



spartan motors inc.

CUSTOM BUILT VEHICLES AND CHASSIS

p.o. box 440 1000 reynolds road charlotte, michigan 48813

phone (517) 543-6400

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ISSUE 1-1-77

SO#22 AND AFT

CIRCUIT NO. ASSIGNMENT

| COLOR | GAGE | CIRCUIT # LEGEND | FUNCTION DESCRIPTION |
|--------|----------|------------------|--|
| | 16 | 1 AIR SYS #1 | AIR SYS #1 WARNING LIGHT TO SWITCH |
| | 16 | 2 AIR SYS #2 | AIR SYS #2 WARNING LIGHT TO SWITCH |
| | 14 | 3 REGULATOR NEG | ALTERNATOR NEG TO REGULATOR NEG |
| | 14 | 4 FIELD POS | ALT FIELD POS TO REG & RELAY POS |
| | 14 | 5 FIELD NEG | ALT FIELD NEG TO REG NEG |
| | 16 | 6 COOL TEMP L GT | TEMP WARNING LIGHT TO SWITCH-ENG. COOLANT |
| | 16 | 7 OIL PRESS LGT | OIL WARNING LIGHT TO SWITCH-ENG. PRESSURE |
| | 16 | 8 BRAKE BUFFER | ENG BRAKE SWITCH TO BUFFER SWITCH |
| | 14 | 9 ENG SHUTDOWN | ENG SHUTDOWN SWITCH TO SOL (DETROIT DEISEL) |
| GREEN | 14 | 10 TURN & STOP R | TURN & STOP RIGHT REAR |
| YELLOW | 14 | 11 TURN & STOP L | TURN & STOP LEFT REAR |
| BLUE | 14 | 12 RIGHT TURN F | TURN RIGHT - FRONT |
| WHITE | 14 | 13 LEFT TURN F | TURN LEFT - FRONT |
| | 16 TO3-0 | 14 GROUND | COMMON GROUND |
| | 16 | 15 ENG OIL GA | OIL GAUGE TO SENDER - ENG. PRESSURE |
| | 16 | 16 FUEL GA SEND | FUEL GAUGE TO TANK SENDER |
| | 16 | 17 COOL TEMP GA | WATER TEMP GAUGE TO SENDER - ENG COOLANT |
| BROWN | 14 | 18 TAIL ID LGT | TAIL & MARKER LAMPS |
| | 14 | 19 STARTER FEED | STARTER BUTTON FEED (AUTO FROM NEUTRAL SAFETY SWITCH) |
| | 14 | 20 START SOL L | STARTER #1 BUTTON TO SOL #1 |
| | 14 | 21 START SOL R | STARTER #2 BUTTON TO SOL #2 |
| BLUE | 14 | 22 BACK UP | BACK UP LIGHT & ALARM |
| | 16 | 23 SPEEDO NEG | SPEEDOMETER-NEG FROM SENDER (BLACK) |
| | 16 | 24 SPEEDO POS | SPEEDOMETER-POS FROM SENDER (WHITE) |
| | 14 | 25 TACH GND | TACHOMETER FEED FROM SENDER NEG |
| | 14 | 26 TACH SIGNAL | TACHOMETER FEED FROM SENDER SIGNAL |
| RED | 14 | 27 STOP SW FEED | STOP LIGHTS-FEED TO COLUMN |
| | 14 | 28 IGN TO REG | ALT. RELAY-FEED POWER SWITCHED |
| | 14 | 29 EXTRA LAMP | CAB TO REAR FOR SEPARATE STOP TURN LAMPS |
| | 14 | 30 EXTRA LAMP | CAB TO REAR FOR SEPARATE STOP TURN LAMPS |
| | 16 | 31 INST LAMP | INST (OFF DIMMER SIDE HD LT SW) DASH INST LAMPS |
| | 16 | 32 TRANS T / GA | TRANS TEMP GAUGE TO SENDER |
| | 16 | 33 TRANS P / GA | TRANS OIL PRESSURE GAUGE TO SENDER |
| | 16 | 34 VOLTMETER | VOLTEMETER FEED FROM LIVE FUSE BLOCK |
| | 14 | 35 FUEL SOL | FUEL SOL-ACC FUSE BLOCK OR IGN SWITCH (CUMM. OR CAT ENG) |
| ORANGE | 12 | 36 HEATER HIGH | HEATER-HIGH SPEED SWITCH TO FAN |
| RED | 12 | 37 HEATER LOW | HEATER-LOW SPEED SWITCH TO FAN |
| | 14 | 38 DEFROSTER HI | DEFROSTER-HIGH SPEED |
| | 14 | 39 DEFROSTER LOW | DEFROSTER-LOW SPEED |
| | 16 | 40 INST POWER | INST FEED |
| | 12 | 41 BEACON LEFT | BEACON-ROOF TO SWITCH |
| | 14 | 42 HORN-POWER | HORN-FEED POWER |
| | 14 | 43 TO HORN | HORN-RELAY TO HORN |
| VIOLET | 16 | 44 HORN BUTTON | HORN GRN-RELAY TO BUTTON |
| | 14 | 45 FLSHR POWER | TURN-FLASHER FEED POWER FROM LIVE FUSE BLOCK |



