAUGES
FUSE 4	---	---
FUSE 5	5A	JR/CMPSS
FUSE 6	3A	TIRE PRESS
FUSE 7	3A	ASR
FUSE 8	3A	STEER COLUMN
FUSE 9	10A	INSTR PWR
FUSE 10	---	---
FUSE 11	---	---
FUSE 12	---	---
FUSE 13	10A	CUST ACC 2
FUSE 14	10A	LVL CNTRL
FUSE 15	20A	CUST ACC
FUSE 16	15A	MEM 3
FUSE 17	30A	CUST IGN
FUSE 18	30A	VAC PWR
FUSE 19	25A	BLOWER
FUSE 20	20A	MST EJECT
FUSE 21	7.5A	CUST IGN 2
FUSE 22	---	---
FUSE 23	25A	CNDSR
FUSE 24	30A	DRV SEAT
FUSE 25	30A	PAS SEAT
FUSE 27	15A	DRV AIR
LOADING continued...		
COMPONENT NUMBER	AMPERAGE	LABEL
FUSE 28	---	---
FUSE 29	30A	CUST BATT
FUSE 30	30A	MEM 2
FUSE 31	5A	STEP PWR
FUSE 32	15A	PASS SEAT AIR
FUSE 33	15A	JACKS
FUSE 34	15A	MEM 1
FUSE 35	---	---
FUSE 36	---	---
RELAY 1	CLEAN IGN	CLEAN IGN
RELAY 2	SPD LCKOUT (-)	SPD LCKOUT (-)
RELAY 3	---	---
RELAY 4	---	---
RELAY 5	---	---
RELAY 6	SPD LCKOUT (+)	SPD LCKOUT (+)
RELAY 7	---	---
RELAY 9	---	---
RELAY 10	WIPER	WIPER
RELAY 11	---	---
RELAY 12	---	---
IGN RELAY 1	IGN RELAY 1	IGN RELAY 1
IGN RELAY 2	IGN RELAY 2	IGN RELAY 2
ACC RELAY 1	ACC RELAY 1	ACC RELAY 1
ACC RELAY 2	ACC RELAY 2	ACC RELAY 2
CIRCUIT BREAKER 1	30A	BRK CNTRL
CIRCUIT BREAKER 2	20A	WIPER

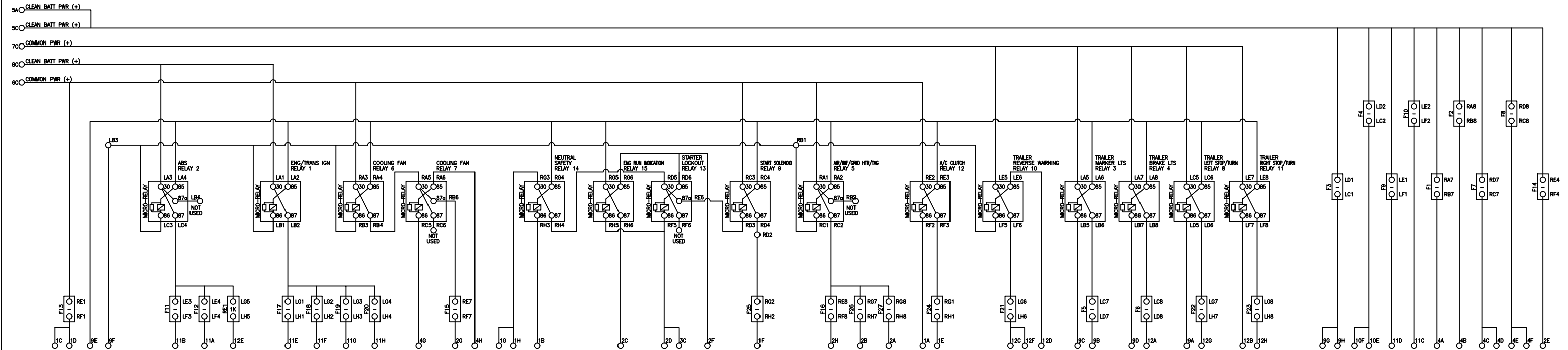


DVEC	
CONNECTOR NUMBER	CONNECTOR COLOR
1	BROWN
2	GREEN
3	BLACK
4	ORANGE
5	GREY
6	BLACK
7	GREY
8	BLACK
9	BLUE
10	YELLOW
11	RED
12	GREY

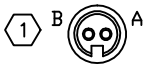


RELAY AND FUSE GRID LOCATION EXAMPLE
FUSE #5 IS LOCATED IN LC7 AND LD7.

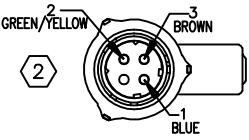
RELAY AND FUSE GRID LOCATION EXAMPLE
FUSE #24 IS LOCATED IN RG1 AND RH1.



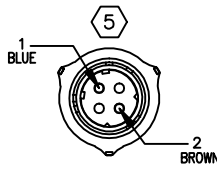
ITEM: 1				
RIGHT REAR WHEEL SPEED SENSOR				
340-001				
LEONI CABLE				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
A (BK)	SP255	BK	0.8 (18GA)	ABS 2 SENS R2
B (BN)	SP254	BN	0.8 (18GA)	ABS 2 SENS R1



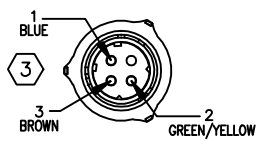
ITEM: 2				
RIGHT REAR ABS VALVE				
449 532 XXX 0				
WABCO				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
1	SP261	BE	1.0 (16GA)	ABS 2 VLV O/L R
2	SP259	GN/YW	1.0 (16GA)	ABS 2 VLV COM R
3	SP260	BN	1.0 (16GA)	ABS 2 VLV I/L R



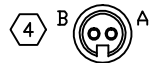
ITEM: 5				
ATC VALVE				
449 415 XXX 0				
WABCO				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
1	SP743	BE	1.0 (16GA)	ABS ATC VLV APLY
2	SP744	BN	1.0 (16GA)	ABS ATC VLV COM



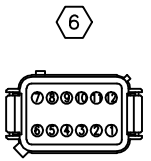
ITEM: 3				
LEFT REAR ABS VALVE				
449 413 XXX 0				
WABCO				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
1	SP258	BE	1.0 (16GA)	ABS 2 VLV O/L L
2	SP256	GN/YW	1.0 (16GA)	ABS 2 VLV COM L
3	SP257	BN	1.0 (16GA)	ABS 2 VLV I/L L



ITEM: 4				
LEFT REAR WHEEL SPD SENSOR				
340-001				
LEONI CABLE				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
A (BK)	SP253	BK	0.8 (18GA)	ABS 2 SENS L2
B (BN)	SP252	BN	0.8 (18GA)	ABS 2 SENS L1



ITEM: 6				
REAR AXLE ABS CONNECTOR				
DT06-12SC-B016 (GREEN)				
DEUTSCH DEUTSCH				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
1	SP253	BK	0.8 (18GA)	ABS 2 SENS L2
2	SP252	BN	0.8 (18GA)	ABS 2 SENS L1
3	SP255	BK	0.8 (18GA)	ABS 2 SENS R2
4	SP254	BN	0.8 (18GA)	ABS 2 SENS R1
5	SP743	BE	1.0 (16GA)	ABS ATC VLV APLY
6	SP744	BN	1.0 (16GA)	ABS ATC VLV COM
7	SP261	BE	1.0 (16GA)	ABS 2 VLV O/L R
8	SP259	GN/YW	1.0 (16GA)	ABS 2 VLV COM R
9	SP260	BN	1.0 (16GA)	ABS 2 VLV I/L R
10	SP258	BE	1.0 (16GA)	ABS 2 VLV O/L L
11	SP256	GN/YW	1.0 (16GA)	ABS 2 VLV COM L
12	SP257	BN	1.0 (16GA)	ABS 2 VLV I/L L



A INITIAL RELEASE		03/17/06	EDG	ENGINEER: KYLE FINKBEINER	TITLE: HARNESS-ABS REAR AXLE W/ATC	DRAWING NUMBER: 2666-GG10A	 Spartan Chassis, Inc. WORLD WIDE VEHICLES AND CHASSIS 1105 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY	DRAWING BY: ERIC GARNAAT		PAGE: 1 OF 1	

ITEM: 20						
ECM GROUND						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: A68						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP655A	3.0	GXL	BK	CLEAN GND	---

NOTES:

ITEM: 85						
ABS						
DT06-12SA-B016						
DEUTSCH						
OPT: ALL						
MAP: D31						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP004A	2.0	GXL	RD	IGN TO ABS ECU	---
2	SP004B	2.0	GXL	RD	IGN TO ABS ECU	---
3	SP201	0.8	GXL	GY	ATC SW TO ECU	---
4	SP209D	0.8	GXL	PK	J1587 POS	TWP-06
5	PLUG	---	---	---	---	---
6	SP1188F	0.5	---	DKGN	J1939-15 NEG	J1939-
7	SP1187F	0.5	---	YW	J1939-15 POS	J1939-
8	PLUG	---	---	---	---	---
9	SP210D	0.8	GXL	GY	J1587 NEG	TWP-06
10	SP515	0.8	GXL	GN	ABS BLINK IN	---
11	SP185T	2.0	GXL	BK	CLEAN GND	---
12	SP185U	2.0	GXL	BK	CLEAN GND	---

NOTES: WEDGELOCK W12S-P012.

