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**i .......... Notes**
Circuit Function Section
WALK-BEHIND SAFETY CIRCUIT FUNCTIONS

Blades:
Off .......... Blade Switch .......... Closed
On .......... Blade Switch ........... Open

Transmission:
Neutral .................................. Transmission Switch .................. Closed
Any Speed or Rev .................. Transmission Switch .................. Open

OPC:
Levers Up ....................... OPC Switch ............... Open
Levers Down ................... OPC Switch .................. Closed

TO START ENGINE:
   a. Transmission switch .................. Closed
   b. Blade switch .................................. Closed

ENGINE WILL RUN IF:

1st Condition
   a. Transmission Switch ........................................... Closed
   b. Blade Switch .................................................. Closed

2nd Condition
   a. OPC Switch .................................................. Closed
   b. Blade Switch or Transmission Switch .................. Open

3rd Condition
   a. OPC Switch .................................................. Closed
   b. Blade Switch or Transmission Switch .................. Closed
Fusion, Mid-Cut w/Safety Module Circuit Functions

SWITCH FUNCTIONS:

Seat Switch --------- On Seat ................. Closed
                   Off Seat .................. Open

Control Lever -------- In Neutral (Swung-Out) ...................... Closed
                     Out of Neutral (Swung-In) ............................... Open

Park Switch --------- Park Brake On .......... Neutral Side .................. Open
                    Module Side .................. Closed

                    Park Brake Off .......... Neutral Side .................. Closed
                    Module Side .................. Open

Blade Switch -------- Blade Off .................. Clutch Circuit ................. Open
                     Module Circuit .................. Closed

                    Blade On .................. Clutch Circuit ................. Closed
                     Module Circuit .................. Open

MODULE FUNCTION

The module has control of two circuits

1. The engine kill (does this by connecting the mag to ground)
2. The engine start solenoid (it controls this by switching the ground to the solenoid)

The module senses the status of the safety switches and decides how to switch these two circuits.

TO START ENGINE:

The module will **unground** the mag and **ground** the solenoid when it senses:

- The seat switch closed
- The blade switch off
- The park brake on
- * The control lever in neutral

To Operate the Mower (The Engine Will Run):

The module will keep the engine mag **ungrounded** as long as it senses the **seat switch** closed and as long as the control lever is **in neutral** when the park brake is applied.

* The control lever out of neutral will allow the engine to turn-over, but the mag will still be grounded.
Fusion, Front-Cut w/Safety Module Circuit Functions

SWITCH FUNCTIONS:

Seat Switch ---------
On Seat.................. Closed
Off Seat.................. Open

Control Lever ---------
In Neutral (Swung-Out).............................................. Closed
Out of Neutral (Swung-In).............................................. Open

Park Switch ---------
Park Brake On............. Neutral Side.............................. Open
Module Side......................... Closed

Park Brake Off............. Neutral Side.............................. Closed
Module Side......................... Open

Blade Switch ---------
Blade Off...................... Clutch Circuit ......................... Open
Module Circuit......................... Closed

Blade On...................... Clutch Circuit ......................... Closed
Module Circuit......................... Open

Deck Lift Switch ----
Deck Up....................... Clutch Circuit ......................... Open
Deck Down .................. Clutch Circuit ......................... Closed

MODULE FUNCTION

The module has control of two circuits:

1. The engine kill (does this by connecting the mag to ground)
2. The engine start solenoid (it controls this by switching the ground to the solenoid)

The module senses the status of the safety switches and decides how to switch these two circuits.

TO START ENGINE:

The module will unground the mag and ground the solenoid when it senses:

- The seat switch closed
- The blade switch off
- The park brake on
- * The control lever in neutral

To Operate the Mower (The Engine Will Run):

The module will keep the engine mag ungrounded as long as it senses the seat switch closed and as long as the control lever is in neutral when the park brake is applied.