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|-------|------|------------------|---|
| | 14 | 46 HDLP POWER | HEADLIGHT - FEED POWER (LIVE FUSE BLOCK) |
| | 12 | 47 HTR DEFR PWR | HEATER & DEFROSTER - FEED POWER |
| | 14 | 48 ENG BRK PWR | JACOBS ENG BRAKE FEED POWER |
| | 14 | 49 TAIL POWER | TAIL & INST FEED POWER TO HEADLIGHT SWITCH |
| | 14 | 50 WIPER POWER | WIPER FEED POWER (W / ELECTRIC) |
| | 16 | 51 WASHER | WASHER-WINDSHIELD |
| | 16 | 52 DOME LGT PWR | DOMELIGHT FEED FROM HEADLIGHT SWITCH |
| | 16 | 53 DOME LGT GND | DOMELIGHT GND CIR THRU HEADLIGHT SWITCH |
| | 14 | 54 AMMETER NEG | AMMETER SHUNT WIRE NEG |
| | 14 | 55 AMMETER POS | AMMETER SHUNT WIRE POS |
| | 14 | 56 IGN TO REG | POWER TO ALTERNATOR RELAY FROM IGN SWITCH |
| | 16 | 57 BUFFER TO LT | JACOBS ENG BRAKE BUFFER SW TO BRAKE LIGHT RELAY |
| | 14 | 58 PWR NEU SAF | NEUTRAL SAFETY SW FEED FROM BUSS BAR (AUTOMATIC) |
| | 1 | 59 ALT OUTPUT | ALT POS FEED TO CAB BATT SELECTOR SW OR SHUNT |
| | 1 | 60 BAT #1 SW | SOL #1 TO BATTERY SELECTOR SWITCH, ISOLATOR OR SHUNT |
| | 1 | 61 BAT #2 SW | SOL #2 TO BATTERY SELECTOR SWITCH, ISOLATOR OR SHUNT |
| | 1 | 62 CAB FEED | FEED - BATTERY SEL SWITCH OR SHUNT TO IGN SW OR ACC RELAY |
| | 1 | 63 IGN PWR BLK | LIVE FUSE BLOCK FEED FROM IGN SWITCH |
| | 16 | 64 BAT PILOT | BATTERY ON PILOT LIGHT FEED |
| | 14 | 65 STOP PWR | ENG STOP - FEED POWER (DET DIESEL) LIVE FUSE BLOCK |
| | 6 | 66 ACC PWR BLK | ACC FUSE BLOCK FEED FROM IGN SWITCH |
| | 14 | 67 HDLP POWER | HEADLIGHT FEED - SWITCH TO DIMMER SWITCH |
| | 14 | 68 HIGH BEAM | HIGH BEAM - HEADLIGHT FROM DIMMER SWITCH |
| | 14 | 69 LOW BEAM | LOW BEAM - HEADLIGHT FROM DIMMER SWITCH |
| | 3-0 | 70 STARTER MTR | STARTER MOTOR FEED FROM SOLENOID |
| BLACK | 16 | 71 FL SHR TO COL | FLASHER FEED TO STEERING COLUMN |
| RED | 16 | 72 FR TO MOD PWR | FEED POWER TO FRT BRAKE MODULATOR |
| RED | 16 | 73 RR MOD PWR | FEED POWER TO REAR BRAKE MODULATOR |
| GREEN | 16 | 74 FRT MOD LGT | FRONT BRAKE MODULATOR TO ANTI-LOCK LIGHT |
| GREEN | 16 | 75 RR MOD LGT | REAR BRAKE MODULATOR TO ANTI-LOCK LIGHT |
| | 16 | 76 COOL TEMP GA | *ENGINE WATER TEMP |
| | 16 | 77 ENG OIL GA | *ENGINE OIL PRESSURE |
| | 16 | 78 TACH GND | *TACH FEED FROM SENDER GROUND |
| | 16 | 79 TACH SIGNAL | *TACH FEED FROM SENDER SIGNAL |
| | 14 | 80 PANEL LIGHT | *PANEL 3 WAY SWITCH |
| | 14 | 81 PANEL LIGHT | *PANEL 3 WAY SWITCH |
| | 14 | 82 GAGE POWER | *PUMP PNL PWR FEED OIL GA, COOLANT GA, WATER LEVEL & TACH |
| | 14 | 83 CABINET LGT | *CABINET LIGHTS |
| | 16 | 84 DOOR WRNG | *DOOR - OPEN WARNING (MUST BE ON PURCHASE ORDER) |
| | 16 | 85 REAR BUZZER | *TAIL BD BUZZER |
| | 14 | 86 WARNING R RR | *REAR BUNKER WARNING LIGHTS |
| | 14 | 87 WARNING L RR | *REAR BUNKER WARNING LIGHTS |
| | 14 | 88 SPOT LGT RR | *REAR SPOT LAMPS |
| BLACK | 14 | 89 WIPER PARK L | WIPER PARK LEFT BOSCH COLOR |
| GREEN | 14 | 90 WIPER LOW L | WIPER LOW LEFT BOSCH COLOR |

