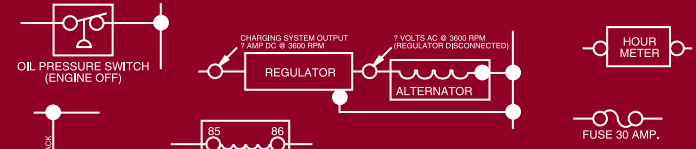
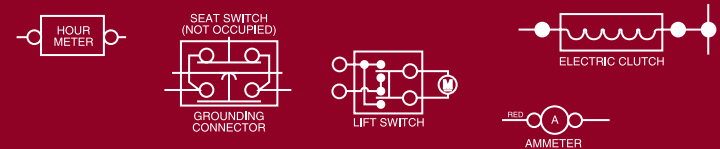
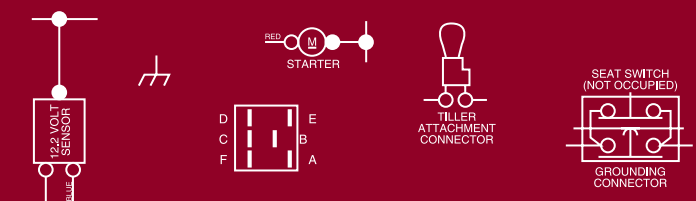
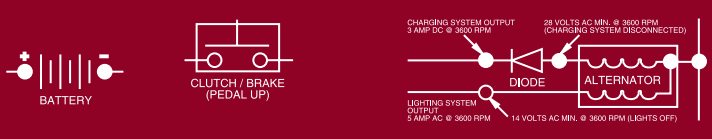


Tractor Electrical Wiring Schematics and Troubleshooting Basics



2002



SEARS



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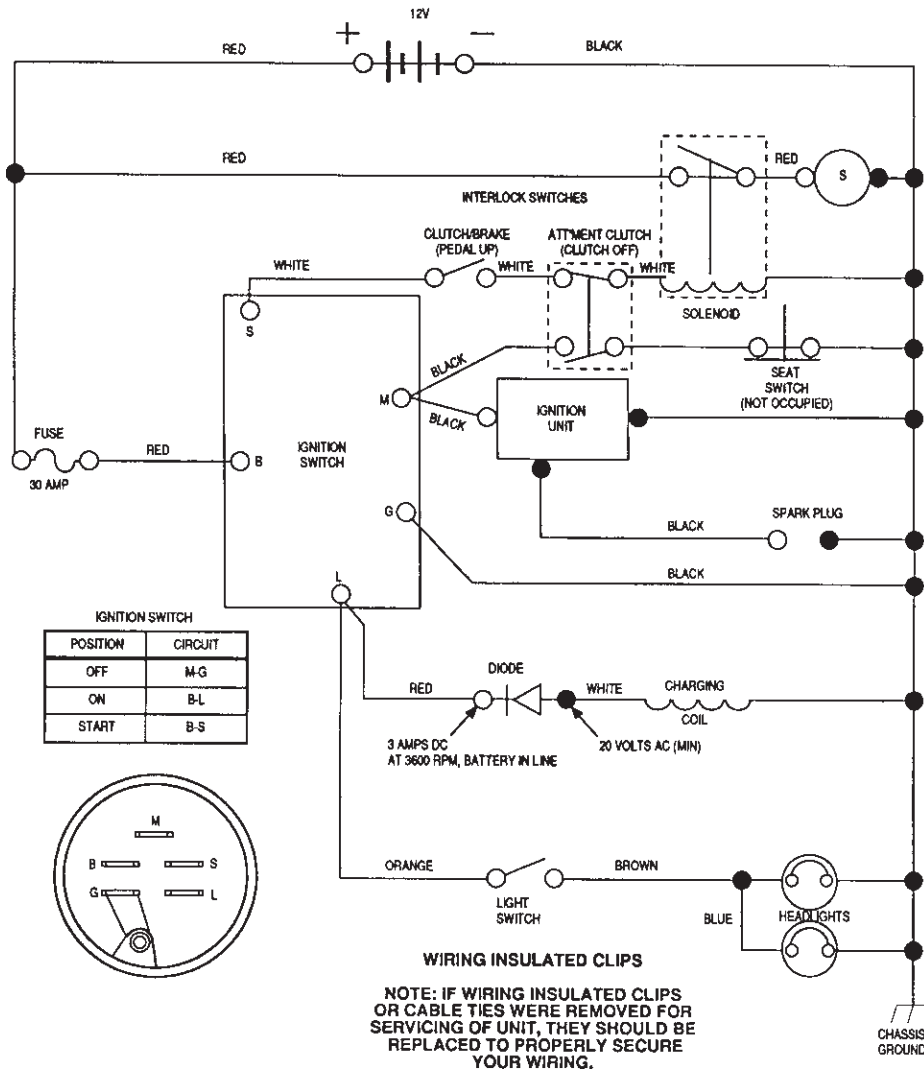
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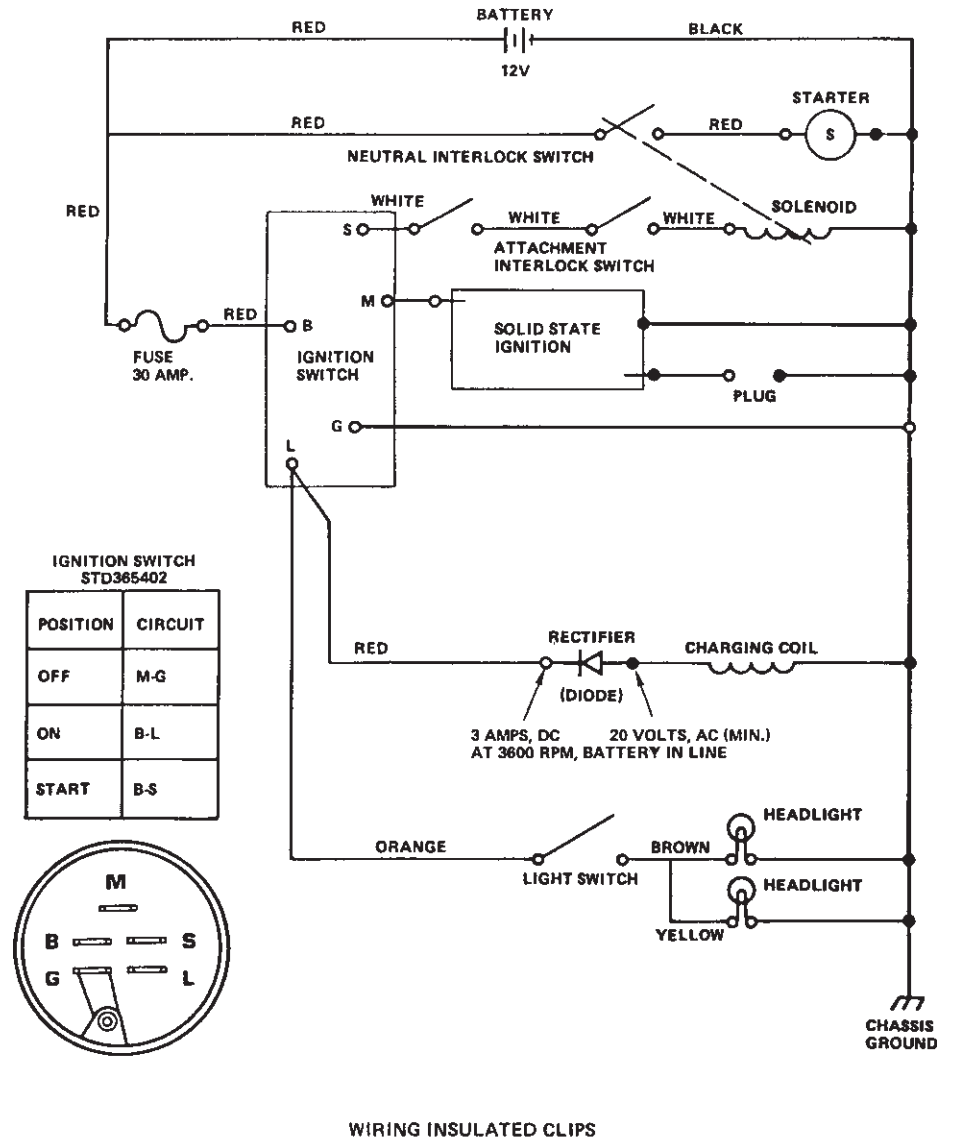
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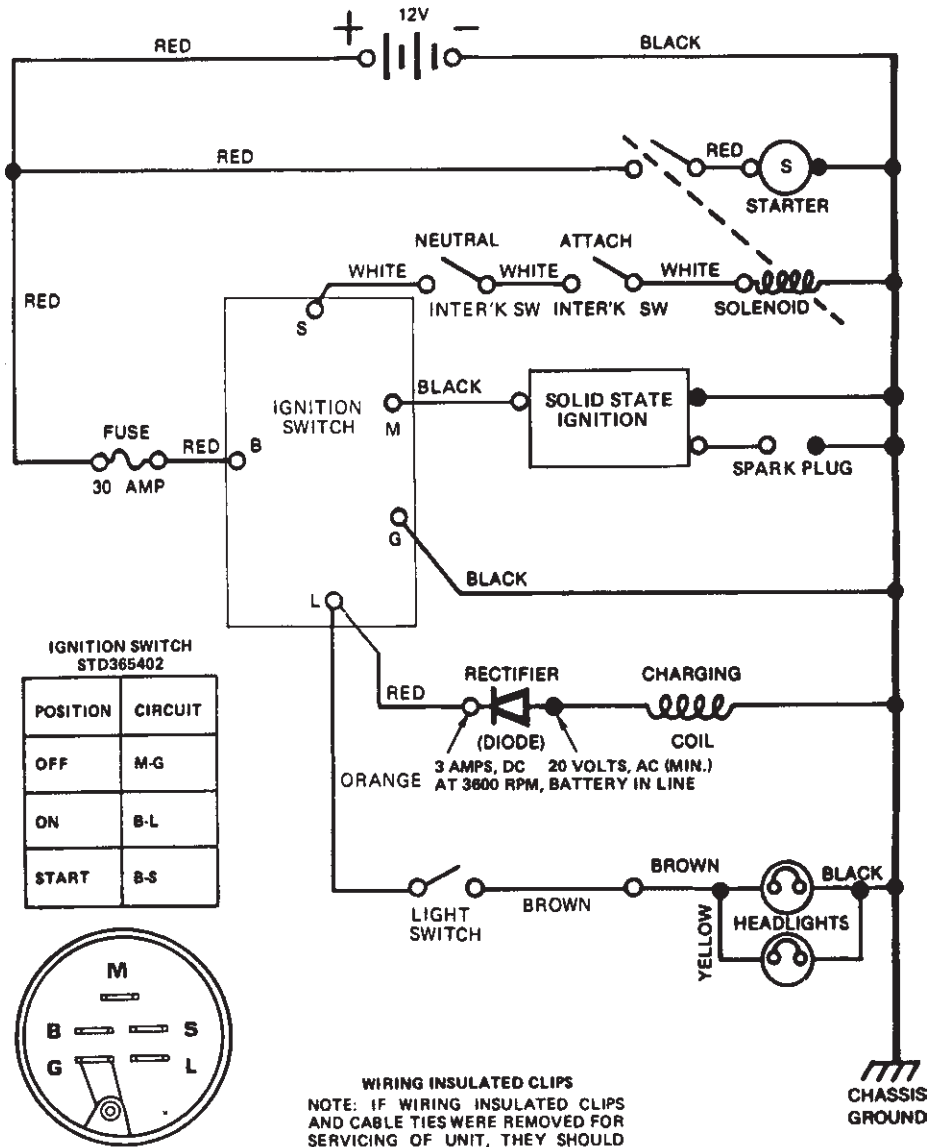
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If Insulated Clips were removed for servicing of unit, they should be replaced to properly secure your wiring.

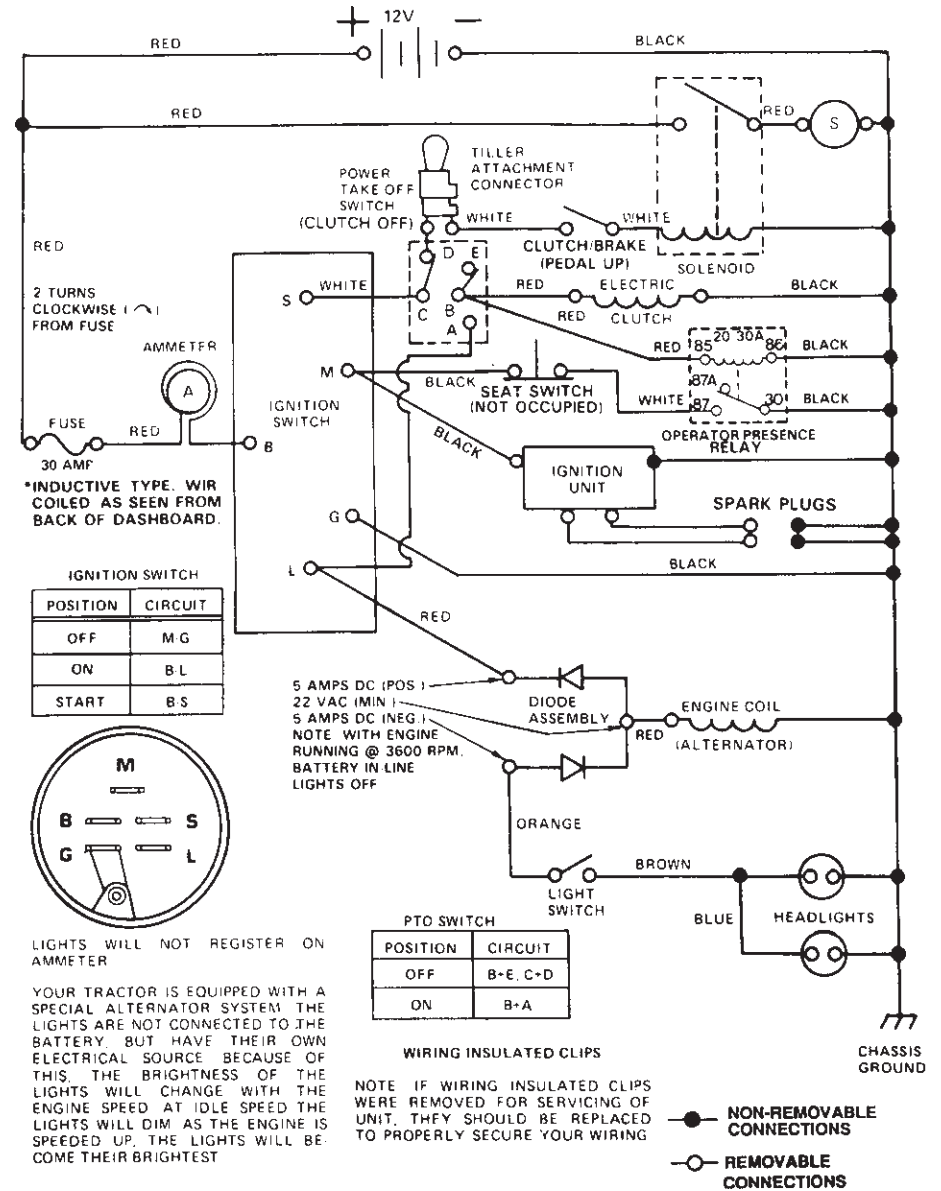
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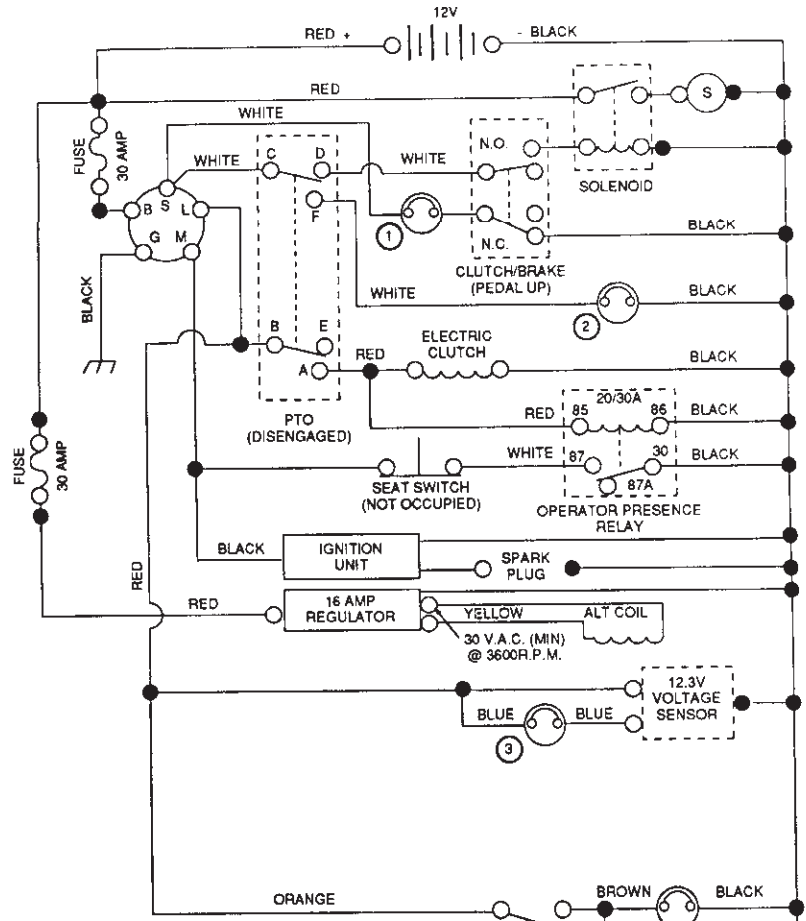
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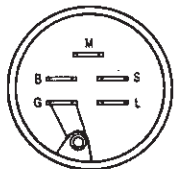
SCHEMATIC NUMBER

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INDICATOR LIGHTS

- ① DEPRESS FOOT PEDAL
- ② DISENGAGE ATTACHMENT
- ③ BATTERY DISCHARGING

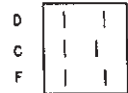


IGNITION SWITCH

POSITION	CIRCUIT
OFF	M-G
ON	B-L
START	B-S

PTO SWITCH

POSITION	CIRCUIT MAKE
OFF	B&E, C&D
ON	B&A, C&F

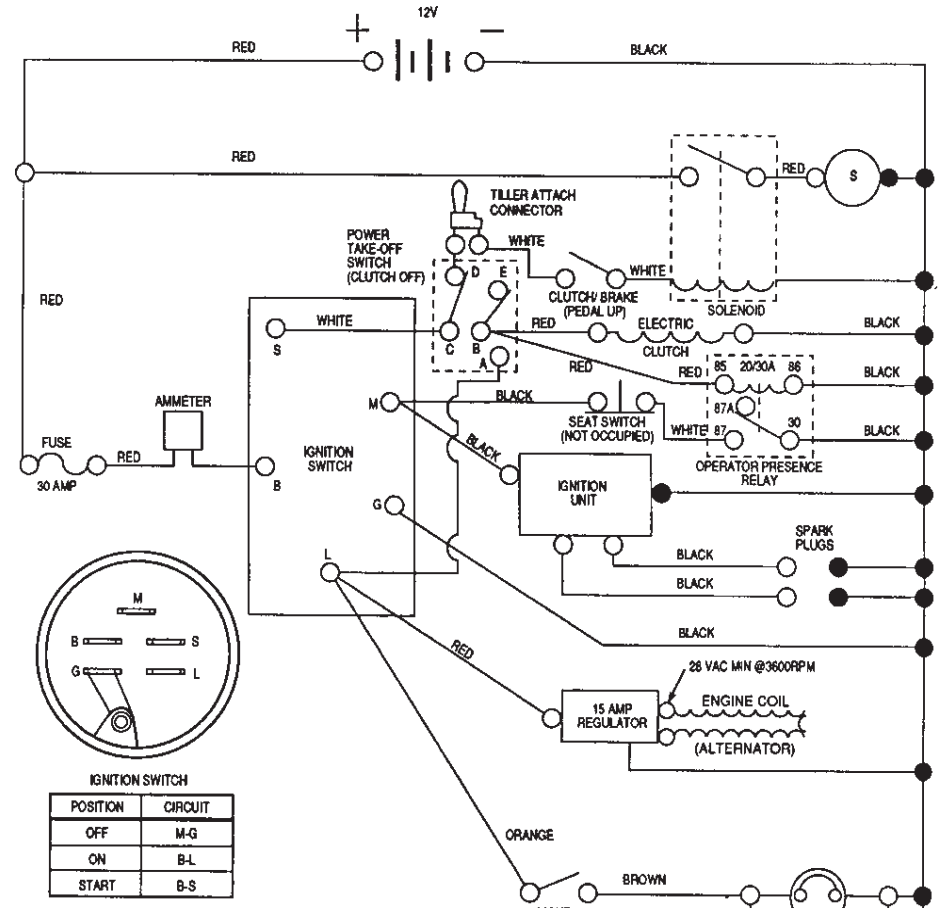


WIRING INSULATED CLIPS

NOTE: If wiring insulated clips were removed for servicing of unit, they should be replaced to properly secure your wiring.

SCHEMATIC NUMBER

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IGNITION SWITCH

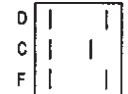
POSITION	CIRCUIT
OFF	M-G
ON	B-L
START	B-S

WIRING INSULATED CLIPS

NOTE: If wiring insulated clips were removed for servicing of unit, they should be replaced to properly secure your wiring.

PTO SWITCH

POSITION	CIRCUIT
OFF	B&E, C&D
ON	B&A

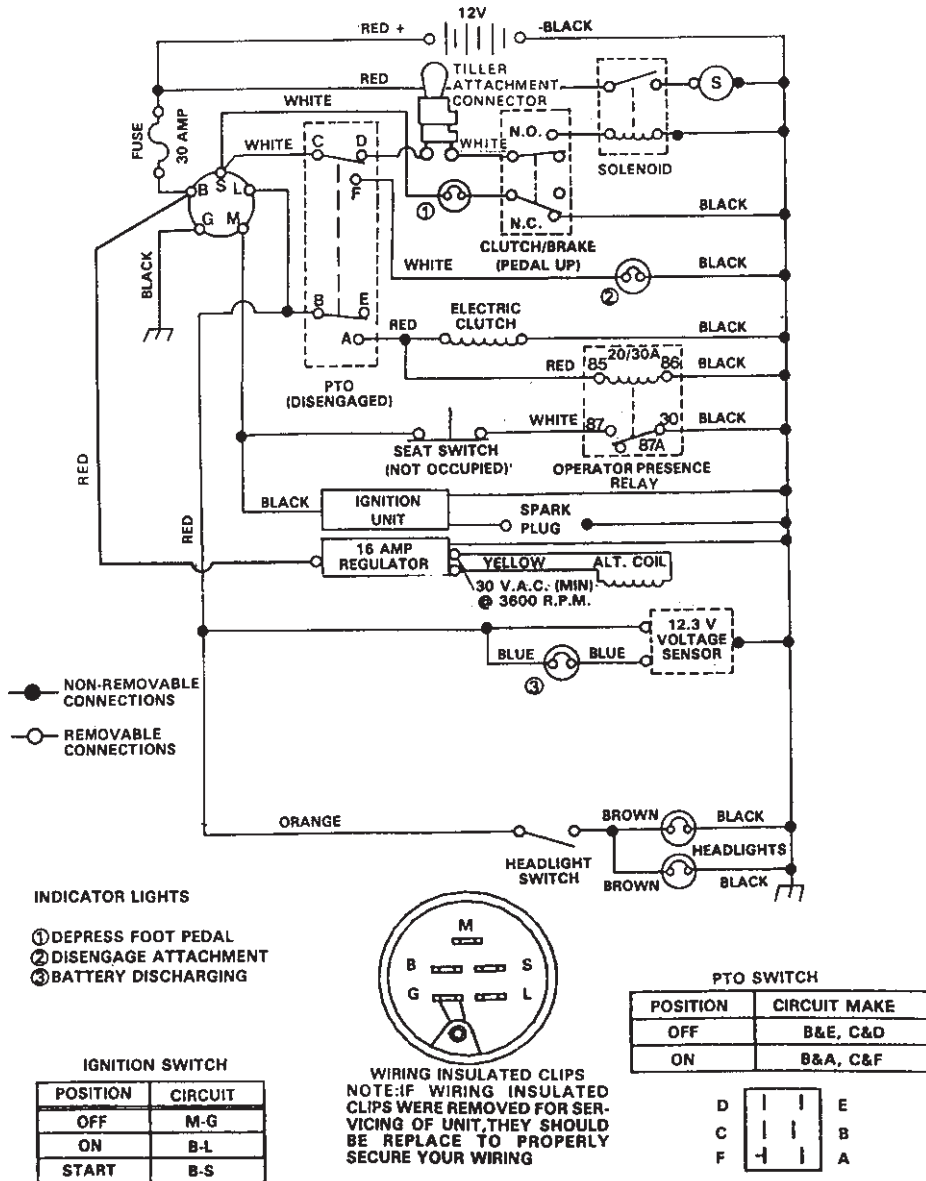


- Removable Connectors
- Non-removable Connectors

CHASSIS GROUND

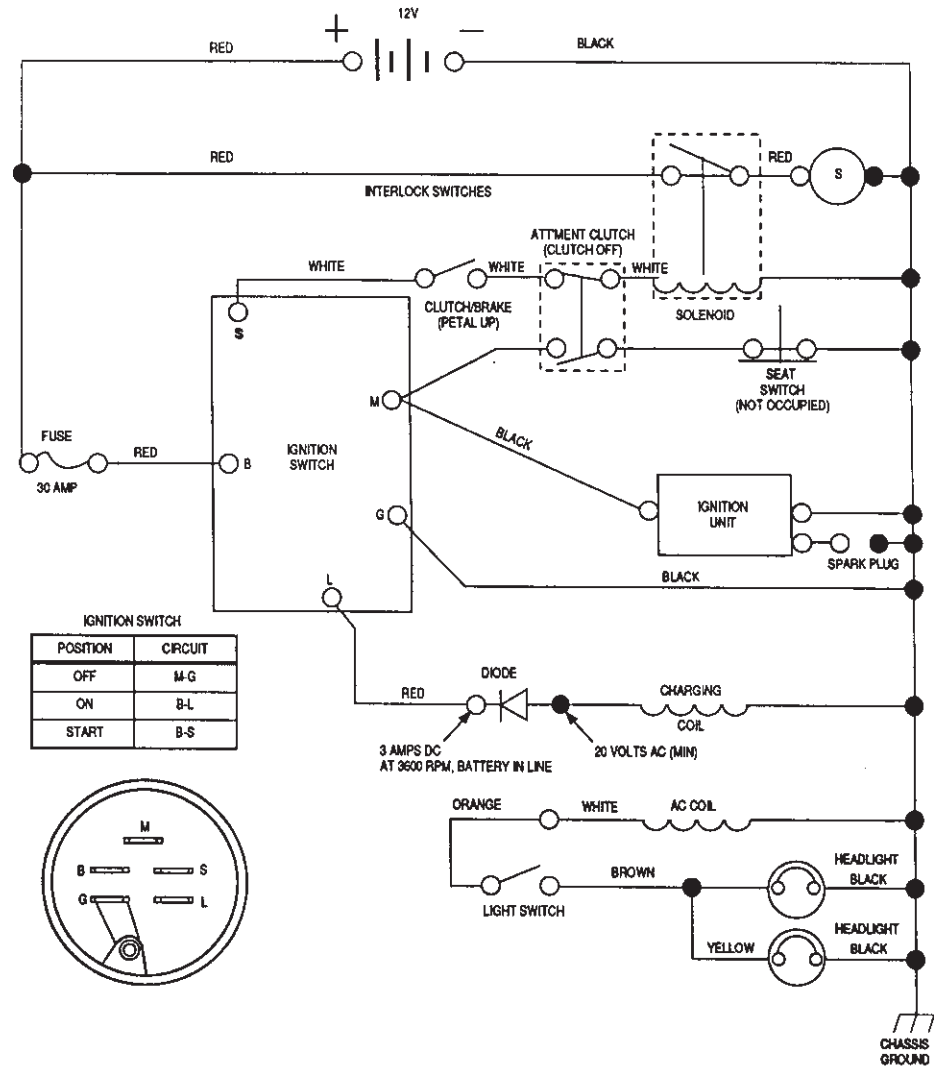
SCHEMATIC NUMBER

284



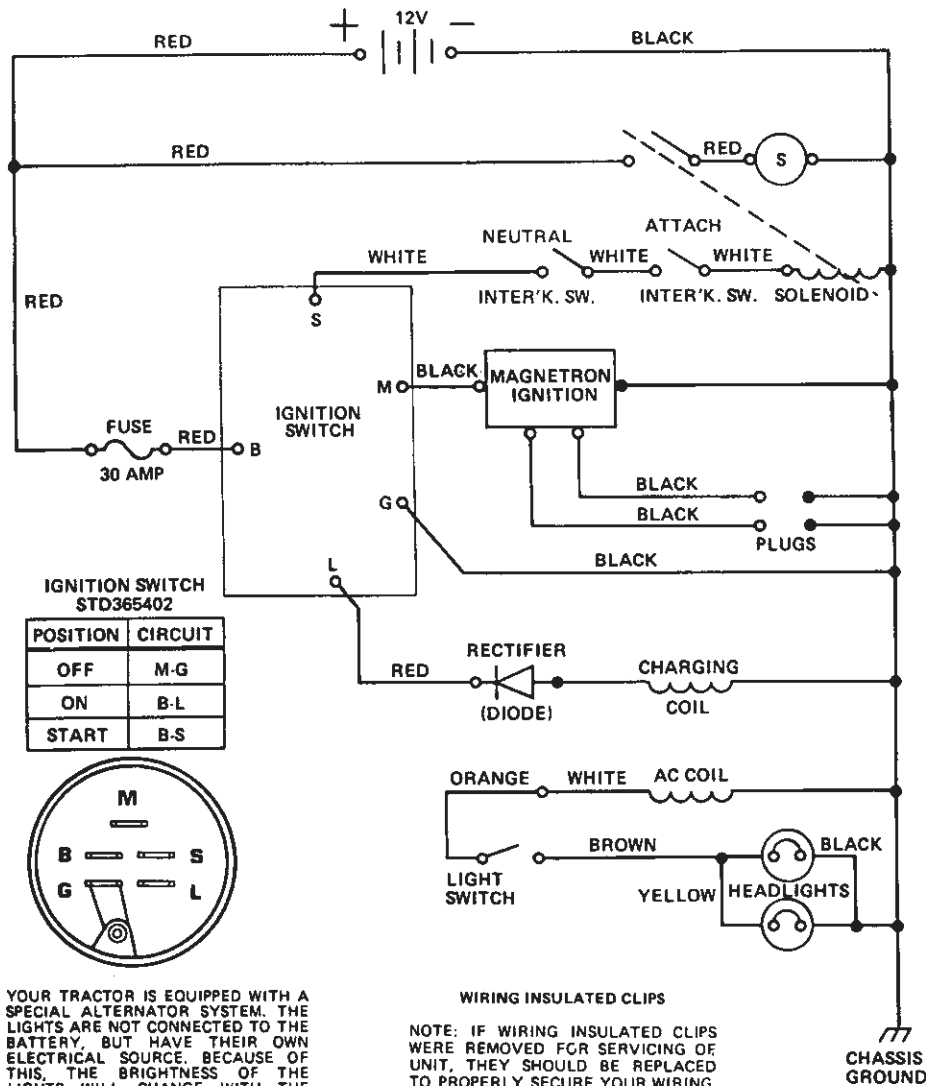
SCHEMATIC NUMBER

285



SCHEMATIC NUMBER

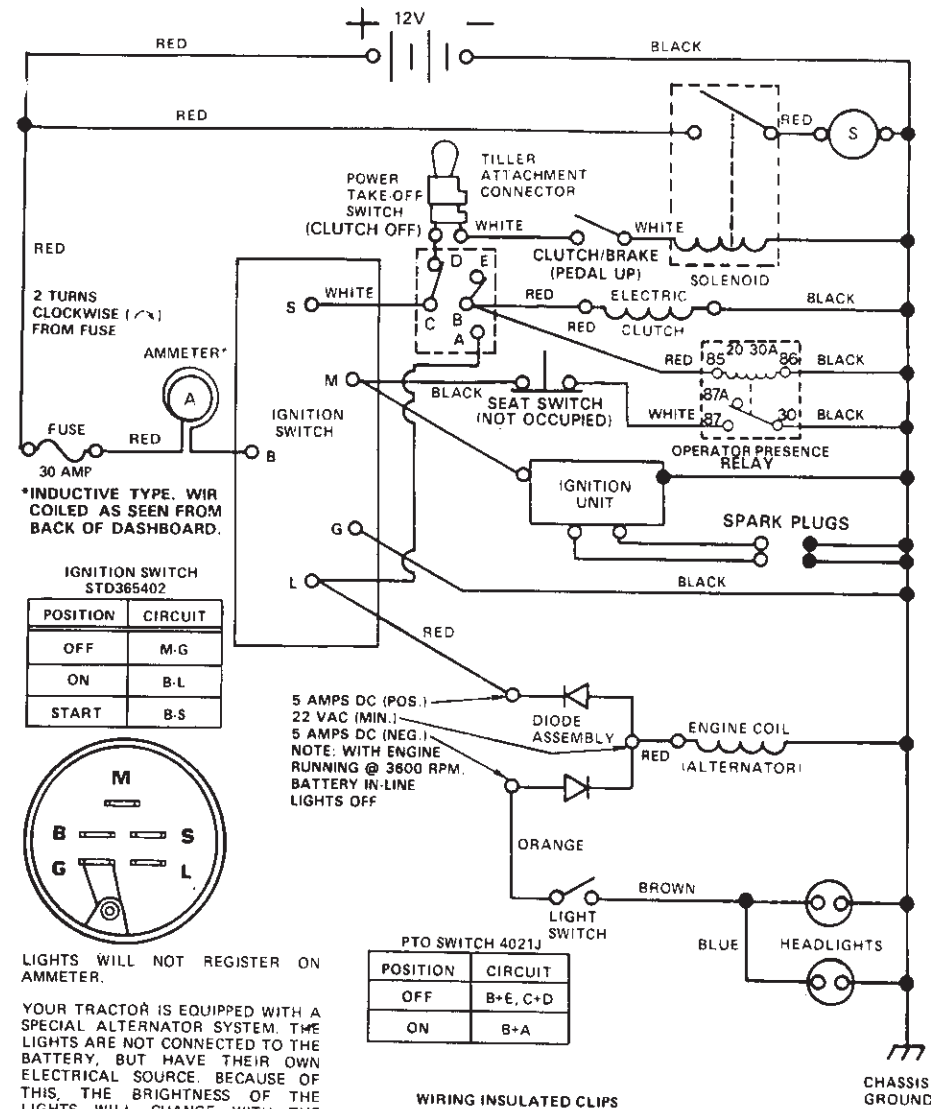
286



YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH THE ENGINE SPEED. AT IDLE SPEED THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

SCHEMATIC NUMBER

287

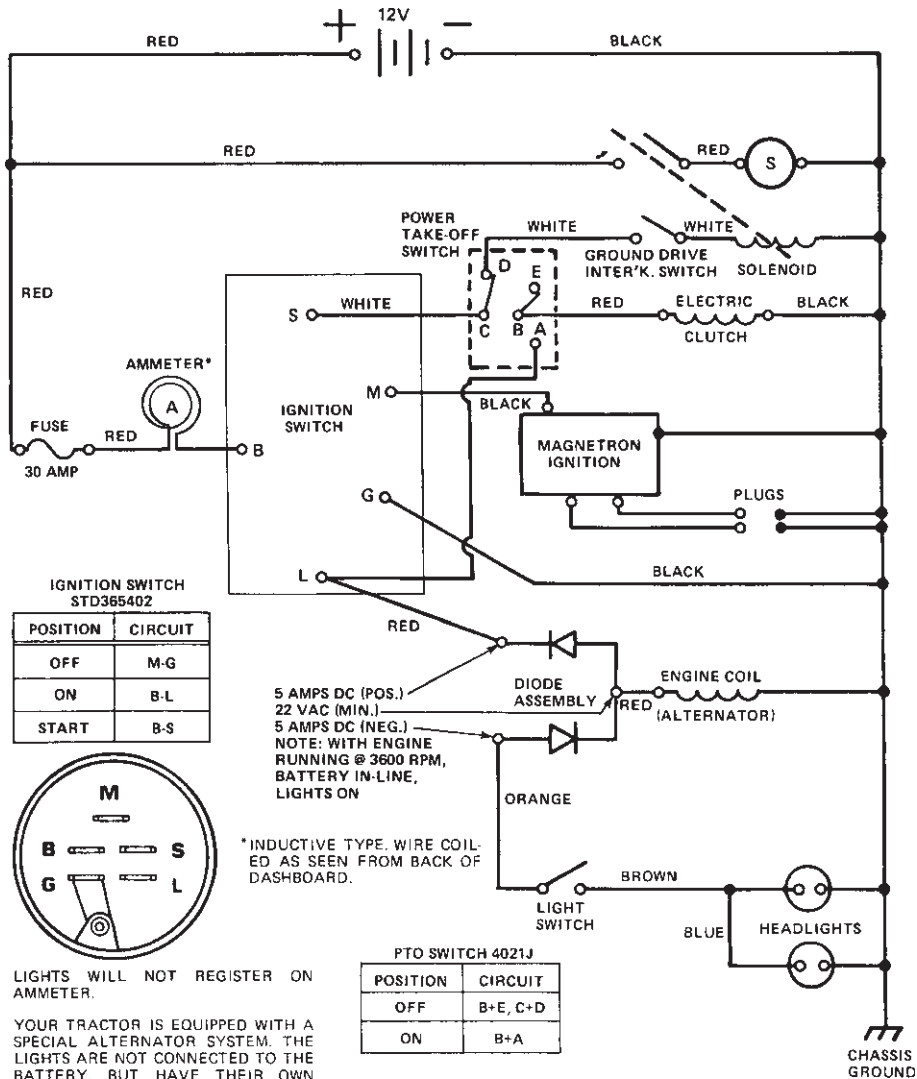


LIGHTS WILL NOT REGISTER ON AMMETER.

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH THE ENGINE SPEED. AT IDLE SPEED THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

SCHEMATIC NUMBER

290



LIGHTS WILL NOT REGISTER ON AMMETER.