* The control lever out of neutral will allow the engine to turn-over, but the mag will still be grounded.
Z-Rider, Front-Cut w/Safety Module, And Mid-Cut w/Safety Module (Serial Number Above 41004)

Circuit Functions

SWITCH FUNCTIONS:

Seat Switch  On Seat................. Closed
             Off Seat................. Open

Control Lever  In Neutral (Swung-Out).........................Closed
                Out of Neutral (Swung-In)...............................Open

Park Switch  Park Brake On ............... Neutral Side.................. Open
                   Module Side................................. Closed

                 Park Brake Off ............ Neutral Side.................. Closed
                   Module Side............................... Open

Blade Switch  Blade Off .................. Clutch Circuit............... Open
                  Module Circuit........................... Closed

                 Blade On ................... Clutch Circuit............... Closed
                  Module Circuit........................... Open

MODULE FUNCTION

The module has control of two circuits

1. The engine kill (does this by connecting the mag to ground)
2. The engine start solenoid (it controls this by switching the ground to the solenoid)

The module senses the status of the safety switches and decides how to switch these two circuits.

TO START ENGINE:

The module will unground the mag and ground the solenoid when it senses:

- The seat switch closed
- The blade switch off
- The park brake on
- * The control lever in neutral

To Operate the Mower (The Engine Will Run):

The module will keep the engine mag ungrounded as long as it senses the seat switch closed and as long as the control lever is in neutral when the park brake is applied.

* The control lever out of neutral will allow the engine to turn-over, but the mag will still be grounded.
X-treme, Mid-Cut w/Safety Module
Circuit Functions

SWITCH FUNCTIONS:

Seat Switch

--- On Seat................ Closed
--- Off Seat............... Open

Control Lever

--- In Neutral (Swung-Out)............................. Closed
--- Out of Neutral (Swung-In).......................... Open

Park Switch

--- Park Brake On........... Neutral Side....................... Open
--- Module Side.............. Closed

--- Park Brake Off.......... Neutral Side....................... Closed
--- Module Side.............. Open

Blade Switch

--- Blade Off.................. Clutch Circuit............... Open
--- Module Circuit.............. Closed

--- Blade On.................. Clutch Circuit............... Closed
--- Module Circuit.............. Open

MODULE FUNCTION

The module has control of two circuits

1. The engine kill (does this by connecting the mag to ground)
2. The engine start solenoid (it controls this by switching the ground to the solenoid)

The module senses the status of the safety switches and decides how to switch these two circuits.

TO START ENGINE:

The module will **unground** the mag and **ground** the solenoid when it senses:

- The seat switch closed
- The blade switch off
- The park brake on
- * The control lever in neutral

To Operate the Mower (The Engine Will Run):

The module will keep the engine mag **ungrounded** as long as it senses the **seat switch** closed and as long as the control lever is **in neutral** when the park brake is applied.

* The control lever out of neutral will allow the engine to turn-over, but the mag will still be grounded.
Switch Functions:

Seat Switch ------------ On Seat ............. Closed
Off Seat ............. Open

Control Lever ---------- In neutral (Swung Out) ............... Closed .................. Override run relay side of park switch
Out of Neutral (Swung In) ............... Open  ............. Run Relay circuit

Park Switch ------------ Park Brake On ............... Open  ................. Run relay circuit
Closed ................. In series with PTO Switch
Seat switch override

Park Brake Off ............... Closed .................. Run relay circuit
Open .................. Seat Switch override

Blade Switch ----------- Blade Off ........... Clutch Circuit ................................. Open
Start circuit ................................. Closed
Seat switch override ................................. Closed

Blade On ........... Start circuit ................................. Open (In series w/park switch)
Seat switch override ................................. Open
Clutch circuit................................. Closed

Relay Function:

The engines have a two relay system which controls the engine start and engine kill.
1. The engine kill does this by opening the engine run circuit. (This has a 1 sec. Delay for Engine shutoff)
2. The engine start relay controls this by opening the starter relay circuit.

The seat switch closes the ground circuit to both relays. The seat switch can be overridden by the park switch and PTO Switch in series.