*Opt. - Pumper Harness

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#61689CL



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| COLOR | GAGE | CIRCUIT # LEGEND | FUNCTION DESCRIPTION |
|-------|------|-------------------|---|
| RED | 14 | 91 L WPR HI | WIPER HI LEFT BOSCH COLOR |
| BLACK | 14 | 92 R WPR PARK | WIPER PARK RIGHT BOSCH COLOR |
| GREEN | 14 | 93 R WPR LOW | WIPER LOW RIGHT BOSCH COLOR |
| RED | 14 | 94 R WPR HI | WIPER HI RIGHT BOSCH COLOR |
| | 14 | 95 MOD POWER | WHEEL LOCK CONTROL POWER TO CIRCUIT BREAKER |
| | 16 | 96 MONITOR PWR | ANTILOCK LIGHT & MONITOR FEED FROM CIR BREAKER |
| | 1 | 97 ISO TO SHUNT | SHUNT TO BATTERY SEL SWITCH #1 OR ISOLATOR |
| | 16 | 98 TACH GND | MAIN HARNESS PUMP TACH (W/O PUMPER HARNESS) |
| | 16 | 99 TACH SIGNAL | MAIN HARNESS PUMP TACH (W/O PUMPER HARNESS) |
| | 14 | 100 CLUTCH PWR | ACC FUSE BLOCK TO HORTON FAN CLUTCH |
| | 14 | 101 CLUTCH SW | HORTON FAN SWITCH & PRESSURE SWITCH TO FAN |
| | 16 | 102 FAN LGT | HORTON FAN PRESSURE SWITCH TO INDICATOR LIGHT |
| | 16 | 103 TRANS T/GA | *TRANS TEMP W/ALLISON TRANS SENDER TO GAUGE |
| | 16 | 104 PRIMER PWR | FUEL PRIMER ACC FUSE BLOCK TO SWITCH |
| | 16 | 105 FUEL PUMP | FUEL PRIMER SWITCH TO FUEL PUMP |
| | 16 | 106 LEVEL TEST | OIL LEVEL (ROBT SHAW) PAN TEST TO BUTTON |
| | 16 | 107 LEVEL SIG | OIL LEVEL (ROBERT SHAW) PAN SIGNAL TO TEST LIGHT |
| | 16 | 108 LEVEL PWR | OIL LEVEL (ROBERT SHAW) FEED POWER TO PAN POS & OIL LGT |
| | 14 | 109 FRT WRNG | FRT WARNING LAMP FEED ACC FUSE BLOCK TO SW & FLASHER |
| | 14 | 110 R WRNG LGT | FLASHER TO RIGHT FRT WARNING LIGHT |
| | 14 | 111 L WRNG LGT | FLASHER TO LEFT FRT WARNING LIGHT |
| | 16 | 112 ENG OIL T/GA | ENG OIL TEMP GAUGE TO SENDER |
| | 16 | 113 SPEEDO PWR | TWO SPEED SPEEDOMETER BREAKER TO SWITCH |
| | 16 | 114 SPEEDO | TWO SPEED SPEEDOMETER SWITCH TO ADAPTER |
| | 1 | 115 ISO TO SHUNT | SHUNT TO ISOLATOR BATTERY SYSTEM #2 |
| | 16 | 116 AIRHORN SOL | AIR HORN SOLENOID FROM HORN RELAY |
| | 16 | 117 R HORN SW | R.H. HORN SWITCH FEED POWER FROM RELAY |
| | 16 | 118 R HORN SW | R.H. HORN SWITCH TO HORNS |
| | 1 | 119 ISO BAT #1 | BATTERY ISOLATOR #1 TO BATTERY SWITCH #1 |
| | 1 | 120 ISO BAT #2 | BATTERY ISOLATOR #2 TO BATTERY SWITCH #2 |
| | 3-0 | 121 SOL #1 SOL #2 | SOLENOID #1 TO SOLENOID #2 |
| | 3-0 | 122 BAT #1 POS | BATTERY #1 TO SOLENOID #1 |
| | 3-0 | 123 BAT #2 POS | BATTERY #2 TO SOLENOID #2 |
| | 16 | 124 IGN POWER | IGN FEED TO MODULE & COIL (FORD) |
| WHITE | 16 | 125 MOD START | IGN MODULE START MODE FROM SOL (FORD) |
| | 16 | 126 FUEL SW PWR | FUEL PUMP FEED ACC FUSE BLOCK TO SAFETY SWITCH |
| | 16 | 127 FUEL PUMP | FUEL PUMP FEED SAFETY SWITCH TO FUEL PUMP |
| | 16 | 128 PRIMER SW | FUEL PRIMER SWITCH TO FUEL PUMP SAFETY SWITCH |
| | 16 | 129 AIR DRYER | B.W. AIR DRYER HEATER FEED FROM ACC FUSE BLOCK |
| RED | 16 | 130 RR MOD PWR | BRAKE MODULATOR TANDEM REAR FEED POWER |
| GREEN | 16 | 131 RR MON PWR | BRAKE MODULATOR TO ANTILOK LIGHT TANDEM REAR |
| | 1 | 132 START SOL | STARTER SOL TO STARTER RELAY SOLENOID |
| | 14 | 133 IGN BAT | FEED FROM IGN ACCESS RELAY TO IGN SWITCH |
| | 14 | 134 IGN RELAY | IGN SWITCH ACC TO IGN ACC RELAY |
| | 14 | 135 START SAF SW | IGN SWITCH START TO NEUTRAL SAFETY SWITCH OR RELAY |

