Model No. 31698 and 31699
122-0805 Rev B
1 of 2

G038249

©2016—The Toro® Company, 8111 Lyndale Avenue South, Bloomington, MN 55420

ENGINE CONTROLLER
X-CONNECTOR = 70 PIN
A CONNECTOR = 68 PIN
EGR VALVE
EGR PRESSURE SENSOR
INTAKE THROTTLE
EGR TEMP
AIR TEMP
FUEL TEMPER SENSOR
EXH TEMP
ENGINE TEMP SENDER
WATER TEMPERATURE SENDER
RAIL PRESSURE SENSOR
CAM SPEED SENSOR
CRANKSHAFT SPEED SENSOR
FUEL INJECTORS
HIGH PRESSURE PUMP
YANMAR ENGINE HARNESS
ENGINE OIL PRESSURE
DPT THERMOCOUPLES
INLET
MIDDLE
DPF PRESSURE SENSOR
TELEMATICS CONNECTION
EU LIGHTS
REAR EU HARNESS
LEFT LED TAIL LIGHT
RIGHT LED TAIL LIGHT
ROPS LIGHTS – ROPS ONLY
EU BRAKELIGHT KIT
CAB POWER
CAB POWER KIT
CAB FUSE
CAB CONNECTOR
CAB COIL
CAB HEATER
CAB HEATER KIT
CAB GROUND
CAB POWER KIT
MAIN POWER RELAY
TEC POWER RELAY 2
TEC POWER RELAY 1
FUEL PUMP
GLOW RELAY
EGR RELAY
GLOW PLUGS
STARTER
12V ALTERNATOR (80 A)
KEY RUN
1.6 KOHM
ENGINE ECU 20A
ENGINE ECU 30A
ENGINE GROUND
CHASSIS GROUND
BLOCK GROUND
SYSTEM PWR
HOUR METER
HOUR METER CONTROL
HORN
HORN SWITCH
HORN RELAY
POWER POINT
AIR INTAKE HEATER
ALARM
ALARM AUDIO
TEC-5802
CAN DIAGNOSTIC CONNECTOR
SERVICE CAN
CAN TERMINATOR
ANALOG GROUND
ENGINE START
ENGINE RUN
KEY START
KEY RUN
NEUTRAL FORWARD
NEUTRAL REVERSE
PARKING BRAKE LIGHT
SEAT SWITCH
SPEED SENSOR
FUEL LEVEL SENSOR
HYDROSTAT PWM
HYDROSTAT REV
ENGINE START ENABLE
ENGINE ALARM LIGHT
CAN LOW
CAN HIGH
CAN SHIELD
PTO ON
PTO LIGHT
PTO ENABLE
PTO ENGAGE
CENTER DECK MAGS / 12
CENTER DECK LIMIT / 13
L DECK LIMIT / 14
R DECK MAGS / 15
R DECK LIMIT / 16
L DECK MAGS / 17
L DECK LOWER / 18
R DECK LOWER / 19
CTR DECK MAGS
CTR DECK LOWER
LH DECK MAGS
LH DECK LOWER
RH DECK MAGS
RH DECK LOWER
CTR DECK LIMIT SWITCH
LH DECK LIMIT SWITCH
RH DECK LIMIT SWITCH
CUTTING LIGHTS (OPTIONAL)
OUTPUT (5A)
OUTPUT (3A)
OUTPUT (2A)
OUTPUT (1A)
12V ACC
GND ACC
SYSTEM FUSE BLOCK
OPTIONAL FUSED POWER
TELEMATICS POWER
INTOCUSTOM POWER
BRAKE LIGHTS
EU LIGHTS
HAZARD LIGHTS
AIR INTAKE HEATER
POWER POINT
HORN
HORN RELAY
MAIN POWER RELAY
TEC POWER RELAY 2
TEC POWER RELAY 1
MAIN POWER RELAY
FUSE
25 OHM RESISTOR
12V OHM
RS232 RX +
RS232 RX –
RS232 TX +
RS232 TX –
12 VDC
GND
CANBUS CONNECTOR
CAN +
CAN –
SHIELD
TURN SIGNAL SWITCH (CE ONLY)
HAZARD SWITCH (CE ONLY)
LIGHT RELAY
HEAD LIGHT SWITCH
DUAL WAVE FLASHER (CE ONLY)
WASHER PUMP – CAB ONLY
A/C CPL – CAB ONLY
REAR –A
REAR +A
CAB –A
CAB +A
CAB –B
CAB +B
CAB –C
CAB +C
CAB –D
CAB +D
ROPS LIGHT –A
ROPS LIGHT +A
ROPS LIGHT –B
ROPS LIGHT +B
ROPS LIGHT –C
ROPS LIGHT +C
ROPS LIGHT –D
ROPS LIGHT +D
BEACON KIT – ROPS ONLY
BEACON
ENGINE ECU – CHASSIS
ENGINE ECU – ENGINE
ENGINE START
ENG RUN
ENGINE ECU GND
ENG-C2 ← ENGINE ECU GND
ENG-C3 ← ENGINE ECU GND
ENG-B4 ← ENGINE START
ENG-B5 ← ENG RUN
ENG-C1 ← ENGINE ECU PWR
ENG-C2 ← ENGINE ECU GND
ENG-C3 ← ENGINE ECU GND
ENG-B4 ← ENGINE START
ENG-B5 ← ENG RUN
ENG-C2 ← ENG-C1
ENG-C1 ← ENG-C2
ENG-C4 ← KEY RUN
FPS-1 ← FPS-4
CAB POWER
CAB GROUND
CAB POWER KIT
CAB CONNECTOR
CAB FUSE
CAB COIL
CAB HEATER
CAB HEATER KIT
CAB GROUND
CAB POWER KIT
CAB POWER KIT
CAB POWER KIT