To Start Engine:

The run relay will be closed allowing 12v to get to the ignition module and the fuel shutoff solenoid.
The start relay will be closed allowing 12v to get to the starter solenoid when it Senses:
- The seat switch is closed.
- The blade switch is off.
- The park brake is on or off.
- The control lever is in neutral, only if the park brake is on. [NOTE A]

Note A: The control lever out of neutral will allow the engine to turnover, but no electricity will get to the ignition module or fuel solenoid.

To Operate The Mower:

The seat switch will keep the relays closed allowing the engine to run if:
The levers are in neutral (swung out) the Pto switch is off and the park brake is on or off. The operator can exit the seat without engine kill. If the park brake is applied without the level in neutral (swung out) the engine will kill.
Mid-Cut & Front-Cut Prowlers  
w/20 & 22HP Kawasaki Liquid Cooled Engines  
SAFETY CIRCUIT FUNCTIONS

Switch Functions:

Seat Switch ----------- On Seat............. Closed  
                      Off Seat............. Open

Control Lever -------- In neutral ( Swung Out ) ............ Closed ......... Override run relay side of park switch  
                      Out of Neutral ( Swung In ) ............ Open ............. Run Relay circuit

Park Switch ----------- Park Brake On............ Open ............. Run relay circuit  
                      Closed................ In series with PTO Switch  
                      Seat switch override

Park Brake Off............ Closed............. Run relay circuit  
                      Open ............. Seat Switch override

Blade Switch ----------- Blade Off ...... Clutch Circuit ......................... Open  
                      Start circuit............................ Closed  
                      Seat switch override ..................... Open

Blade On ........... Start circuit........................... Open ( In series w/park switch )  
                      Seat switch override ................. Open  
                      Clutch circuit............................ Closed

Relay Function:

The engines have a two relay system which controls the engine start and engine kill.
1. The engine kill does this by opening the engine run circuit. ( This has a 1 sec. Delay for Engine shutoff )  
2. The engine start relay controls this by opening the starter relay circuit.

The seat switch closes the ground circuit to both relays. The seat switch can be overridden by the park switch and 
PTO Switch in series.

To Start Engine:

The run relay will be closed allowing 12v to get to the ignition module and the fuel shutoff solenoid.  
The start relay will be closed allowing 12v to get to the starter solenoid when it Senses:
- The seat switch is closed.  
- The blade switch is off.  
- The park brake is on or off.  
- The control lever is in neutral, only if the park brake is on.  

Note A: The control lever out of neutral will allow the engine to turnover, but no electricity will get to the ignition module or 
        fuel solenoid.

To Operate The Mower:

The seat switch will keep the relays closed allowing the engine to run if:  
The levers are in neutral ( swung out ) the Pto switch is off and the park brake is on the operator can exit the seat without 
engine kill. If the park brake is applied without the level in neutral ( swung out ) the engine will kill.
Premier Model Section

Premier Series
ENCORE PART #: 363388
WIRE HARNESS FOR 32B100 ; 12 HP BRIGGS
WIRE HARNESS FOR 36B100 ; 12 HP BRIGGS
WIRE HARNESS FOR WB32B12 ; 12 HP BRIGGS
WIRE HARNESS FOR WB36B12 ; 12 HP BRIGGS

REAR VIEW OF SAFETY MODULE CONN.
363372

18 GA RED
TO ENGINE KILL

18 GA BROWN
TO ENGINE GND.

18 GA BLACK

18 GA GREEN

18 GA WHITE
TO ENGINE GND.

18 GA YELLOW

363207
TRANS. NEUTRAL SWITCH

363208
OPC SWITCH
N/O

363164
BLADE SWITCH
N/O

18 GA VIOLET
ENCORE PART #: 363387
WIRE HARNESS FOR 32K200 ; 14 HP KAWASAKI
WIRE HARNESS FOR 36K200 ; 14 HP KAWASAKI
WIRE HARNESS FOR 48K200 ; 14 HP KAWASAKI
WIRE HARNESS FOR 52K200 ; 14 HP KAWASAKI