*Opt. - Pumper Harness

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REISSUE 9-9-80

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|-------|------|------------------|---|
| | 14 | 136 SAF SW RELAY | NEUTRAL SAFETY SWITCH TO STARTER RELAY |
| | 14 | 137 START RELAY | STARTER RELAY TO STARTER SOLENOID |
| | 14 | 138 LGT RLY PWR | JACOBS ENG BRAKE LIGHT RELAY TO #27 FUSE BLOCK |
| | 14 | 139 BRAKE UNITS | JACOBS ENG BRAKE BUFFER SWITCH TO BRAKE UNITS |
| | 16 | 140 PARK BRK LGT | PARK BRAKE LAMP TO PARK VALVE SWITCH |
| | 16 | 141 PARK FLSHR | PARK BRAKE LAMP FROM FLASHER |
| | 16 | 142 P FLSHER PWR | PARK BRAKE FLASHER FROM ACC FUSE BLOCK |
| | 14 | 143 MOIST EJECT | HEATER MOISTURE EJECTOR FROM ACC FUSE BLOCK |
| | 14 | 144 R LO WRNG | FLASHER TO RIGHT FRT LOWER WARNING LAMP |
| | 14 | 145 L LO WRNG | FLASHER TO LEFT FRT LOWER WARNING LAMP |
| | 1 | 146 B BAT #2 POS | DUVAC #4 TERM TO "B" BATTERY POS (24v DUAL START) |
| | 1 | 147 A BAT POS | DUVAC #1 TERM TO "A" BATTERY POS (24v SINGLE START) |
| | 1 | 148 B BAT #1 POS | DUVAC #2 TERM TO "B" BATTERY POS (24v START) |
| | 3-0 | 149 A POS-B NEG | "A" BATTERY POS TO "B" BATTERY NEG (24v START) |
| | 14 | 150 ENG LIGHTS | ENGINE COVER LAMPS FROM LIVE FUSE BLOCK |
| | 14 | 151 LEFT BRAKE | JACOBS ENG BRAKE SWITCH TO LEFT HEAD |
| | 14 | 152 RIGHT BRAKE | JACOBS ENG BRAKE SWITCH TO RIGHT HEAD |
| | 14 | 153 TRANS PWR SW | JACOBS ENG BRAKE LOCKUP SWITCH TO BUFFER SWITCH |
| | 16 | 154 DIF LOCK LT | DIFFERENTIAL LOCK LAMP TO SWITCH |
| | 8 | 155 SIREN POWER | SIREN POWER FEED TO SWITCH |
| | 8 | 156 SIREN | SIREN POWER FEED FROM SWITCH |
| | 12 | 157 BRK SW PWR | SIREN BRAKE SWITCH FEED |
| | 12 | 158 SIREN BRAKE | SIREN BRAKE SWITCH TO SIREN BRAKE |
| | 12 | 159 888 POWER | MARS 888 FUSE BLOCK TO SWITCH |
| | 12 | 160 888 LIGHT | MARS 888 SWITCH TO LAMP ASM |
| | 14 | 161 ALT LGT PWR | ALTERNATING HIGH BEAM FLASHER FEED |
| | 14 | 162 R LGT FLSHR | ALTERNATING HIGH BEAM R. FLASHER TO SWITCH |
| | 14 | 163 L LGT FLSHR | ALTERNATING HIGH BEAM L. FLASHER TO SWITCH |
| | 14 | 164 WARN LGT SW | ALTERNATING HIGH BEAM R. SW TO INNER LAMP |
| | 14 | 165 WARM LGT SW | ALTERNATING HIGH BEAM L. SW TO INNER LAMP |
| | 16 | 166 G/BOX LIGHT | GLOVE BOX LAMP FROM LIVE FUSE BLOCK |
| | 14 | 167 LIGHTER PWR | CIGAR LIGHTER FROM LIVE FUSE BLOCK |
| | 14 | 168 FOG LGT RLY | FOG LAMP SWITCH TO RELAY |
| | 14 | 169 FOG LGT PWR | FOG LAMP RELAY FROM FUSE BLOCK |
| | 14 | 170 FOG LIGHTS | FOG LAMP FEED FROM RELAY |
| BROWN | 14 | 171 ID LIGHTS | MARKER (ID) ROOF LAMPS |
| | 14 | 172 RLY HORN SW | HORN RELAY TO HORN-SIREN SWITCH |
| | 14 | 173 SIREN PWR | SIREN BUTTON FEED FROM ACC FUSE BLOCK |
| | 14 | 174 SIREN RELAY | SIREN RELAY TRIGGER FROM SIREN SWITCH |
| | 14 | 175 MAP LGT PWR | MAP LIGHT FEED FROM ACC FUSE BLOCK |
| | 14 | 176 MAP LIGHT | MAP LIGHT SWITCH TO LAMP |
| | 14 | 177 C/LP. POWER | COURTESY LAMP FEED FROM LIVE FUSE BLOCK |
| | 14 | 178 RADIO PWR | RADIO FEED FROM IGN ACC TERMINAL |
| | 4 | 179 PRIMER PUMP | PRIMER PUMP FEED FROM M-705 (FIRE PUMP) |
| | 14 | 180 HOUR MTR SW | HOUR METER FROM ENG OIL PORT SWITCH |



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|--------|------|------------------|--|
| | 14 | 181 OIL PRES LT | *ENG OIL PRESSURE WARNING LIGHT (PUMPER HARNESS) |
| | 14 | 182 T/TEMP LGT | *TRANS TEMP WARNING LIGHT (PUMPER HARNESS) |
| | 12 | 183 BEACON R | BEACON - ROOF TO SWITCH |
| | 14 | 184 L SPOTLIGHT | SPOTLIGHT - CAB LEFT |
| | 14 | 185 R SPOTLIGHT | SPOTLIGHT - CAB RIGHT |
| | 14 | 186 T/TEMP LGT | TRANS TEMP WARN LIGHT TO TEMP SWITCH |
| ORANGE | 12 | 187 BAT #1 CHRГ | BATT #1 CHARGE PLUG TO BATTERY #1 M-705 SWITCH |
| ORANGE | 12 | 188 BAT #2 CHRГ | BATT #2 CHARGE PLUG TO BATTERY #2 M-705 SWITCH |
| | 14 | 189 HORN RLY SW | HORN - SIREN SWITCH HORN TERM TO RELAY GND |
| | 14 | 190 MAS SW PWR | MASTER SWITCH FEED FROM CIRCUIT BREAKER |
| | 14 | 191 MAS SW SOL | MASTER SWITCH TO MASTER RELAY SOLENOID |
| | 14 | 192 FT WRNG PWR | FRT WARNING LIGHTS BREKER TO SWITCH |
| | 12 | 193 BEACON PWR | ROOF BEACON BREAKER TO SWITCH |
| | 14 | 194 RR WRNG PWR | REAR WARNING LIGHTS BREAKER TO SWITCH |
| | 14 | 195 MOD SW C | KYSOR ALARM MODULE TO OIL SWITCH C |
| | 14 | 196 STAT C SW NO | KYSOR COOLANT ALARMSTAT C TO OIL SWITCH NO |
| | 14 | 197 MOD SW NC | KYSOR ALARM MODULE TO OIL SWITCH NC |
| | 14 | 198 MOD STAT NO | KYSOR ALARM MODULE TO COOLANT ALARMSTAT NO |
| | 14 | 199 MOD STAT NC | KYSOR ALARM MODULE TO TRANS ALARMSTAT NC |
| | 14 | 200 BELL SW NC | KYSOR WARNING BELL TO OIL SWITCH NC |
| | 14 | 201 MOD-PROBE | KYSOR ALARM MODULE TO COOLANT PROBE |
| | 14 | 202 STAT NO-NO | KYSOR COOLANT ALARMSTAT NO TO TRANS OIL ALARMSTAT NO |
| | 14 | 203 BUZZER PWR | BUZZER POWER FROM BUZZER CRANK RELAY |
| | 14 | 204 STAT NC-C | KYSOR COOLANT ALARMSTAT NC TO TRANS OIL ALARMSTAT C |
| | 14 | 205 T/CASE T/GA | T-CASE TEMP GAUGE TO SENDER |
| | 14 | 206 AXLE #1 T/GA | AXLE #1 TEMP GAUGE TO SENDER |
| | 14 | 207 AXLE #2 T/GA | AXLE #2 TEMP GAUGE TO SENDER |
| | 14 | 208 AXLE #3 T/GA | AXLE #3 TEMP GAUGE TO SENDER |
| | 14 | 209 PWR FILTER | ACC CIR BREAKER TO RACOR FILTERS RELAY B2 TERMINAL |
| | 14 | 210 PWR FILTER 1 | CIR BREAKER TO RACOR FILTER #1 HOT THRU RELAY |
| | 14 | 211 PWR FILTER 2 | CIR BREAKER TO RACOR FILTER #2 HOT THRU RELAY |
| | 14 | 212 PWR FILTER 3 | CIR BREAKER TO RACOR FILTER #3 HOT THRU RELAY |
| | 14 | 213 FUEL PRESS | FUEL PRESSURE GAUGE TO SENDER |
| | 14 | 214 STEP LIGHTS | SWITCH TO STEP LIGHTS |
| | 14 | 215 STEP LGT PWR | CIR BREAKER TO STEPLIGHT SWITCH |
| | 14 | 216 FORWARD SOL | FORWARD SOLENOID FROM SWITCH |
| | 14 | 217 REVERSE SOL | REVERSE SOLENOID FROM SWITCH |
| | 14 | 218 FWD-REV PWR | FORWARD AND REVERSE SWITCH POWER |
| | 14 | 219 DOME LIGHTS | SWITCH TO DOME LIGHTS |
| | 14 | 220 FRONT AXLE | AXLE IN LIGHT TO "T" CASE SWITCH |
| YELLOW | 12 | 221 HEATER MED | HEATER MED SWITCH TO FAN |
| | 14 | 222 PTO SHIFT | SWITCH TO PTO VALVE |
| | 14 | 223 A/C CLUTCH | AIR CONDITIONER TO FREON COMPRESSOR |
| | 14 | 224 R SIDE WARN | WARNING LIGHT - FLASHER TO RIGHT CAB SIDE |
| | 14 | 225 L SIDE WARN | WARNING LIGHT - FLASHER TO LEFT CAB SIDE |