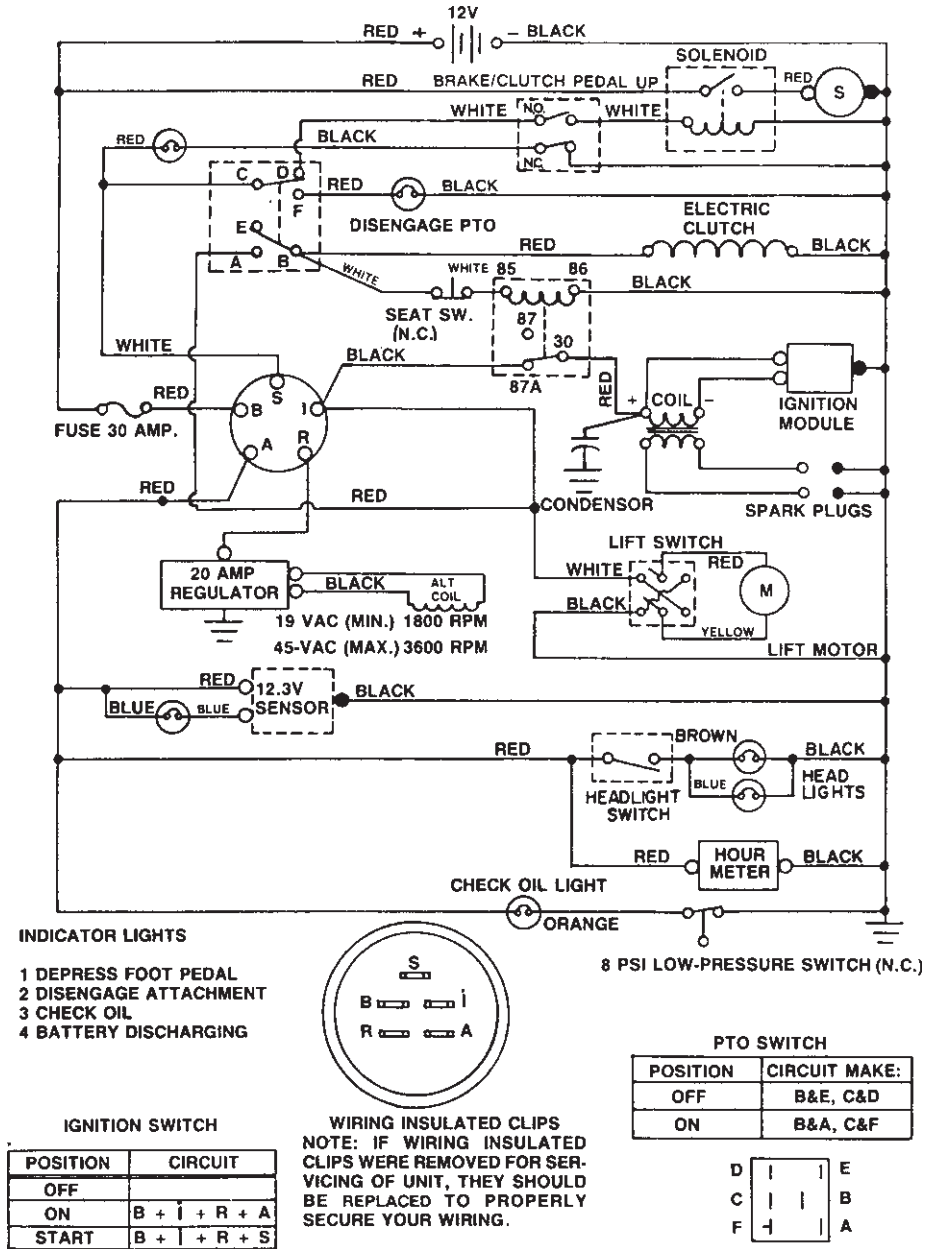
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH THE ENGINE SPEED. AT IDLE SPEED THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

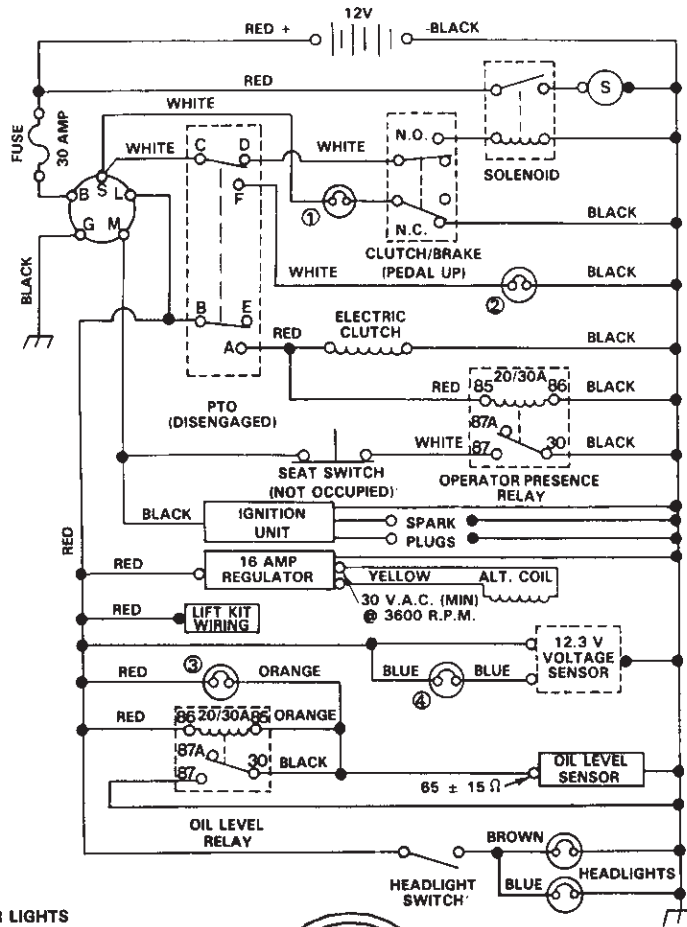
SCHEMATIC NUMBER

291



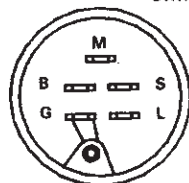
SCHEMATIC NUMBER

293



INDICATOR LIGHTS

- ① DEPRESS FOOT PEDAL
- ② DISENGAGE ATTACHMENT
- ③ CHECK OIL
- ④ BATTERY DISCHARGING

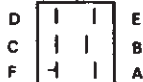


WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

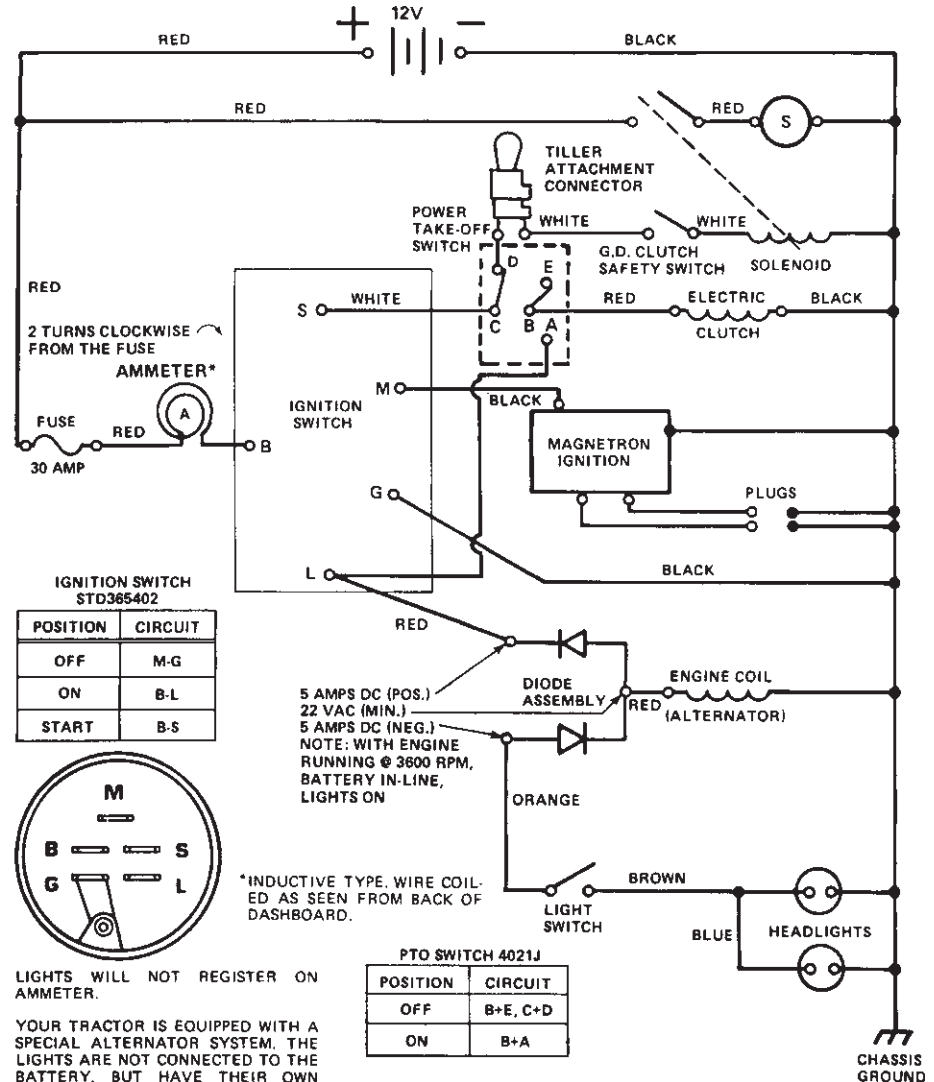
POSITION	CIRCUIT
OFF	M-G
ON	B-L
START	B-S

PTO SWITCH	
POSITION	CIRCUIT MAKE
OFF	B&E, C&D
ON	B&A, C&F

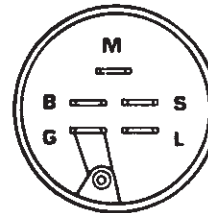


SCHEMATIC NUMBER

294



POSITION	CIRCUIT
OFF	M-G
ON	B-L
START	B-S



LIGHTS WILL NOT REGISTER ON AMMETER.

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH THE ENGINE SPEED. AT IDLE SPEED THE LIGHTS WILL DIM, AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

*INDUCTIVE TYPE. WIRE COILED AS SEEN FROM BACK OF DASHBOARD.

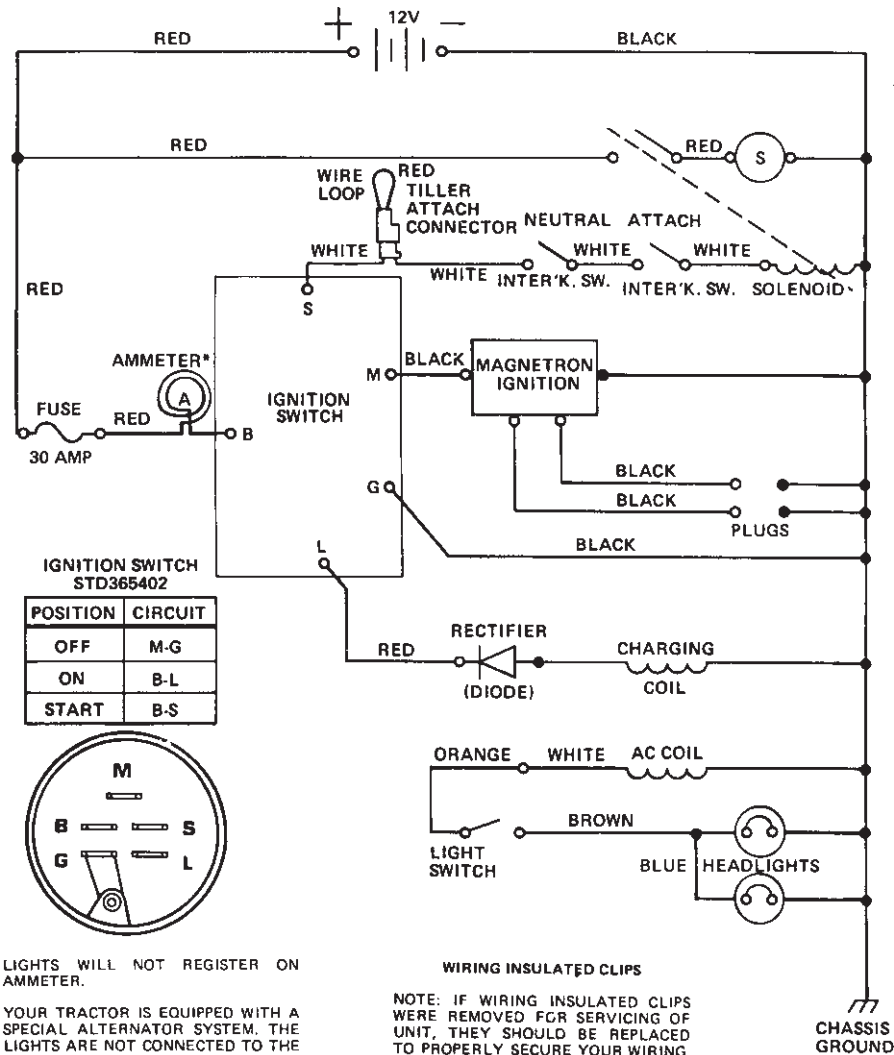
PTO SWITCH 4021J	
POSITION	CIRCUIT
OFF	B+E, C+D
ON	B+A

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

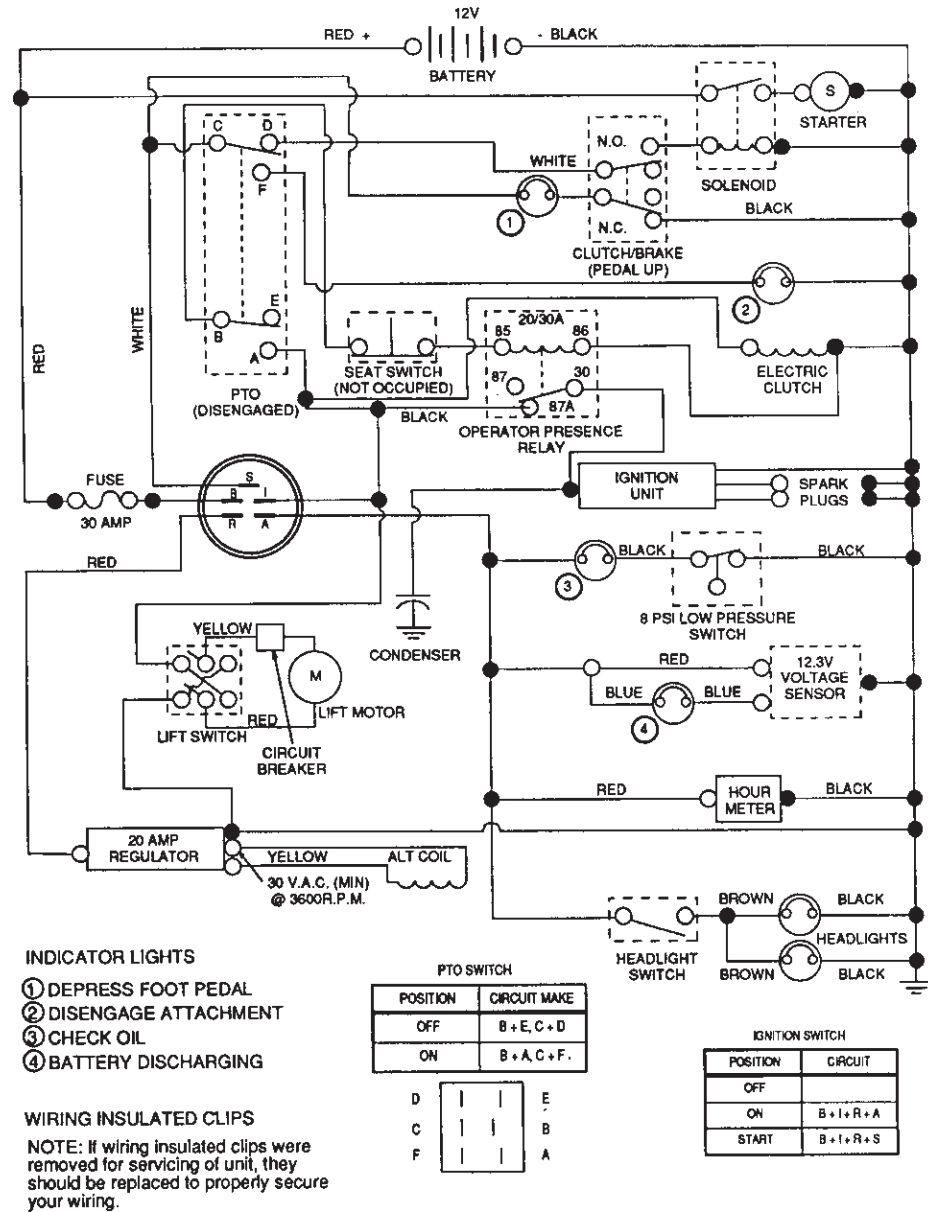
SCHEMATIC NUMBER

295



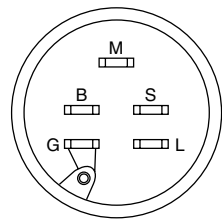
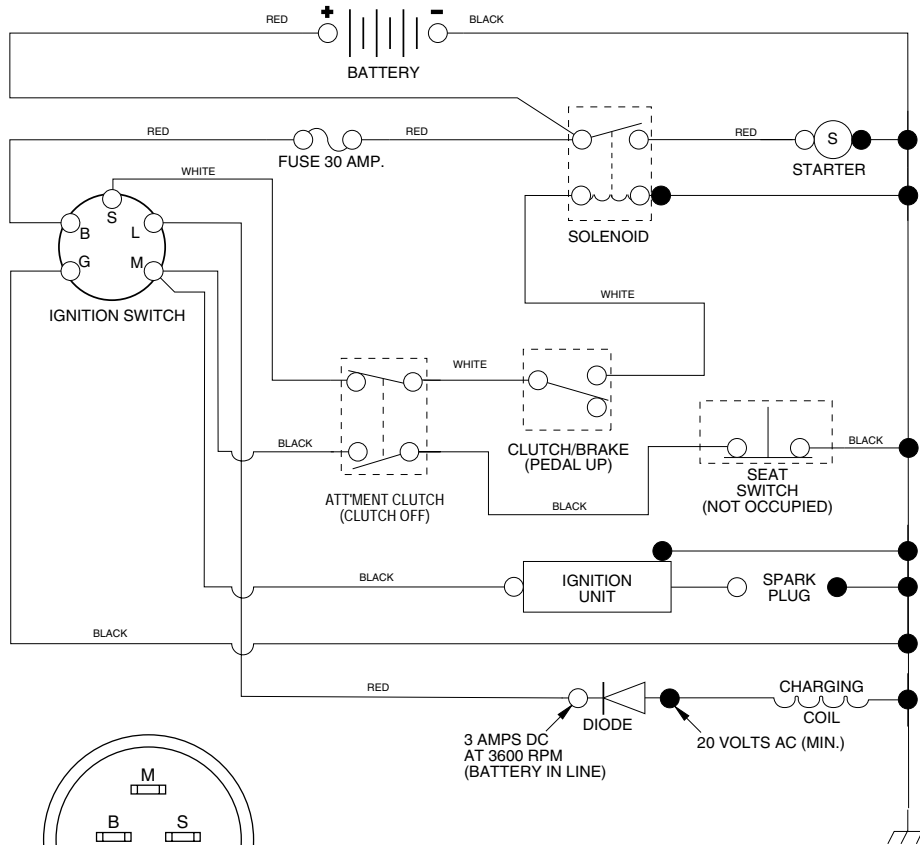
SCHEMATIC NUMBER

296



SCHEMATIC NUMBER

842



IGNITION SWITCH

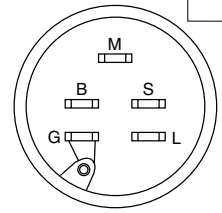
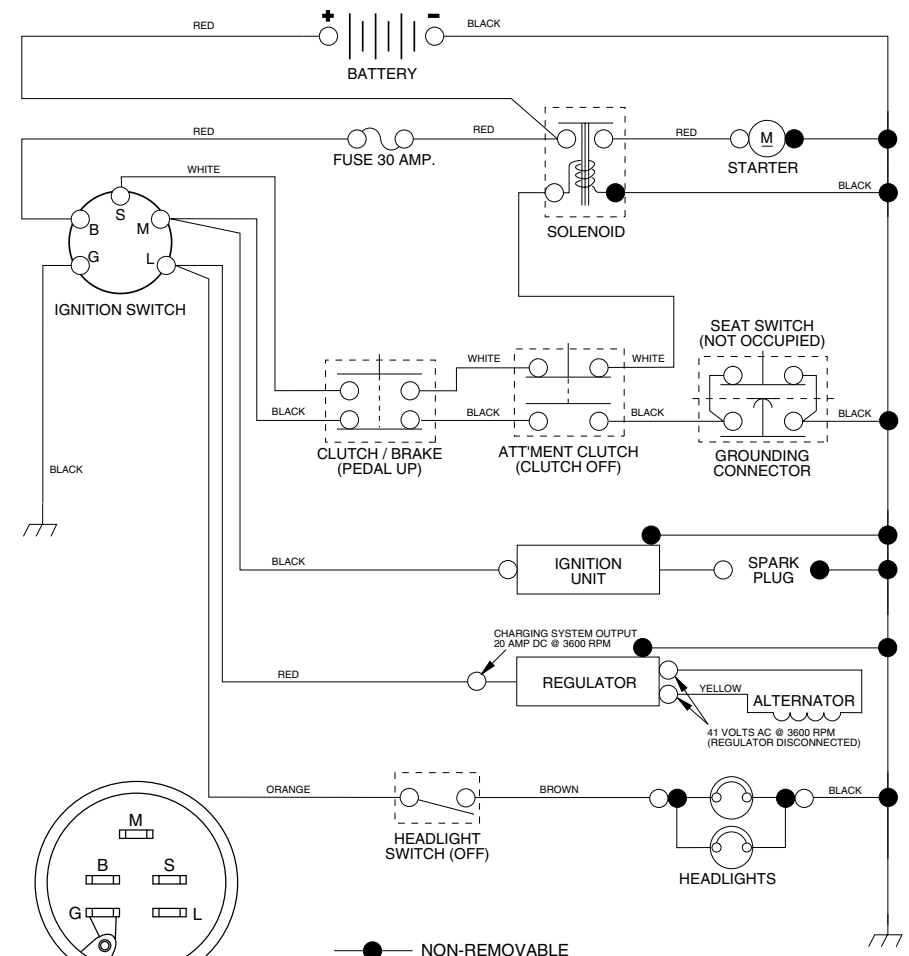
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

843



IGNITION SWITCH

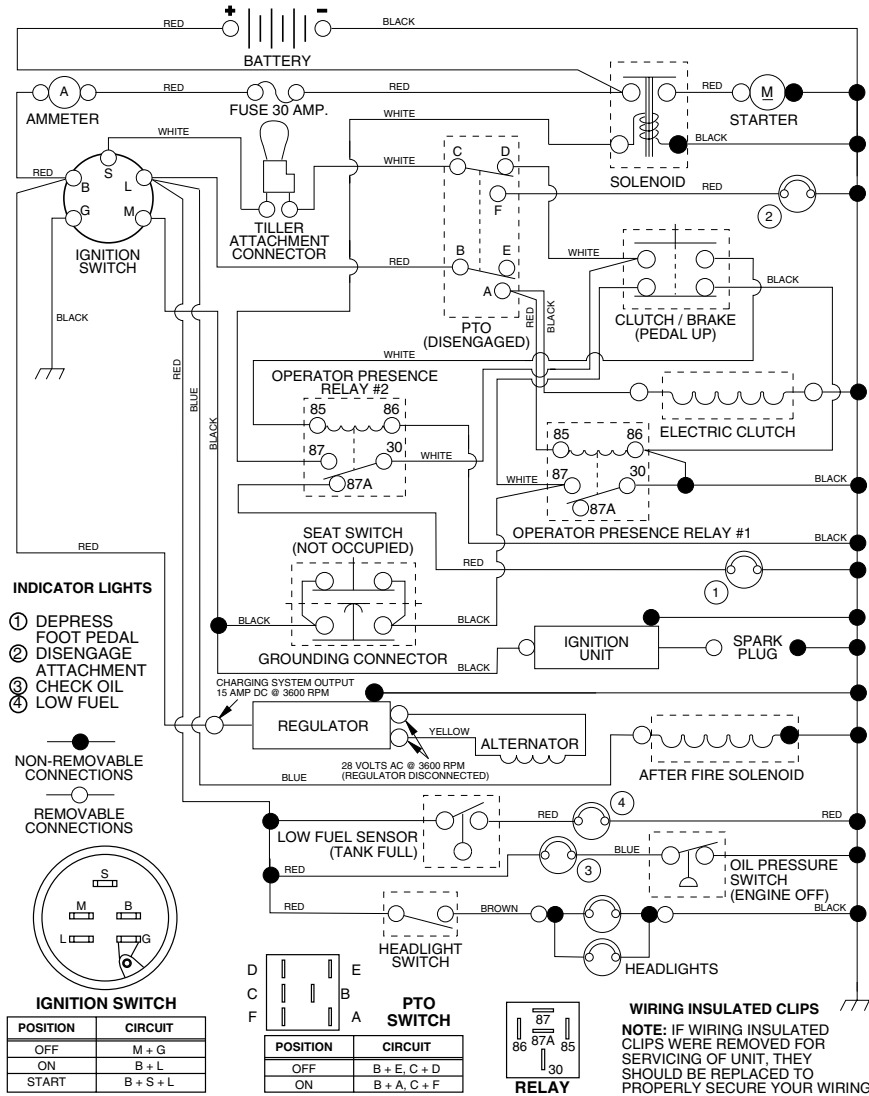
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