ITEM: 1						
DIAGNOSTIC PORT						
HD10-9-1939P						
DEUTSCH						
OPT: ALL						
MAP: C88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP185A	1.0	GXL	BK	CLEAN GND	---
B	SP528B	1.0	GXL	RD	DATALINK PWR	---
C	SP1187A	0.5	---	YW	J1939-15 POS	J1939-
D	SP1188A	0.5	---	DKGN	J1939-15 NEG	J1939-
E	---	---	---	---	---	---
F	SP209A	0.8	GXL	PK	J1587 POS	TWP-06
G	SP210A	0.8	GXL	GY	J1587 NEG	TWP-06
H	---	---	---	---	---	---
J	---	---	---	---	---	---

NOTES: HDC16-9 (CAP); 1847-NN1-001 (TETHER); HD18-009 (STRAIN RELF).

ITEM: 45						
PARTICULATE FILTER INTERFACE						
DTM06-08SA						
DEUTSCH						
OPT: ALL						
MAP: A71						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN067	0.8	GXL	PK	PFT SENSOR 1 INLET	---
2	EN068	0.8	GXL	YW	PFT SENSOR 2 MID	---
3	EN069	0.8	GXL	BE	PFT SENSOR 3 OUTLET	---
4	EN064	0.8	GXL	BK	ECM RET TEMP LVL D	---
5	EN1006	0.8	GXL	OE	SENSOR SUPPLY 5V	TWT-19
6	EN1007	0.8	GXL	PE	CSF DELTA PRESS SEN	TWT-19
7	EN1008	0.8	GXL	BK	ECM RET SEN	TWT-19
8	PLUG	---	---	---	---	---

NOTES: TPA WM-8S

ITEM: 91						
ENGINE SPEED SENSOR						
13520101						
DELPHI						
OPT: ALL						
MAP: A24						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT159	0.8	TXL	TN	ENGINE SPEED HIGH	TWP-27
B	AT139	0.8	TXL	OE	ENGINE SPEED LOW	TWP-27

NOTES: CPA: 15496486, CONVOLUTE CAPTRE: 15358890, TERMINAL: 15326267, SEAL:15305351.

ITEM: 92						
TURBINE SPEED SENSOR						
13520101						
DELPHI						
OPT: ALL						
MAP: A22						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT180	0.8	TXL	OE	TURBINE SPEED HIGH	TWP-26
B	AT120	0.8	TXL	BE	TURBINE SPEED LOW	TWP-26

NOTES: CPA: 15496486, CONVOLUTE CAPTURE: 15358890, TERMINAL: 15326267, SEAL: 15305351.

ITEM: 96						
REAR LIGHTING INTERFACE						
FCI APEX						
54201012 (LIGHT GREEN)						
OPT: ALL						
MAP: A12						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP015	2.0	GXL	PK	B/UP LT ACTIVE	---
2	SP972	5.0	TXL	RD	TRLR BATT CHARGE	---
3	SP1054	0.8	GXL	BN	MRKR LTS REAR	---
4	SP766	2.0	GXL	BN	TRLR MRKR LT	---
5	SP1081	0.8	GXL	RD	STOP LTS	---
6	SP1085	2.0	GXL	RD	TRLR STOP LT	---
7	SP1091	0.8	GXL	YW	INPUT L STP/TRN OR T	---
8	SP1089	2.0	GXL	YW	TRLR L STP/TRN OR TR	---
9	SP1090	0.8	GXL	DKGN	INPUT R STP/TRN OR T	---
10	SP1088	2.0	GXL	DKGN	TRLR R STP/TRN OR TR	---

NOTES:

ITEM: 97						
CHASSIS INTERFACE A						
FCI APEX						
54201415 (BLACK)						
OPT: ALL						
MAP: B11						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP053	2.0	GXL	RD	BATTPOS/IGN SW	---
2	AT125	0.8	TXL	TN	SPEEDOMETER SIGNAL	---
3	AT134	0.8	TXL	YW	DIRECTION SIGNAL	---
4	---	---	---	---	---	---
5	AT110D	1.0	GXL	PK	TCM CLEAN PWR	---
6	AT163D	0.8	GXL	YW	IGNITION SIG	---
7	AT169D	1.0	GXL	GY	TCM CLEAN GND	---
8	EN058	0.8	GXL	YW	ACCRTN POSN SEN 1 SC	TWT-15
9	EN059	0.8	GXL	GY	ACCRTN POSN SEN 1	TWT-15
10	EN060	0.8	GXL	BK	ACCRTN POSN SEN 1 RE	TWT-15
11	EN061	0.8	GXL	OE	SENSOR SUPPLY 5 V	TWT-16
12	EN062	0.8	GXL	BE	ACCRTN POSN SEN 2	TWT-16
13	EN063	0.8	GXL	BK	ECM RETURN SEN	TWT-16
14	SP1031	0.8	GXL	YW	SPARE 1	---

NOTES:

ITEM: 98						
CHASSIS INTERFACE B						
FCI APEX						
54201418 (NATURAL)						
OPT: ALL						
MAP: D11						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP183P	5.0	TXL	RD	CLEAN PWR	---
2	SP056	0.8	GXL	PK	START SIGNAL	---
3	SP007A	0.8	GXL	RD	AC CLT SW PWR	---
4	SP055	0.8	GXL	PK	IGNITION SW	---
5	SP201	0.8	GXL	GY	ATC SW TO ECU	---
6	SP528A	1.0	GXL	RD	DATALINK PWR	---
7	SP185P	5.0	TXL	BK	CLEAN GND	---
8	PLUG	---	---	---	---	---
9	SP209F	0.8	GXL	PK	J1587 POS	TWP-06
10	SP210F	0.8	GXL	GY	J1587 NEG	TWP-06
11	SP1187J	0.5	---	YW	J1939-15 POS	J1939-
12	SP1188J	0.5	---	DKGN	J1939-15 NEG	J1939-
13	SP681	0.8	GXL	GY	BATT BOOST	---
14	SP1032	0.8	GXL	YW	SPARE 2	---

NOTES:

				ENGINEER:	TITLE:	DRAWING NUMBER:	Spartan Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1165 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	
				DAVE SCHULTZ	HARN, BKBN ENG	3065-GG10		
				DRAWING BY:	CUMMINS ISM W/4000MH	PAGE:		
A	INITIAL RELEASE	12/04/07	AJS	ADAM SMITH		2 OF 4	REV:	A
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY					

ITEM: 78

BUSSMANN BOX

32004-A2 (BLACK)

BUSSMANN

OPT: ALL

MAP: C41

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
C	SP183B	5.0	TXL	RD	CLEAN PWR	---

NOTES: 32004-TP2

78

ITEM: 79

BUSSMANN BOX

32006-D22 (BLUE)

BUSSMANN

OPT: ALL

MAP: C43

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1091	0.8	GXL	YW	INPUT L STP/TRN OR T	---
B	SP766	2.0	GXL	BN	TRLR MRKR LT	---
C	SP1054	0.8	GXL	BN	MRKR LTS REAR	---
D	SP1081	0.8	GXL	RD	STOP LTS	---
E	SP006D	0.8	GXL	BK	COMMON GND	---
F	SP055	0.8	GXL	PK	IGNITION SW	---
G	AT110A	3.0	GXL	PK	TCM CLEAN PWR	---
H	AT170A	3.0	GXL	PK	TCM CLEAN PWR	---

NOTES: 32006-TP2

79

ITEM: 80

BUSSMANN BOX

32006-E22 (YELLOW)

BUSSMANN

OPT: ALL

MAP: D43

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---
C	PLUG	---	---	---	---	---
D	PLUG	---	---	---	---	---
E	SP528A	1.0	GXL	RD	DATALINK PWR	---
F	SP528B	1.0	GXL	RD	DATALINK PWR	---
G	PLUG	---	---	---	---	---
H	PLUG	---	---	---	---	---