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|--------|------|------------------|---|
| | 14 | 226 SIDE WRNG | SIDE WARNING LAMP SWITCH TO FLASHER |
| | 14 | 227 AXLE SHIFT | TWO SPEED AXLE SWITCH TO AIR SOL. VALVE |
| | 14 | 228 AXLE LT FRT | AXLE FRONT LOW RANGE SWITCH TO LIGHT |
| | 14 | 229 AXLE LGT RR | AXLE REAR LOW RANGE SWITCH TO LIGHT |
| | 14 | 230 COAST SOL | HYDROSTATIC DRIVE COAST RELAY TO SERVO DUMP SOL + |
| | 14 | 231 EMER ST SOL | HYDROSTATIC BALANCE LINE SWITCH TO VALVE |
| | 14 | 232 S. WRNG PWR | SIDE WARNING LIGHTS BREAKER TO SW |
| | 14 | 233 CHOKE PWR | CHOKE FEED FROM OIL PRESSURE SWITCH |
| | 14 | 234 COOLER FAN | OIL COOLER DIODE TO FAN |
| | 14 | 235 BEACON RLY | BEACON SWITCH TO BEACON RELAY |
| | 14 | 236 FUEL FILTER | FUEL RESTRICTION LAMP TO FILTER SWITCH |
| | 14 | 237 BATT 1 VOLT | BATTERY NO. 1 VOLTMETER RELAY FROM BATTERY SELECTOR SW. |
| | 14 | 238 BATT 2 VOLT | BATTERY NO. 2 VOLTMETER RELAY FROM BATTERY SELECTOR SW. |
| | 14 | 239 ETHER VALVE | ETHER STARTING AID SWITCH TO ETHER VALVE |
| | 14 | 240 ETHER SW | ETHER STARTING AID SWITCH FEED FROM CRANK CIR |
| | 14 | 241 NO. 3 BRAKE | JACOBS ENG BRAKE SWITCH TO HEAD NO. 3 CUMMINS INLINE |
| | 14 | 242 CLR FAN PWR | OIL COOLER BREAKER TO DIODE |
| | 14 | 243 RLY TAIL LT | HEADLIGHT SWITCH TO TAIL & MARKER LT. RELAY |
| RED | 14 | 244 LUBE PRESS | POWER DIVIDER LUBE OIL SW. TO WARNING LIGHT |
| GREEN | 14 | 245 CLU PRESS | POWER DIVIDER CLUTCH OIL SW. TO WARNING LIGHT |
| | 14 | 246 BATT 1 LT | M-714 BATT 1 SWITCH TO DASH LIGHT |
| | 14 | 247 BATT 2 LT | M-714 BATT 2 SWITCH TO DASH LIGHT |
| | 14 | 248 PTO SHIFT #2 | SWITCH TO PTO VALVE (FOR SECOND PTO) |
| | 12 | 249 ROAD SANDER | ROAD SANDER SWITCH TO SANDER MOTORS |
| RED | 14 | 250 A/C PWR | CIRCUIT BREAKER TO AIR COND. UNIT |
| RED | 14 | 251 A/C PWR | CIRCUIT BREAKER TO AIR COND. UNIT |
| RED | 12 | 252 A/C RLY PWR | CIRCUIT BREAKER TO COND. FAN RELAY |
| ORANGE | 12 | 253 A/C FAN RLY | RELAY TO CONDENSOR FAN MOTOR |
| YELLOW | 14 | 254 A/C SIGNAL | EVAPORATOR TO RELAY TO REAR CONDENSOR |
| YELLOW | 14 | 255 RR A/C VLV | REAR EVAPORATOR TO SOLENOID VALVE |
| RED | 10 | 256 RADIO | ELECTRIC PANEL TO RADIO BOX |
| | 14 | 257 LAMP TEST | CAB ALARM TO LAMP TEST GROUNDING SWITCH |
| | 14 | 258 HI IDLE PWR | BREAKER TO SWITCH |
| | 14 | 259 HI IDLE | SWITCH TO SOLENOID |
| | 14 | 260 HDLP PWR | DELCO SWITCH TO CIRCUIT BEAKER |
| | 14 | 261 RLY TAIL LT | DELCO SWITCH TO RELAY |
| | 14 | 262 HDLP PWR | CENTER HEADLAMP CIRCUIT BREAKER TO SWITCH |
| | 14 | 263 HDLP PWR | CENTER HEADLAMP FROM SWITCH |
| | 14 | 264 START FEED | START BUTTON FEED FROM DELCO SWITCH |
| | 10 | 265 GLASS-P | HEATED GLASS ALTERNATOR TO GLASS |
| | 14 | 266 GLASS THERM | HEATED GLASS SWITCH TO THERMOSTAT |
| | 14 | 267 GLASS RLY | HEATED GLASS THERMOSTAT TO RELAY |
| | 14 | 268 MOD PWR | KYSOR SHUTDOWN MODULE TO ACC BRKR BUSS BAR |