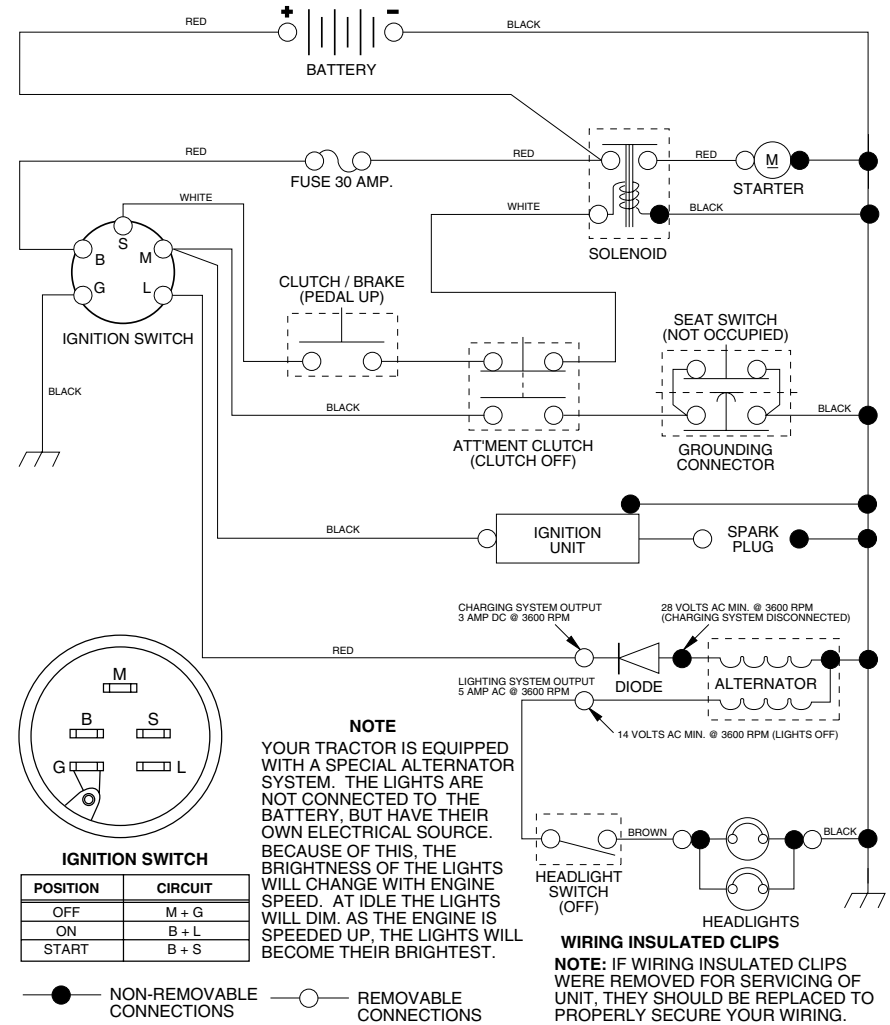
SCHEMATIC NUMBER

852



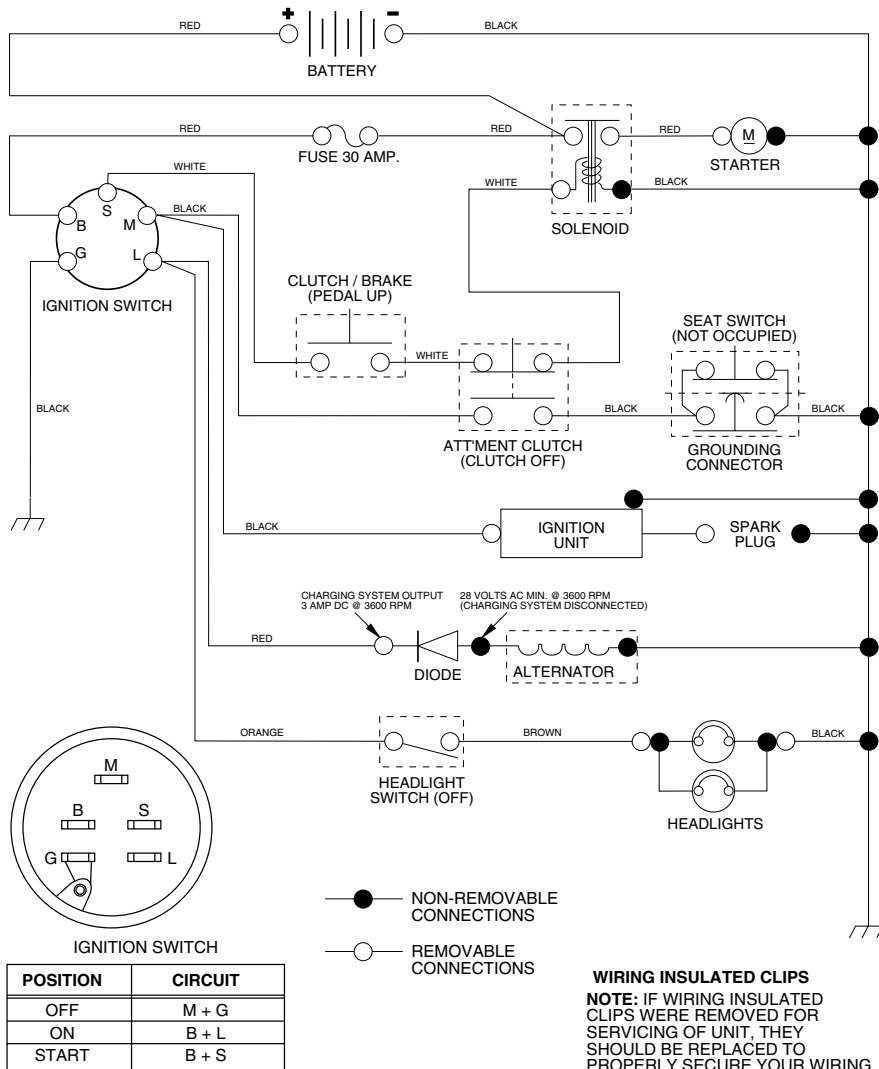
SCHEMATIC NUMBER

884



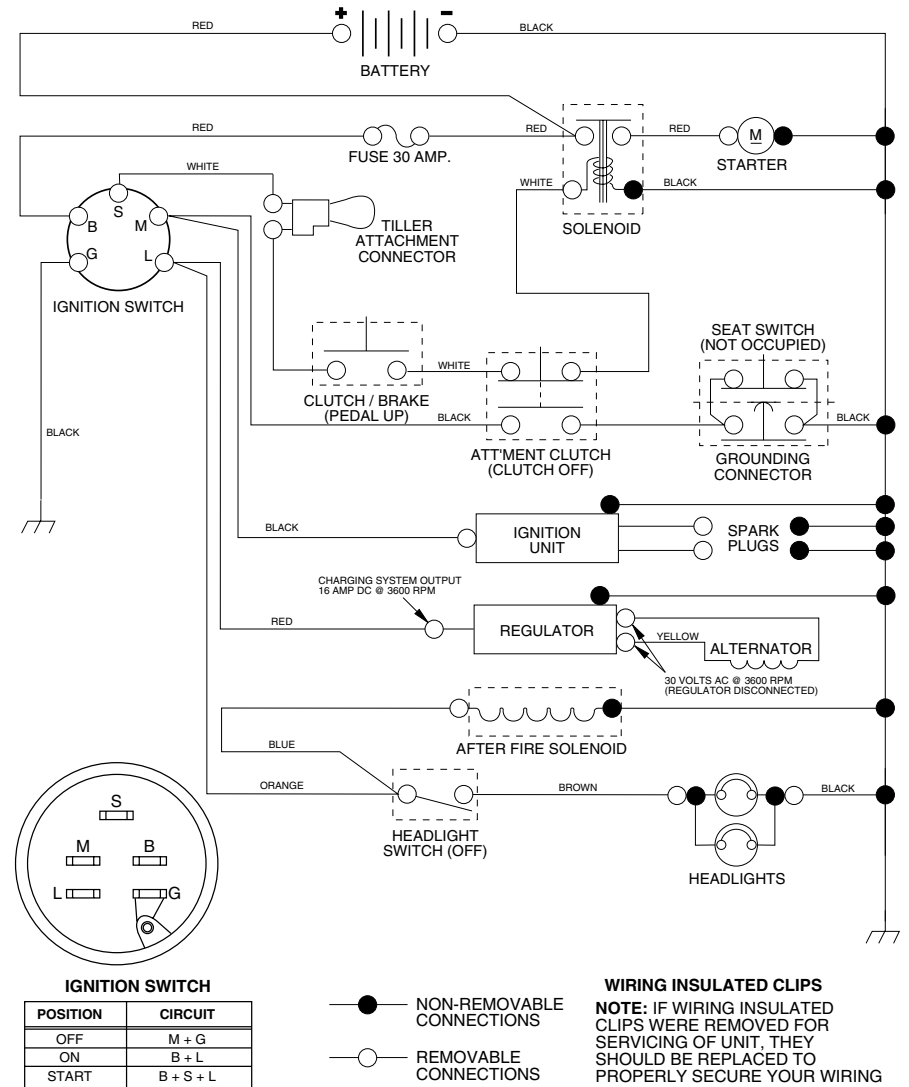
SCHEMATIC NUMBER

918



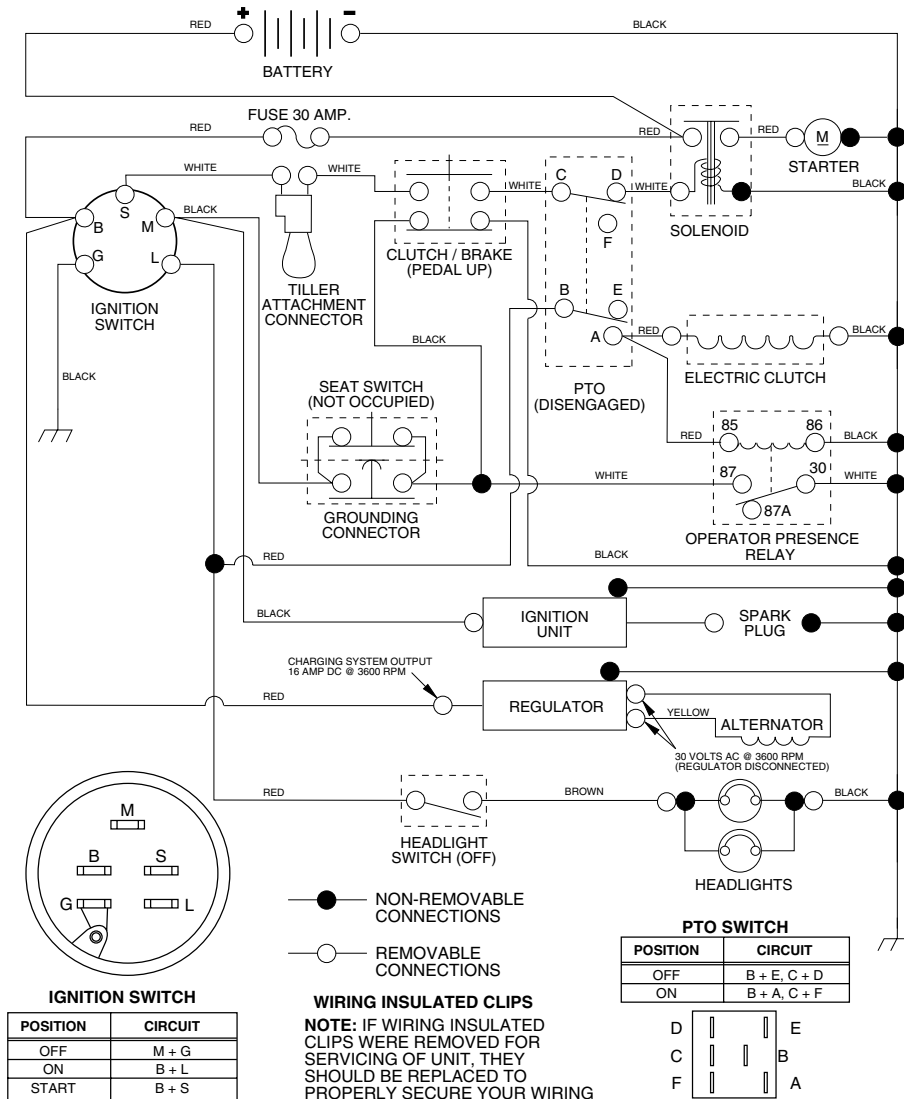
SCHEMATIC NUMBER

933



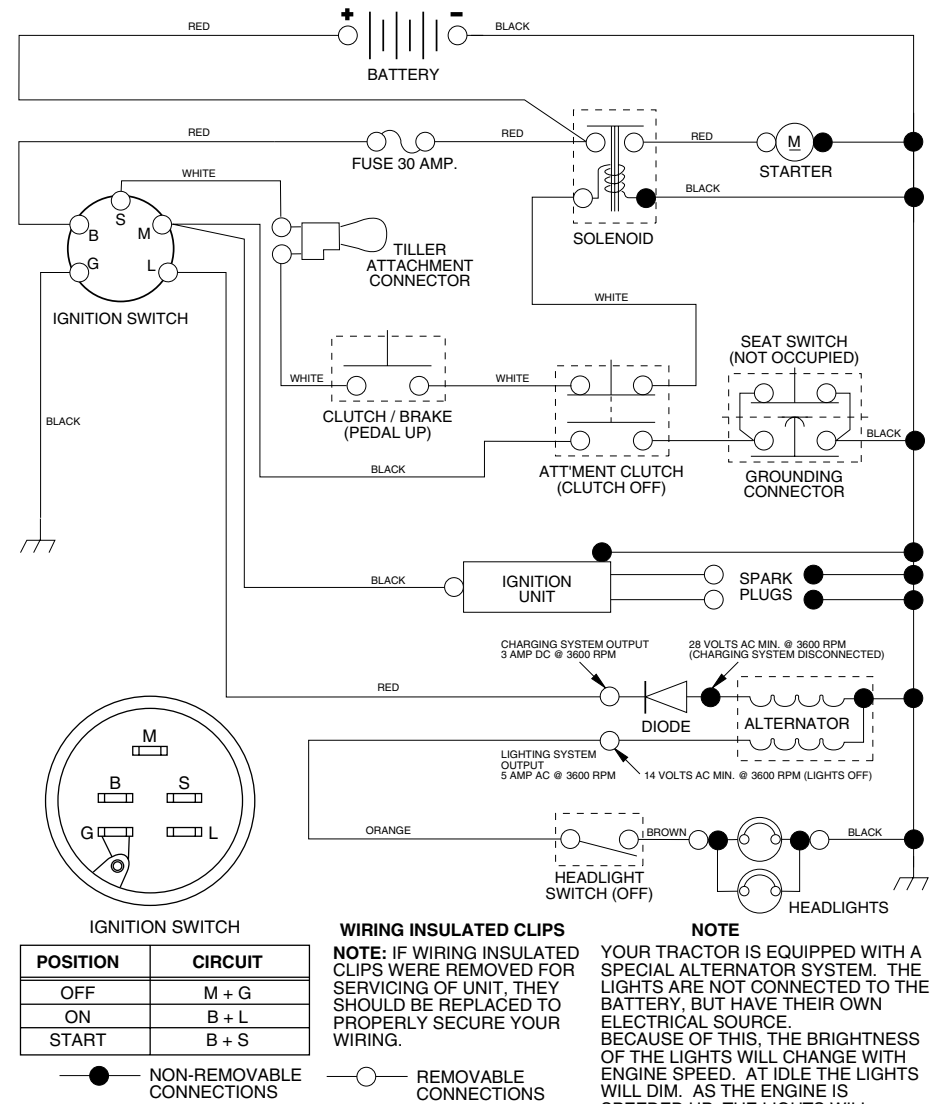
SCHEMATIC NUMBER

934



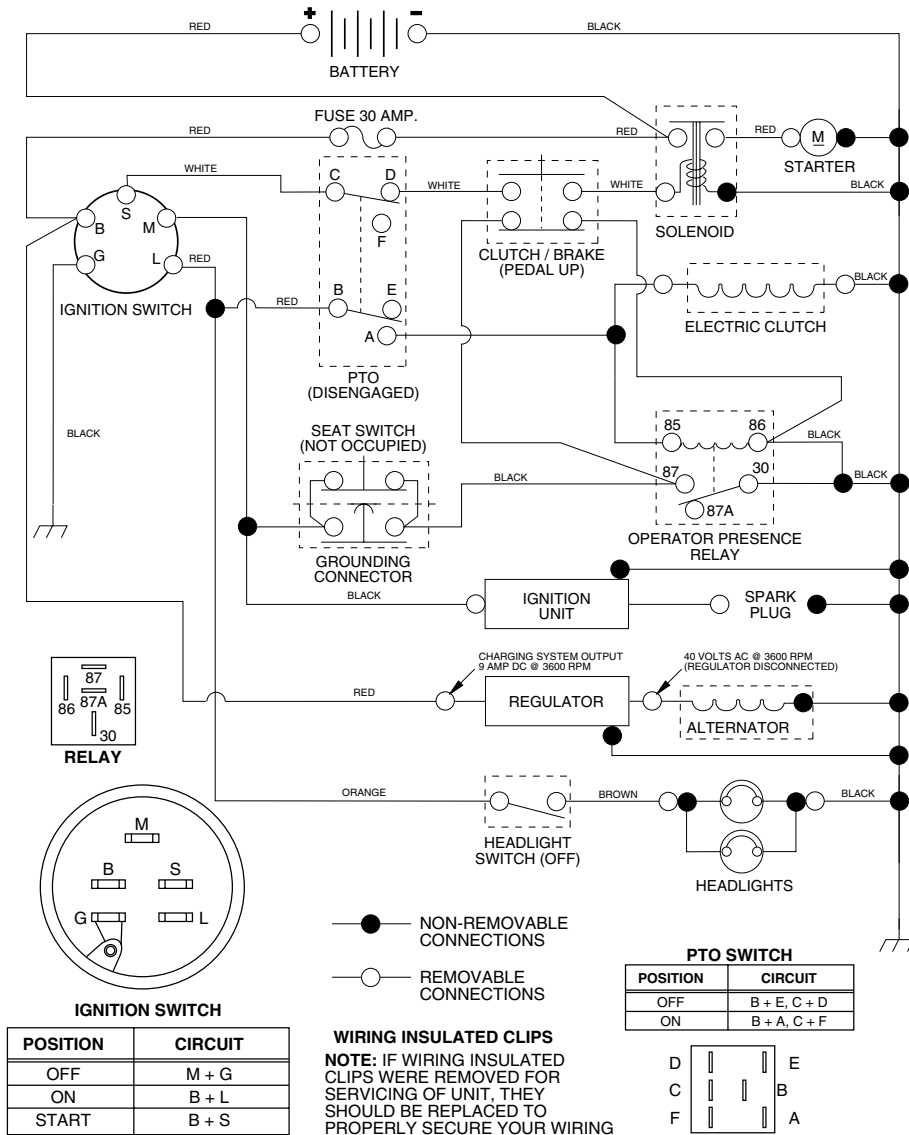
SCHEMATIC NUMBER

935



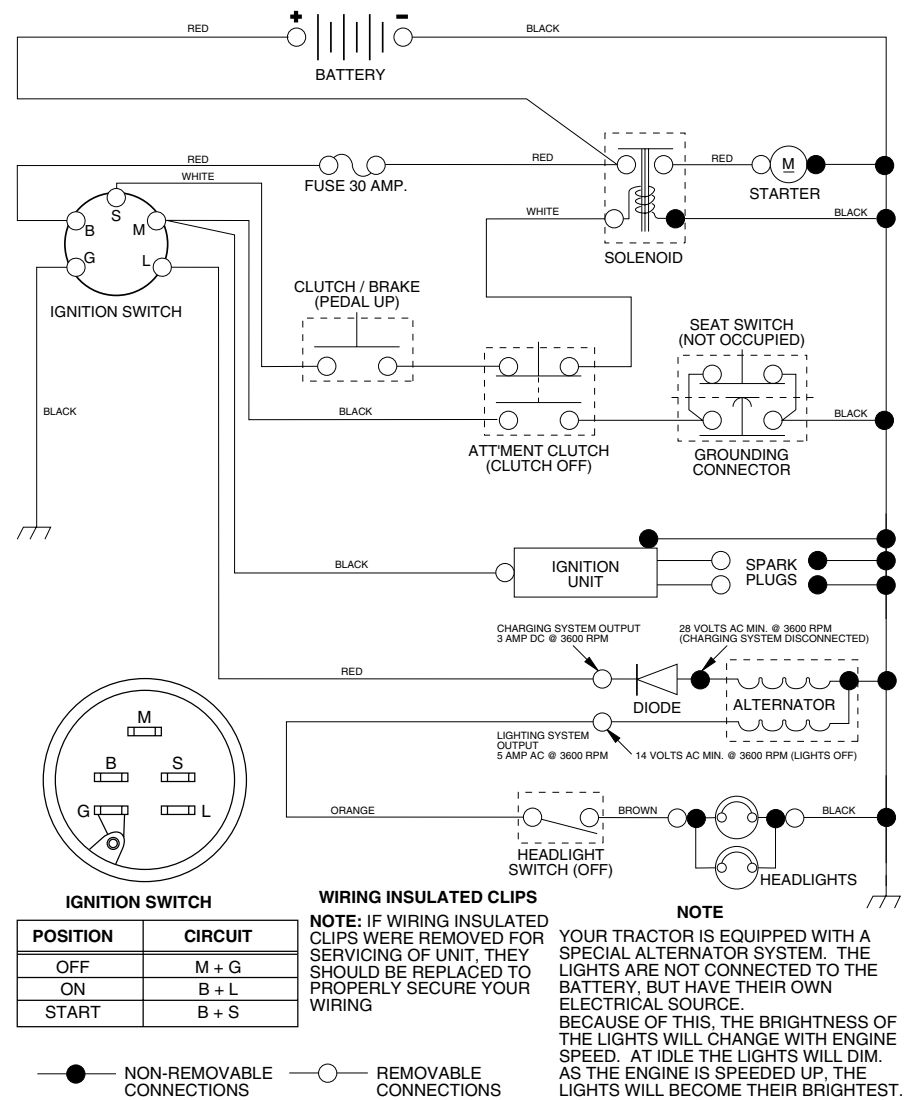
SCHEMATIC NUMBER

987



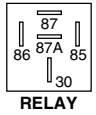
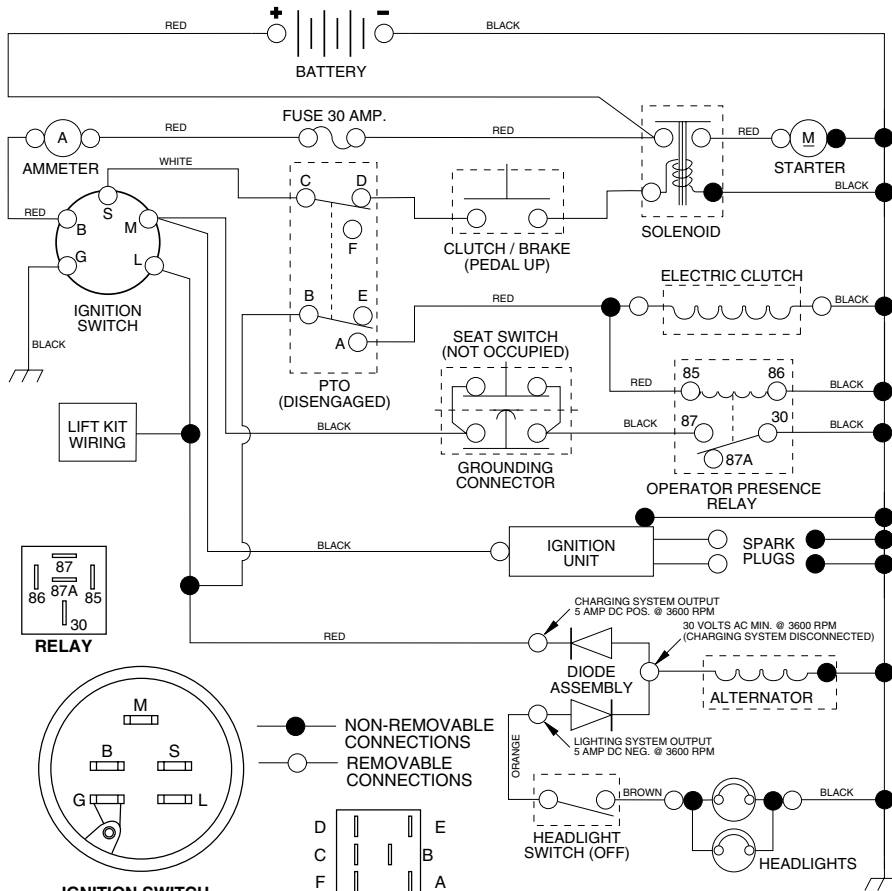
SCHEMATIC NUMBER

989

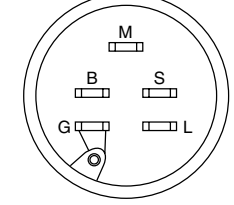


SCHEMATIC NUMBER

1001

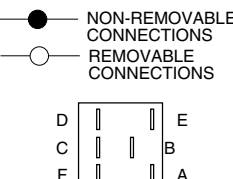


RELAY



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S



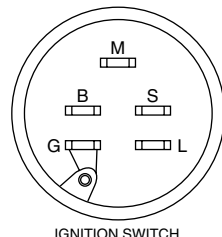
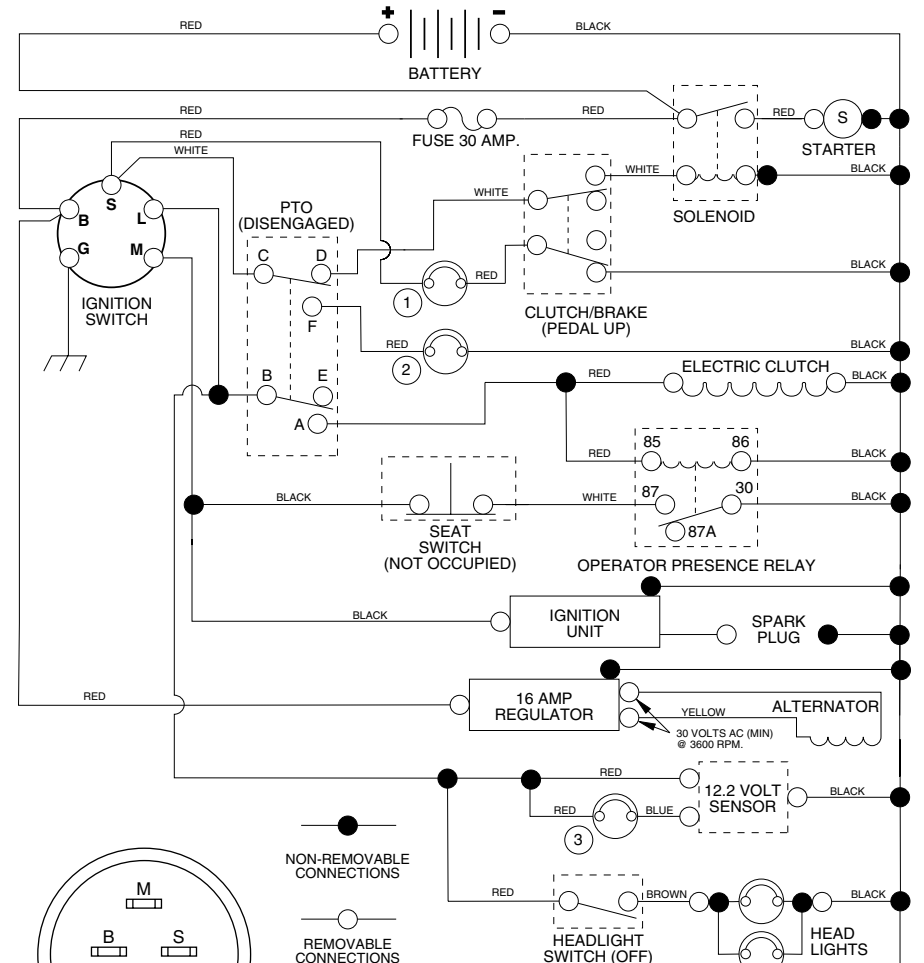
PTO SWITCH

POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

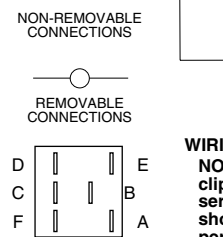
SCHEMATIC NUMBER

1002



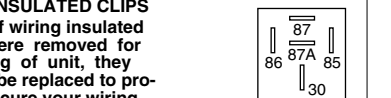
IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S



PTO SWITCH

POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F



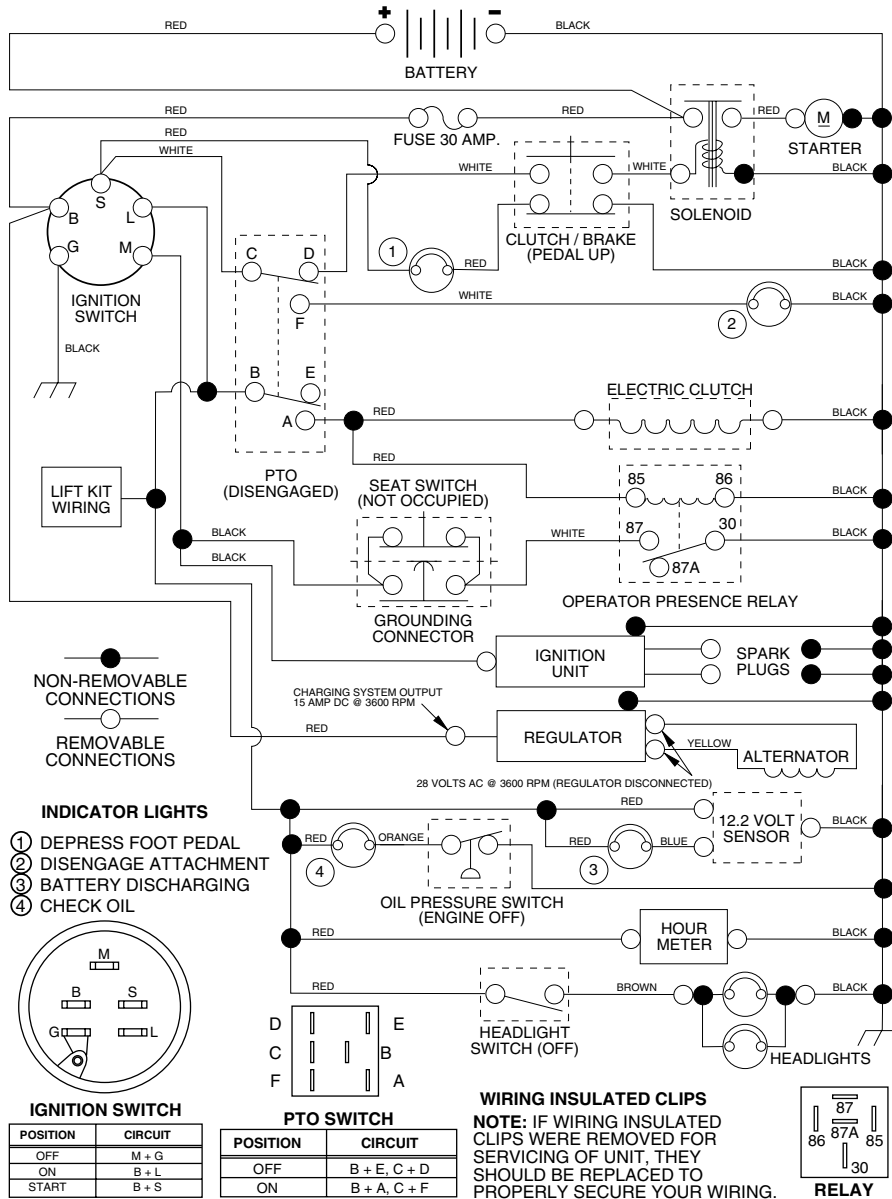
RELAY

WIRING INSULATED CLIPS
NOTE: If wiring insulated clips were removed for servicing of unit, they should be replaced to properly secure your wiring.

- INDICATOR LIGHTS**
- ① DEPRESS FOOT PEDAL
 - ② DISENGAGE ATTACHMENT
 - ③ BATTERY DISCHARGING

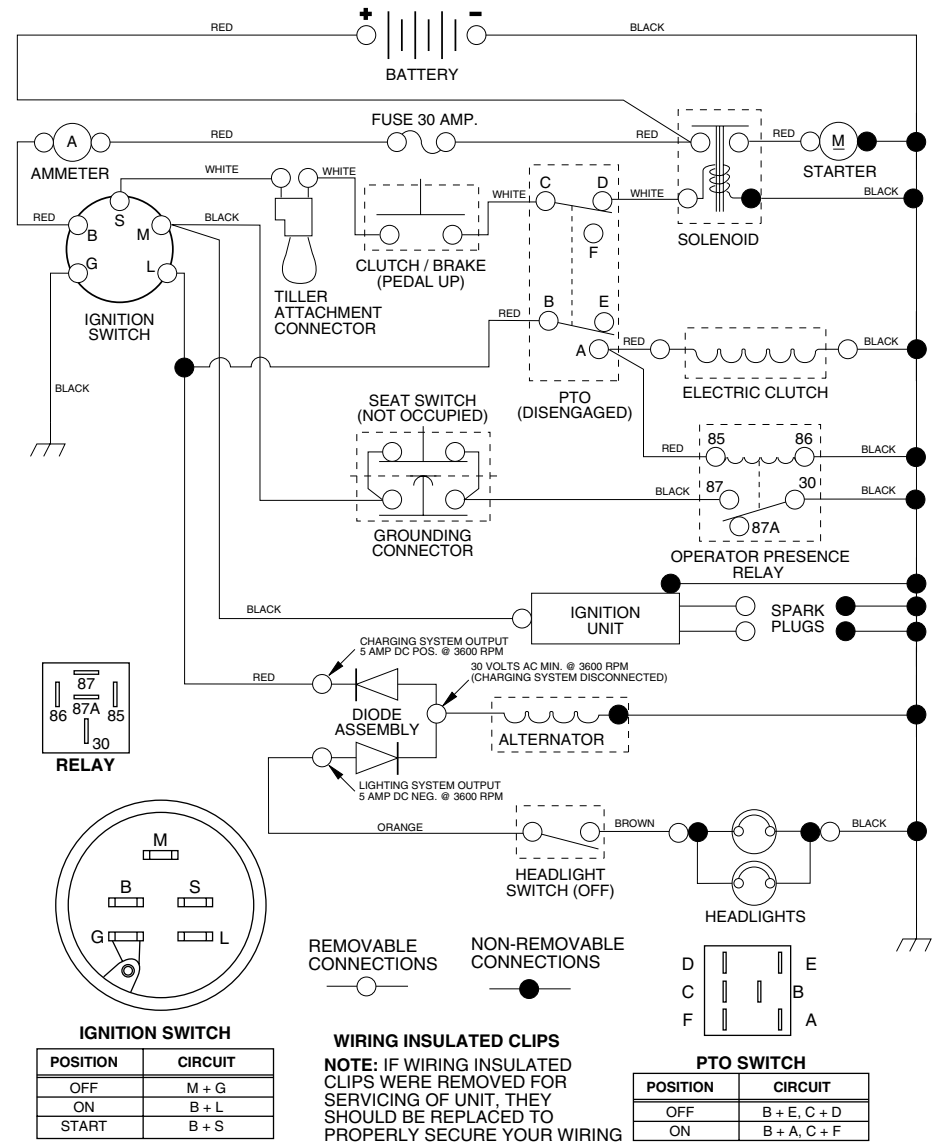
SCHEMATIC NUMBER

1004



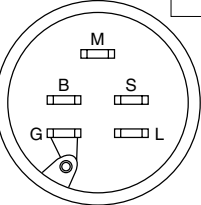
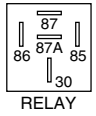
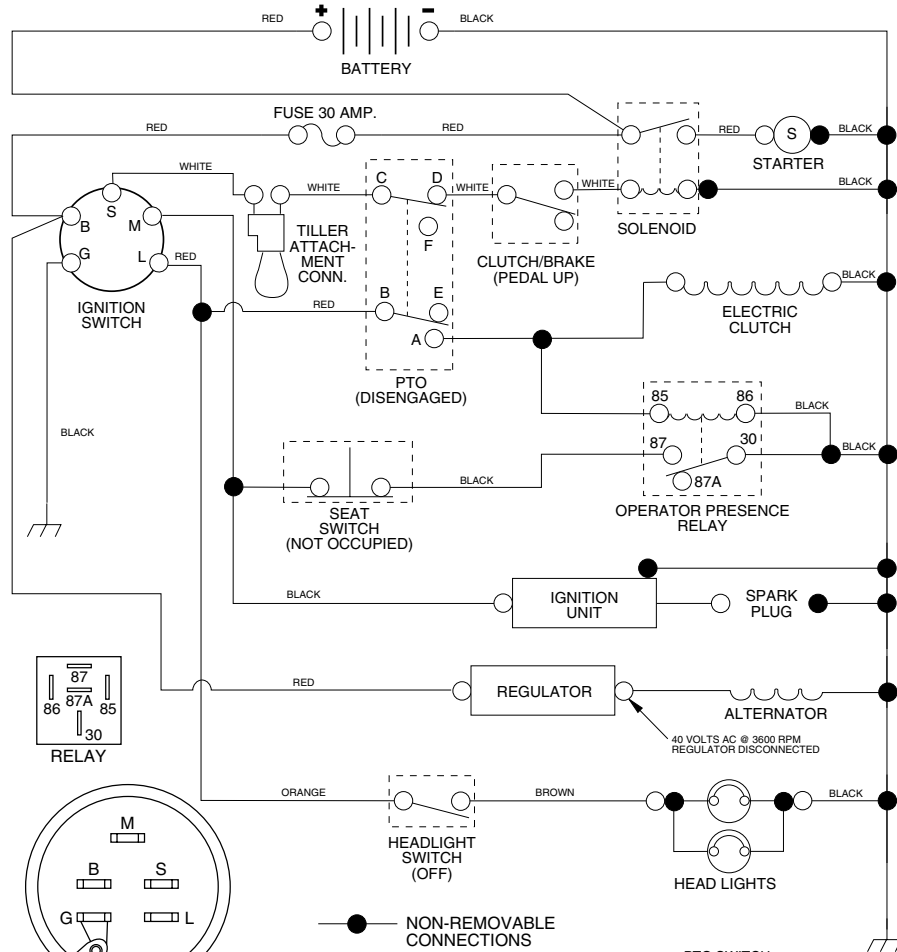
SCHEMATIC NUMBER

1005



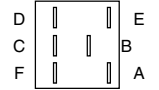
SCHEMATIC NUMBER

1006



- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

PTO SWITCH	
POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F

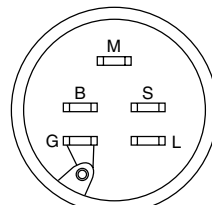
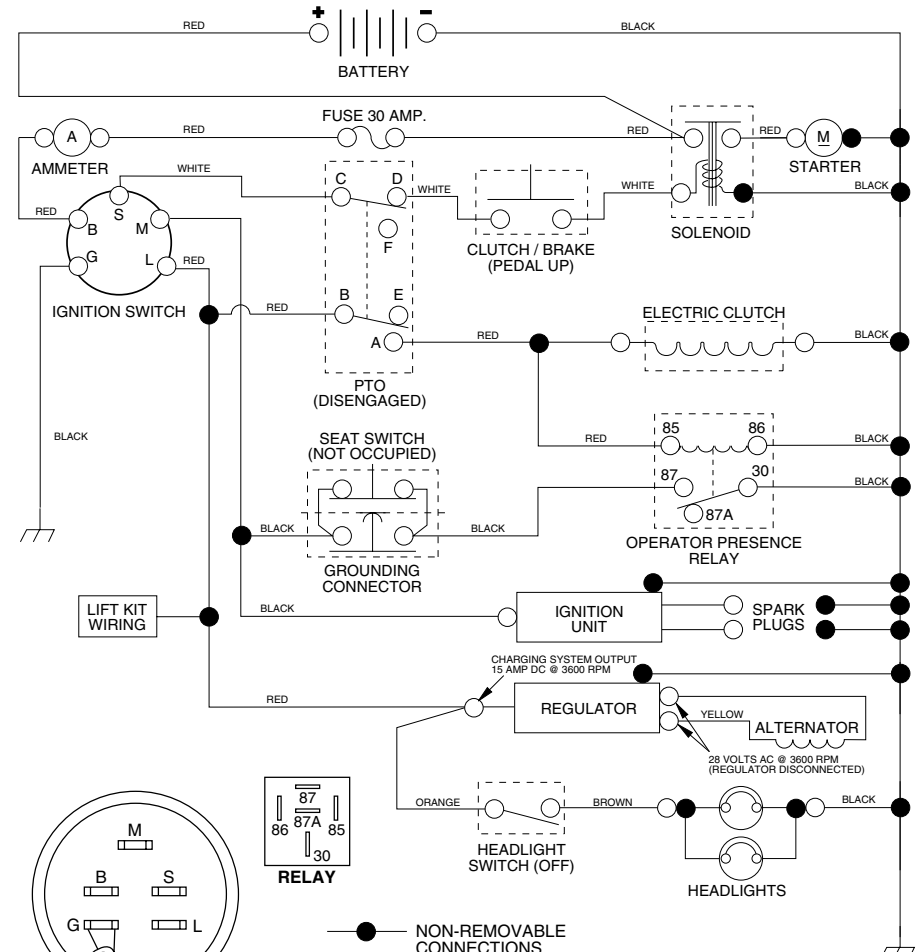


POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

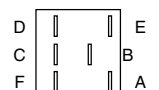
SCHEMATIC NUMBER

1007



- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

PTO SWITCH	
POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F

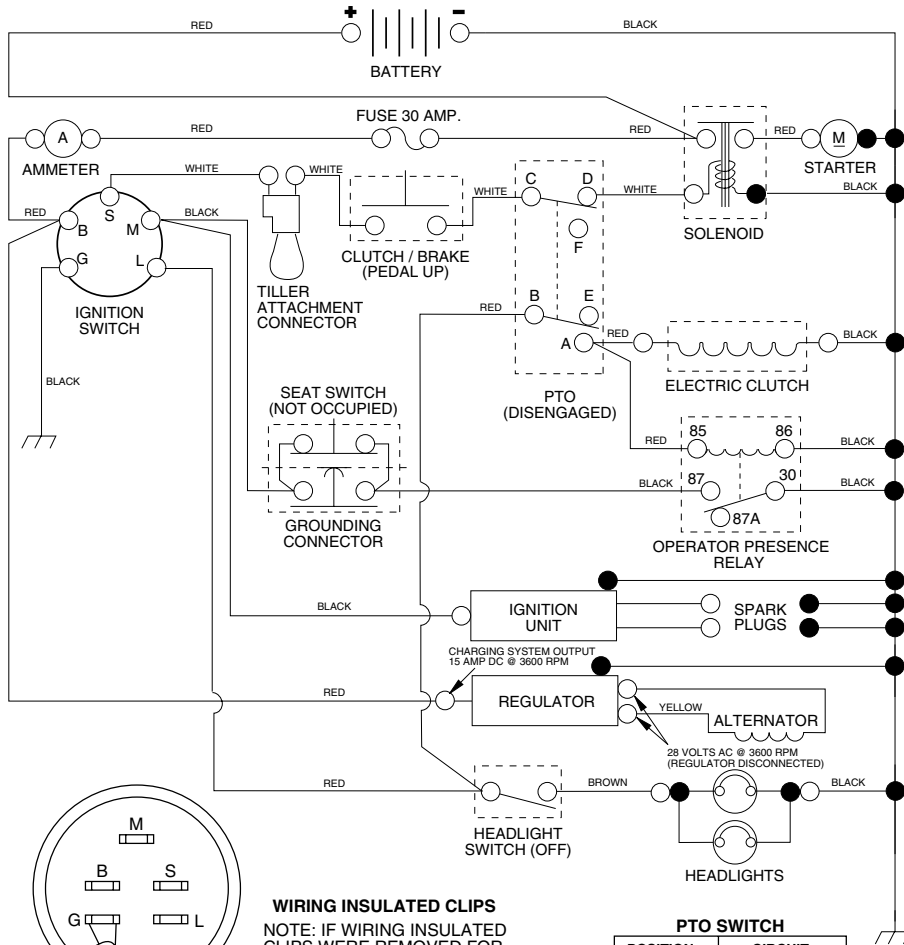


POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

SCHEMATIC NUMBER

1008



WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

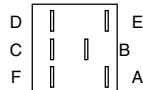
PTO SWITCH	
POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F

IGNITION SWITCH	
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S



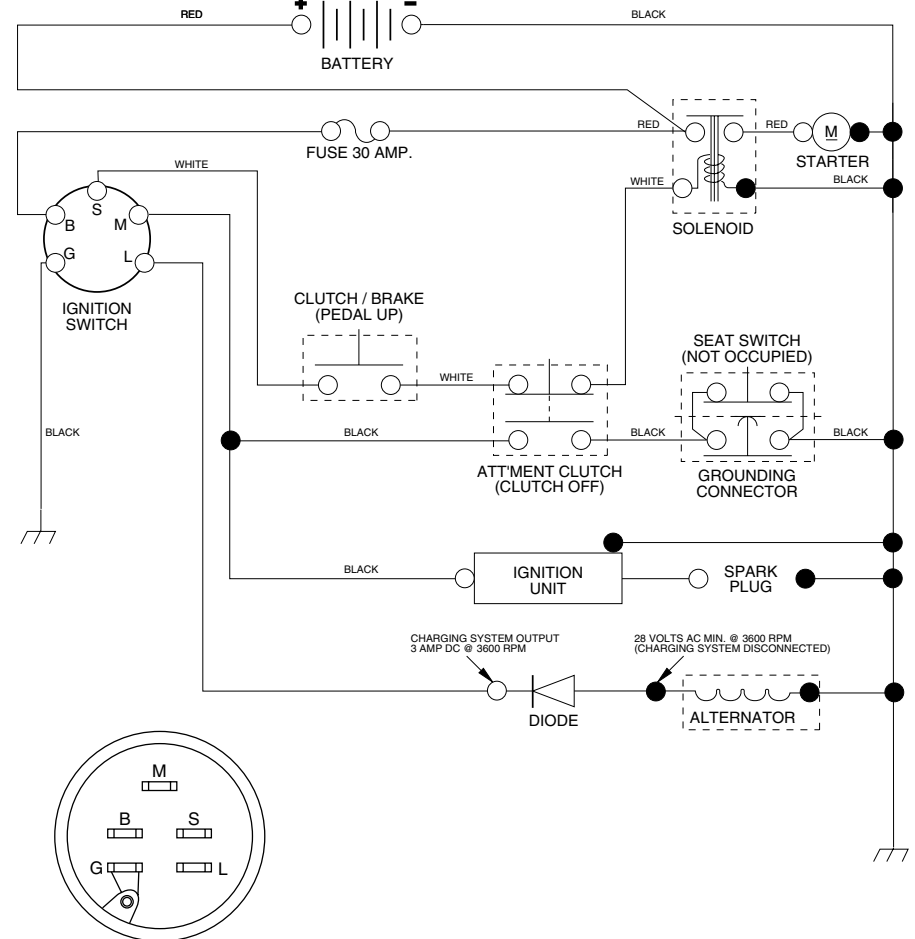
RELAY

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS



SCHEMATIC NUMBER

1011



IGNITION SWITCH

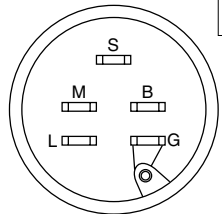
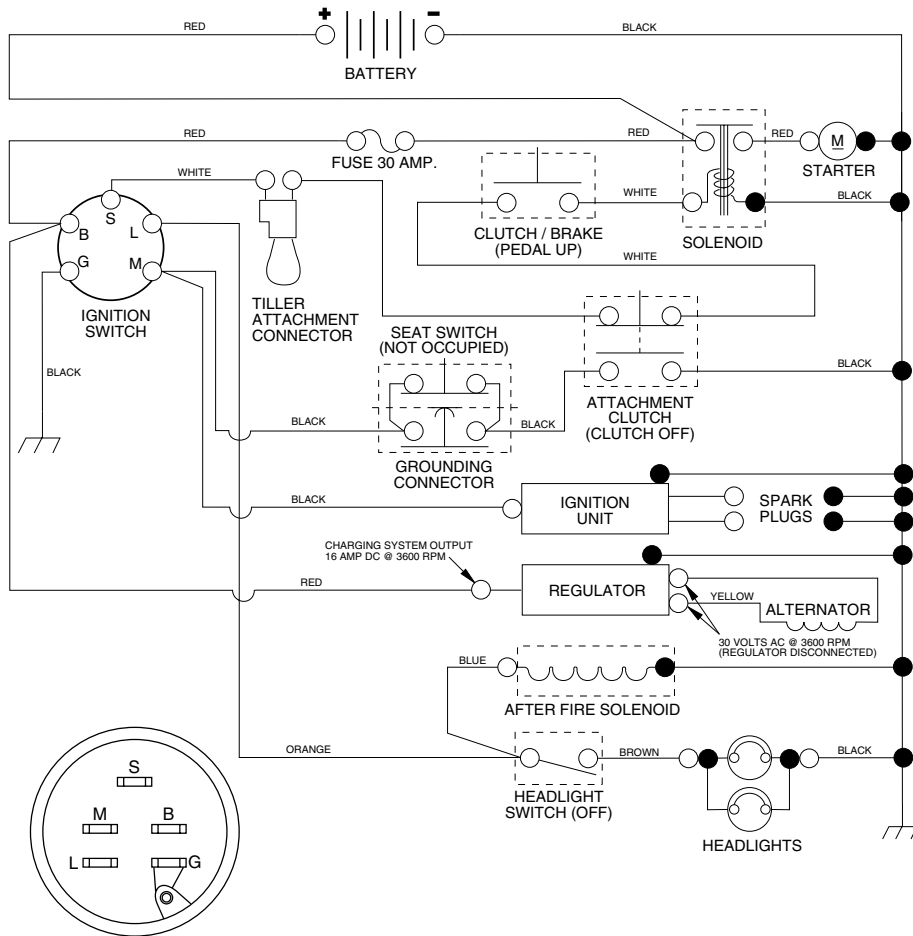
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

SCHEMATIC NUMBER

1015



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

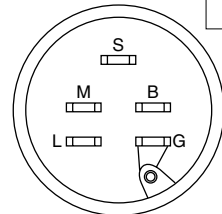
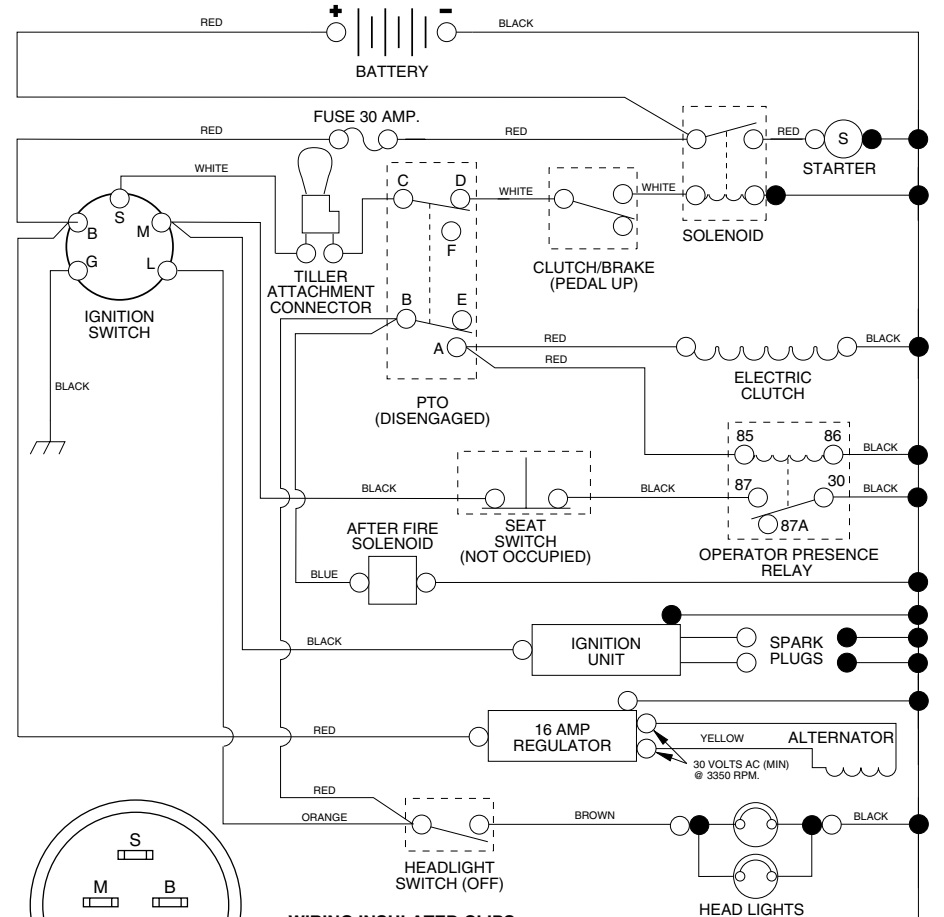
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

1016



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS

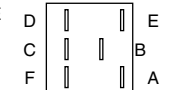
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING



RELAY

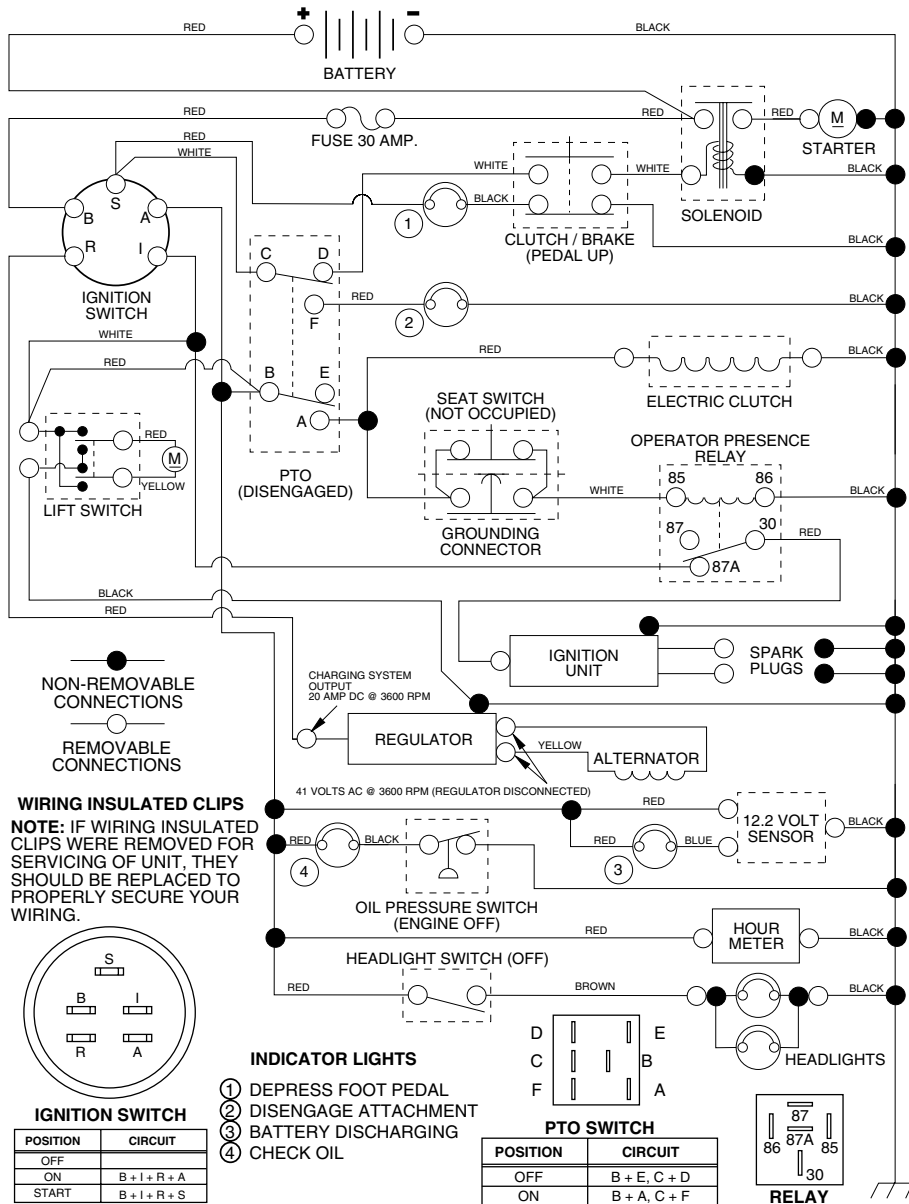
- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