NOTES: 32006-TP2

80

ITEM: 81

BUSSMANN BOX

32006-F22 (RED)

BUSSMANN

OPT: ALL

MAP: D41

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP004A	2.0	GXL	RD	IGN TO ABS ECU	---
B	SP004B	2.0	GXL	RD	IGN TO ABS ECU	---
C	SP183P	5.0	TXL	RD	CLEAN PWR	---
D	AT110D	1.0	GXL	PK	TCM CLEAN PWR	---
E	PLUG	---	---	---	---	---
F	EN439	0.8	GXL	PK	CLEAN IGN	---
G	AT163A	0.8	TXL	YW	IGNITION SIG	---
H	AT163D	0.8	GXL	YW	IGNITION SIG	---

NOTES: 32006-TP2

81

ITEM: 82

BUSSMANN BOX

32006-B22 (GRAY)

BUSSMANN

OPT: ALL

MAP: D39

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1085	2.0	GXL	RD	TRLR STOP LT	---
B	SP1090	0.8	GXL	DKGN	INPUT R STP/TRN OR T	---
C	SP015	2.0	GXL	PK	B/UP LT ACTIVE	---
D	AT165	0.8	TXL	TN	REVERSE WARNING	---
E	SP515	0.8	GXL	GN	ABS BLINK IN	---
F	SP1092	0.8	GXL	OE	B/UP ALARM	---
G	SP1089	2.0	GXL	YW	TRLR L STP/TRN OR TR	---
H	SP1088	2.0	GXL	DKGN	TRLR R STP/TRN OR TR	---

NOTES: 32006-TP2

82

ITEM: 14a

ON/OFF FAN CLUTCH CAP

12010973

PACKARD

OPT: ALL

MAP: E74

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---

NOTES: ATTACH TO ITEM 14

14A

ITEM: 76

BUSSMANN BOX

32004-A2 (BLACK)

BUSSMANN

OPT: ALL

MAP: D38

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
C	SP184E	8.0	GXL	RD	BATTERY PWR	---

NOTES: 32004-TP2

76

ITEM: 77

BUSSMANN BOX

32004-B2 (GRAY)

BUSSMANN

OPT: ALL

MAP: D39

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
C	SP184B	5.0	TXL	RD	BATTERY PWR	---

NOTES: 32004-TP2

77

76

ITEM: 71

BUSSMANN BOX

32006-H22 (BROWN)

BUSSMANN

OPT: ALL

MAP: D38

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP007A	0.8	GXL	RD	AC CLT SW PWR	---
B	AT141	0.8	TXL	TN	NEUTRAL START	---
C	SP053	2.0	GXL	RD	BATTPOS/IGN SW	---
D	PLUG	---	---	---	---	---
E	SP007B	1.0	GXL	RD	AC CLT SW PWR	---
F	SP073	1.0	GXL	RD	STARTER SOL	---
G	SP056	0.8	GXL	PK	START SIGNAL	---
H	PLUG	---	---	---	---	---

NOTES: 32006-TP2

71

ITEM: 72

BUSSMANN BOX

32006-C22 (GREEN)

BUSSMANN

OPT: ALL

MAP: D36

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	SP657	1.0	GXL	RD	FUEL/WATER SEP (+)	---
C	SP681	0.8	GXL	GY	BATT BOOST	---
D	PLUG	---	---	---	---	---
E	SP972	5.0	TXL	RD	TRLR BATT CHARGE	---
F	EN1005	0.8	GXL	BK	ECM RET GEN F	TWP-38
G	SP571A	1.0	GXL	PK	FAN ON/OFF	---
H	SP011	1.0	GXL	RD	AIR DRYER PWR	---

NOTES: 32006-TP2

72

ITEM: 73

BUSSMANN BOX

32006-A22 (BLACK)

BUSSMANN

OPT: ALL

MAP: D34

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---
C	EN1004	0.8	GXL	PK	STARTER LOCKOUT	TWP-38
D	PLUG	---	---	---	---	---
E	PLUG	---	---	---	---	---
F	PLUG	---	---	---	---	---
G	PLUG	---	---	---	---	---
H	PLUG	---	---	---	---	---

NOTES: 32006-TP2

73

ITEM: 74

BUSSMANN BOX

32006-G22 (ORANGE)

BUSSMANN

OPT: ALL

MAP: D34

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---
C	PLUG	---	---	---	---	---
D	PLUG	---	---	---	---	---
E	EN240A	5.0	TXL	RD	BATT POS	---
F	EN240B	5.0	TXL	RD	BATT POS	---
G	EN998	0.8	GXL	PK	FAN CONTROL OUTPUT	TWP-35
H	EN999	0.8	GXL	BK	ECM RET GEN E	TWP-35

NOTES: 32006-TP2

74

ITEM: 75

BUSSMANN BOX

32004-B2 (GRAY)

BUSSMANN

OPT: ALL

MAP: D36

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP183H	8.0	GXL	RD	CLEAN PWR	---
C	SP183J	8.0	GXL	RD	CLEAN PWR	---

NOTES: 32004-TP2

75

ITEM: 36						
STARTER SOLENOID TRIGGER						
#10						
RING TERMINAL						
OPT: ALL						
MAP: E54						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP073	1.0	GXL	RD	STARTER SOL	---

NOTES:

ITEM: 5						
A/C PRESSURE SWITCH						
12010973						
PACKARD						
OPT: ALL						
MAP: A74						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN030	0.8	GXL	GY	A/C PRESS SIG	---
B	EN045	0.8	GXL	BK	ECU RET 1	---

NOTES:

ITEM: 67						
CLEAN POWER						
CN-02FMAX						
DILL BLOX						
OPT: ALL						
MAP: A44						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP183D	8.0	GXL	RD	CLEAN PWR	---
B	SP183E	8.0	GXL	RD	CLEAN PWR	---

NOTES: LK-02FMAX

ITEM: 9						
REVERSE WARNING ALARM						
12052641						
PACKARD						
OPT: ALL						
MAP: E83						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1092	0.8	GXL	OE	B/UP ALARM	---
B	SP006R	0.8	GXL	BK	COMMON GND	---

NOTES: TPA 12052634; INSTALL CAP 9a

ITEM: 10						
J1939 BACKBONE						
DT06-3S-P032						
DEUTSCH						
OPT: ALL						
MAP: D88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1187B	0.5	---	YW	J1939-15 POS	J1939-
B	SP1188B	0.5	---	DKGN	J1939-15 NEG	J1939-
C	PLUG	---	---	---	---	---

NOTES: WEDGE LOCK W3S 1939-P012 (BLUE).

ITEM: 11						
TERMINATION RESISTOR						
DT04-3P-P006						
DEUTSCH						
OPT: ALL						
MAP: E88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE

NOTES: WEDGE LOCK W3P 1939 (BLUE); ATTACH TO ITEM 10.

ITEM: 3						
LOW COOLANT PROBE						
12110293						
PACKARD						
OPT: ALL						
MAP: A81						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN992	0.8	GXL	PK	COOL SENS SUPPLY	TWT-17
B	EN993	0.8	GXL	TN	COOL SENS SIGNAL	TWT-17
C	EN994	0.8	GXL	BK	COOL SENS RETURN	TWT-17

NOTES: TPA 12052845; THESE WIRES TWISTED TO SPLICES 19 & 20. TWISTING IS NOT NEEDED AFTER THESE SPLICES.

ITEM: 6						
A/C CLUTCH						
15300027						
PACKARD						
OPT: ALL						
MAP: A76						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006K	1.0	GXL	BK	COMMON GND	---
B	SP007C	1.0	GXL	RD	AC CLT SW PWR	---

NOTES: TPA 15300014.

ITEM: 61						
BATTERY + BKBN ITEMS						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: A49						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP183A	5.0	TXL	RD	CLEAN PWR	---
A	SP183D	8.0	GXL	RD	CLEAN PWR	---

NOTES:

ITEM: 60						
BATTERY -						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: A51						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP185A	1.0	GXL	BK	CLEAN GND	---
A	SP185N	8.0	GXL	BK	CLEAN GND	---
A	SP185P	5.0	TXL	BK	CLEAN GND	---

NOTES:

ITEM: 31						
COMMON POWER						
12085030						
PACKARD						
OPT: ALL						
MAP: D62						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP184A	5.0	TXL	RD	BATTERY PWR	---
B	SP184B	5.0	TXL	RD	BATTERY PWR	---

NOTES:

ITEM: 27						
COMMON PWR						
CN-02FMAX						
DILL BLOX						
OPT: ALL						
MAP: D59						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP184D	8.0	GXL	RD	BATTERY PWR	---
B	SP184E	8.0	GXL	RD	BATTERY PWR	---

NOTES: LK-02FMAX

ITEM: 14						
ON/OFF FAN CLUTCH						
12015792						
PACKARD						
OPT: ALL						
MAP: E78						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP571B	1.0	GXL	PK	FAN ON/OFF	---
B	SP006N	1.0	GXL	BK	COMMON GND	---

NOTES: ECM FAN PROGRAMMING (0 VOLTS ON).