REAR VIEW OF SAFETY MODULE CONN.
363372

18 GA RED
TO ENGINE KILL

18 GA GREEN

18 GA BLACK
TO ENGINE GND.

18 GA BROWN

18 GA YELLOW

363207
TRANS.NEUTRAL SWITCH

363164
BLADE SWITCH

18 GA WHITE

363208
OPC SWITCH

N/O

N/C

18 GA VIOLET

N/O
ENCORE PART #: 363371
WIRE HARNESS FOR 48K400 ; 17 HP KAWASAKI
WIRE HARNESS FOR 52K400 ; 17 HP KAWASAKI
WIRE HARNESS FOR 60K400 ; 17 HP KAWASAKI
WIRE HARNESS FOR WB32K13 ; 13 HP KAWASAKI
WIRE HARNESS FOR WB36K13 ; 13 HP KAWASAKI
WIRE HARNESS FOR WB36K15 ; 15 HP KAWASAKI
WIRE HARNESS FOR WB48K15 ; 15 HP KAWASAKI
WIRE HARNESS FOR WB48K17 ; 17 HP KAWASAKI

NOTE CHANGES AT CONN.
red wire was at B slot
black wire was at E slot
1-21-99 dlm

NOTE CHANGES AT CONN.
red wire was at A slot
Yellow wire was at D slot
brown wire was at B slot
black wire was at F slot
green wire was at E slot
12-9-98 dlm
ENCORE PART #: 363374
WIRE HARNESS FOR 48T200 ; 14 HP TECUMSEH

REAR VIEW OF SAFETY MODULE CONN.

363375

18 GA BLACK

TO ENGINE GND.

18 GA GREEN

TO ENGINE KILL

18 GA RED

18 GA BROWN

18 GA YELLOW

18 GA WHITE

603060
ON/OFF KEY SWITCH

18 GA WHITE

363208
OPC SWITCH

N/O

18 GA YELLOW

363207
TRANS.NEUTRAL SWITCH

N/C

18 GA VIOLET

363164
BLADE SWITCH

N/O

B-4
ENCORE PART #: 453164
WIRE HARNESS FOR 32K250 ; 14 HP KAWASAKI
WIRE HARNESS FOR 36K250 ; 14 HP KAWASAKI
WIRE HARNESS FOR 48K250WT ; 14 HP KAWASAKI
Rear View of Safety Module Conn.

ENCORE PART #: 453160
WIRE HARNESS FOR 36K450 ; 17 HP KAWASAKI
WIRE HARNESS FOR 48K450WT ; 17 HP KAWASAKI
WIRE HARNESS FOR 52K450 ; 17 HP KAWASAKI
WIRE HARNESS FOR 60K450 ; 17 HP KAWASAKI
WIRE HARNESS FOR WB32K13H ; 13 HP KAWASAKI
WIRE HARNESS FOR WB36K13H ; 13 HP KAWASAKI
WIRE HARNESS FOR WB36K15H ; 15 HP KAWASAKI
WIRE HARNESS FOR WB36K17H ; 17 HP KAWASAKI
WIRE HARNESS FOR WB48K15H ; 15 HP KAWASAKI
WIRE HARNESS FOR WB48K17H ; 17 HP KAWASAKI

NOTE CHANGES AT CONN. red wire was at B slot
black wire was at E slot
1-21-99 dlm

NOTE CHANGES AT CONN. red wire was at A slot
yellow wire was at D slot
brown wire was at B slot
black wire was at F slot
green wire was at E slot
12-9-98 dlm
ENCORE PART #: 453029
WIRE HARNESS FOR 48B350WT ; 16 HP BRIGSS
WIRE HARNESS FOR 48B450WT ; 18 HP BRIGSS
WIRE HARNESS FOR 52B350 ; 16 HP BRIGSS
WIRE HARNESS FOR 52B450 ; 18 HP BRIGSS
WIRE HARNESS FOR 60B350 ; 16 HP BRIGSS
WIRE HARNESS FOR 60B450 ; 18 HP BRIGSS