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| COLOR | GAGE | CIRCUIT # | LEGEND | FUNCTION DESCRIPTION |
|-------|-------|-----------|---------------|---|
| | 14 | 269 | HTD MIR PWR | HEATED MIRROR BREAKER TO SWITCH |
| | 14 | 270 | HTD MIR | HEATED MIRROR SWITCH TO MIRROR |
| | 14 | 271 | SHTDWN PWR | CIRCUIT BREAKER TO SWITCH |
| | 14 | 272 | SHUTDOWN | SWITCH TO SOLENOID |
| | 14 | 273 | ODOMETER | SENDER TO ODOMETER |
| | 14 | 274 | CRUISE PWR | BREAKER TO SWITCH |
| | 14 | 275 | CRUISE ON | SWITCH TO MODULE |
| | 14 | 276 | CRUISE SET | SWITCH TO MODULE |
| | 14 | 277 | CRUISE RES | SWITCH TO MODULE |
| | 14 | 278 | CRUISE KILL | BRAKE SWITCH O MODULE |
| | 14 | 279 | RET LGT | PRESSURE SWITCH TO LAMP |
| | 14 | 280 | STAT NO-NC | KYSOR COLLANT ALARMSTAT NO TO OIL SWITCH NC |
| | 14 | 281 | RET. SOL. | MICRO SWITCH TO RETARDER SOLENOID |
| | 14 | 282 | FUEL RLY. | KYSOR MODULE TO FUEL SOLENOID RELAY |
| | 14 | 283 | DEF FAN | WINDSHIELD DEFROST FAN PWR @ HEADER |
| | 14 | 284 | BATT LT | FORD VOLTAGE REGULATOR TO LIGHTS (LEECE NEVILLE ALT FEED) |
| | 14 | 285 | KYSOR PWR | KYSOR ALARM MODULE POWER |
| | 14 | 286 | RES TO COIL | RESISTOR TO COIL FORD ENGINE |
| | 12 | 287 | RR HTR PWR | FEED POWER TO REAR HEATER(S) |
| | 14 | 288 | OIL TEMP SW | OIL TEMP SW. TO WARN LT. |
| | 14 | 289 | E.M.W. POS. | SOLENOID TO EMISSION MAINT. WARN MODULE POS |
| | 14 | 290 | E.M.W. NEG. | SOLENOID TO EMISSION MAIN. WARN MODULE NEG. |
| | 14 | 291 | SOL. TO LT. | SOLENOID TO LIGHT |
| | 14 | 292 | LT. TO EMW | LIGHT TO EMISSION MAINT. WARN MODULE |
| | 14 | 293 | FLSHR FEED | SWITCHED BREAKER TO TURN SIGNAL FLASHER MOTORHOME |
| | 14 | 294 | FLSHR TO SW | TURN SIGNAL FLASHER TO TURN SIGNAL SWITCH MOTORHOME |
| | 14 | 295 | AIR HT PWR | 8.2 AIR HEATER CONTROL POWER |
| | 14 | 296 | AIR HEAT LT | 8.2 AIR HEATER CONTROL TO I.D. LIGHT |
| | 8 AWG | 297 | SOL PWR | 8.2 AIR HEATER SOLENOID TO STARTER POS. |
| | 14 | 298 | KYSOR BELL | KYSOR ALARM CONT ALARM GND TO BELL |
| | 14 | 299 | KYSOR START | KYSOR ALARM CONT STRT TERM TO CONT MOD START TERM |
| | 14 | 300 | KYSOR KEY | KYSOR ALARM CONT KEY TERM TO CONTROL MOD IGN TERM |
| | 14 | 301 | FAN PWR | RAD FAN SW TO SWITCHED BREAKER |
| | 14 | 302 | ALT OUTPUT | ALT. POS. TO BATT. POS. OR SHUNT |
| | 14 | 303 | TRANS FLTR | TRANS PRESS DIFF SW TO IND LT. |
| | 14 | 304 | KYSOR SHTDWN | BREAKER TO LOW COOL RELAY |
| | 14 | 305 | KYSOR SHTDWN | RELAY TO LOW COOL LT |
| | 14 | 306 | LOW COOL | NARTRON LOW COOL BUZZER & LIGHT |
| | 14 | 307 | ECU MEMORY | LIVE BATT POS TO E.C.U. BRKR |
| | 14 | 308 | R/A HI | REAR AXLE HI RANGE |
| | 14 | 309 | R/A LOW | REAR AXLE LOW RANGE |
| | 14 | 310 | AUX FUEL SEND | AUX FUEL SENDER TO GAUGE |
| | 14 | 311 | TRANS. MOD. | RELAY TO SOLENOID DDEC II w/HT740 |
| | 14 | 312 | P-MODE SHFT | PUMP MODE SHIFT POWER |
| | 14 | 313 | SHFT SW FD | CIRCUIT BRAKER TO AXLE RANGE SWITCH |
| | 10 | 314 | SHFT PWR | CIRCUIT BREAKER TO AXLE SHIFT SOLENOIDS |