ITEM: 41						
CHASSIS GROUND						
1/2"						
RING TERMINAL						
OPT: ALL						
MAP: E50						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006A	5.0	GXL	BK	COMMON GND	---

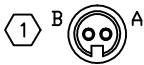
NOTES:

			ENGINEER:	TITLE:	DRAWING NUMBER:		
			DAVE SCHULTZ	HARN, BKBN ENG	3065-GG10		
			DRAWING BY:	CUMMINS ISM W/4000MH	PAGE:	4 OF 4	REV:
			ADAM SMITH				A
A INITIAL RELEASE			12/04/07	AJS			
REV:			REVISION DESCRIPTION	REVISION DATE	REVISION BY		

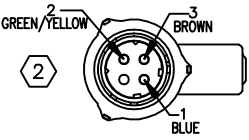


Spartan Chassis, Inc.
WORLD WIDE VEHICLES AND CHASSIS
1165 REYNOLDS RD.
CHARLOTTE, MICHIGAN 48813

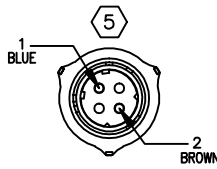
ITEM: 1				
RIGHT REAR WHEEL SPEED SENSOR				
340-001				
LEONI CABLE				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
A (BK)	SP255	BK	0.8 (18GA)	ABS 2 SENS R2
B (BN)	SP254	BN	0.8 (18GA)	ABS 2 SENS R1



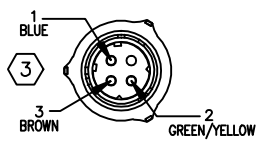
ITEM: 2				
RIGHT REAR ABS VALVE				
449 532 XXX 0				
WABCO				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
1	SP261	BE	1.0 (16GA)	ABS 2 VLV O/L R
2	SP259	GN/YW	1.0 (16GA)	ABS 2 VLV COM R
3	SP260	BN	1.0 (16GA)	ABS 2 VLV I/L R



ITEM: 5				
ATC VALVE				
449 415 XXX 0				
WABCO				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
1	SP743	BE	1.0 (16GA)	ABS ATC VLV APLY
2	SP744	BN	1.0 (16GA)	ABS ATC VLV COM



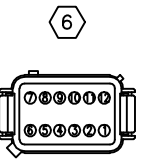
ITEM: 3				
LEFT REAR ABS VALVE				
449 413 XXX 0				
WABCO				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
1	SP258	BE	1.0 (16GA)	ABS 2 VLV O/L L
2	SP256	GN/YW	1.0 (16GA)	ABS 2 VLV COM L
3	SP257	BN	1.0 (16GA)	ABS 2 VLV I/L L



ITEM: 4				
LEFT REAR WHEEL SPD SENSOR				
340-001				
LEONI CABLE				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
A (BK)	SP253	BK	0.8 (18GA)	ABS 2 SENS L2
B (BN)	SP252	BN	0.8 (18GA)	ABS 2 SENS L1



ITEM: 6				
REAR AXLE ABS CONNECTOR				
DT06-12SC-B016 (GREEN)				
DEUTSCH				
CAVITY	CIRCUIT	COLOR	mm (GAUGE)	DESCRIPTION
1	SP253	BK	0.8 (18GA)	ABS 2 SENS L2
2	SP252	BN	0.8 (18GA)	ABS 2 SENS L1
3	SP255	BK	0.8 (18GA)	ABS 2 SENS R2
4	SP254	BN	0.8 (18GA)	ABS 2 SENS R1
5	SP743	BE	1.0 (16GA)	ABS ATC VLV APLY
6	SP744	BN	1.0 (16GA)	ABS ATC VLV COM
7	SP261	BE	1.0 (16GA)	ABS 2 VLV O/L R
8	SP259	GN/YW	1.0 (16GA)	ABS 2 VLV COM R
9	SP260	BN	1.0 (16GA)	ABS 2 VLV I/L R
10	SP258	BE	1.0 (16GA)	ABS 2 VLV O/L L
11	SP256	GN/YW	1.0 (16GA)	ABS 2 VLV COM L
12	SP257	BN	1.0 (16GA)	ABS 2 VLV I/L L



A INITIAL RELEASE		03/17/06	EDG	ENGINEER: KYLE FINKBEINER	TITLE: HARNESS-ABS REAR AXLE W/ATC	DRAWING NUMBER: 2666-GG10A	 Spartan Chassis, Inc. WORLD WIDE VEHICLES AND CHASSIS 1105 REYNOLDS RD. CHARLOTTE, MICHIGAN 48013
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY	DRAWING BY: ERIC GARNAAT		PAGE: 1 OF 1	

ITEM: 20						
ECM GROUND						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: A68						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP655A	3.0	GXL	BK	CLEAN GND	---

NOTES:

ITEM: 85						
ABS						
DT06-12SA-B016						
DEUTSCH						
OPT: ALL						
MAP: D31						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP004A	2.0	GXL	RD	IGN TO ABS ECU	---
2	SP004B	2.0	GXL	RD	IGN TO ABS ECU	---
3	SP201	0.8	GXL	GY	ATC SW TO ECU	---
4	SP209D	0.8	GXL	PK	J1587 POS	TWP-06
5	PLUG	---	---	---	---	---
6	SP1188F	0.5	---	DKGN	J1939-15 NEG	J1939-
7	SP1187F	0.5	---	YW	J1939-15 POS	J1939-
8	PLUG	---	---	---	---	---
9	SP210D	0.8	GXL	GY	J1587 NEG	TWP-06
10	SP515	0.8	GXL	GN	ABS BLINK IN	---
11	SP185T	2.0	GXL	BK	CLEAN GND	---
12	SP185U	2.0	GXL	BK	CLEAN GND	---

NOTES: WEDGELOCK W12S-P012.

ITEM: 1						
DIAGNOSTIC PORT						
HD10-9-1939P						
DEUTSCH						
OPT: ALL						
MAP: C88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP185A	1.0	GXL	BK	CLEAN GND	---
B	SP528B	1.0	GXL	RD	DATALINK PWR	---
C	SP1187A	0.5	---	YW	J1939-15 POS	J1939-
D	SP1188A	0.5	---	DKGN	J1939-15 NEG	J1939-
E	---	---	---	---	---	---
F	SP209A	0.8	GXL	PK	J1587 POS	TWP-06
G	SP210A	0.8	GXL	GY	J1587 NEG	TWP-06
H	---	---	---	---	---	---
J	---	---	---	---	---	---

NOTES: HDC16-9 (CAP); 1847-NN1-001 (TETHER); HD18-009 (STRAIN RELF).

ITEM: 45						
PARTICULATE FILTER INTERFACE						
DTM06-08SA						
DEUTSCH						
OPT: ALL						
MAP: A71						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN067	0.8	GXL	PK	PFT SENSOR 1 INLET	---
2	EN068	0.8	GXL	YW	PFT SENSOR 2 MID	---
3	EN069	0.8	GXL	BE	PFT SENSOR 3 OUTLET	---
4	EN064	0.8	GXL	BK	ECM RET TEMP LVL D	---
5	EN1006	0.8	GXL	OE	SENSOR SUPPLY 5V	TWT-19
6	EN1007	0.8	GXL	PE	CSF DELTA PRESS SEN	TWT-19
7	EN1008	0.8	GXL	BK	ECM RET SEN	TWT-19
8	PLUG	---	---	---	---	---

NOTES: TPA WM-8S

ITEM: 91						
ENGINE SPEED SENSOR						
13520101						
DELPHI						
OPT: ALL						
MAP: A24						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT159	0.8	TXL	TN	ENGINE SPEED HIGH	TWP-27
B	AT139	0.8	TXL	OE	ENGINE SPEED LOW	TWP-27

NOTES: CPA: 15496486, CONVOLUTE CAPTRE: 15358890, TERMINAL: 15326267, SEAL:15305351.