NOTE CHANGES AT CONN.:
- red wire was at A slot
- black wire was at E slot
- yellow wire was at D slot
- brown wire was at B slot
- black wire was at F slot
- green wire was at E slot

12-9-98 dlm

NOTE CHANGES AT CONN.:
- red wire was at B slot
- black wire was at E slot
1-21-99 dlm
ENCORE PART #: 363344
WIRE HARNESS FOR 32B100E ; 12 HP BRIGGS
WIRE HARNESS FOR 36B100E ; 12 HP BRIGGS
WIRE HARNESS FOR 48B300E ; 16 HP BRIGGS
WIRE HARNESS FOR 48B350EWT ; 16 HP BRIGGS
WIRE HARNESS FOR 48B450EWT ; 18 HP BRIGGS
WIRE HARNESS FOR 52B300E ; 16 HP BRIGGS
WIRE HARNESS FOR 52B350E ; 16 HP BRIGGS
WIRE HARNESS FOR 52B450E ; 18 HP BRIGGS
WIRE HARNESS FOR 60B300E ; 16 HP BRIGGS
WIRE HARNESS FOR 60B350E ; 16 HP BRIGGS
WIRE HARNESS FOR 60B400E ; 18 HP BRIGGS
WIRE HARNESS FOR 60B450E ; 18 HP BRIGGS
WIRE HARNESS FOR WB32B12ES ; 12 HP BRIGGS
WIRE HARNESS FOR WB36B12ES ; 12 HP BRIGGS
ENCORE PART #: 603027
WIRE HARNESS FOR 48B300 ; 16 HP BRIGGS
WIRE HARNESS FOR 52B300 ; 16 HP BRIGGS
WIRE HARNESS FOR 52B400 ; 18 HP BRIGGS
WIRE HARNESS FOR 60B300 ; 16 HP BRIGGS
WIRE HARNESS FOR 60B400 ; 18 HP BRIGGS
Fuzion Model Section
ENCORE PART # 353132 & ENCORE PART # 353180
WIRE HARNESS FOR F34K15 ; 15 HP KAWASAKI
WIRE HARNESS FOR F42K17 ; 17 HP KAWASAKI
WIRE HARNESS FOR F48K19 ; 19 HP KAWASAKI
Z Series Model Section
ENCORE PART #: 343077
WIRE HARNESS FOR 34K350Z ; 15 HP KAWASAKI
WIRE HARNESS FOR 34K15Z ; 15 HP KAWASAKI
ENCORE PART #: 423237
WIRE HARNESS FOR 42K450Z ; 17 HP KAWASAKI
WIRE HARNESS FOR 48K550Z ; 19 OR 20 HP KAWASAKI
WIRE HARNESS FOR 52K650Z ; 21 OR 22 HP KAWASAKI
ENCORE PART# 423351
WIRE HARNESS FOR 42K17Z ; 17 HP KAWASAKI
WIRE HARNESS FOR 48K19Z ; 19 HP KAWASAKI
WIRE HARNESS FOR 52K21Z ; 21 HP KAWASAKI
WIRE HARNESS FOR 60K25Z ; 25 HP KAWASAKI

D-4
X-treme Model Section

X-TREME³
48” • 52” • 60”
Prowler Model Section
ENCORE PART #: 583276
ENGINE WIRE HARNESS FOR 61B850P ; 26 HP BRIGGS - DIESEL
ENGINE WIRE HARNESS FOR 72B850P ; 26 HP BRIGGS - DIESEL
ENGINE WIRE HARNESS FOR 72B850ZP ; 26 HP BRIGGS - DIESEL
ENGINE WIRE HARNESS FOR B850PFC ; 26 HP BRIGGS - DIESEL
ENGINE WIRE HARNESS FOR 61B27LD ; 27 HP BRIGGS - DIESEL
ENGINE WIRE HARNESS FOR 72B27LD ; 27 HP BRIGGS - DIESEL