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ISSUE 1-1-77

SO#22 AND AFT

CIRCUIT NO. ASSIGNMENT

| COLOR | GAGE | CIRCUIT # LEGEND | FUNCTION DESCRIPTION |
|---------|------|-------------------|---|
| | 14 | 315 FAN RELAY | BREAKER TO FAN RELAY TRIGGER |
| | 14 | 316 FAN SWITCH | FAN SOL. TO SW. |
| | 14 | 317 RLY TO SW | PUMP / NEUTRAL RELAY TO HI IDLE SW PTG-VS GOV |
| | 14 | 318 SW TO RLY | HI IDLE SW TO PARK BRK RELAY PTG-VS GOV |
| | 14 | 319 RLY TO SOL | PARK BRK RELAY TO HI IDLE SOL @ GOV |
| | 14 | 320 RLY TO SOL | PARK BRK RELAY TO HI IDLE SOL @ THROTTLE |
| | 14 | 321 SW TO LT | PUMP ENGAGE SW TO IND. LT. |
| RED | 10 | 322 BRKR TO SW | BREAKER TO A/C HEATER - BLOWER SW |
| D/BLUE | 14 | 323 SW TO THER. | A/C HEATER - BLOWER SW TO THERMOSTAT |
| | 14 | 324 FAN POWER | BREAKER TO DEFOG FAN |
| | 14 | 325 LS LO WARN | FLASHER TO LH SIDE LWR WARN LT |
| | 14 | 326 RS LO WARN | FLASHER TO RH SIDE LWR WARN LT |
| | 14 | 327 TILT SOL. | TILT RELAY TO SOLENOID |
| | 14 | 328 TILT RLY FD | TILT RELAY TO SOLENOID |
| | 14 | 329 TILT RLY CO | SW BREAKER TO TILT RELAY COIL |
| | 14 | 330 CLOCK PWR | CLOCK PWR LEAD TO BATT #1 TERM AT M705 |
| | 14 | 331 CLOCK DISPLAY | CLOCK DISPLAY LEAD TO LIVE CIR BRKR |
| BLUE | 14 | 332 WDW LIFT FRT | SW. BRKR TO SWITCH |
| BLUE | 14 | 333 WDW LIFT RR | SW. BRKR TO SWITCH |
| ORANGE | 14 | 334 HTR MTR LO | HEATER A/C COMBO SW TO RESISTOR |
| YELLOW | 14 | 335 HTR MTR MED | HEATER A/C COMBO SW TO RESISTOR |
| RED/WHT | 14 | 336 HTR MTR HI | HEATER A/C COMBO SW TO RESISTOR |
| | 14 | 337 A/C MTR LO | HEATER A/C COMBO SW TO RESISTOR |
| | 14 | 338 A/C MTR MED | HEATER A/C COMBO SW TO RESISTOR |
| | 14 | 339 A/C MTR HI | HEATER A/C COMBO SW TO RESISTOR |
| | 1 | 340 TILT SOL FD | PWR FEED TO SOL. |
| | 1 | 341 TILT PUMP FD | SOL TO TILT MOTOR |
| | 14 | 342 RET. STP. LT | RET. LT. TO STOP LT. RELAY |
| | 14 | 343 ESBRS WARN LT | WARNING LGT TO ESBRS PRESS SW |
| | 14 | 344 SIDE LT FD | SIDE INTERSECTION LT POWER FEED |
| | 14 | 345 SEQ TO RLY 1 | SEQUENCER TO RELAY #1 |
| | 14 | 346 SEQ TO RLY 2 | SEQUENCER TO RELAY #2 |
| | 14 | 347 SEQ TO RLY 3 | SEQUENCER TO RELAY #3 |
| | 14 | 348 SEQ TO RLY 4 | SEQUENCER TO RELAY #4 |
| | 14 | 349 SEQ TO RLY 5 | SEQUENCER TO RELAY #5 |
| | 14 | 350 SEQ TO RLY 6 | SEQUENCER TO RELAY #6 |
| RED | 14 | 351 CONTR#1 PWR. | FAN CONTROLLER TO LIVE BREAKER |
| RED | 14 | 352 CONTR#2 PWR. | FAN CONTROLLER TO LIVE BREAKER |
| BLUE | 14 | 353 FAN-CONTR #1 | FAN CONTROLLER TO FAN-LOWER |
| BLUE | 14 | 354 FAN-CONTR #2 | FAN CONTROLLER TO FAN-UPPER |
| ORANGE | 14 | 355 FAN-CONTR #1 | FAN CONTROLLER TO FAN-LOWER |
| ORANGE | 14 | 356 FAN-CONTR #2 | FAN CONTROLLER TO FAN-UPPER |
| GREEN | 14 | 357 FAN OVERRIDE | FAN CONTROLLER OVERRIDE POWER |
| YELLOW | 14 | 358 IGN - CONTRS | SWITCHED BREAKER TO CONTROLLERS |
| | 1 | 359 TILT SW. PWR. | PWR. FEED TO TILT MOTOR SW. |
| | 16 | 360 SHIELD GRD. | SHIELDED CABLE GROUND |
| | 14 | 361 SIDE WRNG PWR | SIDE WARNING LTS. BRKR TO SW |