ITEM: 92						
TURBINE SPEED SENSOR						
13520101						
DELPHI						
OPT: ALL						
MAP: A22						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT180	0.8	TXL	OE	TURBINE SPEED HIGH	TWP-26
B	AT120	0.8	TXL	BE	TURBINE SPEED LOW	TWP-26

NOTES: CPA: 15496486, CONVOLUTE CAPTURE: 15358890, TERMINAL: 15326267, SEAL: 15305351.

ITEM: 96						
REAR LIGHTING INTERFACE						
FCI APEX						
54201012 (LIGHT GREEN)						
OPT: ALL						
MAP: A12						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP015	2.0	GXL	PK	B/UP LT ACTIVE	---
2	SP972	5.0	TXL	RD	TRLR BATT CHARGE	---
3	SP1054	0.8	GXL	BN	MRKR LTS REAR	---
4	SP766	2.0	GXL	BN	TRLR MRKR LT	---
5	SP1081	0.8	GXL	RD	STOP LTS	---
6	SP1085	2.0	GXL	RD	TRLR STOP LT	---
7	SP1091	0.8	GXL	YW	INPUT L STP/TRN OR T	---
8	SP1089	2.0	GXL	YW	TRLR L STP/TRN OR TR	---
9	SP1090	0.8	GXL	DKGN	INPUT R STP/TRN OR T	---
10	SP1088	2.0	GXL	DKGN	TRLR R STP/TRN OR TR	---

NOTES:

ITEM: 97						
CHASSIS INTERFACE A						
FCI APEX						
54201415 (BLACK)						
OPT: ALL						
MAP: B11						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP053	2.0	GXL	RD	BATTPOS/IGN SW	---
2	AT125	0.8	TXL	TN	SPEEDOMETER SIGNAL	---
3	AT134	0.8	TXL	YW	DIRECTION SIGNAL	---
4	---	---	---	---	---	---
5	AT110D	1.0	GXL	PK	TCM CLEAN PWR	---
6	AT163D	0.8	GXL	YW	IGNITION SIG	---
7	AT169D	1.0	GXL	GY	TCM CLEAN GND	---
8	EN058	0.8	GXL	YW	ACCRTN POSN SEN 1 SC	TWT-15
9	EN059	0.8	GXL	GY	ACCRTN POSN SEN 1	TWT-15
10	EN060	0.8	GXL	BK	ACCRTN POSN SEN 1 RE	TWT-15
11	EN061	0.8	GXL	OE	SENSOR SUPPLY 5 V	TWT-16
12	EN062	0.8	GXL	BE	ACCRTN POSN SEN 2	TWT-16
13	EN063	0.8	GXL	BK	ECM RETURN SEN	TWT-16
14	SP1031	0.8	GXL	YW	SPARE 1	---

NOTES:

ITEM: 98						
CHASSIS INTERFACE B						
FCI APEX						
54201418 (NATURAL)						
OPT: ALL						
MAP: D11						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP183P	5.0	TXL	RD	CLEAN PWR	---
2	SP056	0.8	GXL	PK	START SIGNAL	---
3	SP007A	0.8	GXL	RD	AC CLT SW PWR	---
4	SP055	0.8	GXL	PK	IGNITION SW	---
5	SP201	0.8	GXL	GY	ATC SW TO ECU	---
6	SP528A	1.0	GXL	RD	DATALINK PWR	---
7	SP185P	5.0	TXL	BK	CLEAN GND	---
8	PLUG	---	---	---	---	---
9	SP209F	0.8	GXL	PK	J1587 POS	TWP-06
10	SP210F	0.8	GXL	GY	J1587 NEG	TWP-06
11	SP1187J	0.5	---	YW	J1939-15 POS	J1939-
12	SP1188J	0.5	---	DKGN	J1939-15 NEG	J1939-
13	SP681	0.8	GXL	GY	BATT BOOST	---
14	SP1032	0.8	GXL	YW	SPARE 2	---

NOTES:

				ENGINEER:	TITLE:	DRAWING NUMBER:	Spartan Chassis, Inc.  WORLD WIDE VEHICLES AND CHASSIS 1165 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	
				DAVE SCHULTZ	HARN, BKBN ENG	3065-GG10		
				DRAWING BY:	CUMMINS ISM W/4000MH	PAGE:		
A	INITIAL RELEASE	12/04/07	AJS	ADAM SMITH		2 OF 4	REV:	A
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY					

ITEM: 78

BUSSMANN BOX

32004-A2 (BLACK)

BUSSMANN

OPT: ALL

MAP: C41

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
C	SP183B	5.0	TXL	RD	CLEAN PWR	---

NOTES: 32004-TP2

78

ITEM: 79

BUSSMANN BOX

32006-D22 (BLUE)

BUSSMANN

OPT: ALL

MAP: C43

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1091	0.8	GXL	YW	INPUT L STP/TRN OR T	---
B	SP766	2.0	GXL	BN	TRLR MRKR LT	---
C	SP1054	0.8	GXL	BN	MRKR LTS REAR	---
D	SP1081	0.8	GXL	RD	STOP LTS	---
E	SP006D	0.8	GXL	BK	COMMON GND	---
F	SP055	0.8	GXL	PK	IGNITION SW	---
G	AT110A	3.0	GXL	PK	TCM CLEAN PWR	---
H	AT170A	3.0	GXL	PK	TCM CLEAN PWR	---

NOTES: 32006-TP2

79

ITEM: 80

BUSSMANN BOX

32006-E22 (YELLOW)

BUSSMANN

OPT: ALL

MAP: D43

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---
C	PLUG	---	---	---	---	---
D	PLUG	---	---	---	---	---
E	SP528A	1.0	GXL	RD	DATALINK PWR	---
F	SP528B	1.0	GXL	RD	DATALINK PWR	---
G	PLUG	---	---	---	---	---
H	PLUG	---	---	---	---	---

NOTES: 32006-TP2

80

ITEM: 81

BUSSMANN BOX

32006-F22 (RED)

BUSSMANN

OPT: ALL

MAP: D41

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP004A	2.0	GXL	RD	IGN TO ABS ECU	---
B	SP004B	2.0	GXL	RD	IGN TO ABS ECU	---
C	SP183P	5.0	TXL	RD	CLEAN PWR	---
D	AT110D	1.0	GXL	PK	TCM CLEAN PWR	---
E	PLUG	---	---	---	---	---
F	EN439	0.8	GXL	PK	CLEAN IGN	---
G	AT163A	0.8	TXL	YW	IGNITION SIG	---
H	AT163D	0.8	GXL	YW	IGNITION SIG	---

NOTES: 32006-TP2

81

ITEM: 82

BUSSMANN BOX

32006-B22 (GRAY)

BUSSMANN

OPT: ALL

MAP: D39

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1085	2.0	GXL	RD	TRLR STOP LT	---
B	SP1090	0.8	GXL	DKGN	INPUT R STP/TRN OR T	---
C	SP015	2.0	GXL	PK	B/UP LT ACTIVE	---
D	AT165	0.8	TXL	TN	REVERSE WARNING	---
E	SP515	0.8	GXL	GN	ABS BLINK IN	---
F	SP1092	0.8	GXL	OE	B/UP ALARM	---
G	SP1089	2.0	GXL	YW	TRLR L STP/TRN OR TR	---
H	SP1088	2.0	GXL	DKGN	TRLR R STP/TRN OR TR	---

NOTES: 32006-TP2

82

ITEM: 14a

ON/OFF FAN CLUTCH CAP

12010973

PACKARD

OPT: ALL

MAP: E74

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---

NOTES: ATTACH TO ITEM 14

14A

ITEM: 76

BUSSMANN BOX

32004-A2 (BLACK)

BUSSMANN

OPT: ALL

MAP: D38

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
C	SP184E	8.0	GXL	RD	BATTERY PWR	---

NOTES: 32004-TP2

76

ITEM: 77

BUSSMANN BOX

32004-B2 (GRAY)

BUSSMANN

OPT: ALL

MAP: D39

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
C	SP184B	5.0	TXL	RD	BATTERY PWR	---

NOTES: 32004-TP2

77

76

ITEM: 71

BUSSMANN BOX

32006-H22 (BROWN)

BUSSMANN

OPT: ALL

MAP: D38

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP007A	0.8	GXL	RD	AC CLT SW PWR	---
B	AT141	0.8	TXL	TN	NEUTRAL START	---
C	SP053	2.0	GXL	RD	BATTPOS/IGN SW	---
D	PLUG	---	---	---	---	---
E	SP007B	1.0	GXL	RD	AC CLT SW PWR	---
F	SP073	1.0	GXL	RD	STARTER SOL	---
G	SP056	0.8	GXL	PK	START SIGNAL	---
H	PLUG	---	---	---	---	---