ALL VIEWS OF CONNECTORS ARE FROM WIRE-IN SIDE
ENCORE PART #: 583275 & 583277
WIRE HARNESS FOR 61B850P ; 26 HP BRIGGS - DIESEL
WIRE HARNESS FOR 72B850P ; 26 HP BRIGGS - DIESEL
ENCORE PART #: 583319
ENGINE WIRE HARNESS FOR 61B950P ; 31 HP BRIGGS
ENGINE WIRE HARNESS FOR 72B950P ; 31 HP BRIGGS
ENGINE WIRE HARNESS FOR B950PFC ; 31 HP BRIGGS
ENGINE WIRE HARNESS FOR 61B31LP ; 31 HP BRIGGS
ENGINE WIRE HARNESS FOR 72B31LP ; 31 HP BRIGGS

ALL VIEWS OF CONNECTORS ARE FROM WIRE-IN SIDE

ENGINE CONNECTOR (FEMALE)
ENGINE CONNECTOR (MALE)
YELLOW 18 GA
BROWN 18 GA
WHITE w/ YELLOW 18 GA
ENGINE COOLANT TEMP
STARTER SOLENOID
WHITE w/Lt. BLU 18 GA
GREEN 18 GA
WHITE w/Lt. BLU 18 GA
ENGINE OIL PRESSURE
BROWN 18 GA
YELLOW 18 GA
RED 12 GA
WHITE w/YELLOW 18 GA
ALTERNATOR OUTPUT
REGULATOR CONNECTOR

No. 1 CYL
No. 2 CYL
No. 3 CYL
IGNITION COILS
TAN w/ BLACK 18 GA
WHT. w/ BLACK 18 GA
YEL. w/ BLACK 18 GA
ORG. w/ Lt BLUE 18 GA
ORG. w/ Lt. GREEN 18 GA
COIL TRIGGER

No. 1 CYL
No. 2 CYL
No. 3 CYL
IGNITION COILS
TAN w/ BLACK 18 GA
WHT. w/ BLACK 18 GA
YEL. w/ BLACK 18 GA
ORG. w/ Lt BLUE 18 GA
ORG. w/ Lt. GREEN 18 GA
COIL TRIGGER

ENCORE PART #: 583319
ENGINE WIRE HARNESS FOR 61B950P ; 31 HP BRIGGS
ENGINE WIRE HARNESS FOR 72B950P ; 31 HP BRIGGS
ENGINE WIRE HARNESS FOR B950PFC ; 31 HP BRIGGS
ENGINE WIRE HARNESS FOR 61B31LP ; 31 HP BRIGGS
ENGINE WIRE HARNESS FOR 72B31LP ; 31 HP BRIGGS
ENCORE PART #: 583484 & 583492
WIRE HARNESS FOR 61K850ZP ; 27 HP KAWASAKI

WIRE HARNESS FOR K850PFC ; 27 HP KAWASAKI
ENCORE PART #: 583495
ENGINE WIRE HARNESS FOR 52K23A; 23 HP KAWASAKI
ENGINE WIRE HARNESS FOR 52K25A; 25 HP KAWASAKI
ENGINE WIRE HARNESS FOR 61K25A; 25 HP KAWASAKI
ENCORE PART #: 593051
WIRE HARNESS FOR 61B27LD ; 27 HP BRIGGS - DIESEL
WIRE HARNESS FOR 72B27LD ; 27 HP BRIGGS - DIESEL
ENCORE PART # 593131
WIRE HARNESS FOR 61VG31A ; BRIGGS VANGUARD 28HP LC
WIRE HARNESS FOR 72VG31A ; BRIGGS VANGUARD 28HP LC

(ALL CONNECTORS VIEWED FROM WIRE-SIDE)
ProLine Rider Section
ENCORE PART #: 523284
WIRE HARNESS FOR 52K550R ; 20 HP KAWASAKI
WIRE HARNESS FOR 52K555G ; 20 HP KAWASAKI
WIRE HARNESS FOR 61K550R ; 20 HP KAWASAKI
WIRE HARNESS FOR 61K555G ; 20 HP KAWASAKI