PTO SWITCH	
POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F



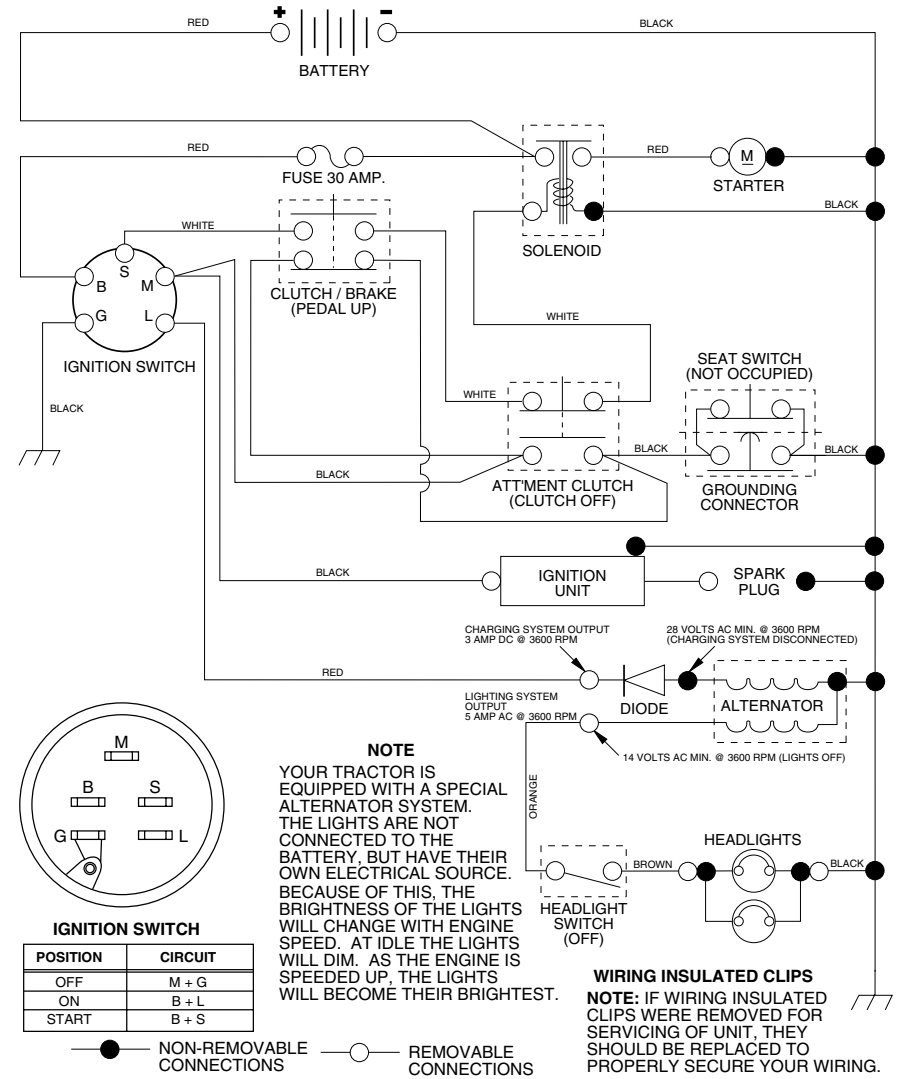
SCHEMATIC NUMBER

1018



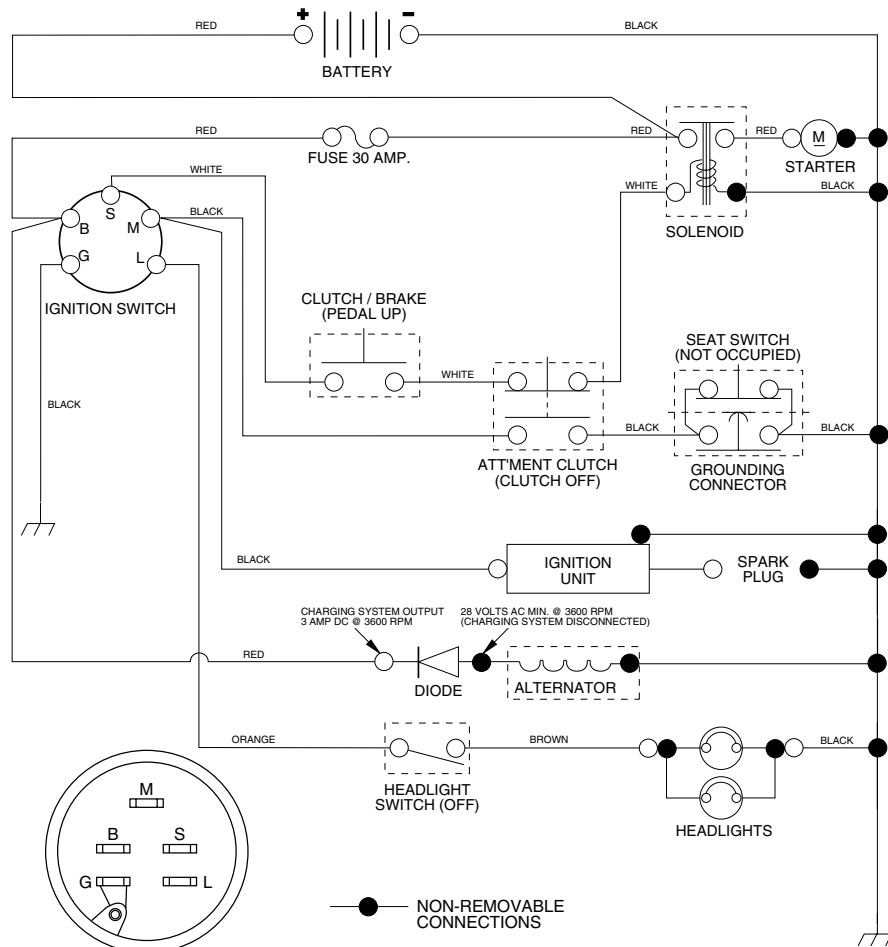
SCHEMATIC NUMBER

1019



SCHEMATIC NUMBER

1021



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

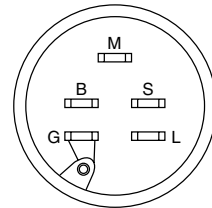
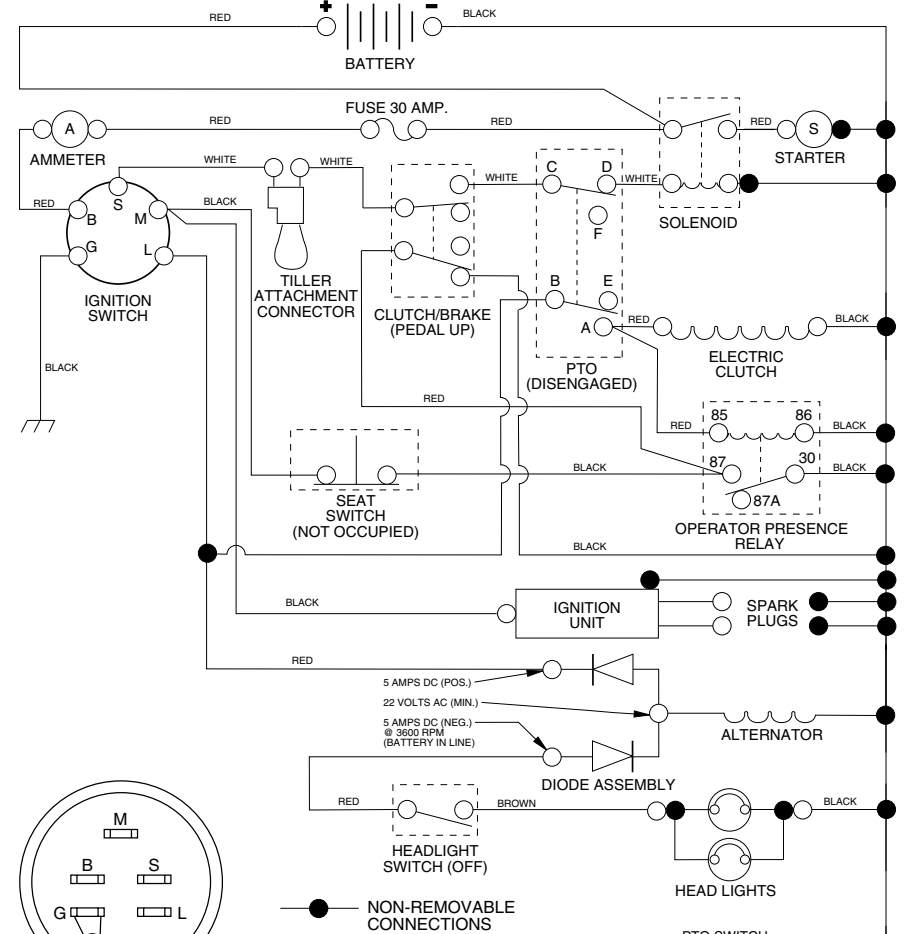
- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

SCHEMATIC NUMBER

1112



IGNITION SWITCH

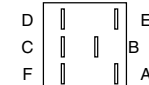
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS

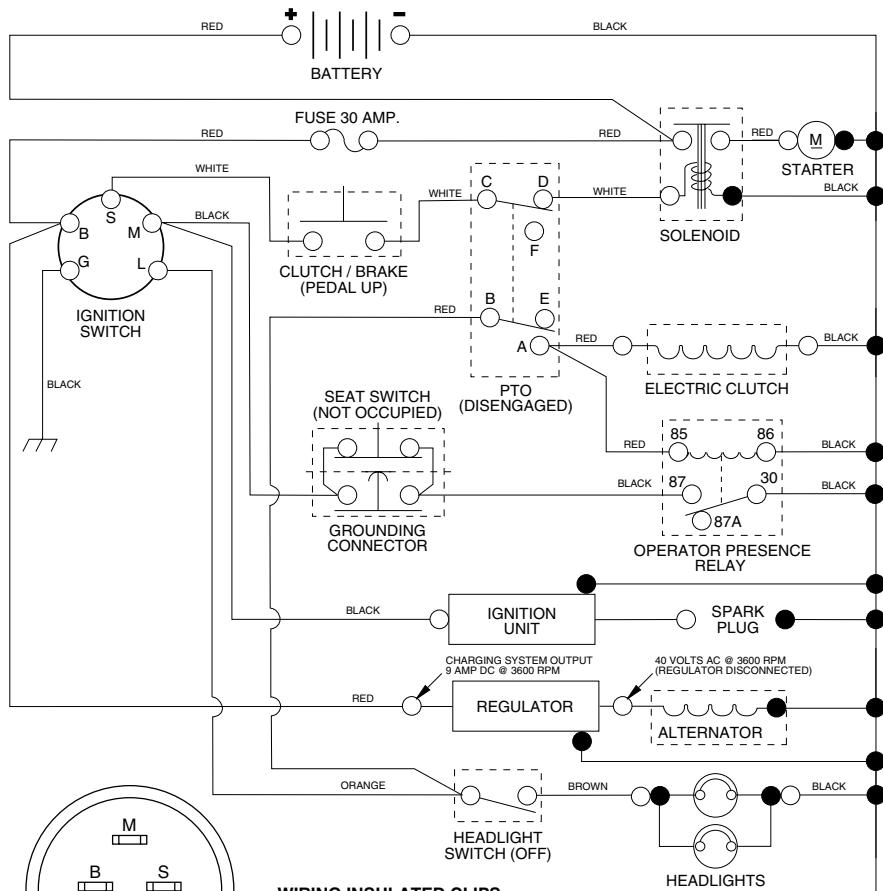
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

PTO SWITCH	
POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F



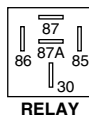
SCHEMATIC NUMBER

1113



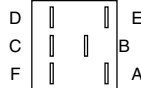
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S



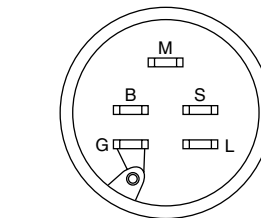
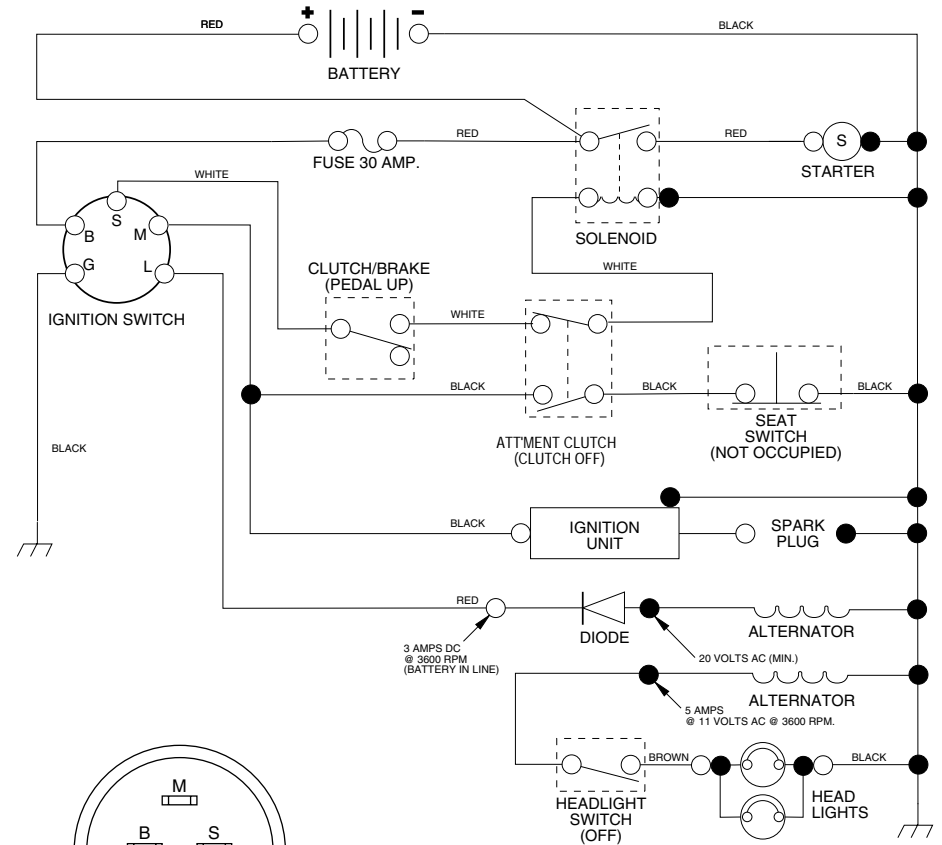
● NON-REMOVABLE CONNECTIONS
○ REMOVABLE CONNECTIONS

POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F



SCHEMATIC NUMBER

1114



POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

● NON-REMOVABLE CONNECTIONS
○ REMOVABLE CONNECTIONS

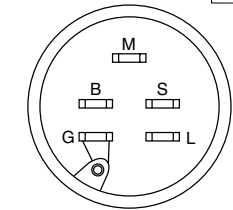
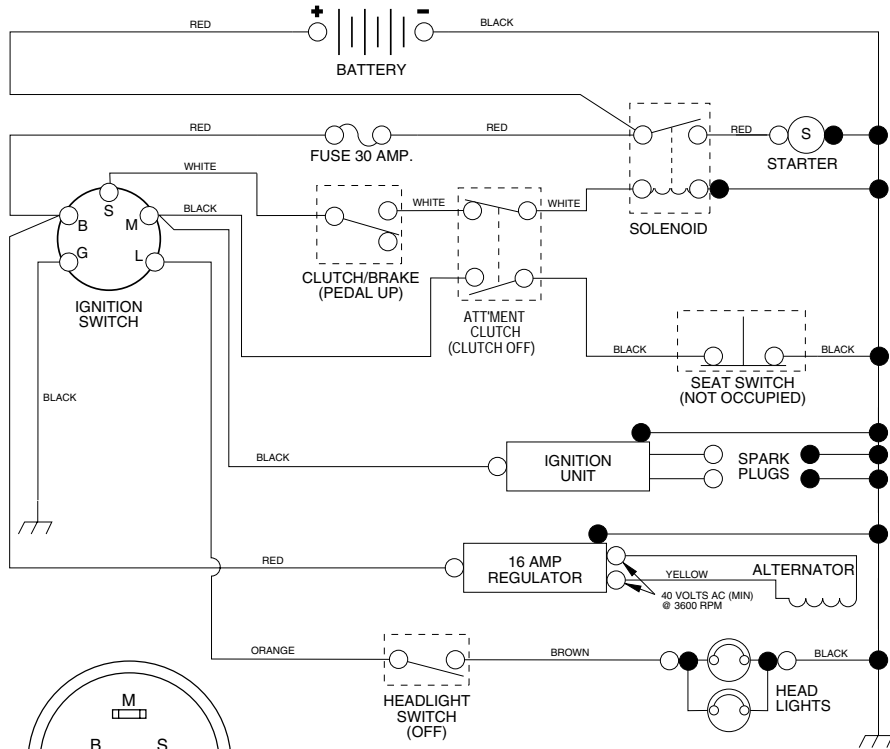
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

NOTE

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SCHEMATIC NUMBER

1125



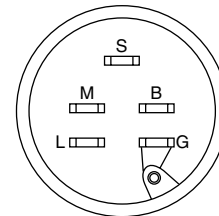
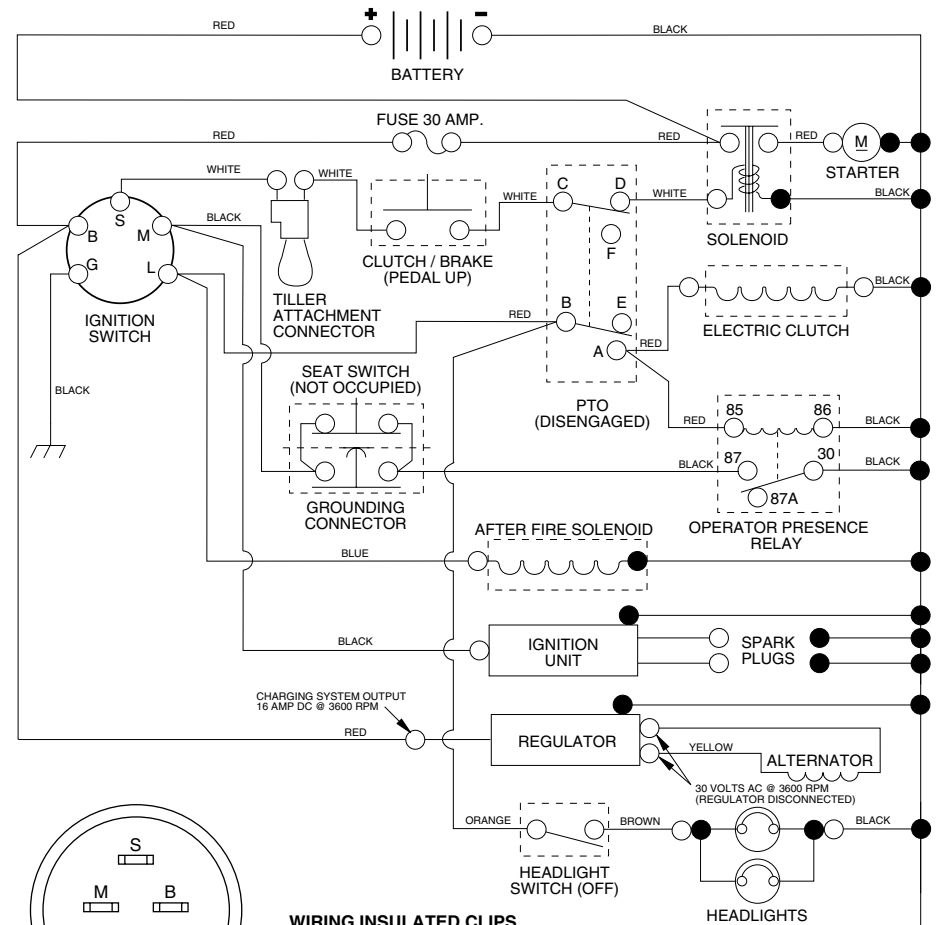
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS
 NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

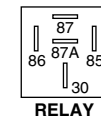
SCHEMATIC NUMBER

1190



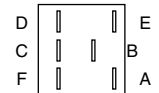
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS
 NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING



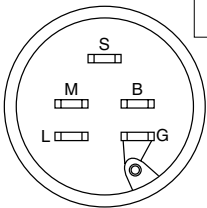
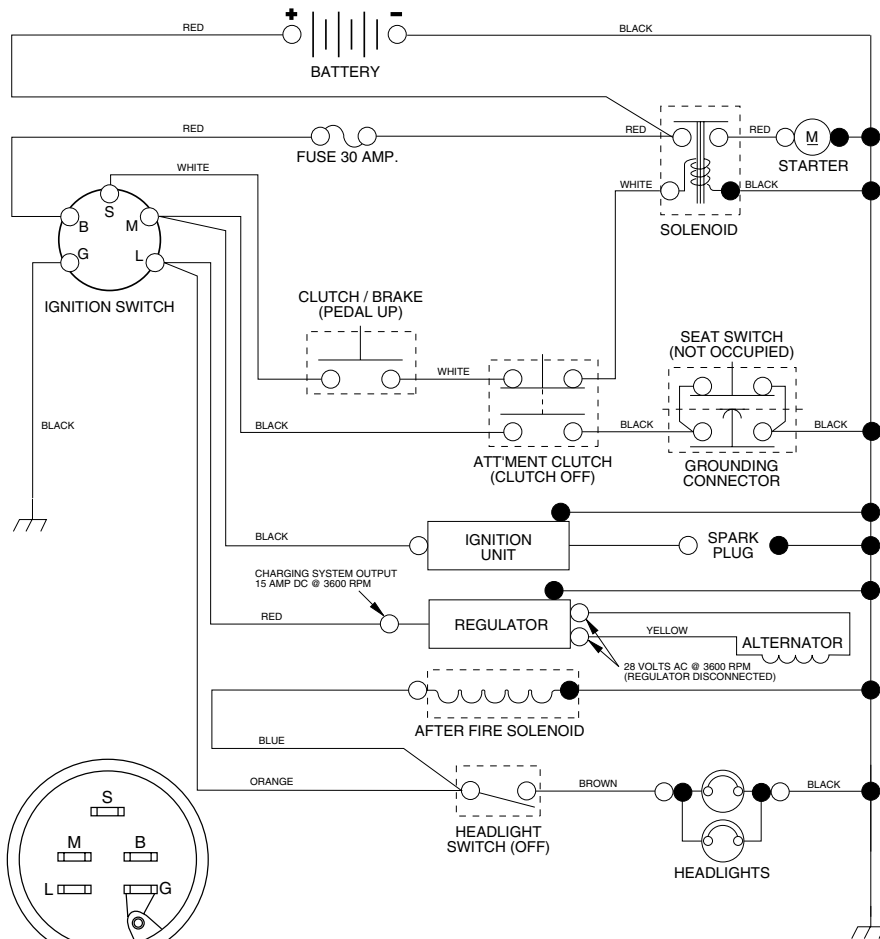
- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F



SCHEMATIC NUMBER

1191



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

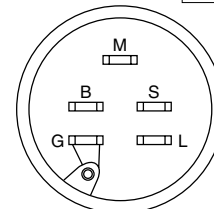
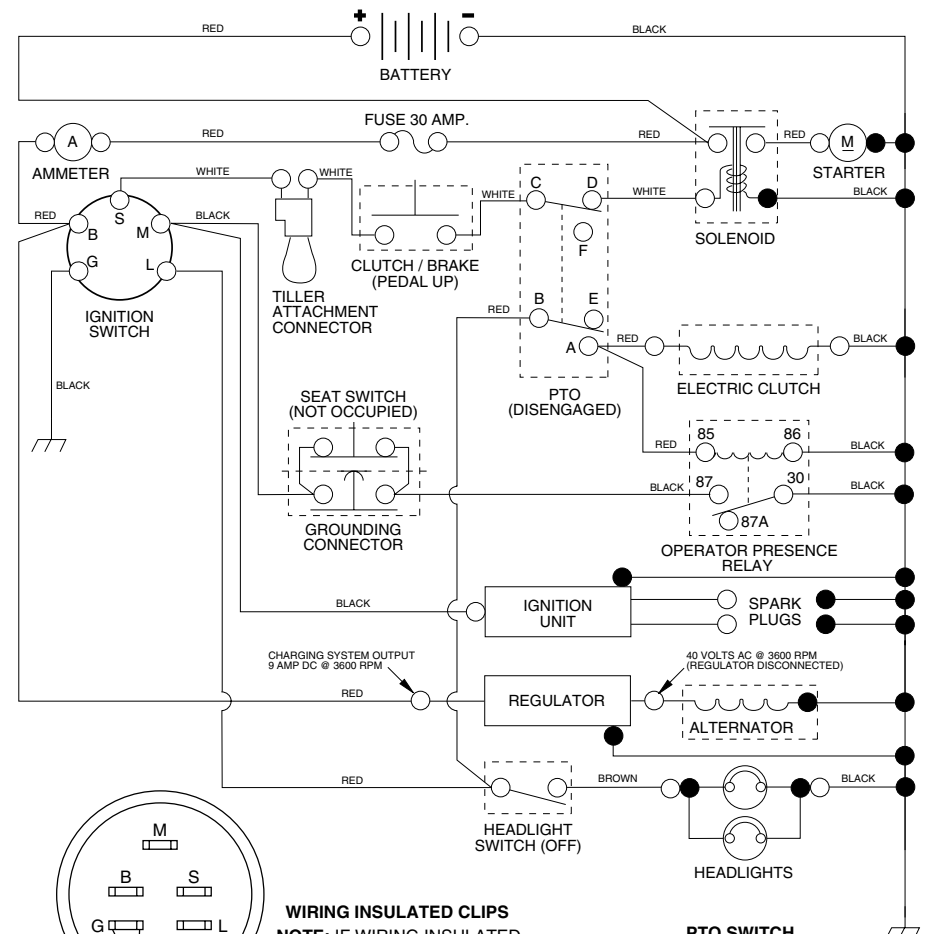
- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

SCHEMATIC NUMBER

1216



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

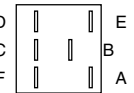


RELAY

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

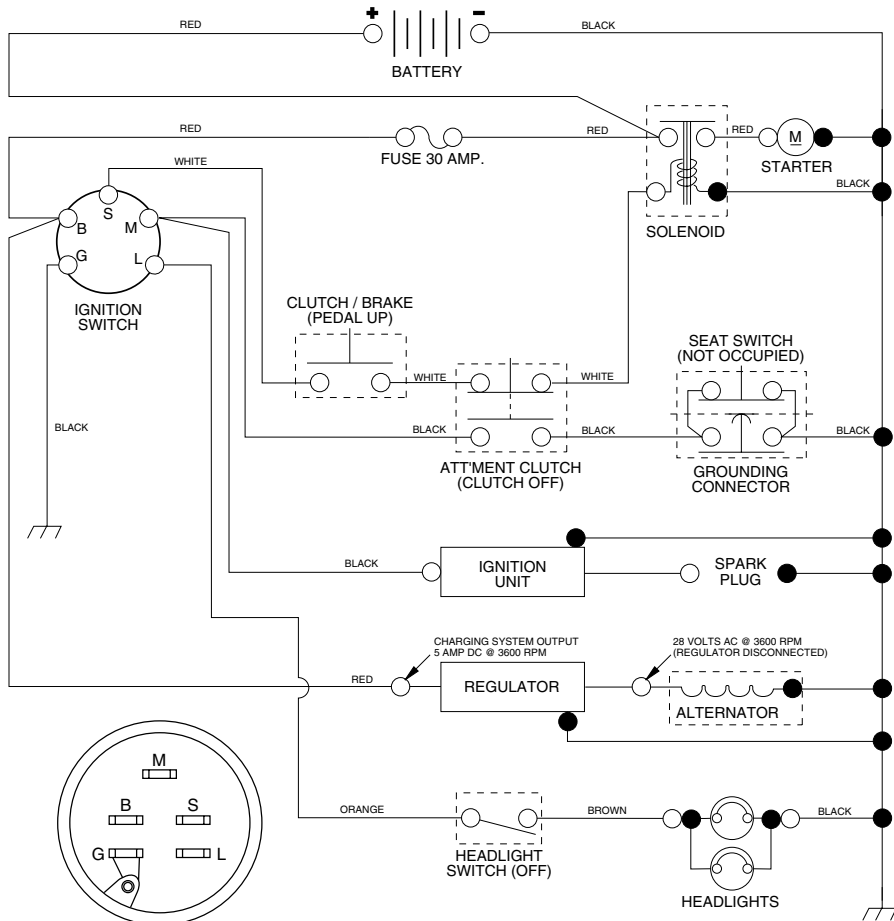
PTO SWITCH

POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F



SCHEMATIC NUMBER

1303

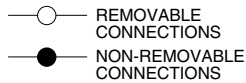


IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

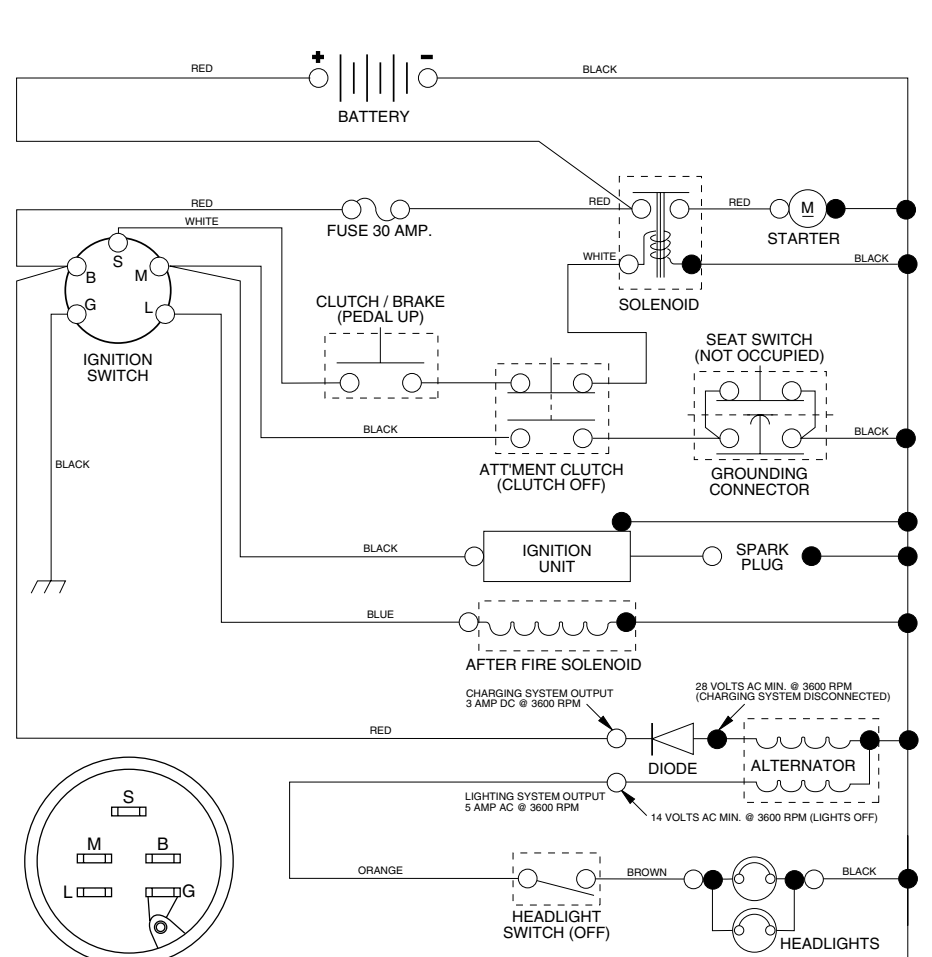
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING



SCHEMATIC NUMBER

1316



IGNITION SWITCH

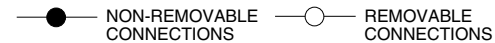
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS

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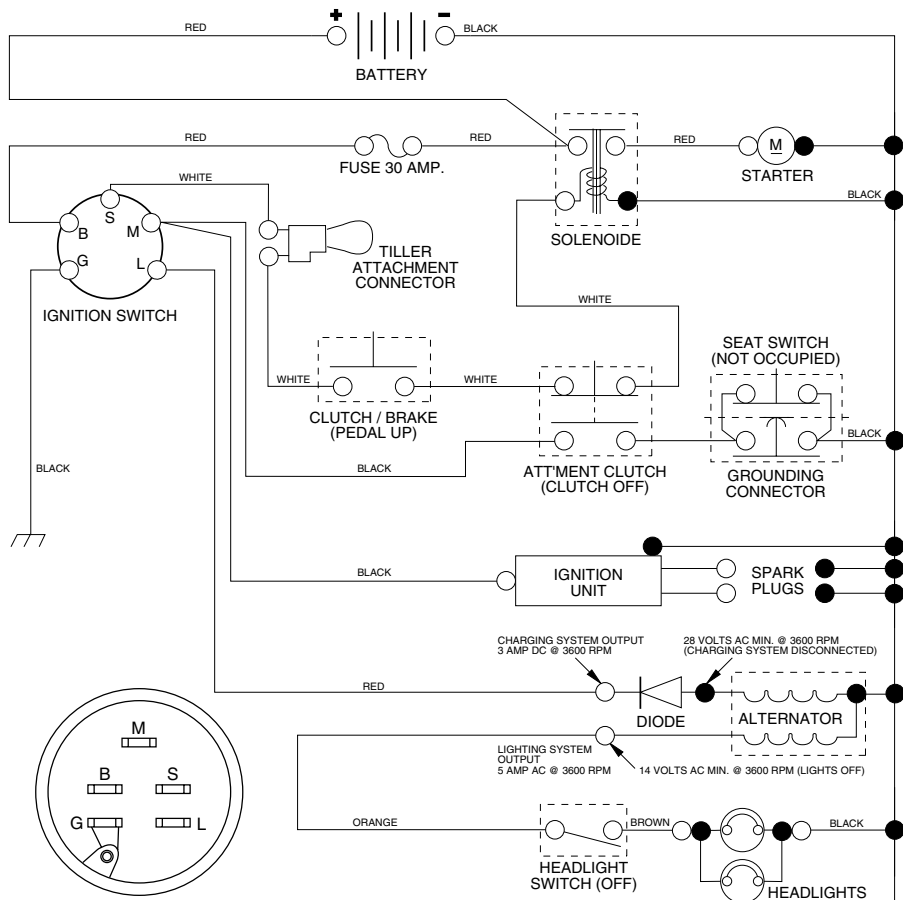
NOTE

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SCHEMATIC NUMBER

1338



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

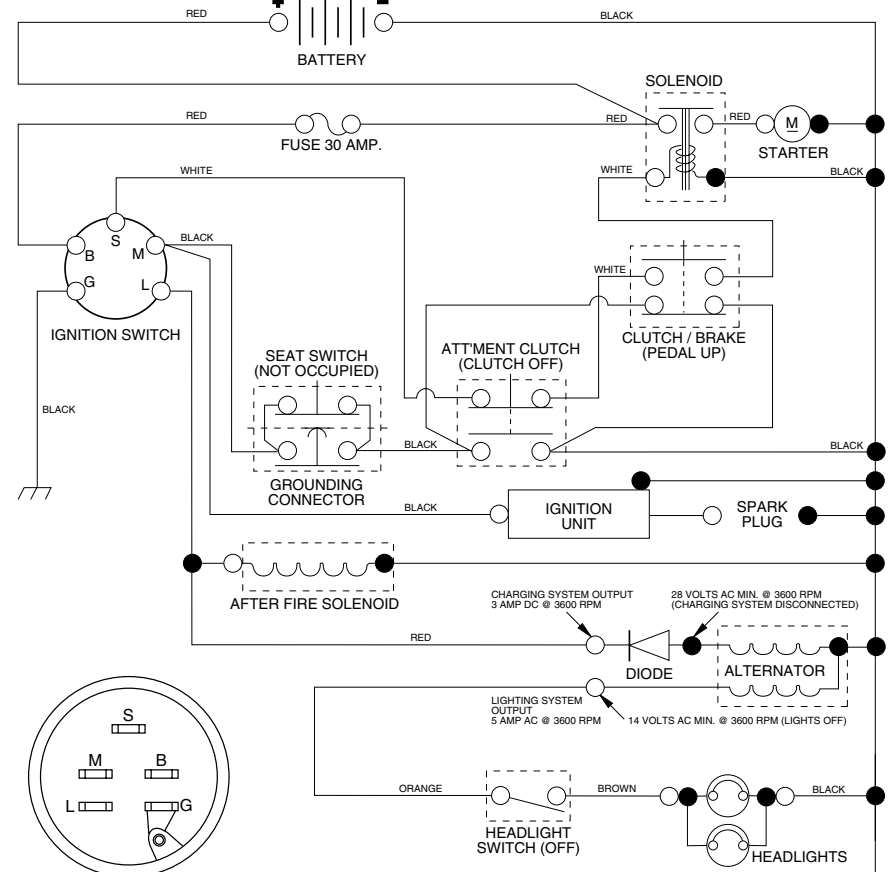
NOTE

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- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

1396



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

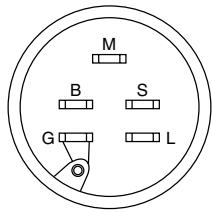
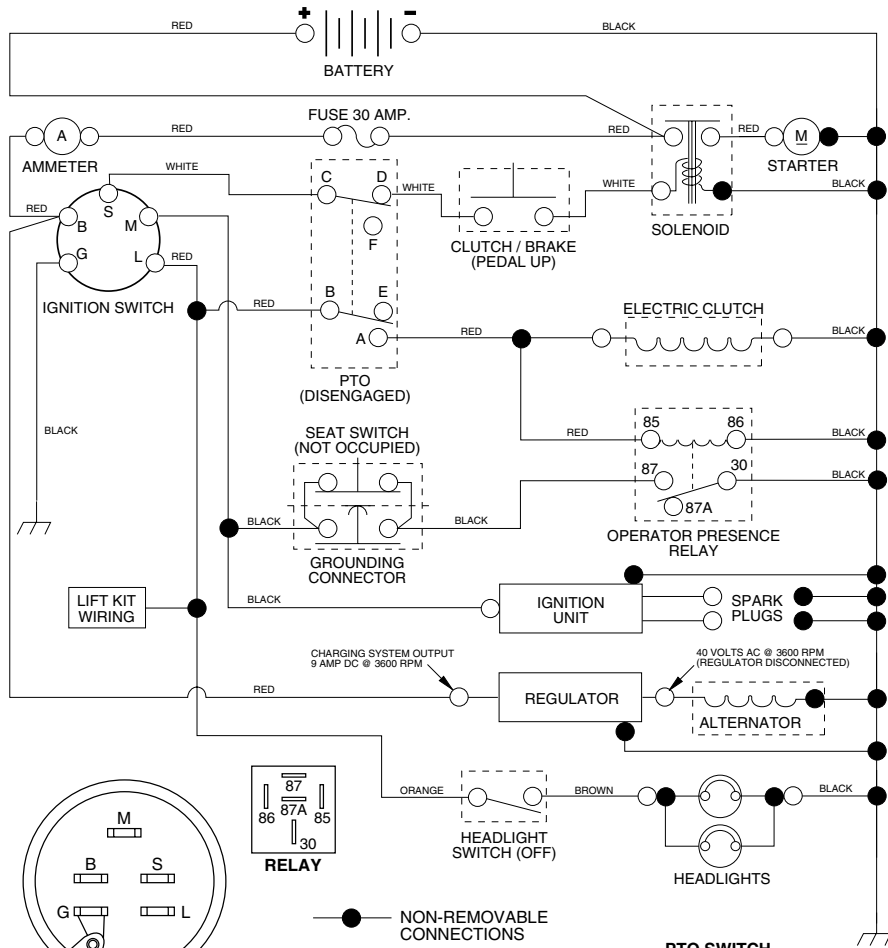
NOTE