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ISSUE 1-1-77

SO#22 AND AFT

CIRCUIT NO. ASSIGNMENT

| COLOR | GAGE | CIRCUIT # LEGEND | FUNCTION DESCRIPTION |
|--------|------|--------------------|---|
| BLACK | 6 | 362 SOL TO BRKR | MASTER SWITCH SOL TO CIRCUIT BREAKERS |
| | 14 | 363 RLY TO BUZ | OPEN COMP WARN RELAY TO BUZZER |
| | 14 | SPARE A | |
| | 14 | SPARE B | |
| | 14 | SPARE C | |
| | 14 | SPARE D | |
| | 14 | SPARE F | |
| RED | 14 | 364 RELAY PWR | CIRCUIT BREAKER TO RELAY |
| WHITE | 14 | 365 HDLP SW TO RLY | HEAD LIGHT POWER SWITCH TO RELAY |
| BLUE | 14 | 366 LP TO RLY | TILT LAMP TO RELAY |
| PURPLE | 14 | 367 SW TO RLY | TILT SW TO RLY DOWN |
| YELLOW | 14 | 368 SW TO RLY | TILT SW TO SOLENOID UP |
| RED | 14 | 369 BATT 1 | BATTERY #1 TO BATT CONDITIONER |
| | 14 | 370 RLY TO SOL | RELAY TO RELIEF SOLENOID DOWN |
| GREEN | 14 | 371 SW TO RLY | PRESS SW TO RELAY DOWN |
| | 14 | 372 BATT 2 | BATTERY #2 TO BATT CONDITIONER |
| | 14 | 373 SPOT PWR | HAND HELD SPOTLIGHT POWER |
| | 14 | 374 CORN LMP PWR | CORNERING LAMP MODULE POWER |
| | 14 | 375 BRK WARN | BRAKE WARNING LIGHT CYLINDER TO LIGHT |
| | 14 | 376 INTERLOCK JUMP | NEUTRAL SAFETY TO PUMP INTERLOCK JUMPER |
| | 14 | 377 CNTRL TO RLY | DDEC JAKE BRAKE CONTROL MODULE TO RLY |
| | 12 | 378 ATEC PWR | ISOLATED BATTERY TO BRKR |
| | 14 | 379 PARK SAFETY | PARK BRAKE ENGAGED |
| | 14 | 380 HIGH IDLE SW | HIGH IDLE SW TO SOLENOID |
| | 14 | 381 HIGH IDLE LP | HIGH IDLE LAMP GROUND |
| | 14 | 382 DDEC BUZZER | DDEC MODULE TO BUZZER |
| | 14 | 383 ANTILOK | ANTILOK/RETARDER CUTOUT PWR |
| | 14 | 384 ANTILOK | ANTILOK/RETARDER CUTOUT RLY TO SW |
| | 14 | 385 ANTILOK PWR | ANTILOK PWR (IGN) |
| | 14 | 386 ANTILOK GND | ANTILOK IND LT GND |
| | 14 | 387 ANTILOK IGN | ANTILOK IGNITION |
| | 14 | 388 PANEL GND | ANTILOK PANEL GND |
| | 14 | 389 DOOR BCN (-) | OPEN DOOR BEACON GROUND |
| | 14 | 390 DOME LMP (-) | DOME LAMP GROUND |
| | 14 | 391 DOOR BCN (+) | OPEN DOOR BEACON POSITIVE |
| | 14 | 392 SW TO RLY 1 | ROCKER SWITCH TO RELAY #1 |
| | 14 | 393 SW TO RLY 2 | ROCKER SWITCH TO RELAY #2 |
| | 14 | 394 SW TO RLY 3 | ROCKER SWITCH TO RELAY #3 |
| | 14 | 395 SW TO RLY 4 | ROCKER SWITCH TO RELAY #4 |
| | 14 | 396 SW TO RLY 5 | ROCKER SWITCH TO RELAY #5 |
| | 14 | 397 SW TO RLY 6 | ROCKER SWITCH TO RELAY #6 |
| | 14 | 398 SW TO RLY 7 | ROCKER SWITCH TO RELAY #7 |
| | 16 | 399 PTO POWER | POWER TO PTO SHIFT |



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| COLOR | AWG | CIRCUIT # LEGEND | FUNCTION DESCRIPTION |
|-------|-----|-------------------|----------------------------------|
| | 16 | 400 PTO OVERSPEED | PTO OVERSPEED INDICATOR LAMP (+) |
| | 16 | 401 4TH RANGE IND | RANGE INDICATOR LAMP (-) |
| | 14 | 402 RELAY 1 POWER | POWER TO SPARE RELAY |
| | 14 | 403 RELAY 1 NC | SPARE RELAY TO J-BLOCK NC |
| | 14 | 404 RELAY 1 NO | SPARE RELAY TO J-BLOCK NO |
| | 14 | 405 RELAY 2 POWER | POWER TO SPARE RELAY |
| | 14 | 406 RELAY 2 NC | SPARE RELAY TO J-BLOCK NC |
| | 14 | 407 RELAY 2 NO | SPARE RELAY TO J-BLOCK NO |
| | 14 | 408 RELAY 3 POWER | POWER TO SPARE RELAY |
| | 14 | 409 RELAY 3 NC | SPARE RELAY TO J-BLOCK NC |
| | 14 | 410 RELAY 3 NO | SPARE RELAY TO J-BLOCK NO |
| | 14 | 411 RELAY 4 POWER | POWER TO SPARE RELAY |
| | 14 | 412 RELAY 4 NC | SPARE RELAY TO J-BLOCK NC |
| | 14 | 413 RELAY 4 NO | SPARE RELAY TO J-BLOCK NO |
| | 14 | 414 RELAY 5 POWER | POWER TO SPARE RELAY |
| | 14 | 415 RELAY 5 NC | SPARE RELAY TO J-BLOCK NC |
| | 14 | 416 RELAY 5 NO | SPARE RELAY TO J-BLOCK NO |