NOTES: 32006-TP2

71

ITEM: 72

BUSSMANN BOX

32006-C22 (GREEN)

BUSSMANN

OPT: ALL

MAP: D36

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	SP657	1.0	GXL	RD	FUEL/WATER SEP (+)	---
C	SP681	0.8	GXL	GY	BATT BOOST	---
D	PLUG	---	---	---	---	---
E	SP972	5.0	TXL	RD	TRLR BATT CHARGE	---
F	EN1005	0.8	GXL	BK	ECM RET GEN F	TWP-38
G	SP571A	1.0	GXL	PK	FAN ON/OFF	---
H	SP011	1.0	GXL	RD	AIR DRYER PWR	---

NOTES: 32006-TP2

72

ITEM: 73

BUSSMANN BOX

32006-A22 (BLACK)

BUSSMANN

OPT: ALL

MAP: D34

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---
C	EN1004	0.8	GXL	PK	STARTER LOCKOUT	TWP-38
D	PLUG	---	---	---	---	---
E	PLUG	---	---	---	---	---
F	PLUG	---	---	---	---	---
G	PLUG	---	---	---	---	---
H	PLUG	---	---	---	---	---

NOTES: 32006-TP2

73

ITEM: 74

BUSSMANN BOX

32006-G22 (ORANGE)

BUSSMANN

OPT: ALL

MAP: D34

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---
C	PLUG	---	---	---	---	---
D	PLUG	---	---	---	---	---
E	EN240A	5.0	TXL	RD	BATT POS	---
F	EN240B	5.0	TXL	RD	BATT POS	---
G	EN998	0.8	GXL	PK	FAN CONTROL OUTPUT	TWP-35
H	EN999	0.8	GXL	BK	ECM RET GEN E	TWP-35

NOTES: 32006-TP2

74

ITEM: 75

BUSSMANN BOX

32004-B2 (GRAY)

BUSSMANN

OPT: ALL

MAP: D36

CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP183H	8.0	GXL	RD	CLEAN PWR	---
C	SP183J	8.0	GXL	RD	CLEAN PWR	---

NOTES: 32004-TP2

75

ITEM: 36						
STARTER SOLENOID TRIGGER						
#10						
RING TERMINAL						
OPT: ALL						
MAP: E54						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP073	1.0	GXL	RD	STARTER SOL	---

NOTES:

ITEM: 5						
A/C PRESSURE SWITCH						
12010973						
PACKARD						
OPT: ALL						
MAP: A74						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN030	0.8	GXL	GY	A/C PRESS SIG	---
B	EN045	0.8	GXL	BK	ECU RET 1	---

NOTES:

ITEM: 67						
CLEAN POWER						
CN-02FMAX						
DILL BLOX						
OPT: ALL						
MAP: A44						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP183D	8.0	GXL	RD	CLEAN PWR	---
B	SP183E	8.0	GXL	RD	CLEAN PWR	---

NOTES: LK-02FMAX

ITEM: 9						
REVERSE WARNING ALARM						
12052641						
PACKARD						
OPT: ALL						
MAP: E83						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1092	0.8	GXL	OE	B/UP ALARM	---
B	SP006R	0.8	GXL	BK	COMMON GND	---

NOTES: TPA 12052634; INSTALL CAP 9a

ITEM: 10						
J1939 BACKBONE						
DT06-3S-P032						
DEUTSCH						
OPT: ALL						
MAP: D88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1187B	0.5	---	YW	J1939-15 POS	J1939-
B	SP1188B	0.5	---	DKGN	J1939-15 NEG	J1939-
C	PLUG	---	---	---	---	---

NOTES: WEDGE LOCK W3S 1939-P012 (BLUE).

ITEM: 11						
TERMINATION RESISTOR						
DT04-3P-P006						
DEUTSCH						
OPT: ALL						
MAP: E88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE

NOTES: WEDGE LOCK W3P 1939 (BLUE); ATTACH TO ITEM 10.

ITEM: 3						
LOW COOLANT PROBE						
12110293						
PACKARD						
OPT: ALL						
MAP: A81						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN992	0.8	GXL	PK	COOL SENS SUPPLY	TWT-17
B	EN993	0.8	GXL	TN	COOL SENS SIGNAL	TWT-17
C	EN994	0.8	GXL	BK	COOL SENS RETURN	TWT-17

NOTES: TPA 12052845; THESE WIRES TWISTED TO SPLICES 19 & 20. TWISTING IS NOT NEEDED AFTER THESE SPLICES.

ITEM: 6						
A/C CLUTCH						
15300027						
PACKARD						
OPT: ALL						
MAP: A76						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006K	1.0	GXL	BK	COMMON GND	---
B	SP007C	1.0	GXL	RD	AC CLT SW PWR	---

NOTES: TPA 15300014.

ITEM: 61						
BATTERY + BKBN ITEMS						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: A49						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP183A	5.0	TXL	RD	CLEAN PWR	---
A	SP183D	8.0	GXL	RD	CLEAN PWR	---

NOTES:

ITEM: 60						
BATTERY -						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: A51						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP185A	1.0	GXL	BK	CLEAN GND	---
A	SP185N	8.0	GXL	BK	CLEAN GND	---
A	SP185P	5.0	TXL	BK	CLEAN GND	---

NOTES:

ITEM: 31						
COMMON POWER						
12085030						
PACKARD						
OPT: ALL						
MAP: D62						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP184A	5.0	TXL	RD	BATTERY PWR	---
B	SP184B	5.0	TXL	RD	BATTERY PWR	---

NOTES:

ITEM: 27						
COMMON PWR						
CN-02FMAX						
DILL BLOX						
OPT: ALL						
MAP: D59						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP184D	8.0	GXL	RD	BATTERY PWR	---
B	SP184E	8.0	GXL	RD	BATTERY PWR	---

NOTES: LK-02FMAX

ITEM: 14						
ON/OFF FAN CLUTCH						
12015792						
PACKARD						
OPT: ALL						
MAP: E78						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP571B	1.0	GXL	PK	FAN ON/OFF	---
B	SP006N	1.0	GXL	BK	COMMON GND	---

NOTES: ECM FAN PROGRAMMING (0 VOLTS ON).

ITEM: 41						
CHASSIS GROUND						
1/2"						
RING TERMINAL						
OPT: ALL						
MAP: E50						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006A	5.0	GXL	BK	COMMON GND	---

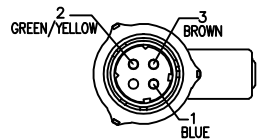
NOTES:

				ENGINEER:	TITLE:	DRAWING NUMBER:	
				DAVE SCHULTZ	HARN, BKBN ENG	3065-GG10	
				DRAWING BY:	CUMMINS ISM W/4000MH	PAGE:	REV:
				ADAM SMITH		4 OF 4	A
INITIAL RELEASE				12/04/07	AJS	Spartan Chassis, Inc.	
REVISION DESCRIPTION				REVISION DATE	REVISION BY	WORLD WIDE VEHICLES AND CHASSIS 1165 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813	



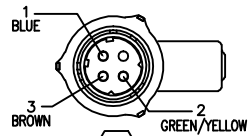
1

ITEM: 1				
FRONT RIGHT WHEEL SPD SENSOR				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A (BK)	SP243	BK	0.8	ABS 1 SENS R2
B (BN)	SP242	BN	0.8	ABS 1 SENS R1



2

ITEM: 2				
FRONT RIGHT ABS VALVE				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP249	BE	1.0	ABS 1 VLV O/L R
2	SP247	GN/YW	1.0	ABS 1 VLV COM R
3	SP248	BN	1.0	ABS VLV I/L R



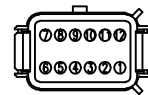
3

ITEM: 3				
FRONT LEFT ABS VALVE				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	SP246	BE	1.0	ABS 1 VLV O/L L
2	SP244	GN/YW	1.0	ABS 1 VLV COM L
3	SP245	BN	1.0	ABS 1 VLV I/L L



4

ITEM: 4				
FRONT LEFT WHEEL SPD SENSOR				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
A (BK)	SP240	BK	0.8	ABS 1 SENS L2
B (BN)	SP241	BN	0.8	ABS 1 SENS L1