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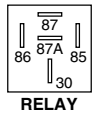
- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

1400



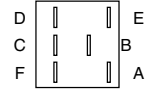
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S



● NON-REMOVABLE CONNECTIONS
○ REMOVABLE CONNECTIONS

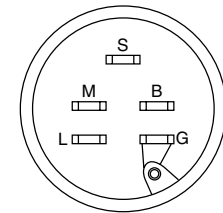
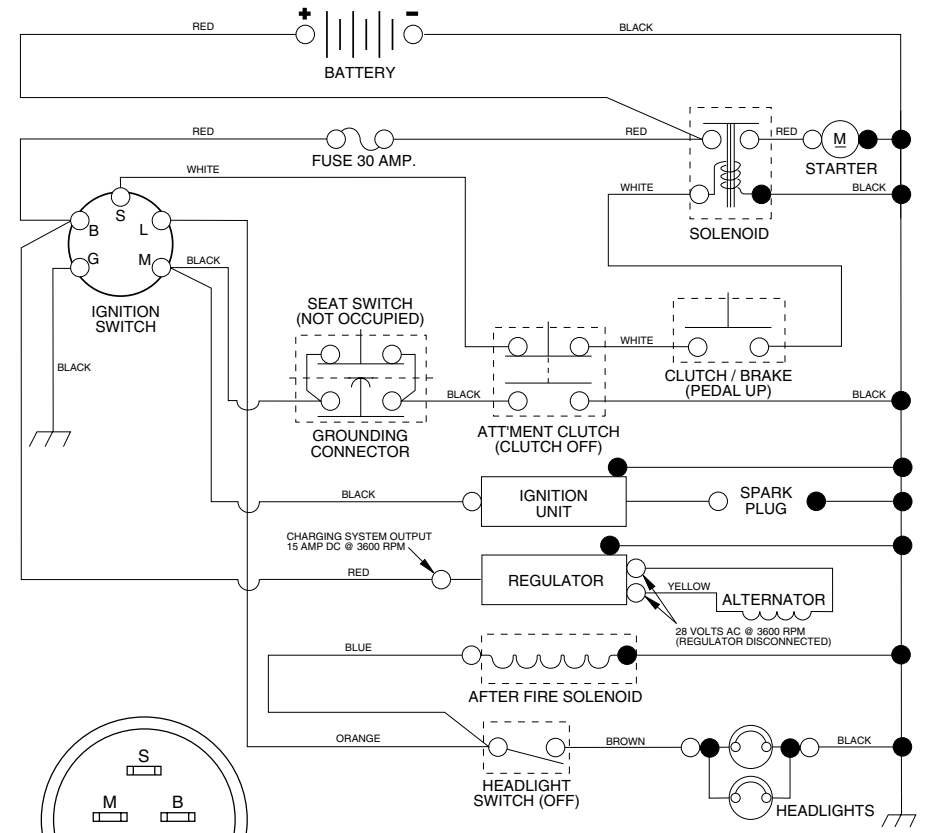
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

PTO SWITCH	
POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F



SCHEMATIC NUMBER

1405



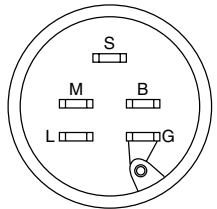
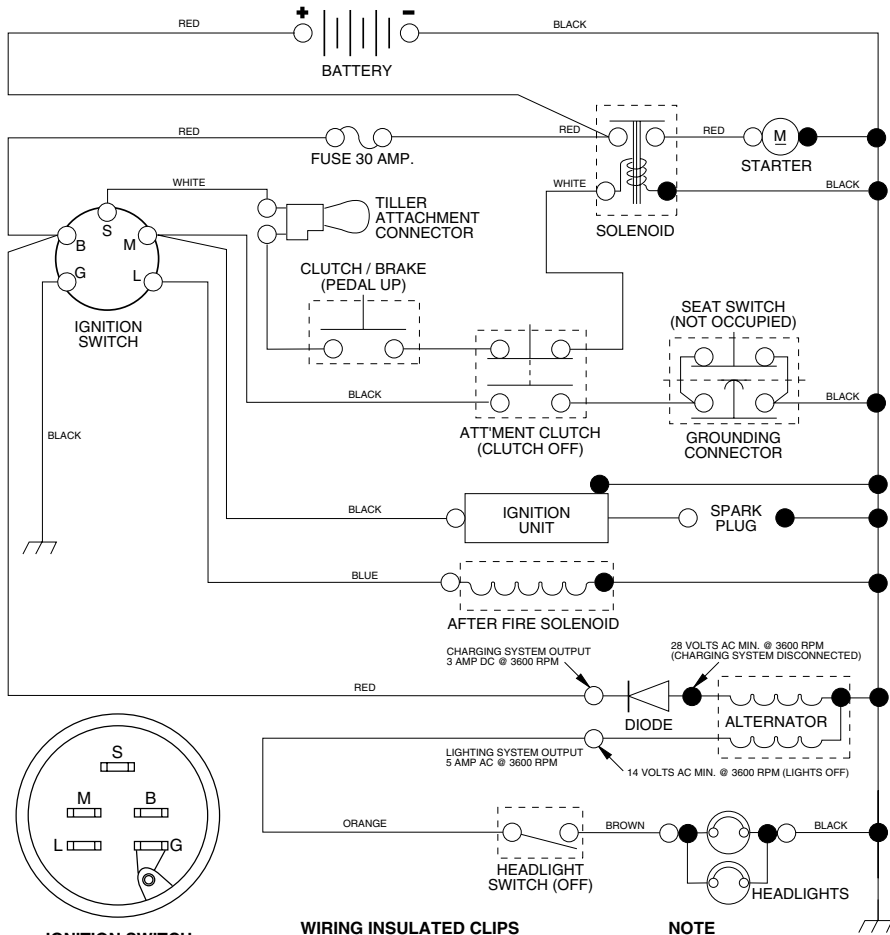
IGNITION SWITCH	
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

● NON-REMOVABLE CONNECTIONS
○ REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

1468



IGNITION SWITCH

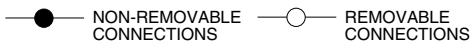
POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

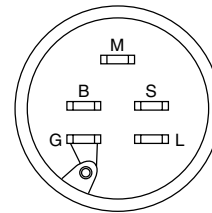
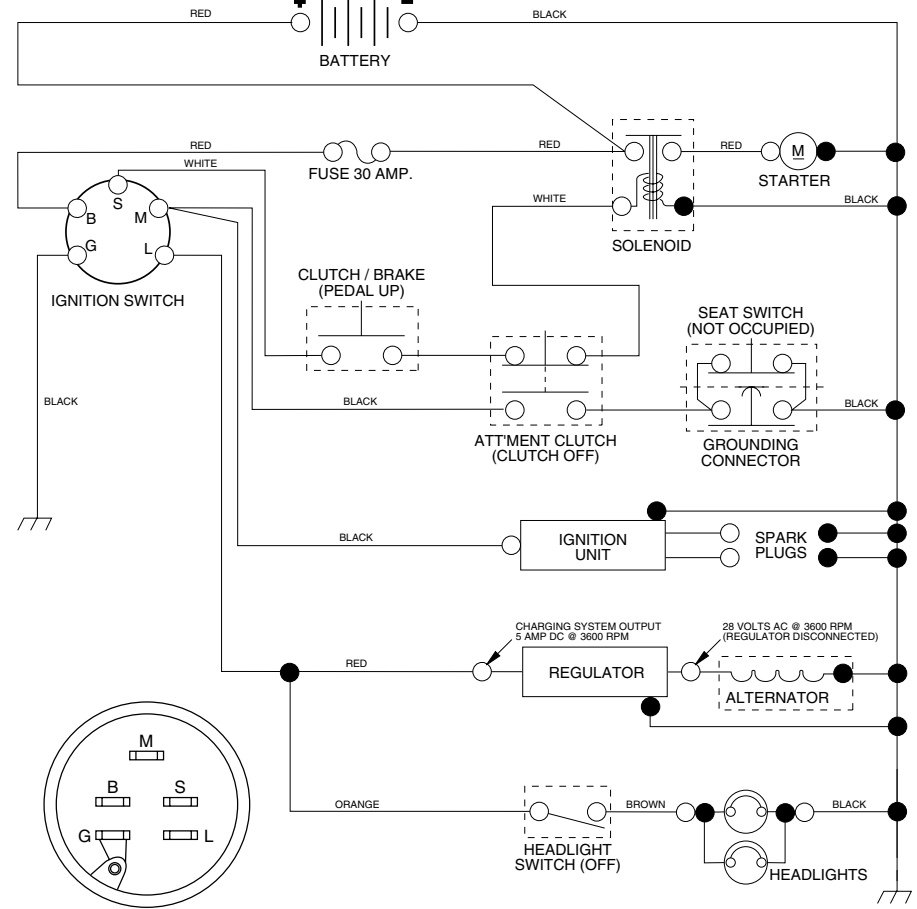
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SCHEMATIC NUMBER

1475

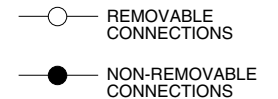


IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

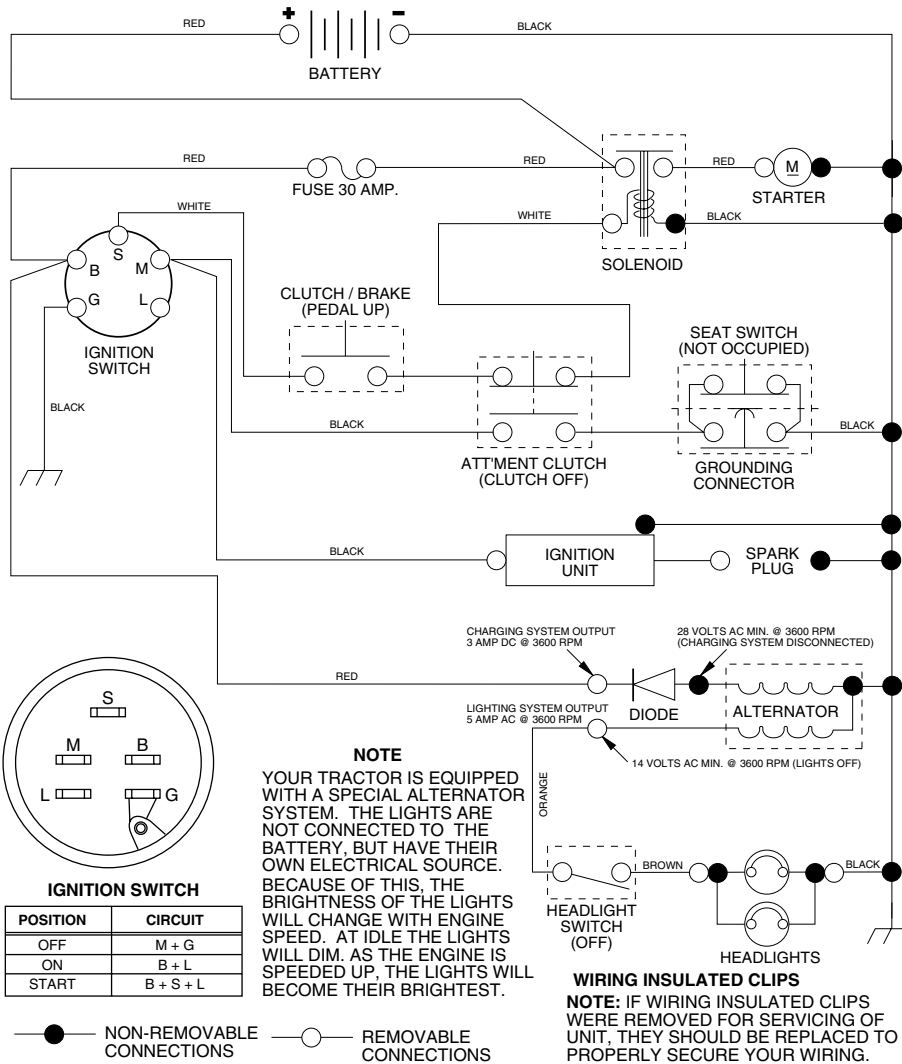
WIRING INSULATED CLIPS

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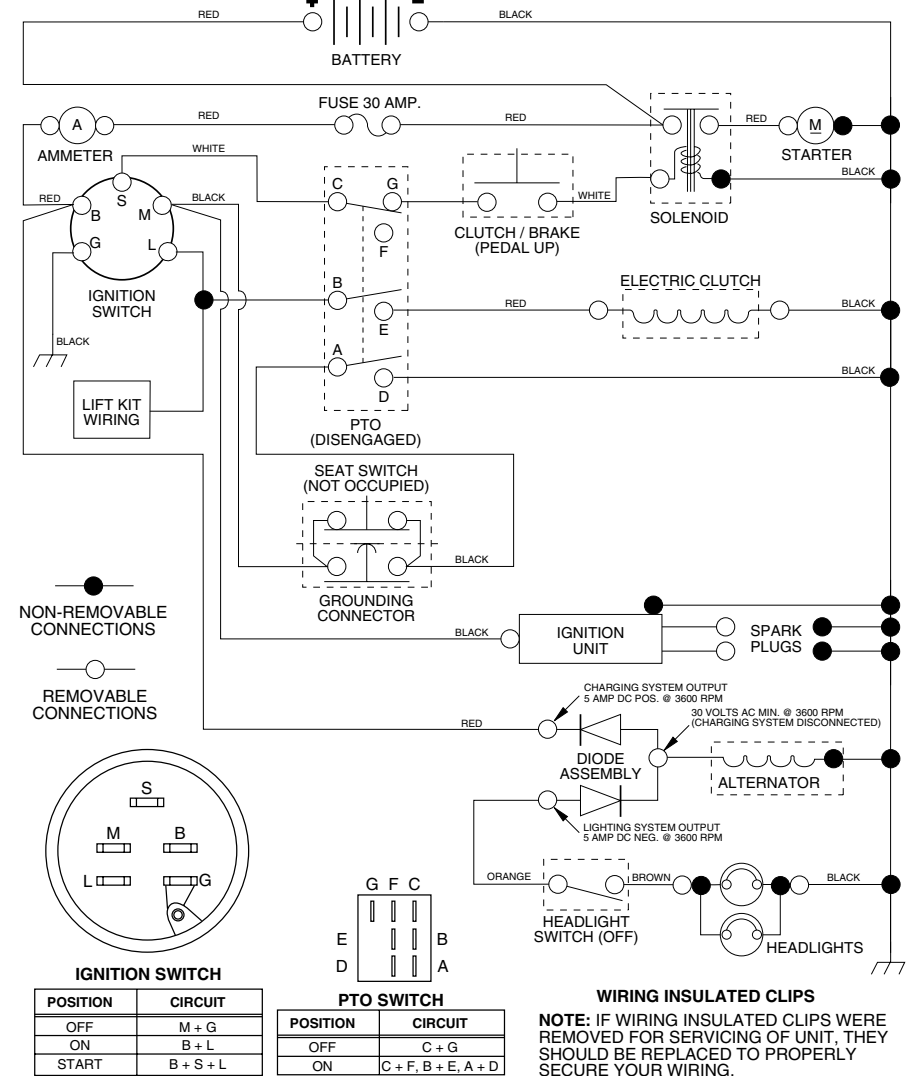
SCHEMATIC NUMBER

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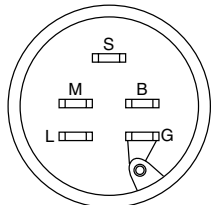
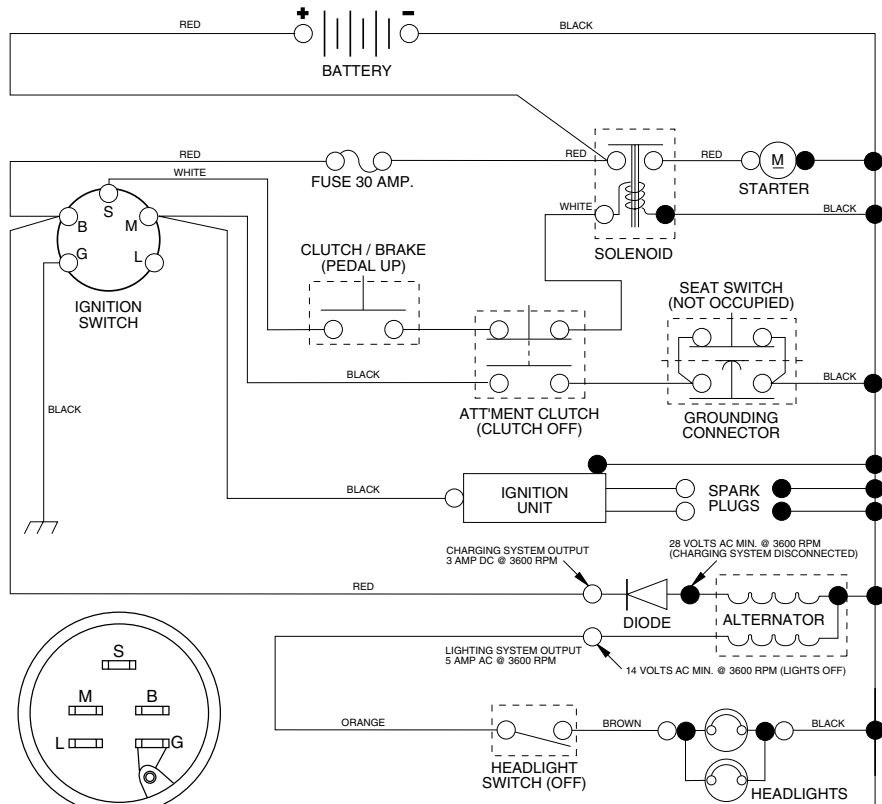
SCHEMATIC NUMBER

1499



SCHEMATIC NUMBER

1505

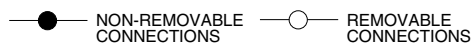


IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

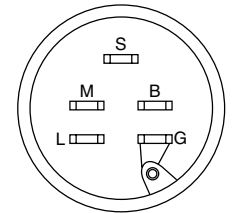
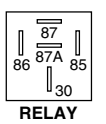
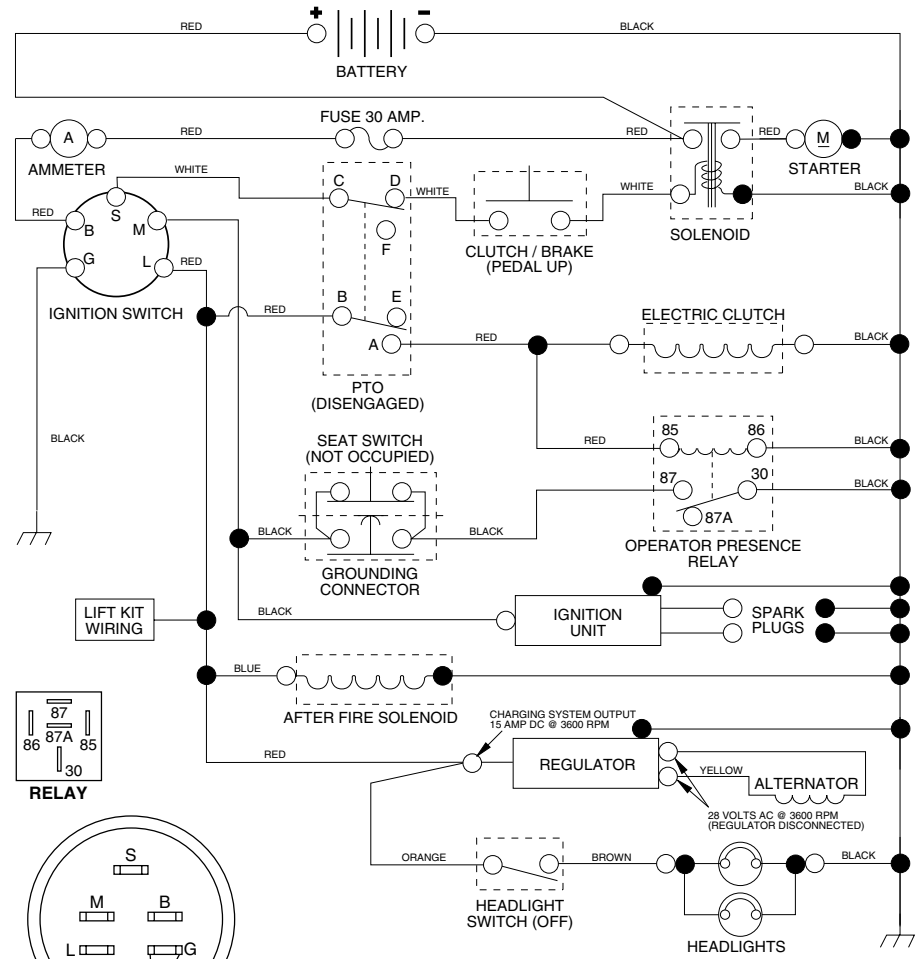
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SCHEMATIC NUMBER

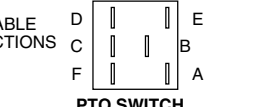
1527



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

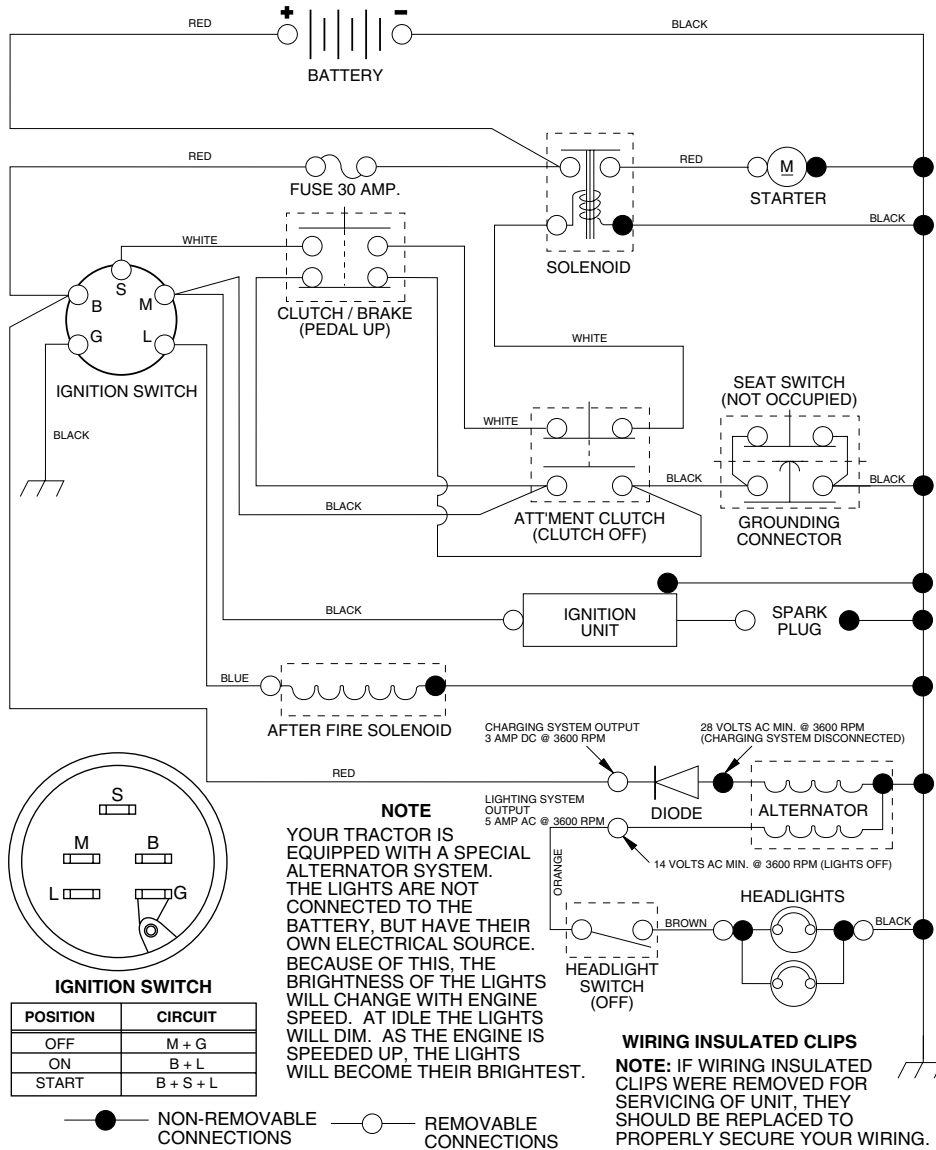


PTO SWITCH

POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F

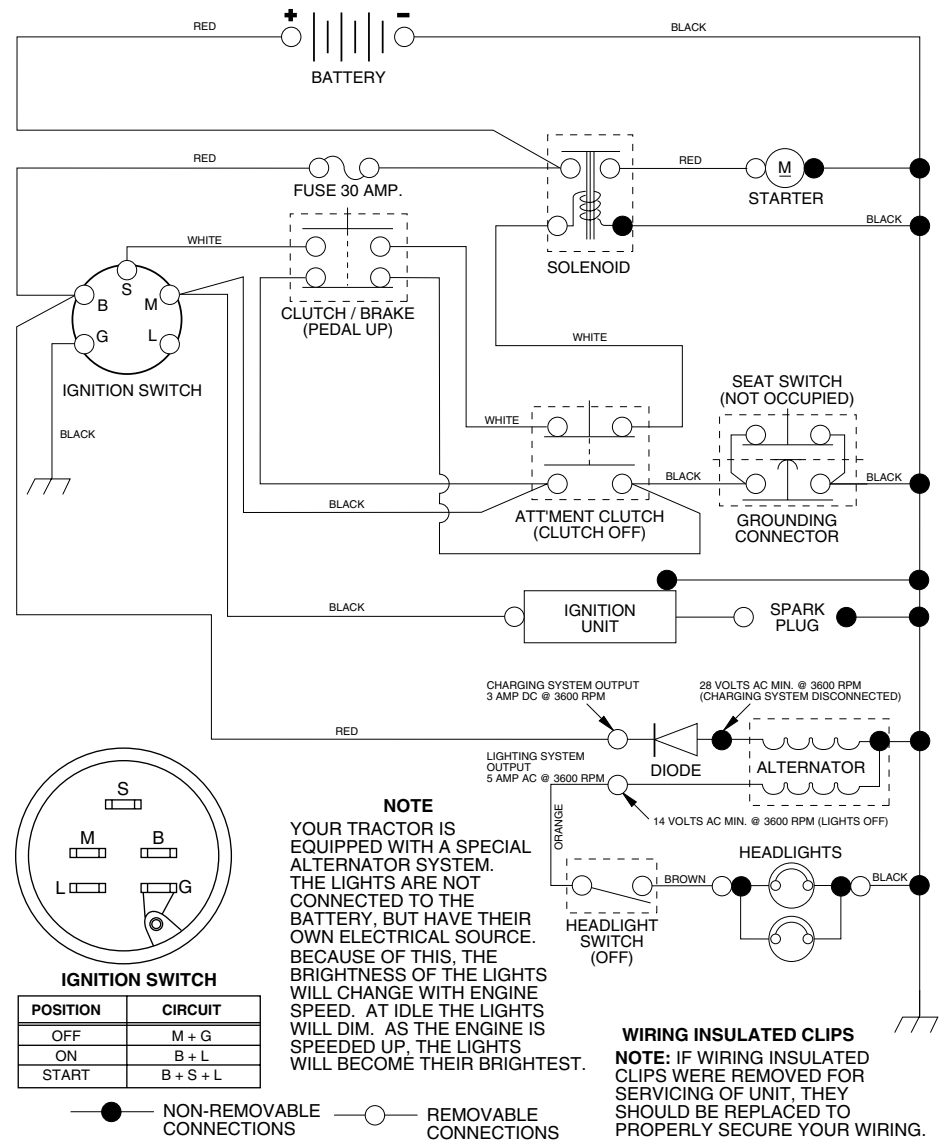
SCHEMATIC NUMBER

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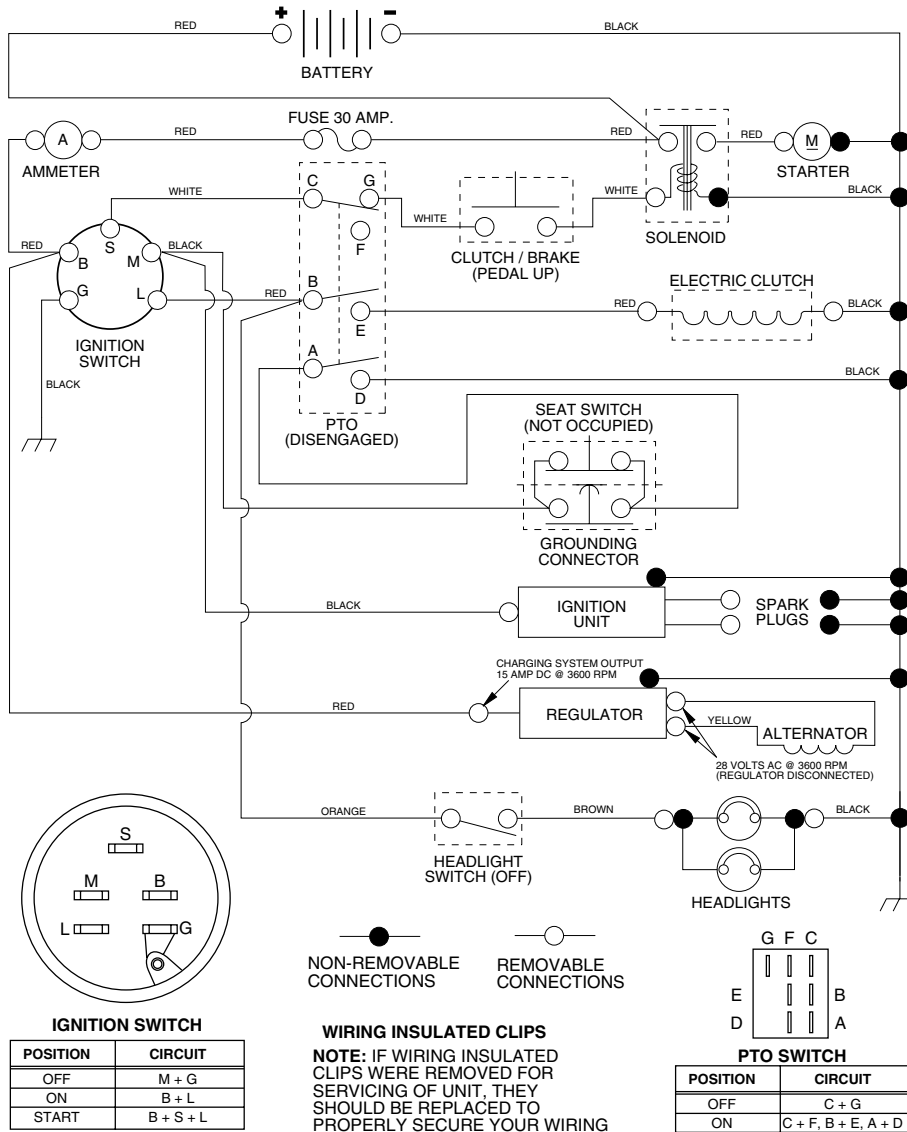
SCHEMATIC NUMBER

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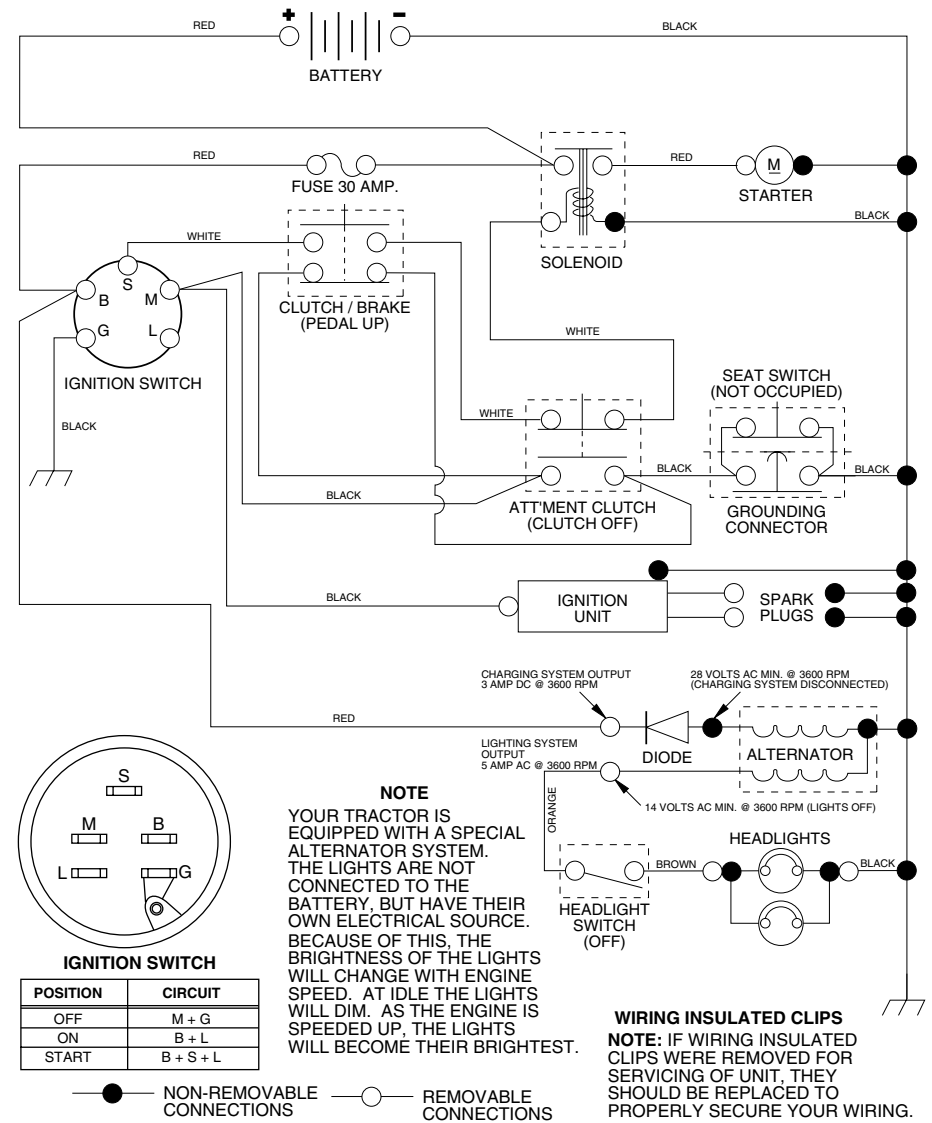
SCHEMATIC NUMBER

1541



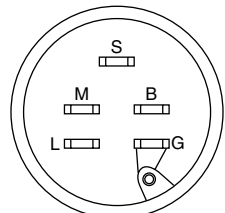
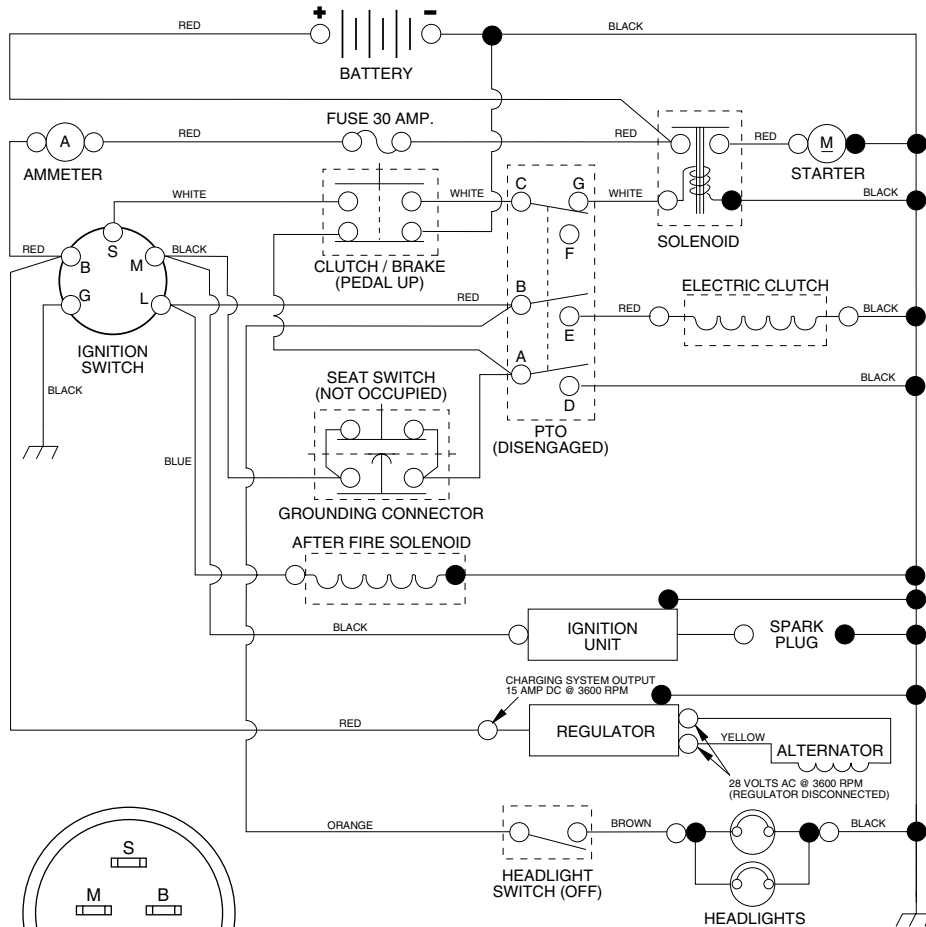
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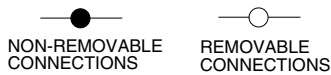
SCHEMATIC NUMBER

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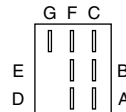
IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L



WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

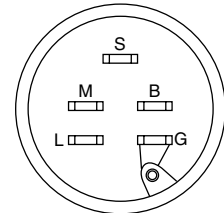
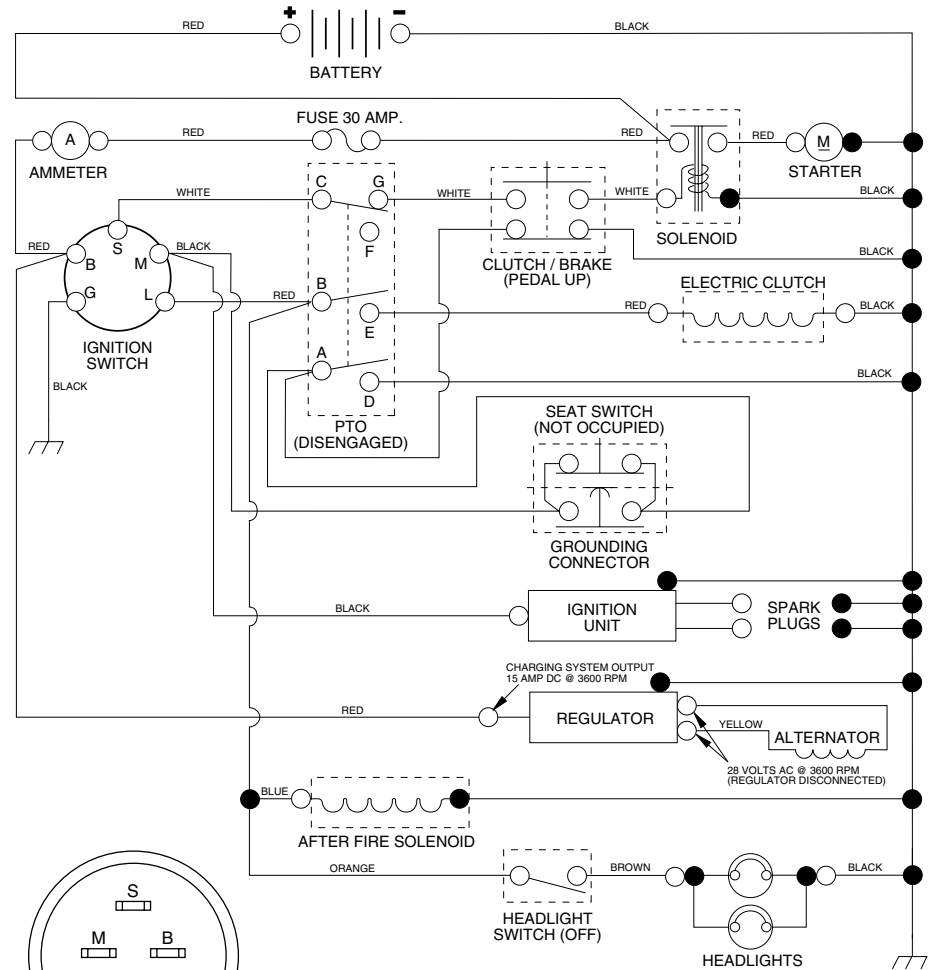


PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

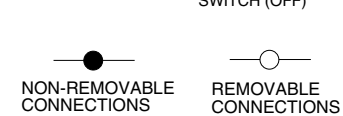
SCHEMATIC NUMBER

1642



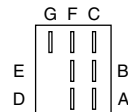
IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L



WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

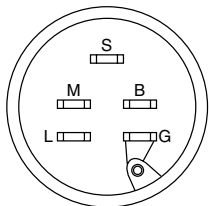
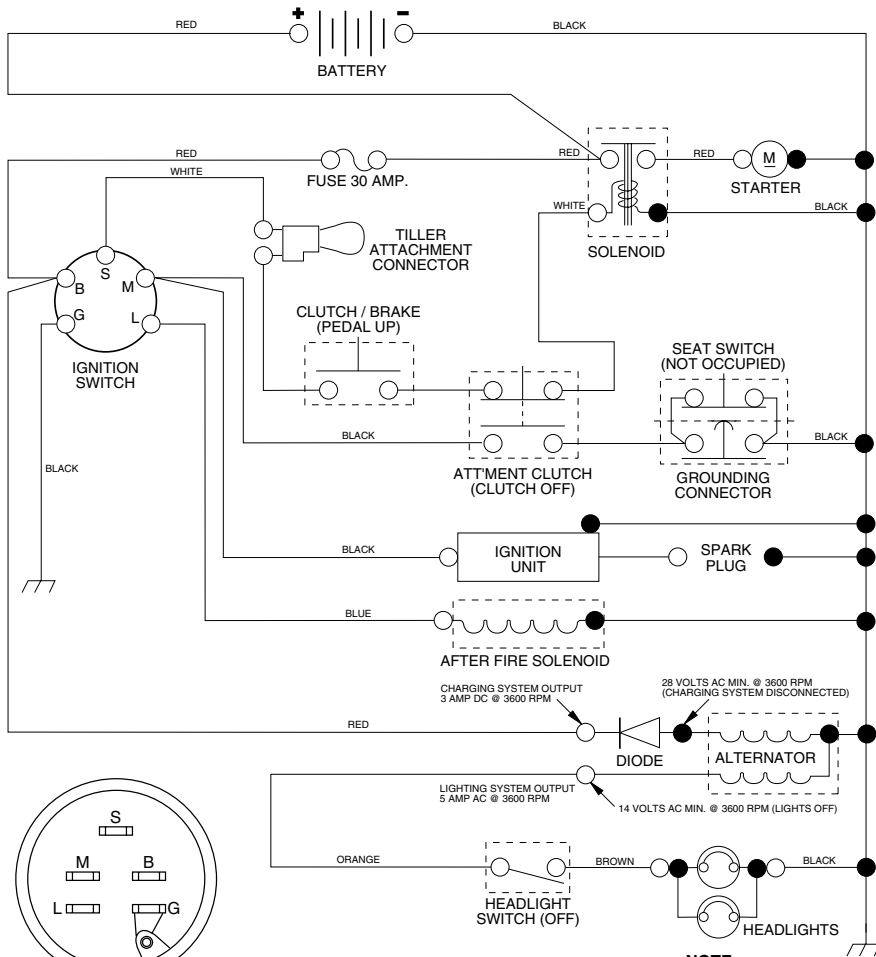


PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

SCHEMATIC NUMBER

1651



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

WIRING INSULATED CLIPS

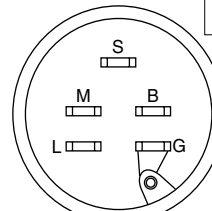
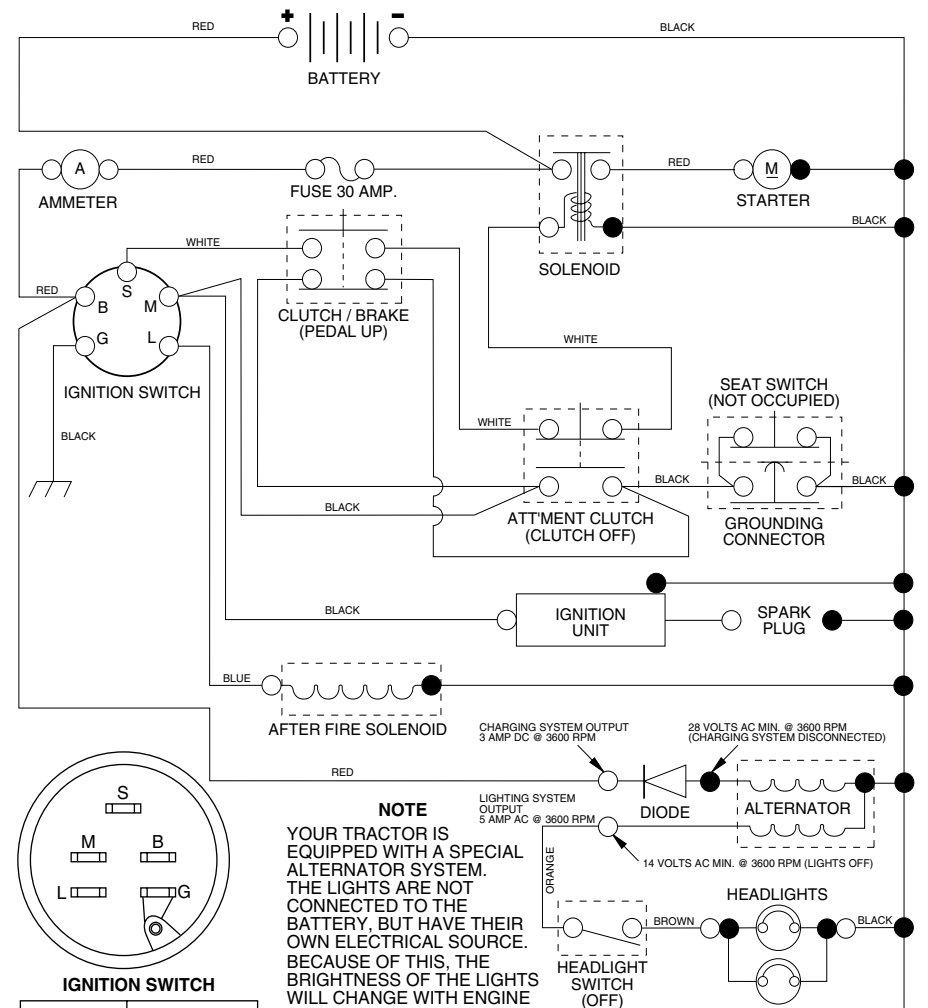
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SCHEMATIC NUMBER

1659



IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L

NOTE
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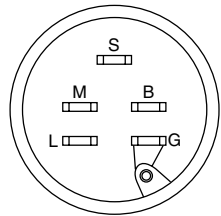
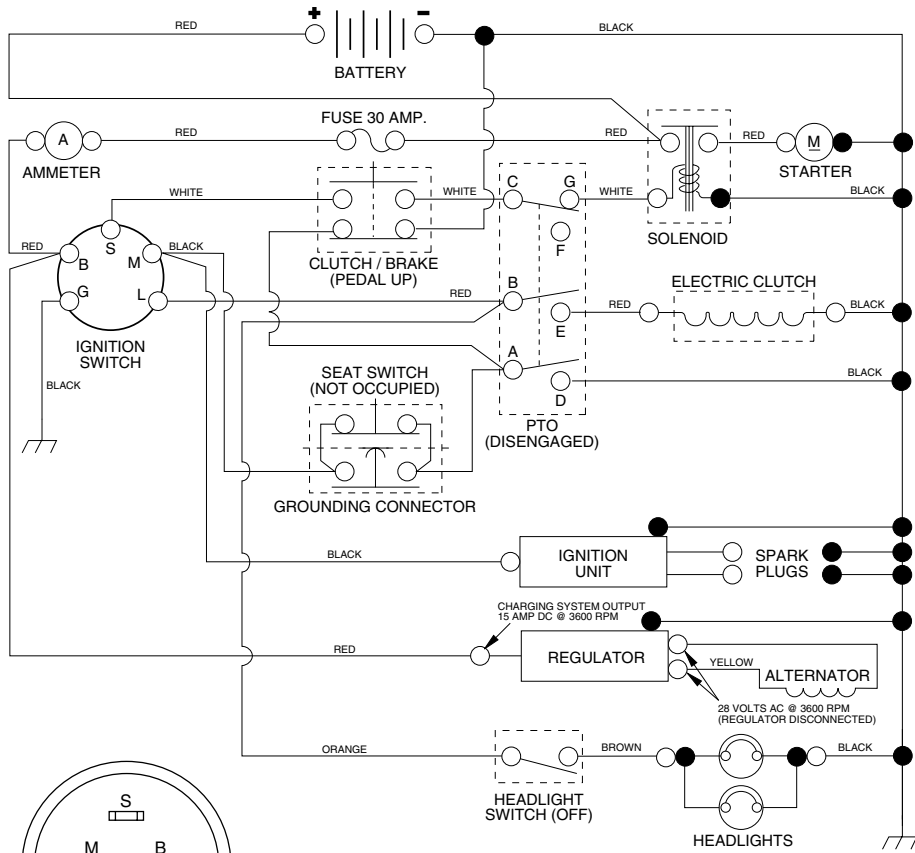
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



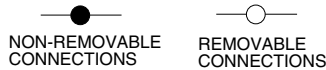
SCHEMATIC NUMBER

1662



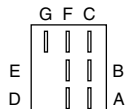
IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L



WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

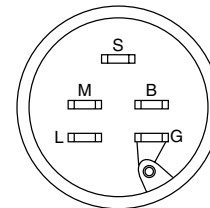
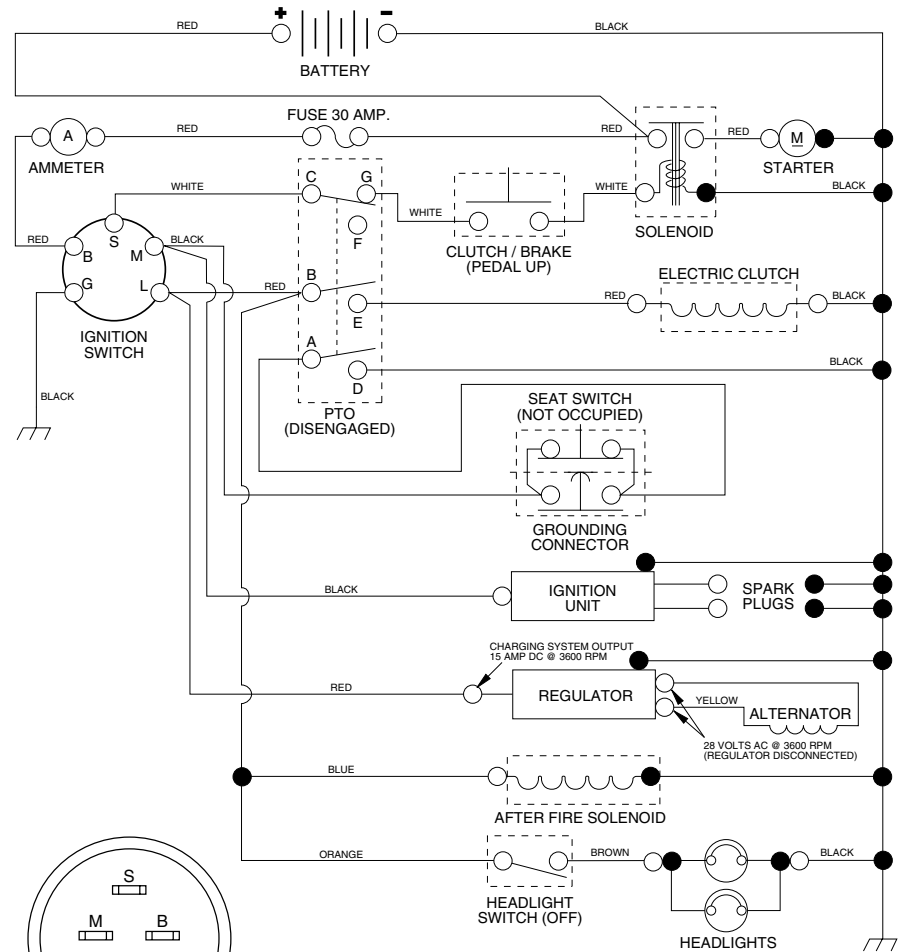


PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

SCHEMATIC NUMBER

1668



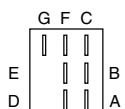
IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L



WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

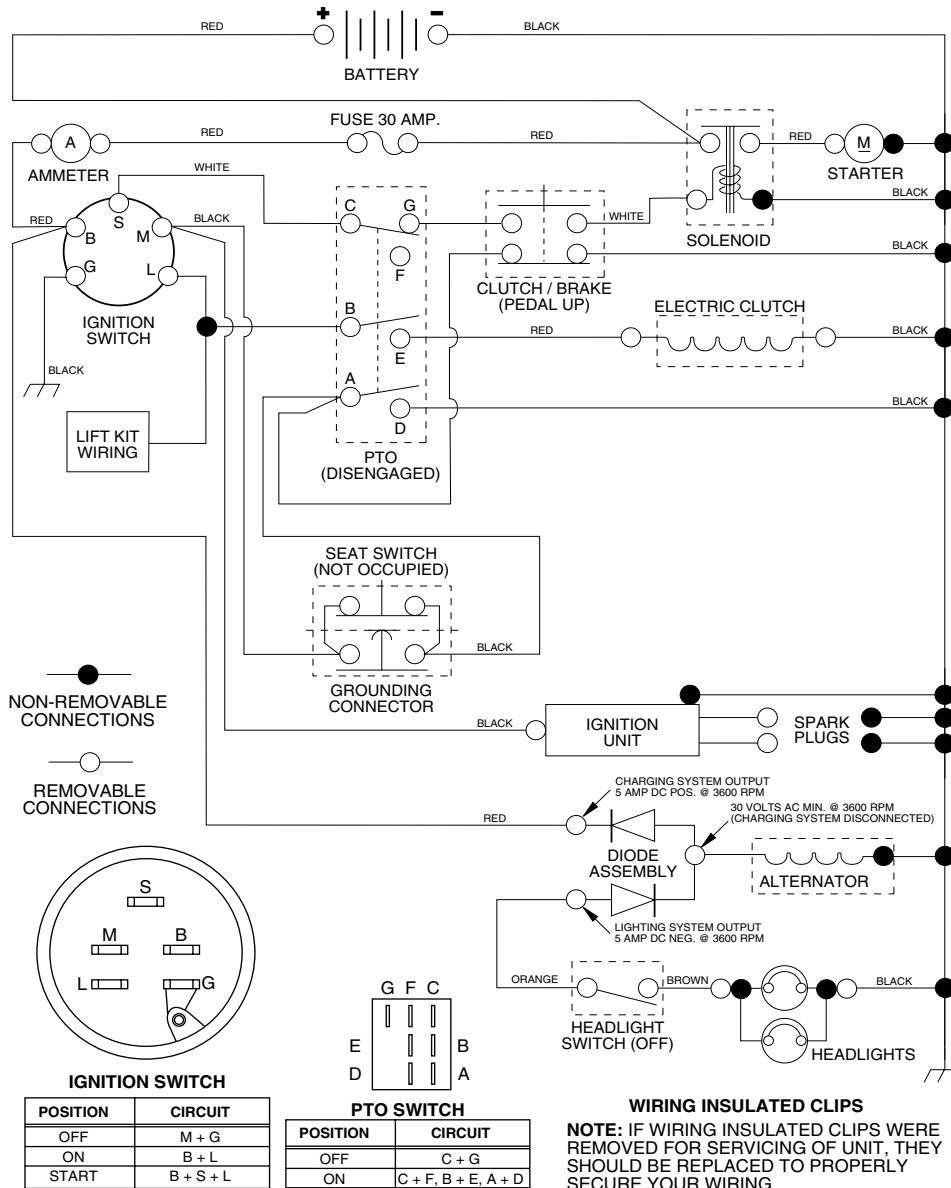


PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

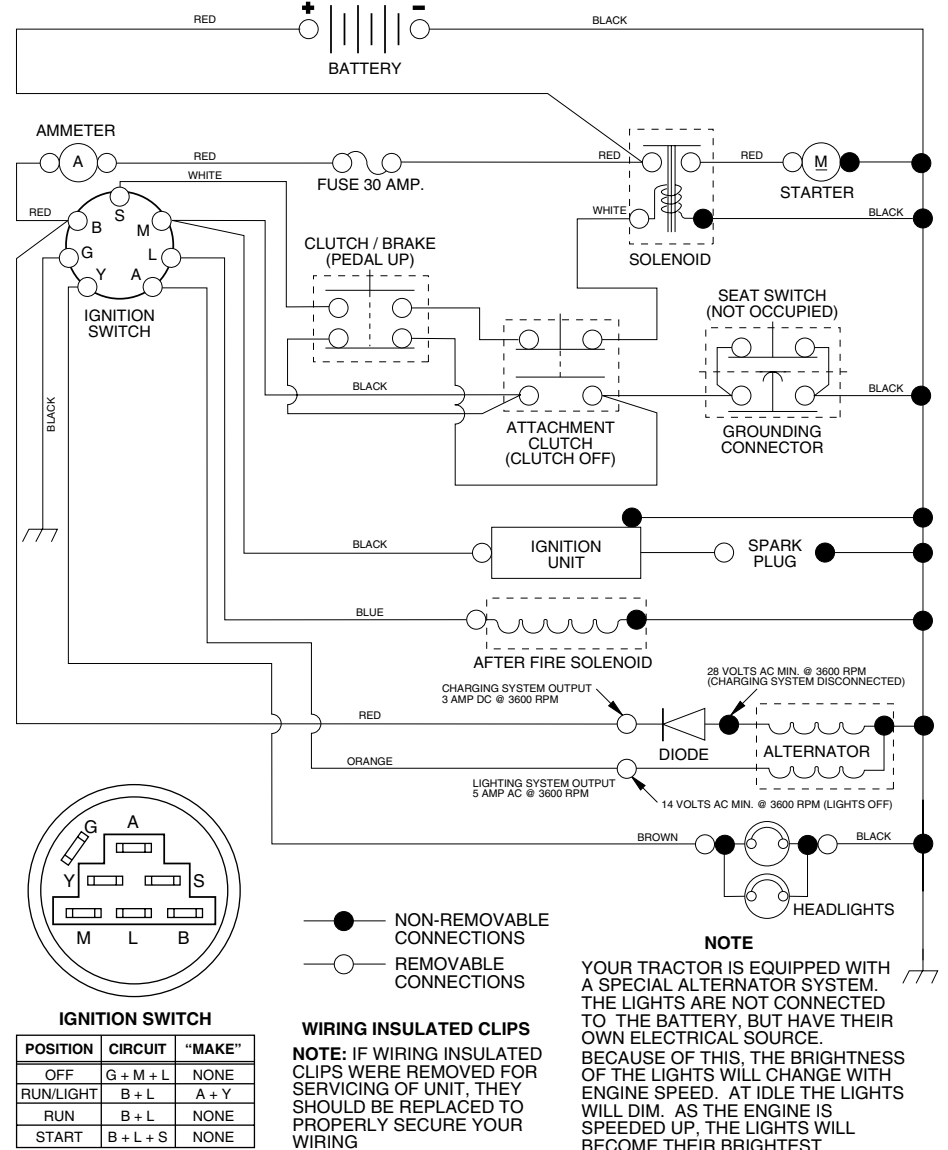
SCHEMATIC NUMBER

1686



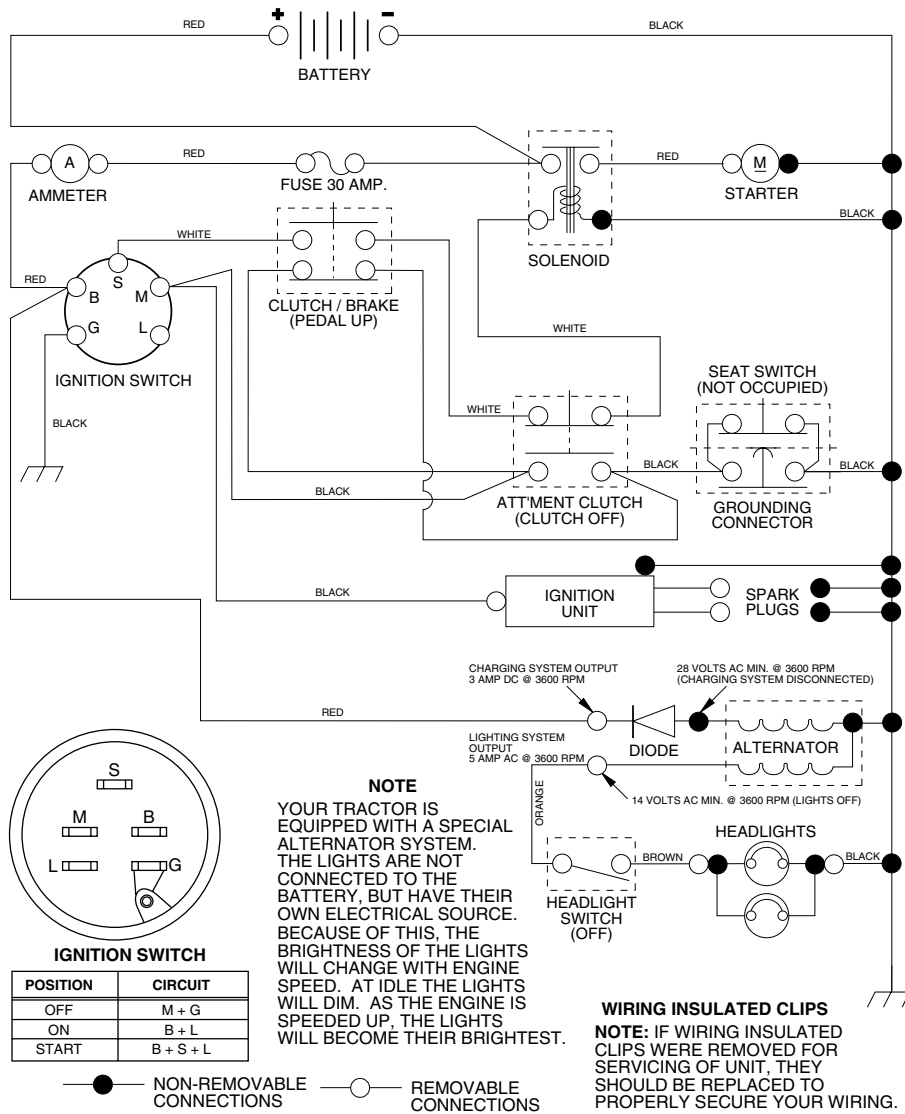
SCHEMATIC NUMBER

1719



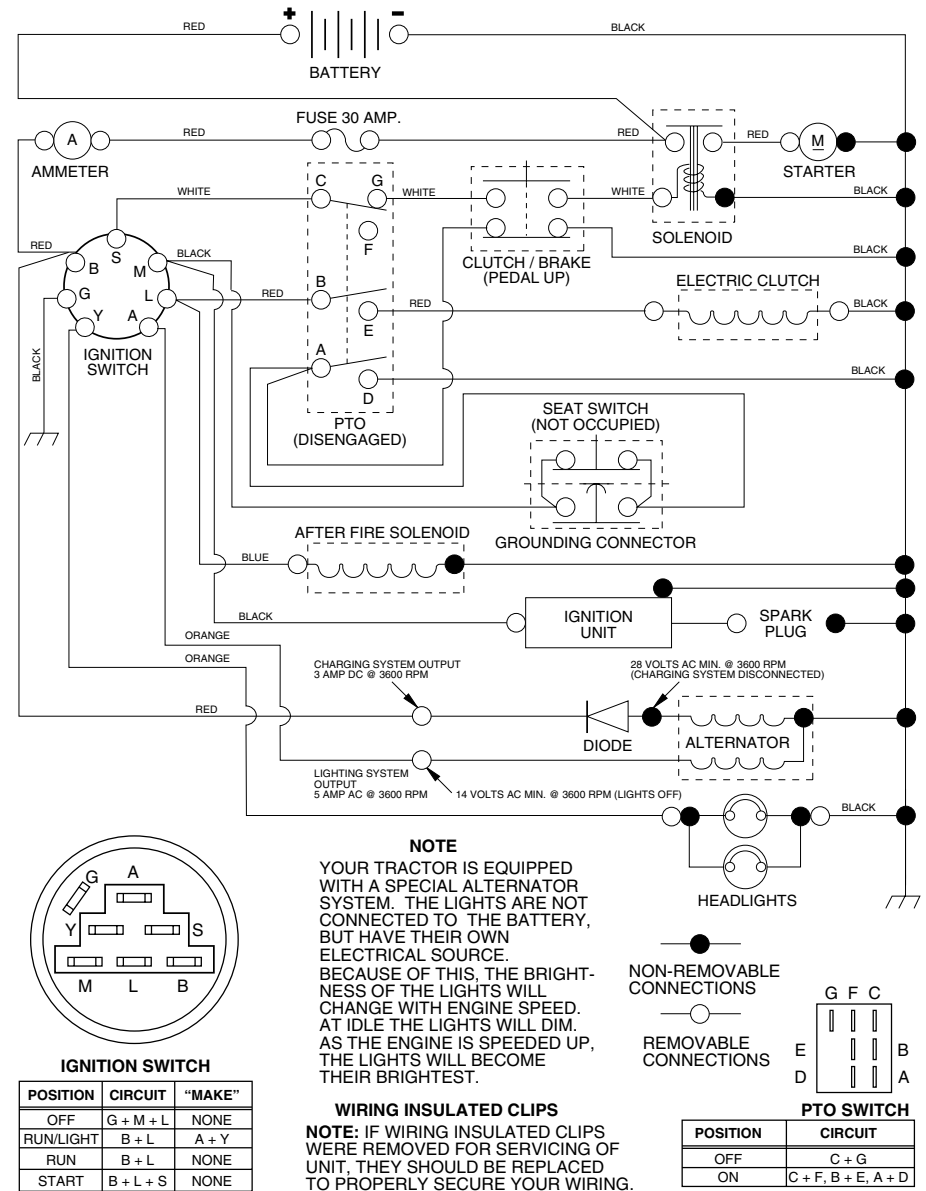
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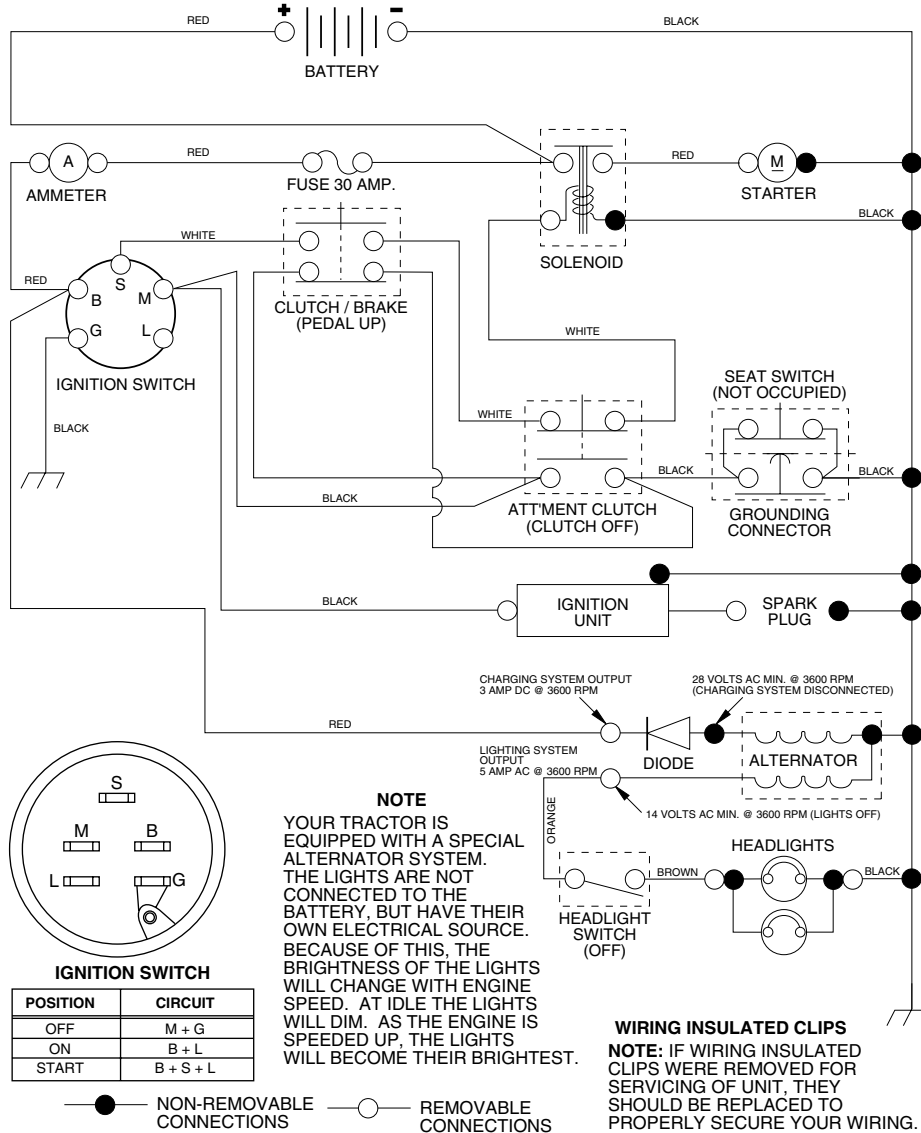
SCHEMATIC NUMBER

1727



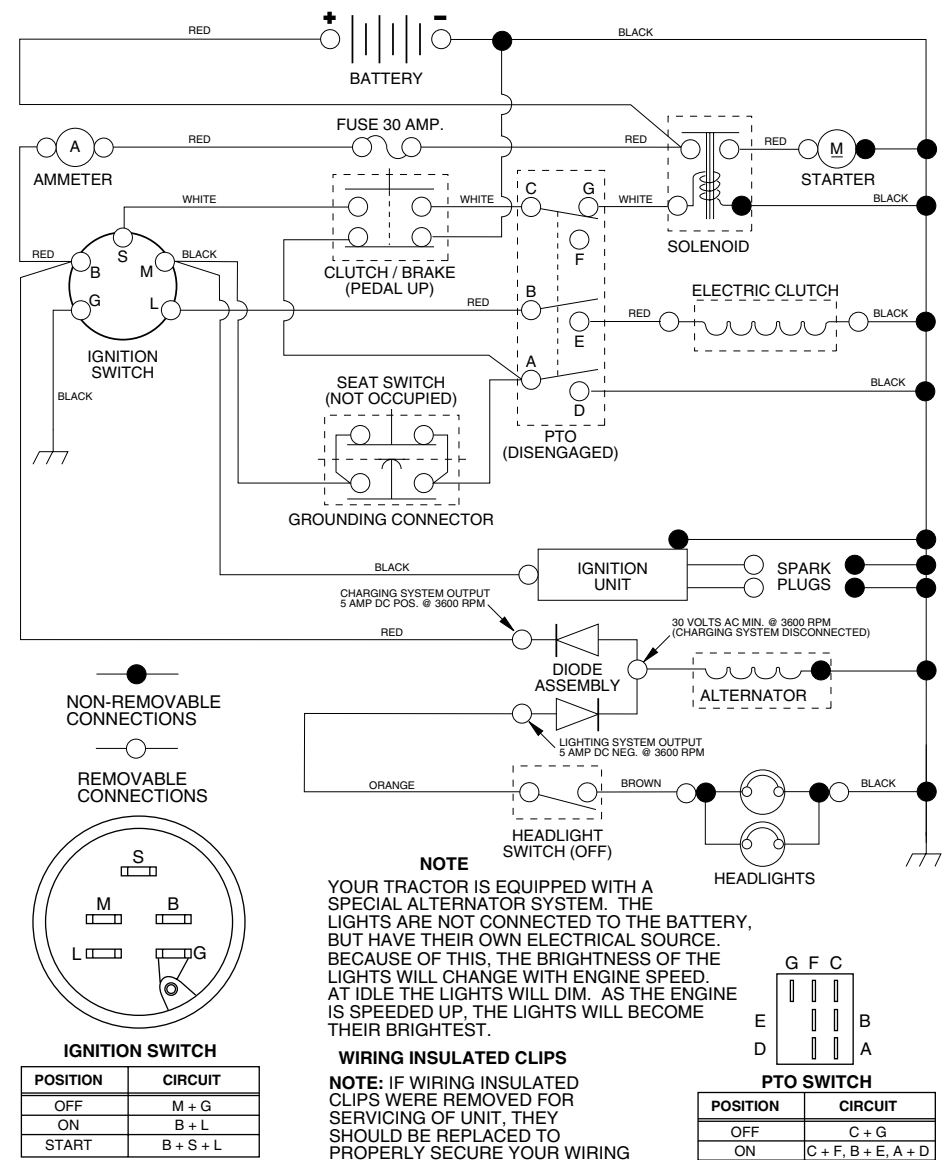
SCHEMATIC NUMBER

1768



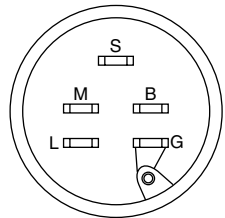
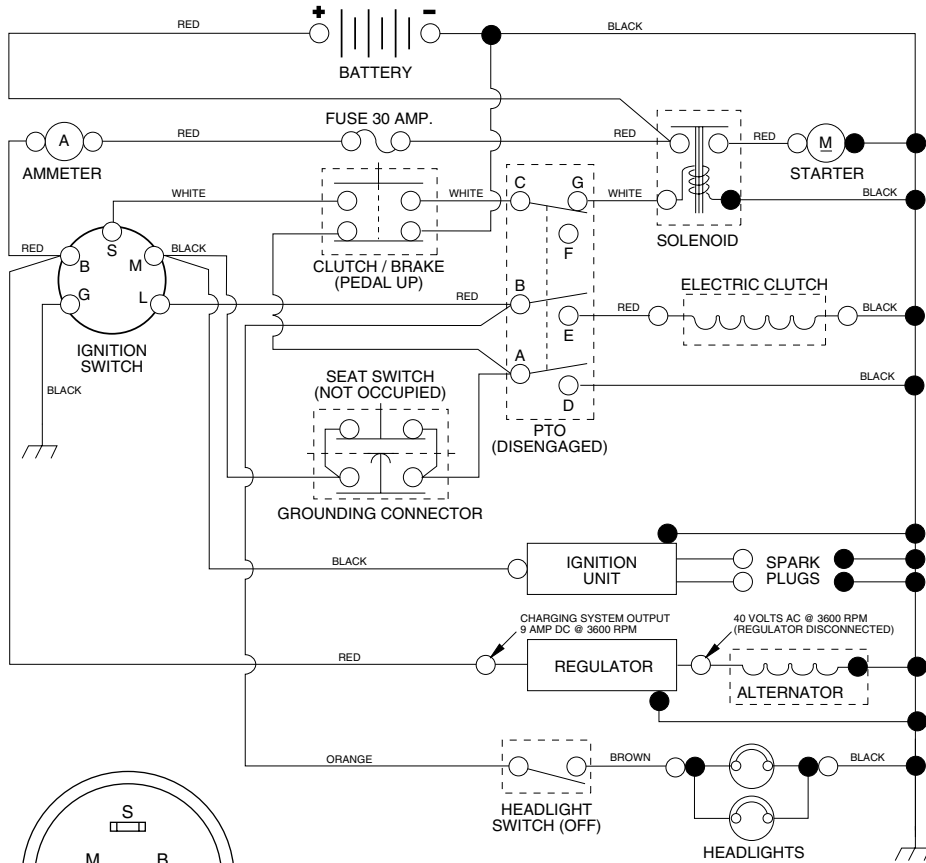
SCHEMATIC NUMBER

1776



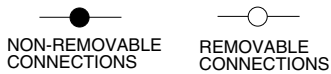
SCHEMATIC NUMBER

1780



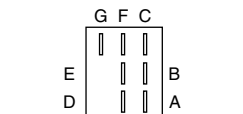
IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L



WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

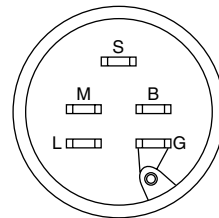
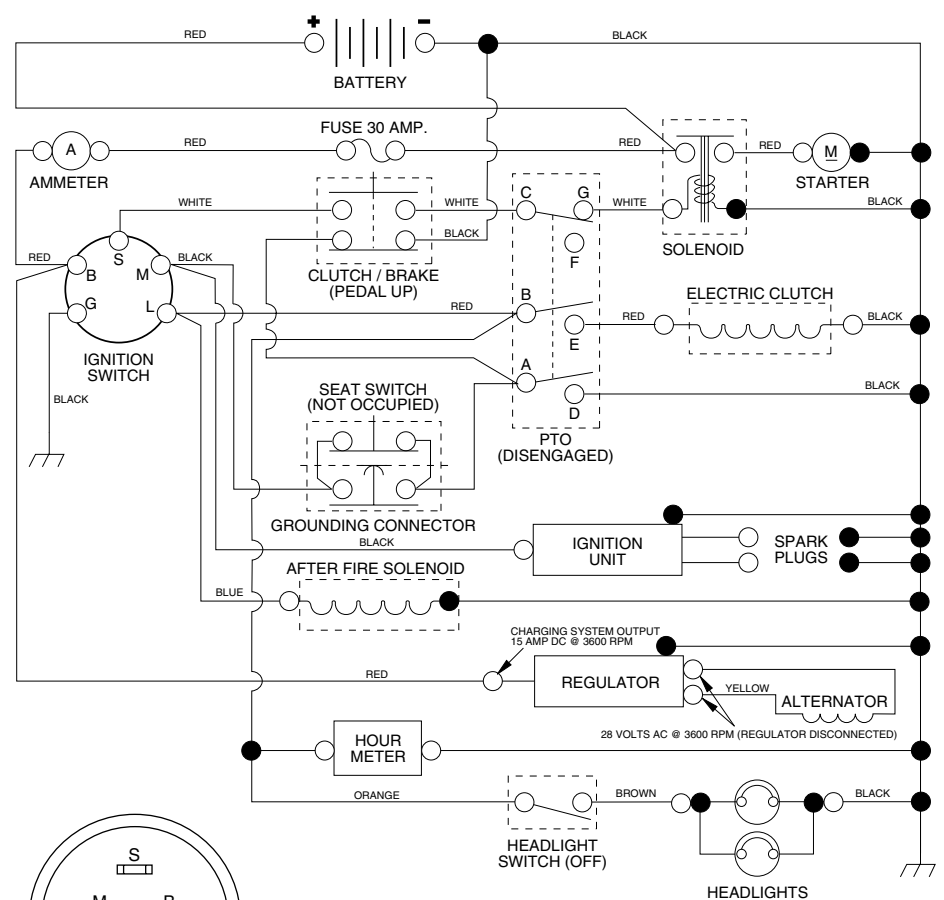


PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

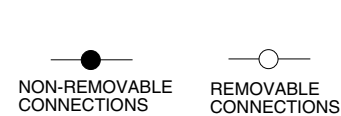
SCHEMATIC NUMBER

1786



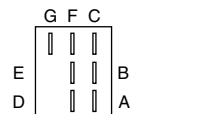
IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L



WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

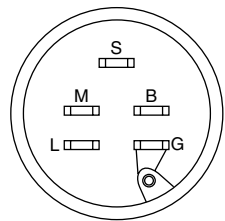
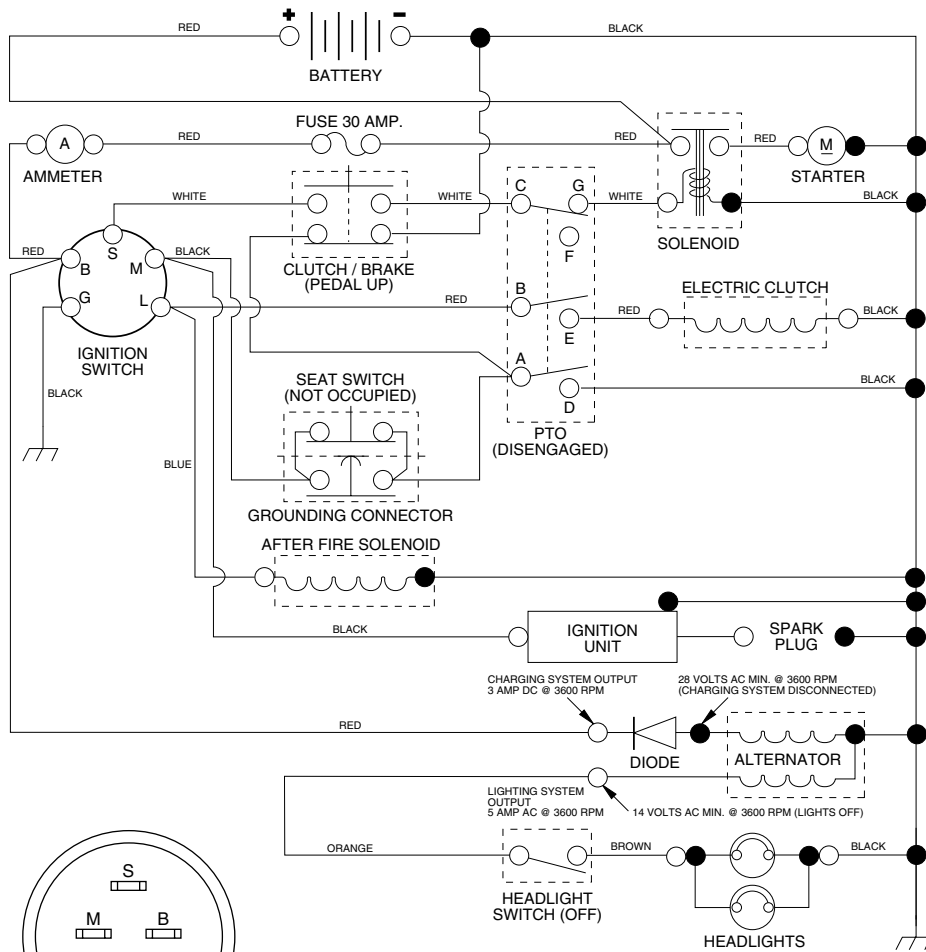


PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

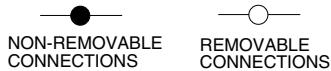
SCHEMATIC NUMBER

1790



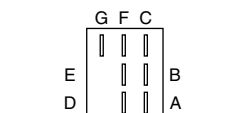
IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L



WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

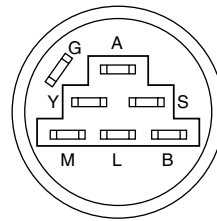
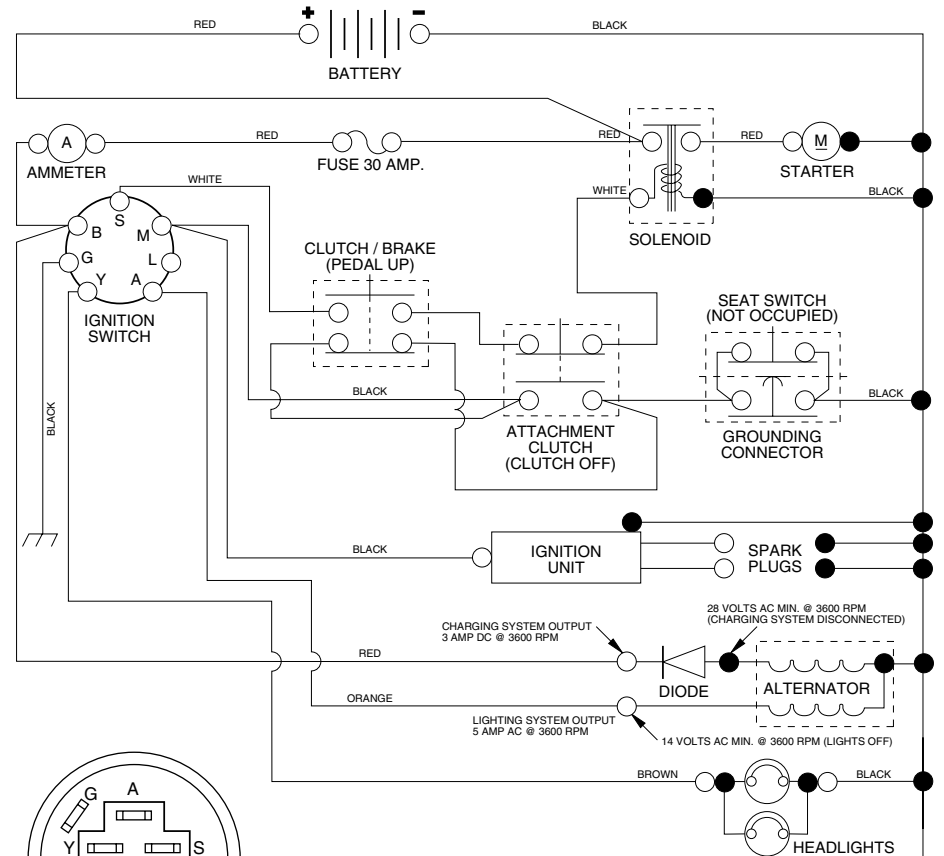


PTO SWITCH

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

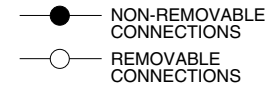
SCHEMATIC NUMBER

1792



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE



WIRING INSULATED CLIPS

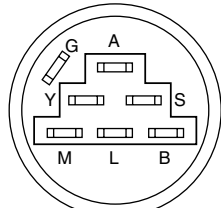
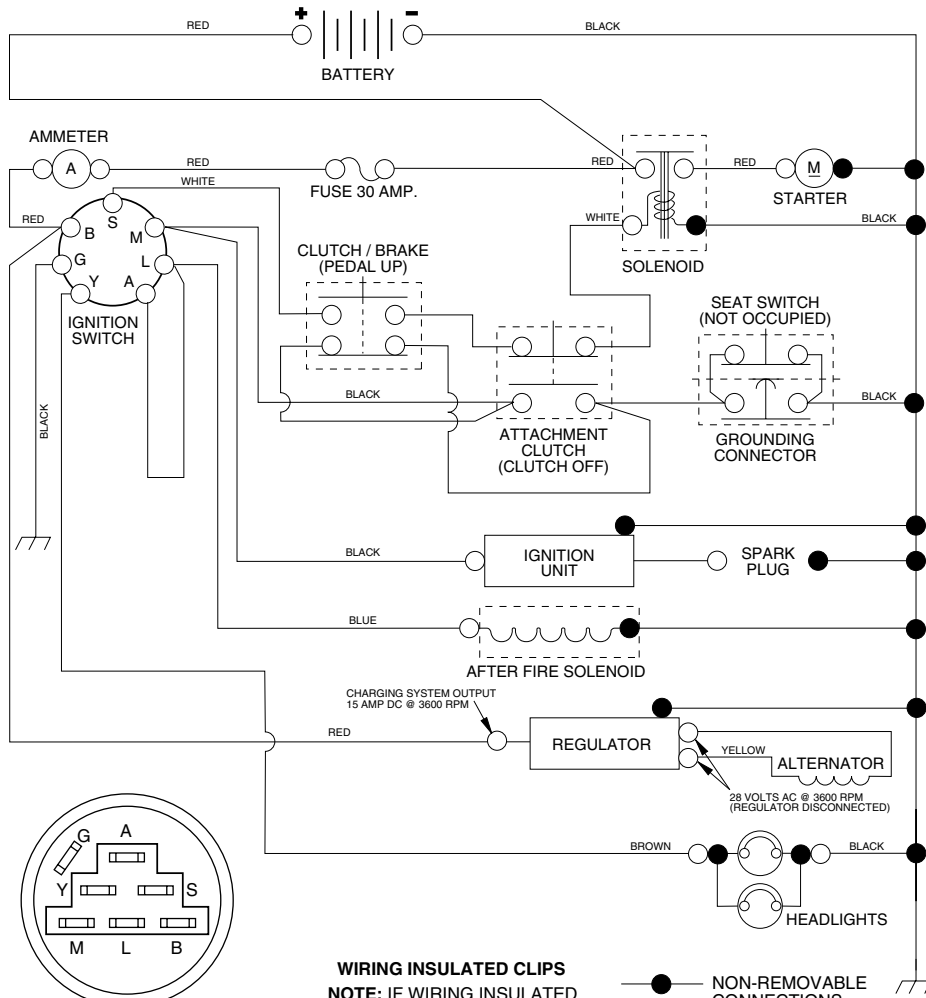
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

NOTE

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SCHEMATIC NUMBER

1850



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

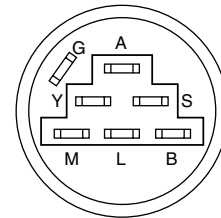
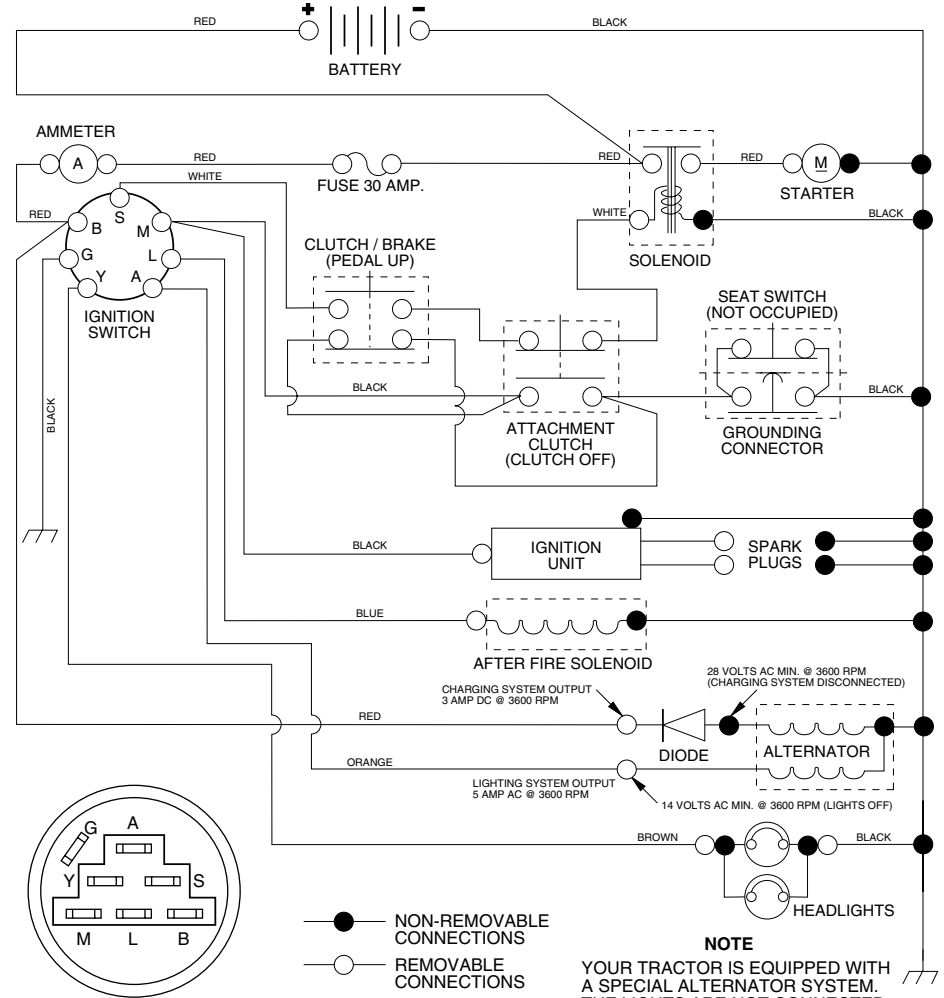
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

1872



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

- NON-REMOVABLE CONNECTIONS
- REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS

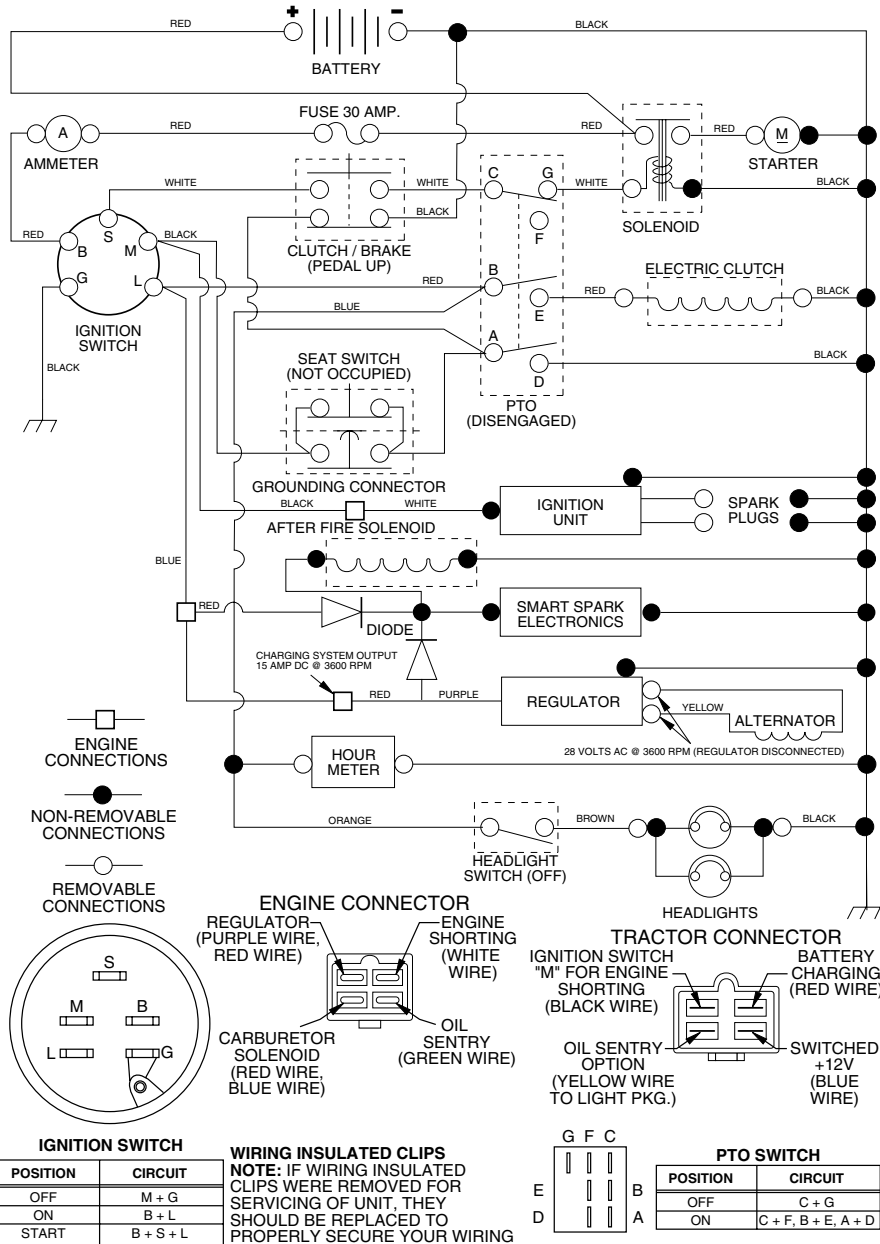
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

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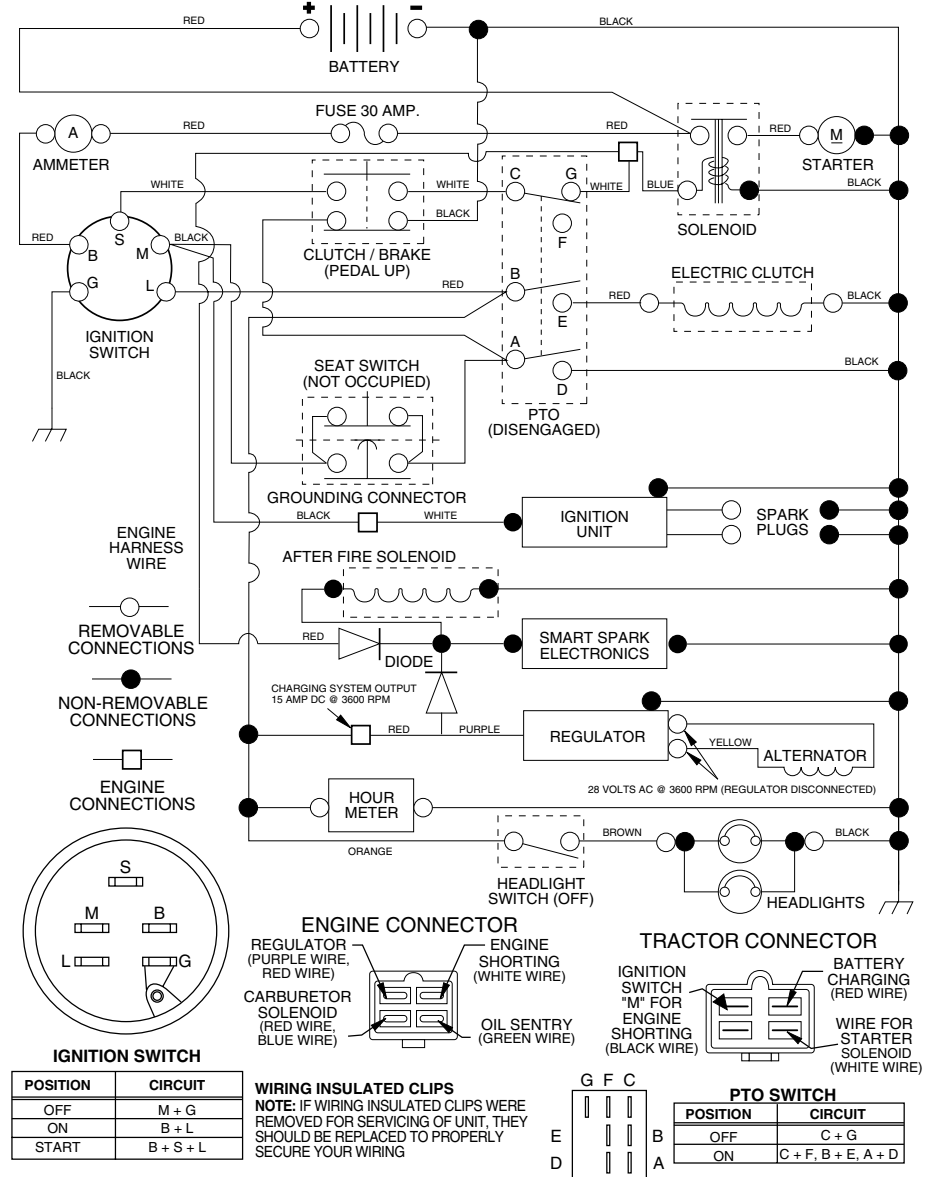
SCHEMATIC NUMBER

1889



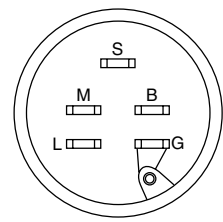
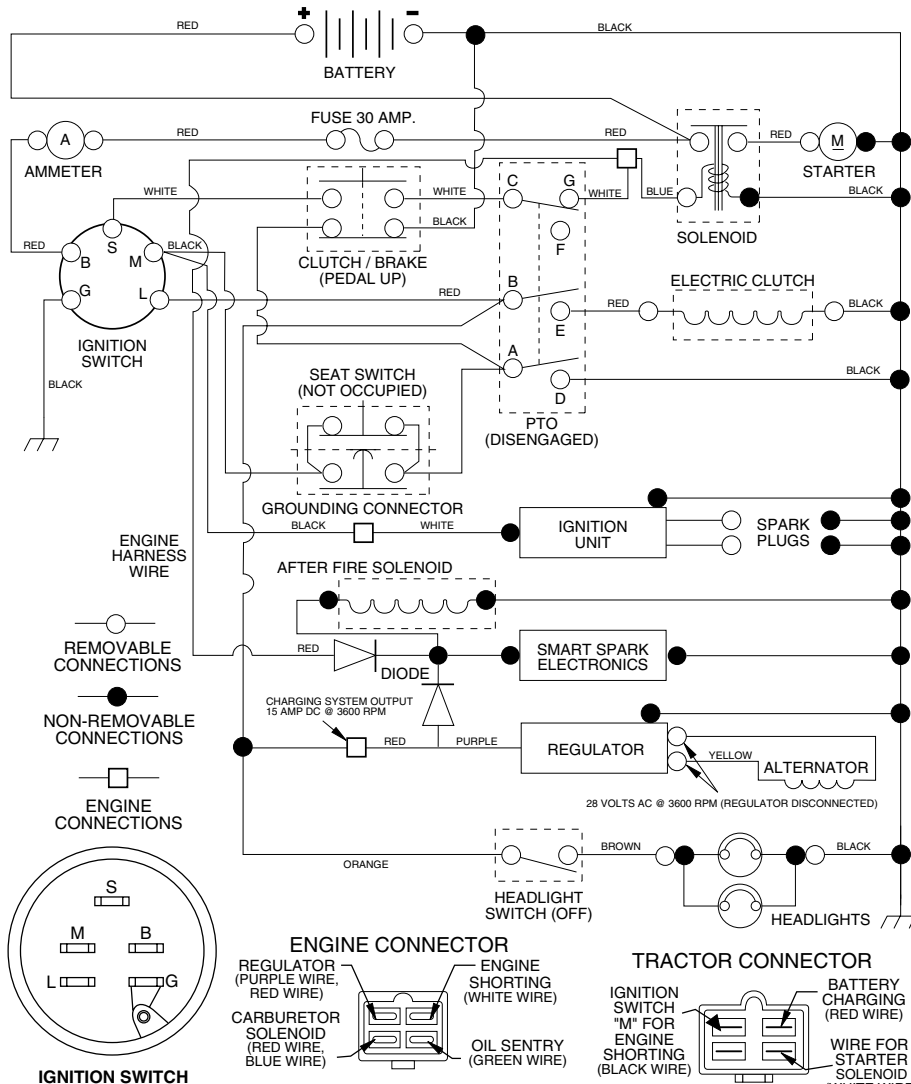
SCHEMATIC NUMBER

1891

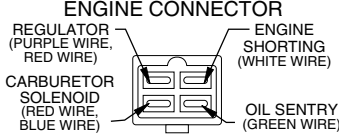


SCHEMATIC NUMBER

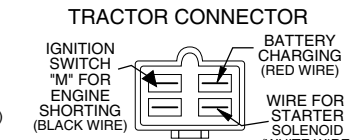
1904



POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S + L



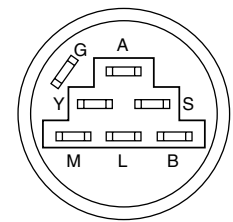
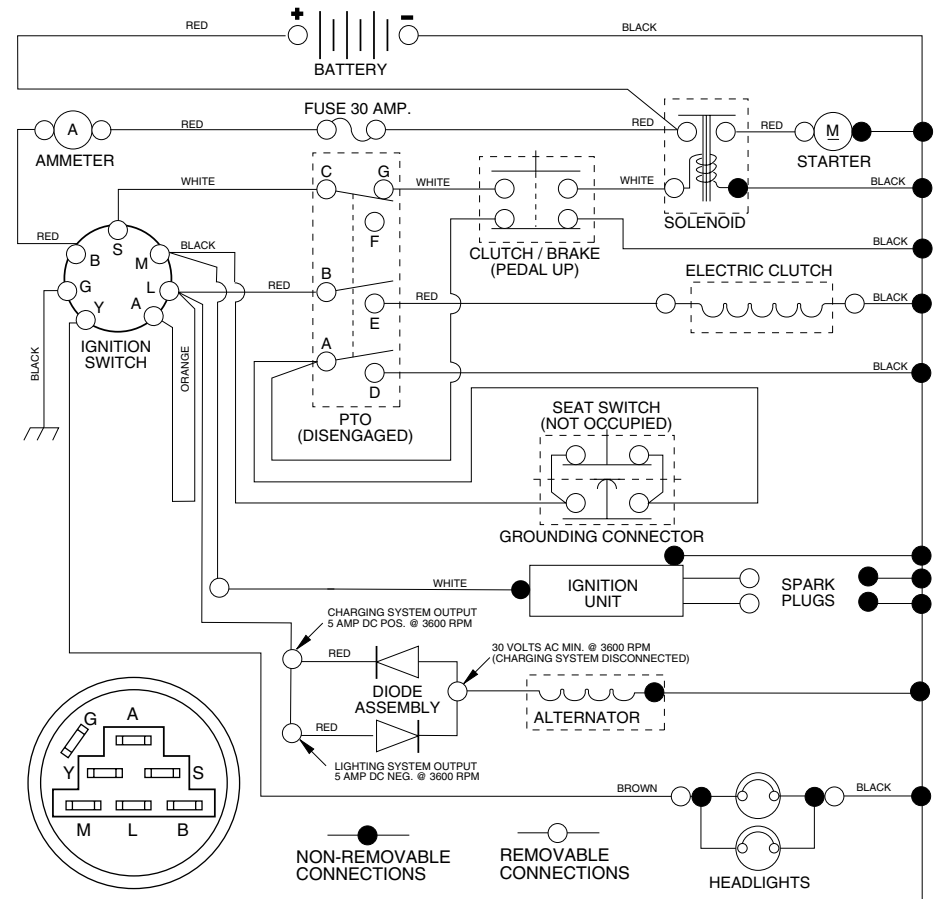
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING



POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

SCHEMATIC NUMBER

1911



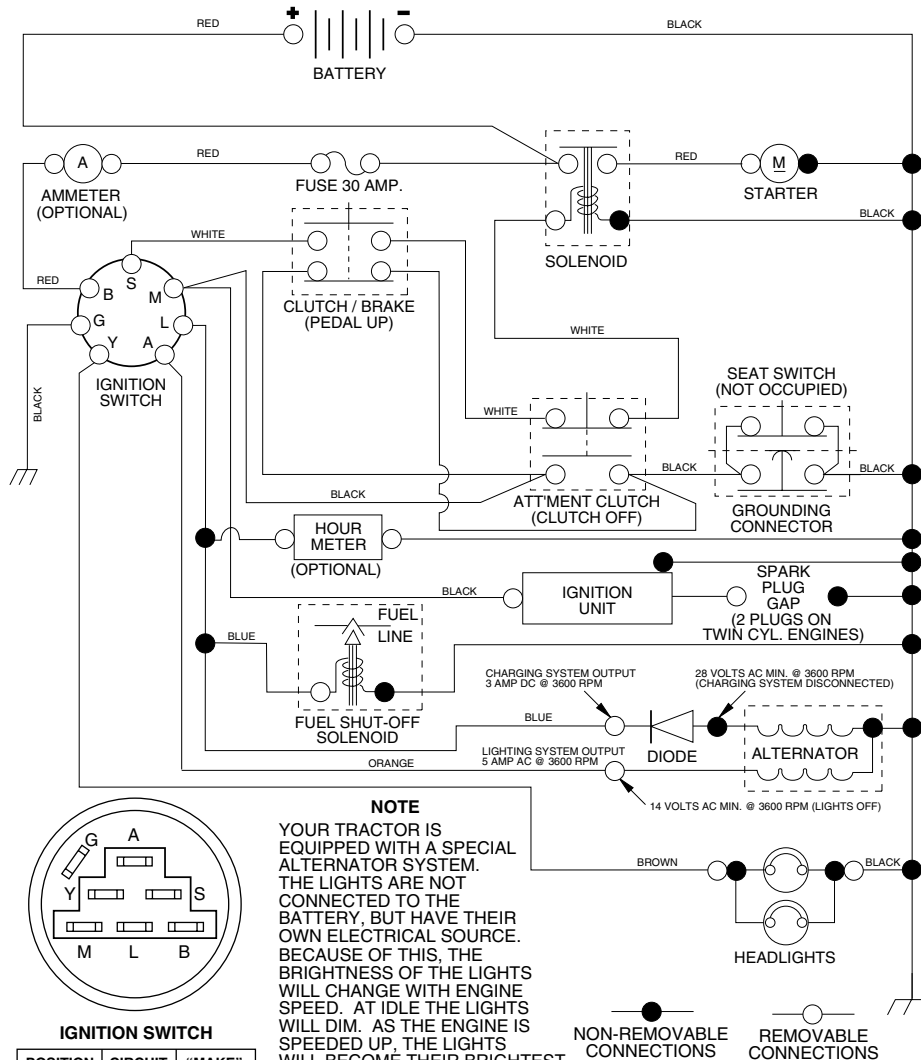
POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

POSITION	CIRCUIT
OFF	C + G
ON	C + F, B + E, A + D

SCHEMATIC NUMBER

1926



NOTE

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WIRING INSULATED CLIPS

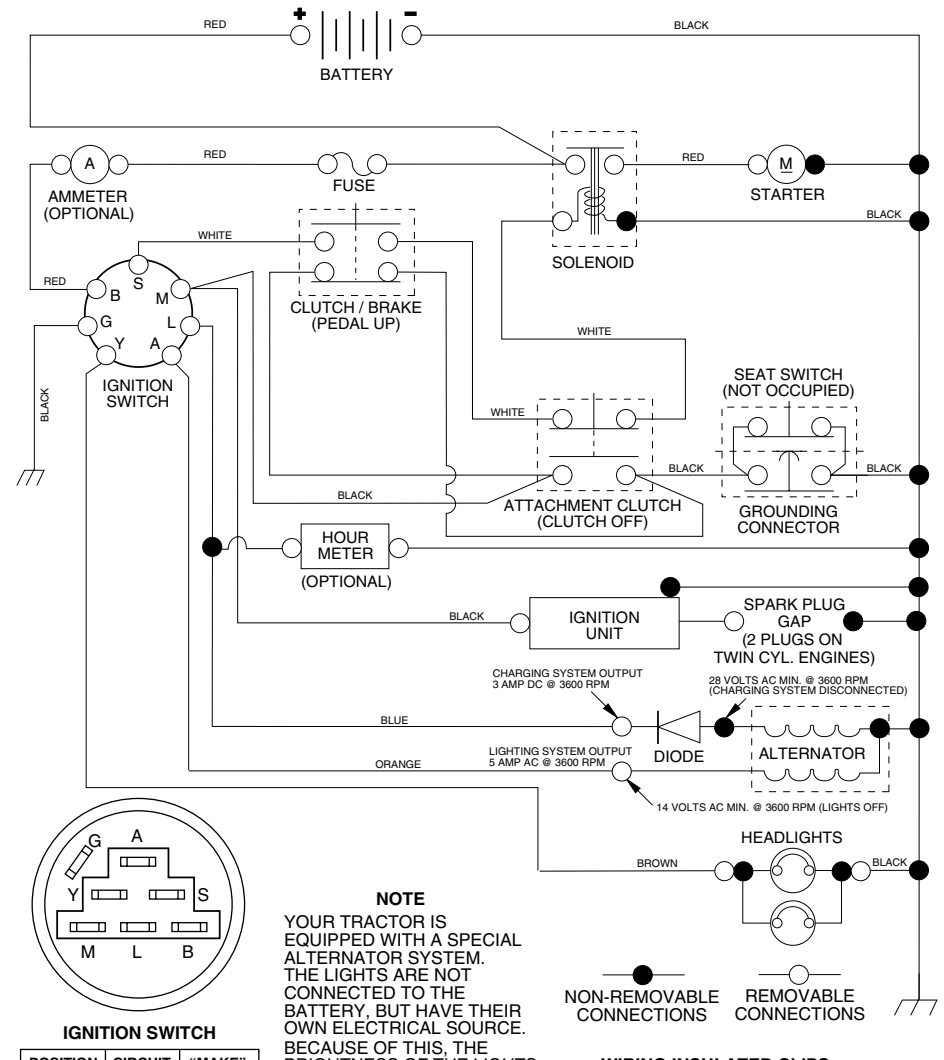
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

SCHEMATIC NUMBER

1929



NOTE

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WIRING INSULATED CLIPS

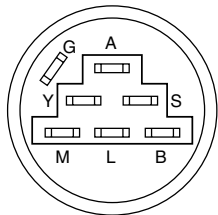
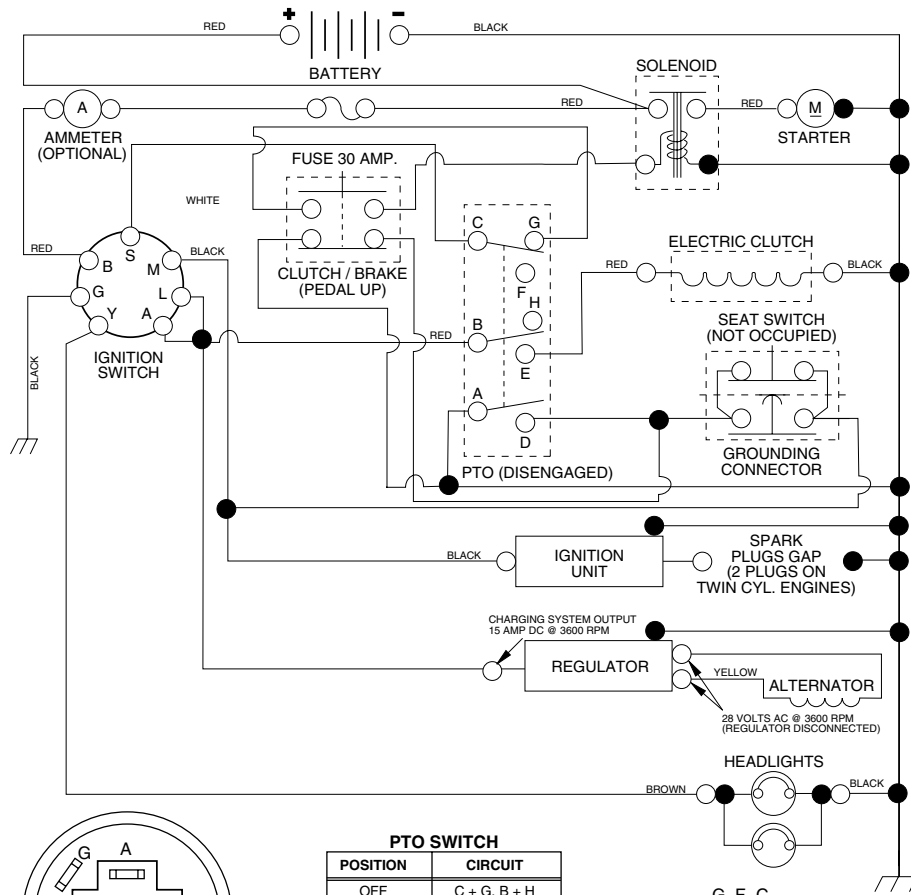
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

SCHEMATIC NUMBER

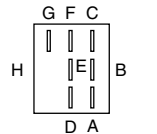
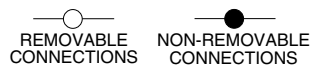
1967



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

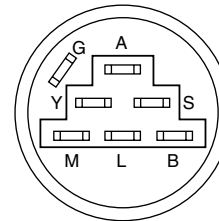
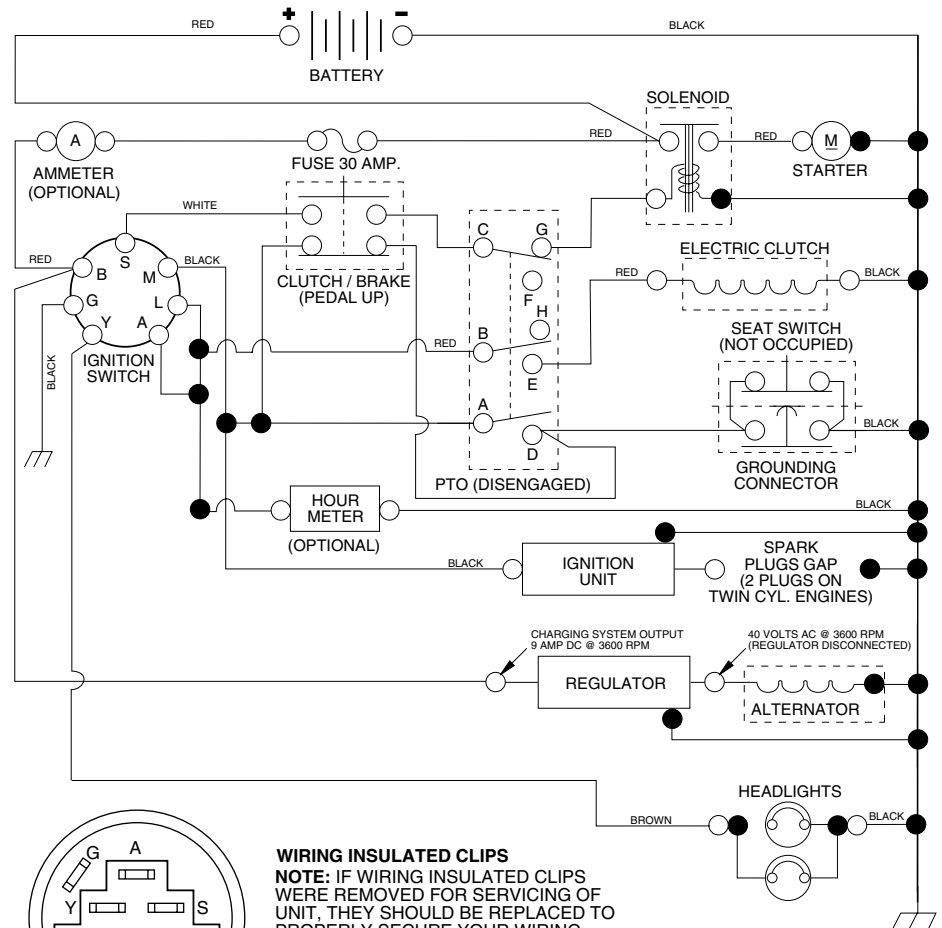