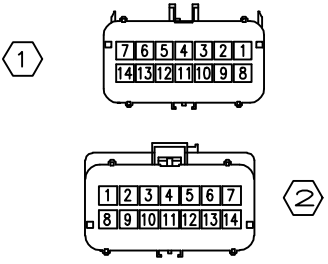
5

ITEM: 5				
FRONT AXLE ABS CONNECTOR				
CAVITY	CIRCUIT	COLOR	GAUGE	DESCRIPTION
1	PLUG	--	--	---
2	SP245	BN	1.0	ABS 1 VLV I/L L
3	SP249	BE	1.0	ABS 1 VLV O/L R
4	SP248	BN	1.0	ABS VLV I/L R
5	SP242	BN	0.8	ABS 1 SENS R1
6	SP243	BK	0.8	ABS 1 SENS R2
7	SP240	BK	0.8	ABS 1 SENS L2
8	SP241	BN	0.8	ABS 1 SENS L1
9	SP247	GN/YW	1.0	ABS 1 VLV COM R
10	SP246	BE	1.0	ABS 1 VLV O/L L
11	SP244	GN/YW	1.0	ABS 1 VLV COM L
12	PLUG	--	--	---

A INITIAL RELEASE		03/16/06	EDG	ENGINEER: KYLE FINKBEINER	TITLE: HARN ABS FRONT AXLE	DRAWING NUMBER: 2665-GG10A	 Spartan Chassis, Inc. WORLD WIDE VEHICLES AND CHASSIS 1105 REYNOLDS RD. CHARLOTTE, MICHIGAN 48813
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY	DRAWING BY: ERIC GARNAAT		PAGE: 1 OF 1	

ITEM: 1						
INPUT FROM CHASSIS HARNESS						
54201418 (NAUTRAL)						
FCI APEX 2.8 SERIES						
OPT: ALL						
MAP: A15						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP094A	2.0	TXL	RD	WIPER POWER	---
2	SP095A	2.0	TXL	PE	WIPER LOW	---
3	SP096A	2.0	TXL	GY	WIPER HIGH	---
4	SP098	1.0	TXL	RD	WASHER	---
5	SP384A	1.0	TXL	GY	WIPER PARK L	---
6	SP006A	3.0	TXL	BK	COMMON GND	---
7	PLUG	---	---	---	---	---
8	PLUG	---	---	---	---	---
9	PLUG	---	---	---	---	---
10	PLUG	---	---	---	---	---
11	PLUG	---	---	---	---	---
12	PLUG	---	---	---	---	---
13	PLUG	---	---	---	---	---
14	PLUG	---	---	---	---	---

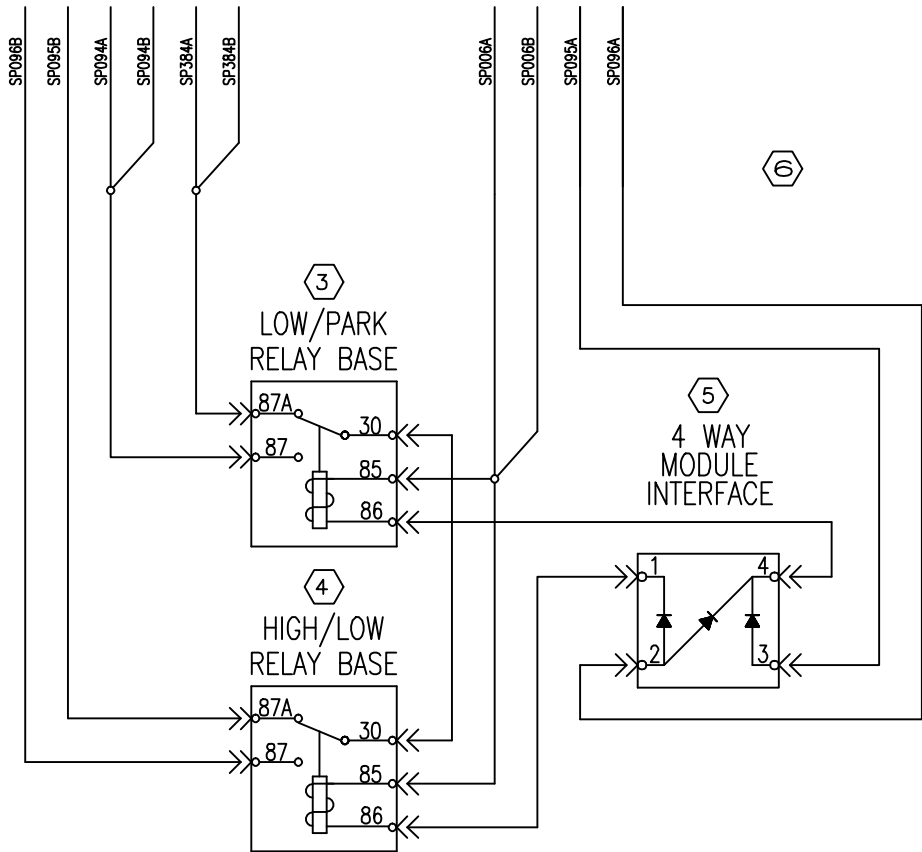
NOTES: CAVITY PLUG P/N 54200005



ITEM: 2						
OUTPUT TO CUSTOMER HARNESS						
54201414 (NAUTRAL)						
FCI APEX 2.8 SERIES						
OPT: ALL						
MAP: A10						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP094B	2.0	TXL	RD	WIPER POWER	---
2	SP095B	2.0	TXL	PE	WIPER LOW	---
3	SP096B	2.0	TXL	GY	WIPER HIGH	---
4	SP098	1.0	TXL	RD	WASHER	---
5	SP384B	1.0	TXL	GY	WIPER PARK L	---
6	SP006B	3.0	TXL	BK	COMMON GND	---
7	PLUG	---	---	---	---	---
8	PLUG	---	---	---	---	---
9	PLUG	---	---	---	---	---
10	PLUG	---	---	---	---	---
11	PLUG	---	---	---	---	---
12	PLUG	---	---	---	---	---
13	PLUG	---	---	---	---	---
14	PLUG	---	---	---	---	---

NOTES: CAVITY PLUG P/N 54200005

DETAIL A
HARNESS TO
MODULE INTERFACE
SEE ITEM: 6

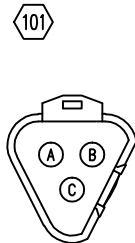
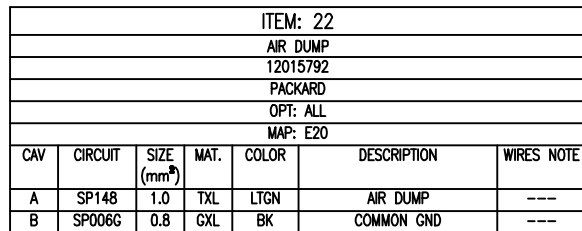


ITEM: 6						
HARNESS TO MODULE INTERFACE						
(BLACK POTTED BOX)						
VARIOUS BRANDS						
OPT: ALL						
MAP: B12						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP094A	2.0	TXL	RD	WIPER POWER	---
2	SP094B	2.0	TXL	RD	WIPER POWER	---
3	SP095A	2.0	TXL	PE	WIPER LOW	---
4	SP095B	2.0	TXL	PE	WIPER LOW	---
5	SP096A	2.0	TXL	GY	WIPER HIGH	---
6	SP096B	2.0	TXL	GY	WIPER HIGH	---
7	SP384A	1.0	TXL	GY	WIPER PARK L	---
8	SP384B	1.0	TXL	GY	WIPER PARK L	---
9	SP006A	3.0	TXL	BK	COMMON GND	---
10	SP006B	3.0	TXL	BK	COMMON GND	---

NOTES: SEE DETAIL A

NOTES: ATTACH TEMPORARY YELLOW CAP TO ITEM A1. USE SOLID DEUTSCH TERMINALS ONLY

NOTES: ATTACH TEMPORARY YELLOW CAP TO ITEM B2. USE SOLID DEUTSCH TERMINALS ONLY



ITEM: 22A	
CAP	
PACKARD	
12010973	
CAVITY	CIRCUIT
A	PLUG
B	PLUG

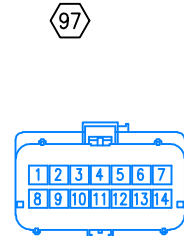
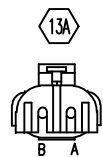
NOTE: ATTACH ITEM
22A TO 22

ITEM: 23A	
CAP	
12015792	
PACKARD	
CAVITY	CIRCUIT
A	PLUG
B	PLUG

NOTE: ATTACH ITEM
23A TO 23

ITEM: 23						
AIR FILL						
12010973						
PACKARD						
OPT: ALL						
MAP: E19						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP149	1.0	TXL	LTBE	AIR FILL	---
B	SP006H	0.8	GXL	BK	COMMON GND	---

ITEM: 13A	
CAP	
12015792	
PACKARD	
CAVITY	CIRCUIT
A	PLUG
B	PLUG

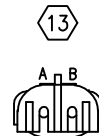


ITEM: 47						
ENGINE BACK BONE INTERFACE A						
54201411 (BLACK)						
FCI APEX 2.8						
OPT: ALL						
MAP: A5						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP053	2.0	TXL	RD	BATTPOS/IGN SW	---
2	AT125	0.8	GXL	TN	SPEEDOMETER SIGNAL	---
3	AT134	0.8	GXL	YW	DIRECTION SIGNAL	---
4	AT105	0.8	TXL	OE	OUTPUT SPEED INDICAT	---
5	AT110	1.0	TXL	PK	TCM CLEAN PWR	---
6	AT163	0.8	GXL	YW	IGNITION SIG	---
7	AT169	1.0	TXL	GY	TCM CLEAN GND	---
8	EN058	0.8	TXL	YW	ACCRTN POSN SEN 1 SC	TWT-15
9	EN059	0.8	TXL	GY	ACCRTN POSN SEN 1	TWT-15
10	EN060	0.8	TXL	BK	ACCRTN POSN SEN 1 RE	TWT-15
11	EN061	0.8	TXL	OE	SENSOR SUPPLY 5 V	TWT-16
12	EN062	0.8	TXL	BE	ACCRTN POSN SEN 2	TWT-16
13	EN063	0.8	TXL	BK	ECM RETURN SEN	TWT-16
14	SP1031	0.8	GXL	YW	SPARE 1	---

ITEM: 101						
J-1939 FOR VORAD						
DT04-3P-E008						
DEUTSCH						
OPT: ALL						
MAP: E12						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRE NOTES
A	SP1187D	0.8	GXL	YW	J1939-15 POS	J1939-
B	SP1188D	0.8	GXL	DKGN	J1939-15 NEG	J1939-
C	PLUG	---	---	---	---	---

LOCK: BUSH (GREEN) ALSO HEAT SHRINK OVER CONNECTOR TO CABLE

ITEM: 13						
MOISTURE EJECTOR						
12010973						
PACKARD						
OPT: ALL						
MAP: A14						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP066B	2.0	TXL	RD	MOIST EJECT PWR	---
2	SP006D	2.0	TXL	BK	COMMON GND	---



ITEM: 1						
MAIN CHASSIS HARNESS INTERCONNECT						
HDP26-24-23SE						
DEUTSCH						
OPT: ALL						
MAP: A15						
CW	CIRCUIT	SIZE (mm ²)	WAT.	COLOR	DESCRIPTION	WIRE NOTES
A	SP1031	0.8	GXL	YW	SPARE 1	---
B	AT110	0.8	TYL	PK	TCM CLEAN PWR	---
C	AT134	0.8	TYL	YW	DIRECTION SIG	---
D	AT163	0.8	TYL	YW	IGNITION SIG	---
E	AT169	0.8	TYL	GY	TCM CLEAN GND	---
F	PLUG	---	---	---	---	---
G	EN068	0.8	TYL	YW	ACCRN POSN SEN 1 SC	TW-15
H	SP009	0.8	GXL	RD	DSH LP PWR	---
J	PLUG	---	---	---	---	---
K	EN063	0.8	TYL	BK	ECM RETURN SEN	TW-16
L	SP053	2.0	GXL	RD	BATTPOS/IGN SW	---
M	SP055	2.0	GXL	PK	IGNITION SW	---
N	SP056	2.0	GXL	PK	START SIGNAL	---
O	EN061	0.8	TYL	OE	SENSOR SUPPLY 5 V	TW-16
P	EN062	0.8	TYL	BE	ACCRN POSN SEN 2	TW-16
Q	SP054	1.0	GXL	PK	IGN SW/ACC RLY	---
R	SP1187A	0.8	GXL	YW	J1939-15 POS	J1939-15
S	SP1188A	0.8	GXL	DKGN	J1939-15 NEG	J1939-15
T	EN060	0.8	TYL	BK	ACCRN POSN SEN 1 RE	TW-15
U	EN059	0.8	TYL	GY	ACCRN POSN SEN 1	TW-15
V	PLUG	---	---	---	---	---
W	SP1187C	0.8	GXL	YW	J1939-15 POS	J1939-15
X	SP1188C	0.8	GXL	DKGN	J1939-15 NEG	J1939-15

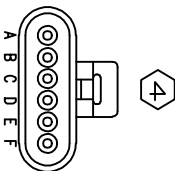
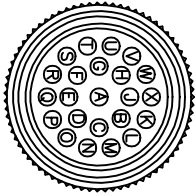
NOTES: ATTACH RED SHIPPING CAP P/N EC-25. USE SOLID DEUTSCH TERMINALS ONLY

ITEM: 2						
TO TRANS SHIFT PAD						
12191065						
PACKARD						
OPT: ALL						
MAP: A13						
CANV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	PLUG	----	----	----	----	----
2	PLUG	----	----	----	----	----
3	SP009	0.8	GXL	RD	DSH LP PWR	----
4	PLUG	----	----	----	----	----
5	A1169	0.8	TXL	GY	TOM CLEAN GND	----
6	PLUG	----	----	----	----	----
7	PLUG	----	----	----	----	----
8	SP1187B	0.8	GXL	YW	J1939-15 POS	J1939-15
9	PLUG	----	----	----	----	----
10	PLUG	----	----	----	----	----
11	A1134	0.8	TXL	YW	DIRECTION SIGNAL	----
12	A1163	0.8	TXL	YW	IGNITION SIG	----
13	A1110	0.8	TXL	PK	TOM CLEAN PWR	----
14	PLUG	----	----	----	----	----
15	SP1188B	0.8	GXL	DKGN	J1939-15 NEG	J1939-15
16	PLUG	----	----	----	----	----

NOTES: SEAL 12191066, TRA 12191067, CPA LOCK 12191068, STRAIN RELIEF 12191068, TERMINAL 12084912, CANV1 PLUG 121299557

ITEM: 4			
CUMMINS THROTTLE W/ WILLIAMS PEDALS			
12066317			
PACKARD			
OP: -001, -002, -003			
MAP: B7			
CAV	CIRCUIT	SIZE (mm ²)	WIRE NOTES
A	EN059	0.8 TXL	GR ACCTRN POSN SEN 1 TW-15
B	EN060	0.8 TXL	BK ACCTRN POSN SEN 1 RE TW-15
C	EN058	0.8 TXL	YW ACCTRN POSN SEN 1 SC TW-15
D	EN061	0.8 TXL	OE SENSOR SUPPLY 5 V TW-16
E	EN063	0.8 TXL	BK ECM RETURN SEN TW-16
F	EN062	0.8 TXL	BE ACCTRN POSN SEN 2 TW-16

ITEM: 4						
CUMMINS THROTTLE W/ TELE FLEX PEDALS						
12066317						
PACKARD						
OPI: -004, -005, -006						
MAP: 86						
CW	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRE NOTES
A	EN059	0.8	TYL	GY	ACCRN POSN SEN 1	TW-15
B	EN060	0.8	TYL	BK	ACCRN POSN SEN 1 RE	TW-15
C	EN068	0.8	TYL	YW	ACCRN POSN SEN 1 SC	TW-15
D	EN061	0.8	TYL	OE	SENSOR SUPPLY 5 V	TW-16
E	EN062	0.8	TYL	BE	ACCRN POSN SEN 2	TW-16
F	EN063	0.8	TYL	BK	ECM RETURN SEN	TW-16



ITEM: 6						
KEY SWITCH						
D106-65						
DEUTSCH						
OPI: ALL						
MAP: 06						
CNV	CIRCUIT	SIZE (mm)	MAT.	COLOR	DESCRIPTION	WIRE NOTES
1	SP053	2.0	GXL	RD	BATTPOS/IGN SW	---
2	SP056	2.0	GXL	PK	START SIGNAL	---
3	SP064	1.0	GXL	PK	IGN SW/ACC RLY	---
4	PLUG	---	---	---	---	---
5	SP055	2.0	GXL	PK	IGNITION SW	---
6	PLUG	---	---	---	---	---

NOTES: WREDDLOCK WBS-P012

	ENGINEER:	B. CASE	TITLE:	HARNES- 2009 RUN/START	DRAWING NUMBER:	3093-GG10
	DRAWING BY:	M. HAIGH		SEALED KEY SW W/ CUMMINS	PAGE:	PAGE 1 OF 1
REV:	REVISION DESCRIPTION	REVISION DATE	REVISION BY		REV:	A

Spartan Chassis, Inc.



WORLD TRUCK REPAIRS AND CHASSIS
1166 KENTON RD.
CHARLOTTE, NC 28204