WIRING INSULATED CLIPS

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SCHEMATIC NUMBER

1968

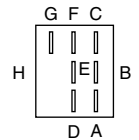


IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

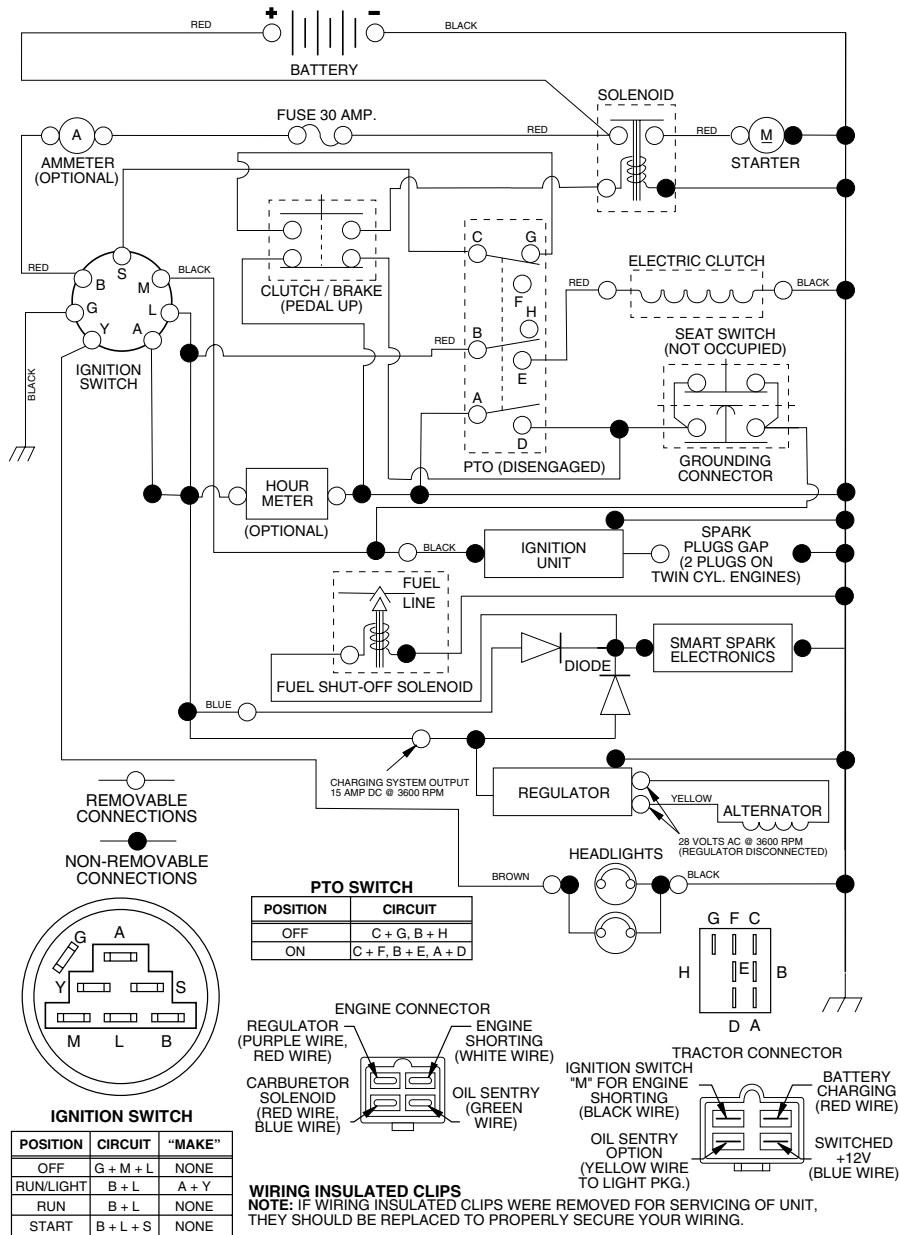


PTO SWITCH

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

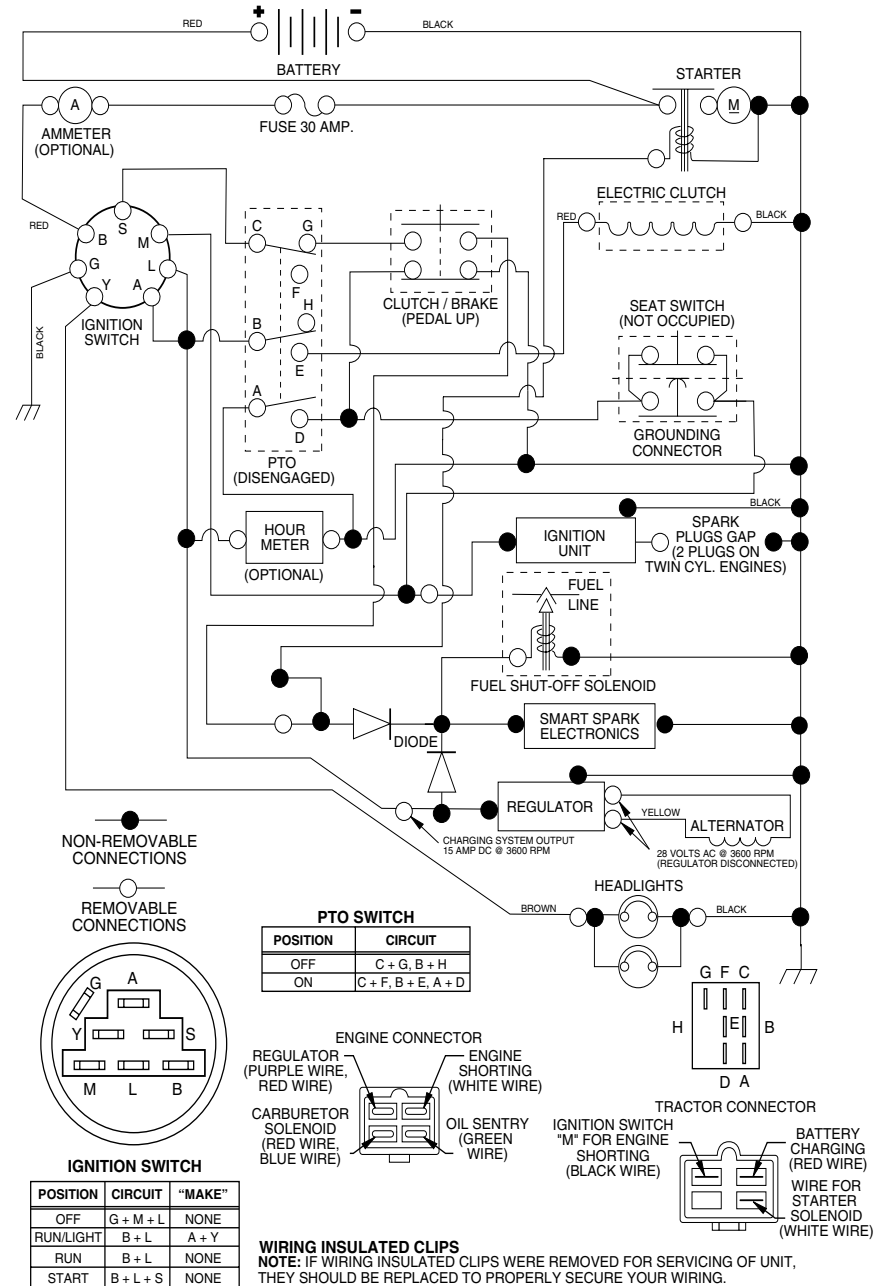
SCHEMATIC NUMBER

1976



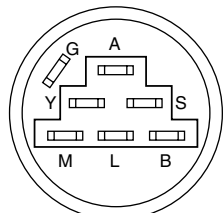
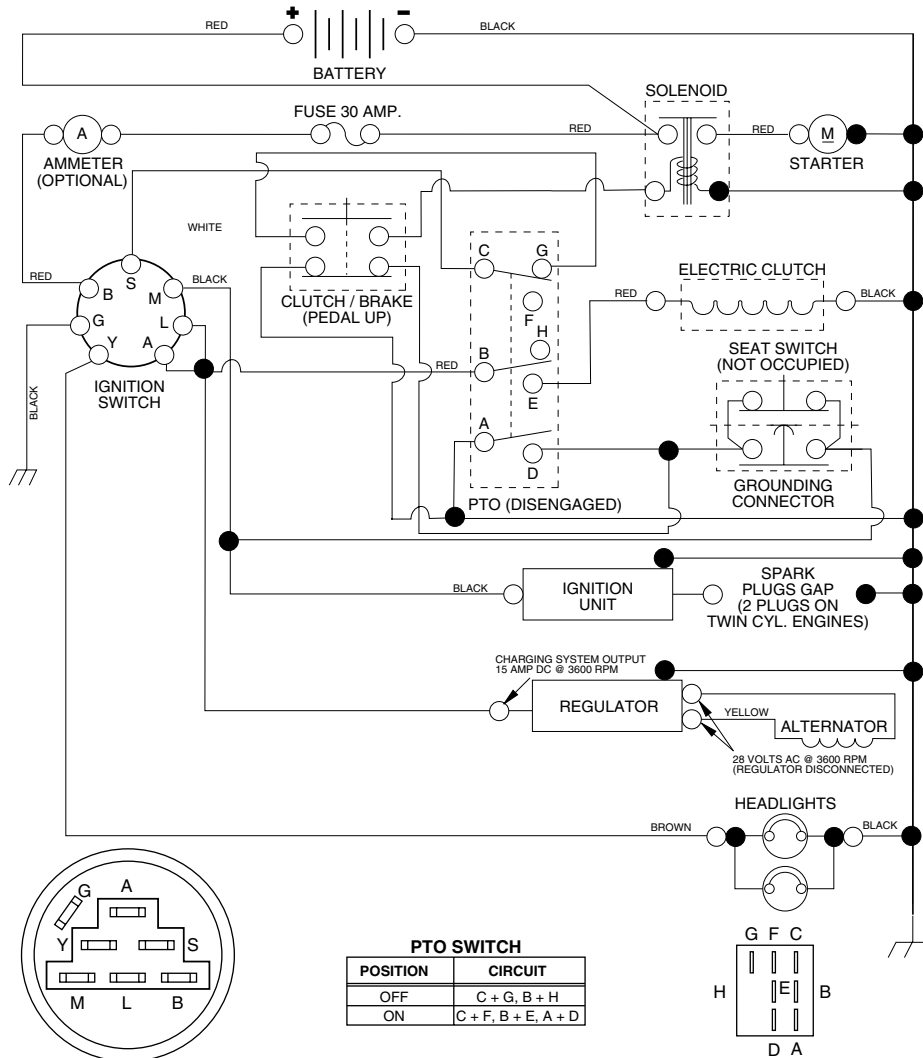
SCHEMATIC NUMBER

1980



SCHEMATIC NUMBER

1982



PTO SWITCH

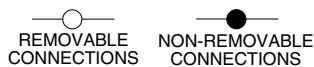
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

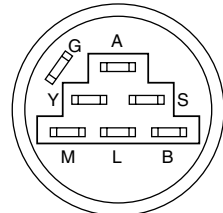
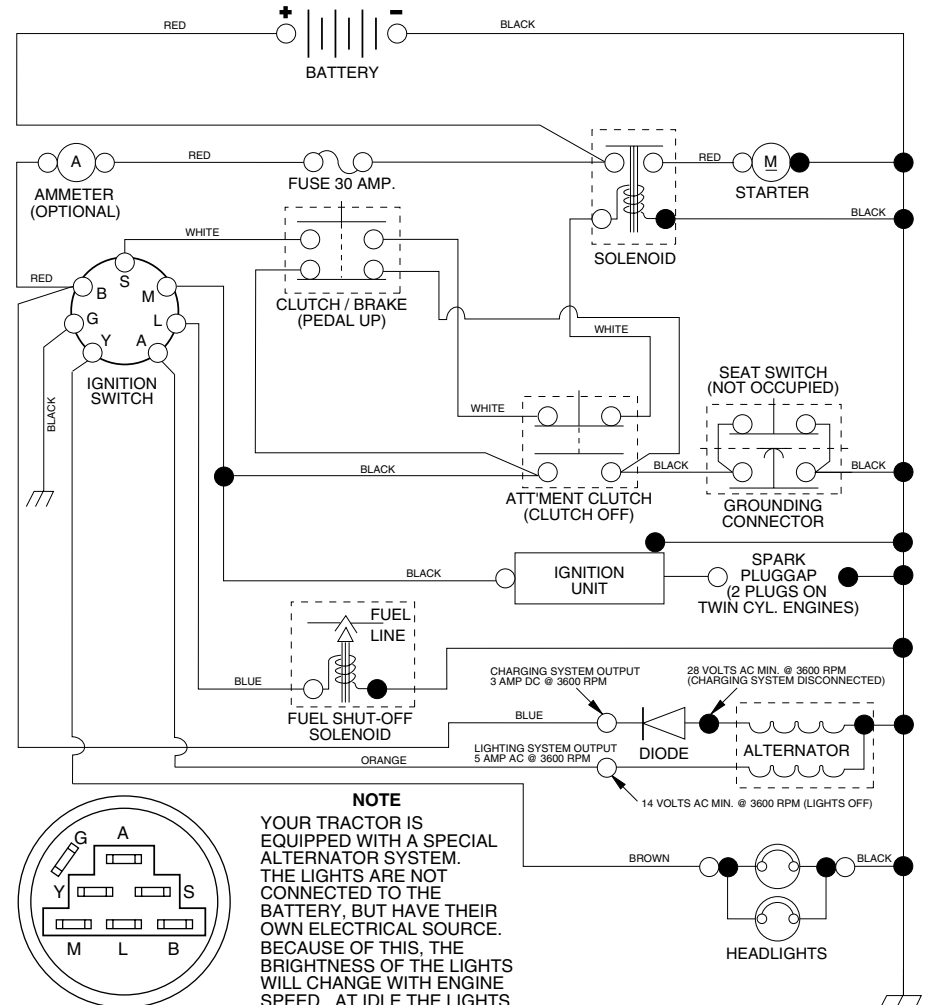
WIRING INSULATED CLIPS

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SCHEMATIC NUMBER

2001

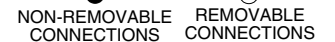


IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

NOTE

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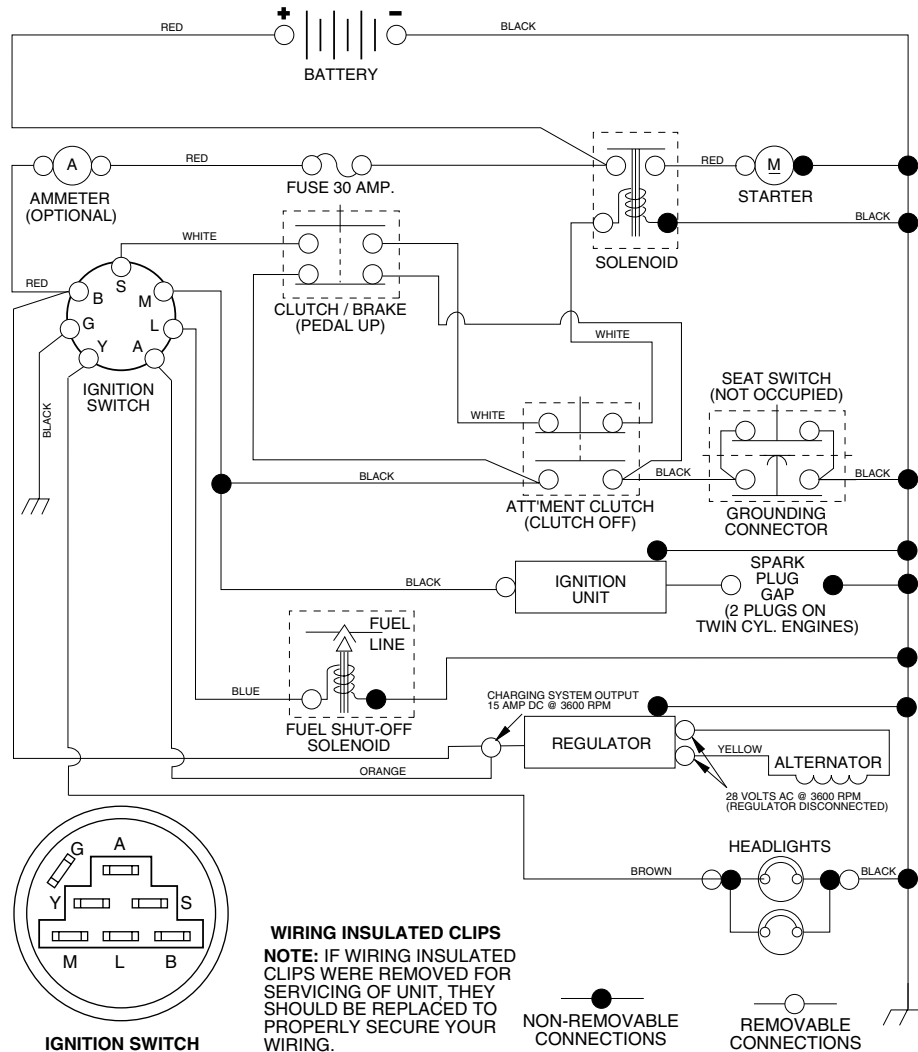


WIRING INSULATED CLIPS

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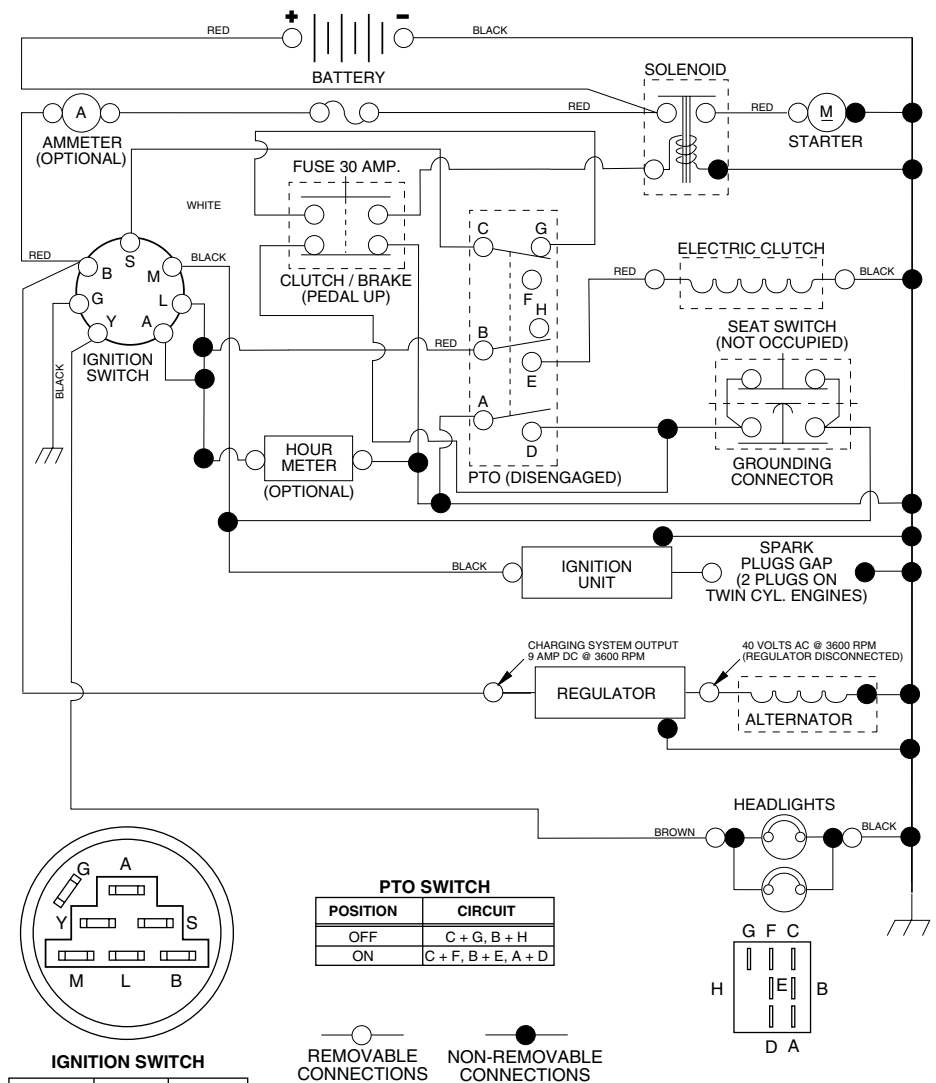
SCHEMATIC NUMBER

2009



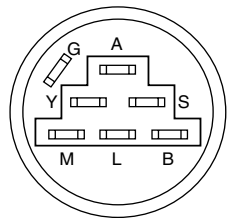
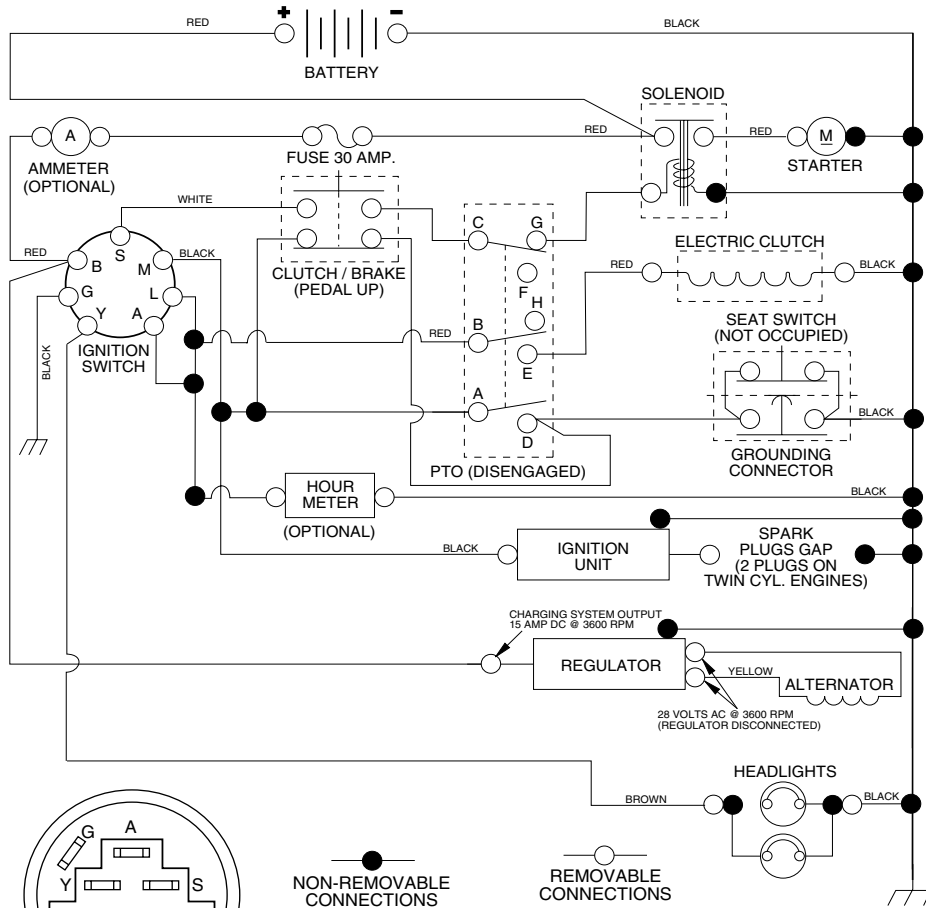
SCHEMATIC NUMBER

2011



SCHEMATIC NUMBER

2012



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

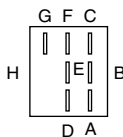
NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

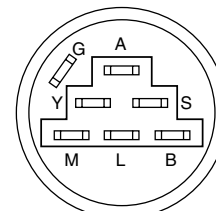
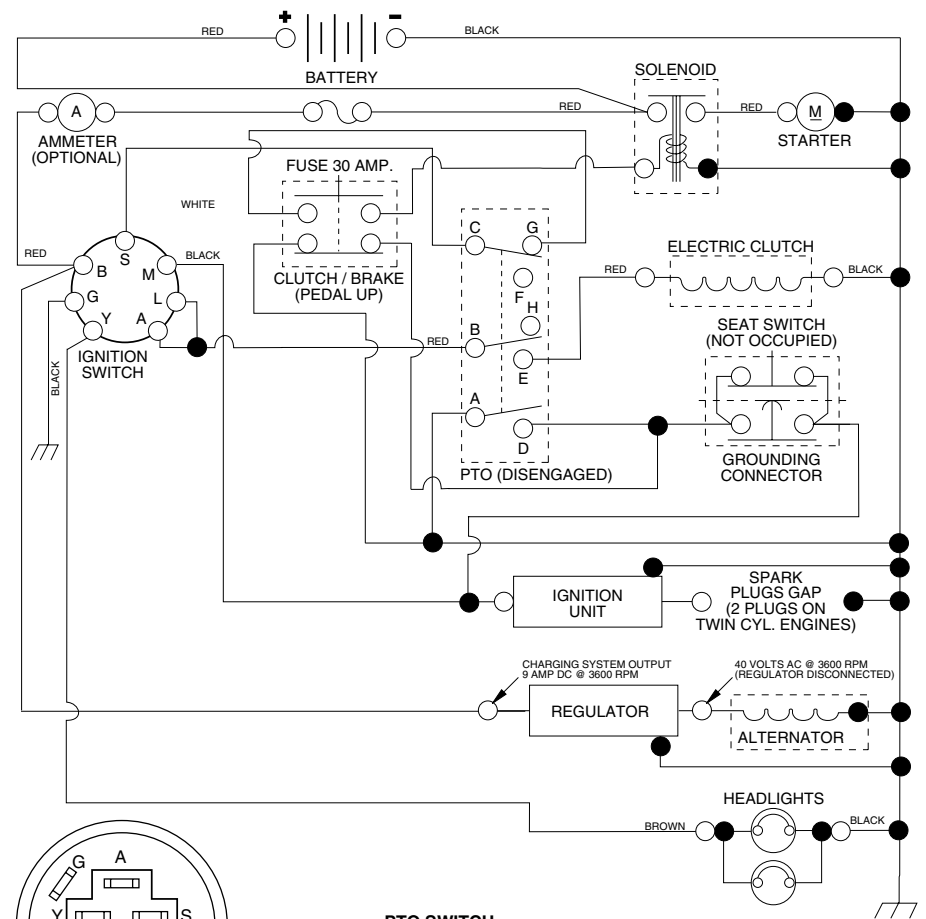
PTO SWITCH

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



SCHEMATIC NUMBER

2055

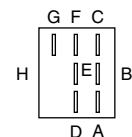


IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

PTO SWITCH

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



REMOVABLE CONNECTIONS

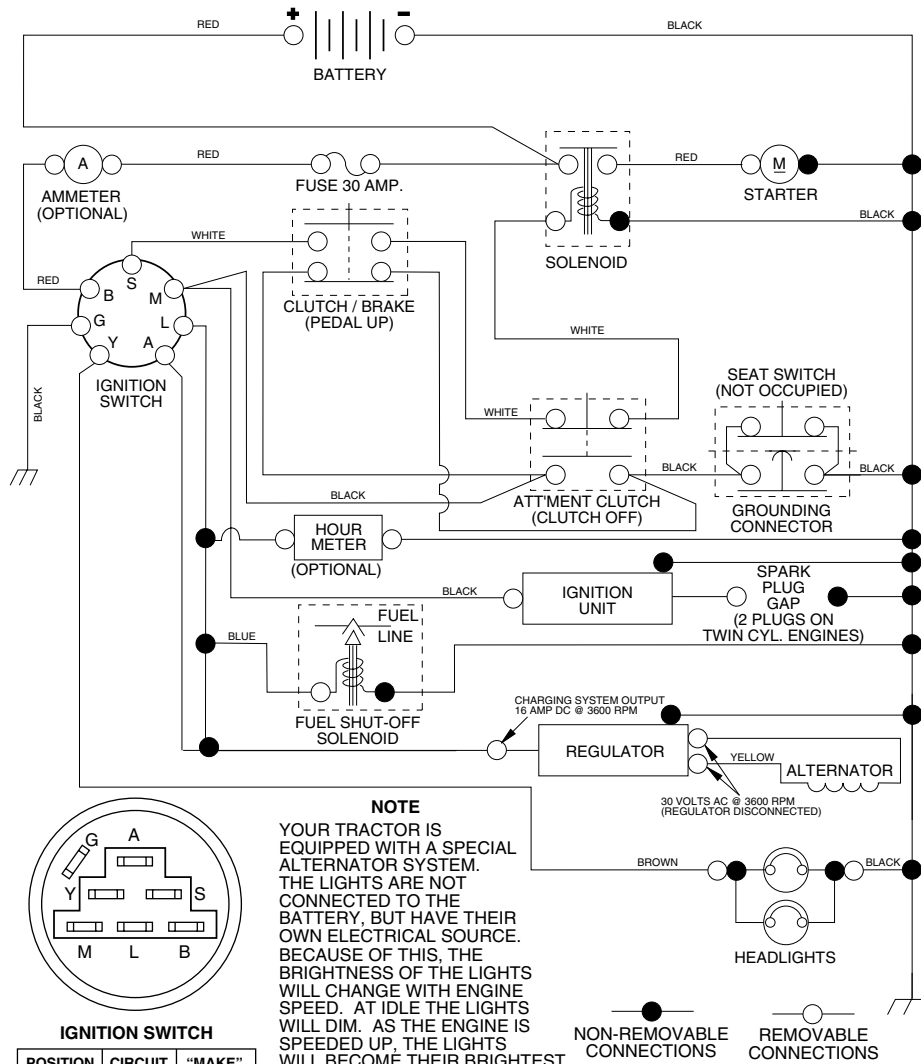
NON-REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2061

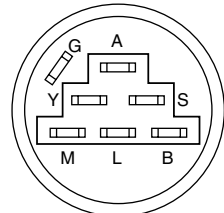


NOTE

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



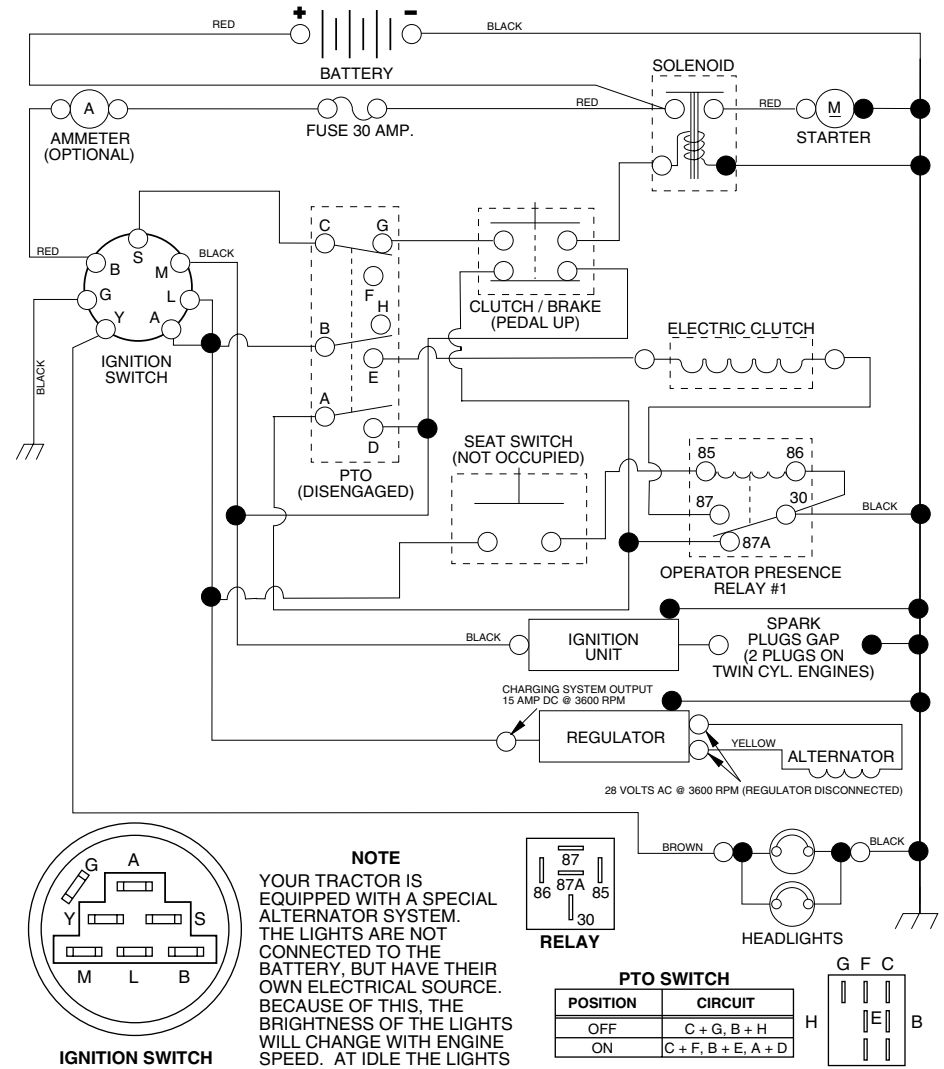
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2064

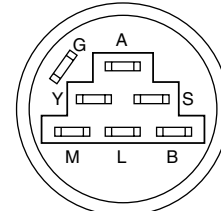


NOTE

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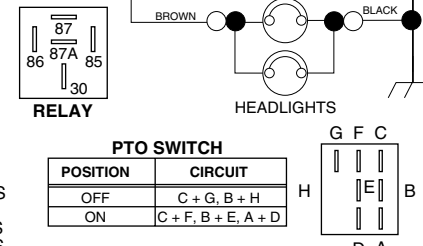
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

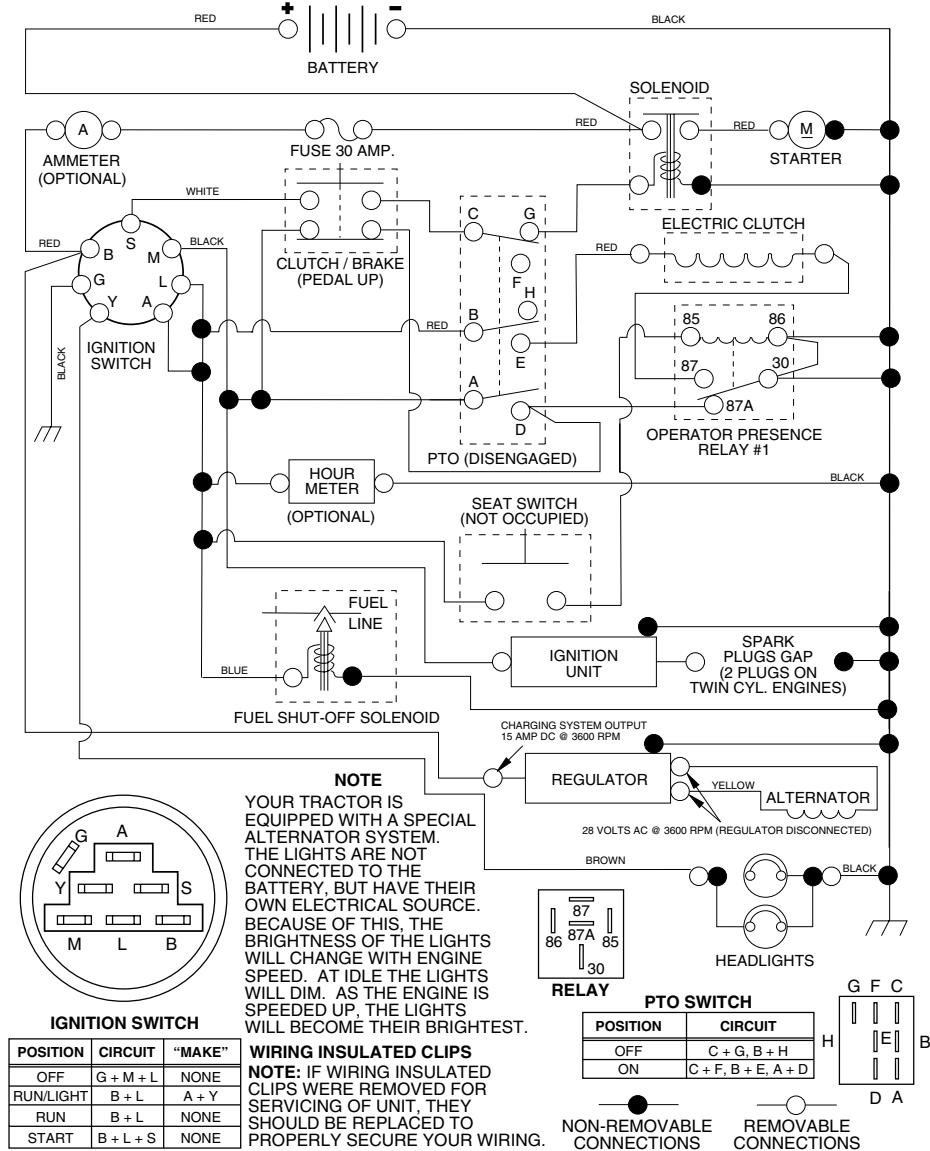


PTO SWITCH	
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

REMOVABLE CONNECTIONS NON-REMOVABLE CONNECTIONS

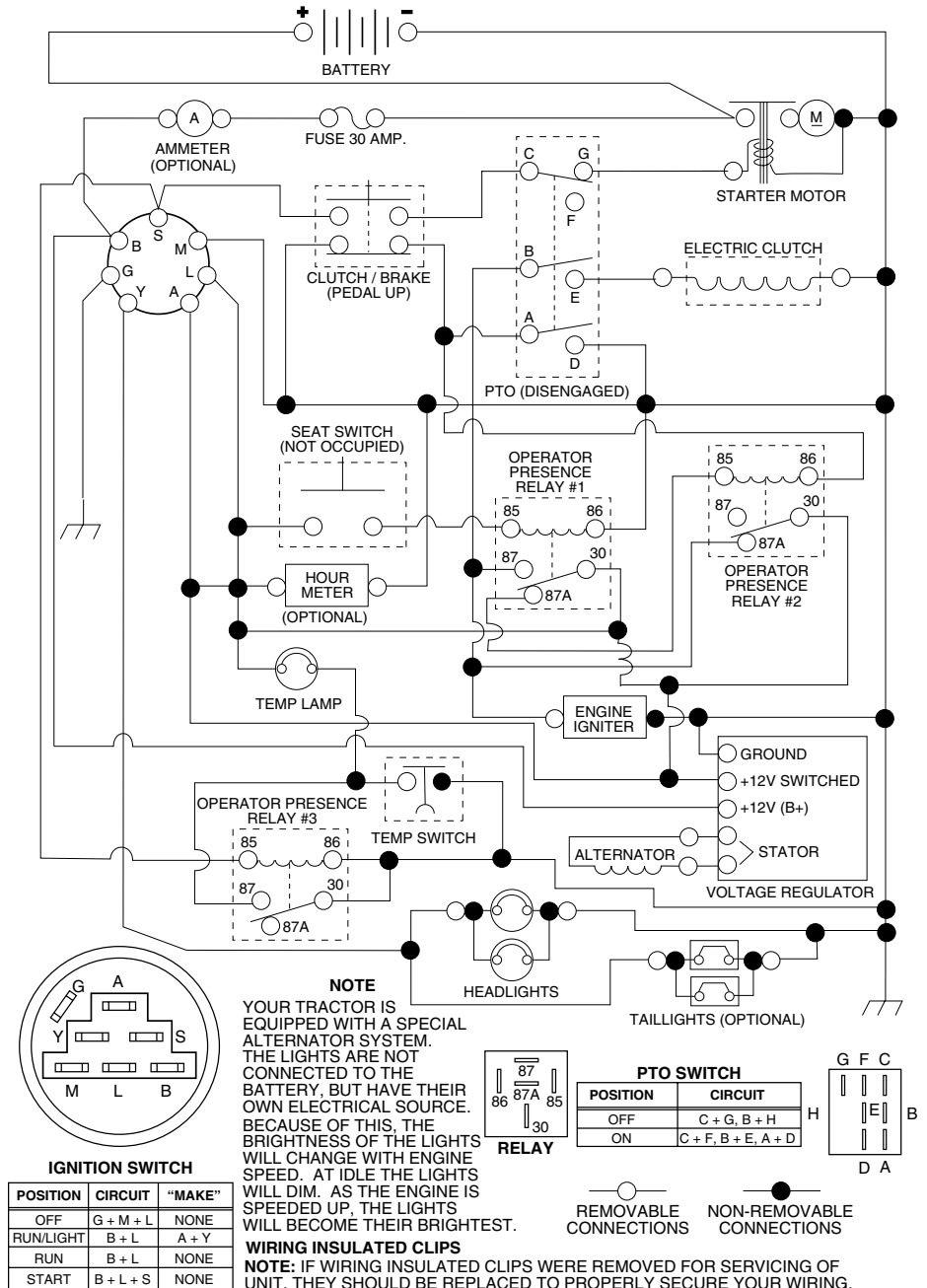
SCHEMATIC NUMBER

2065



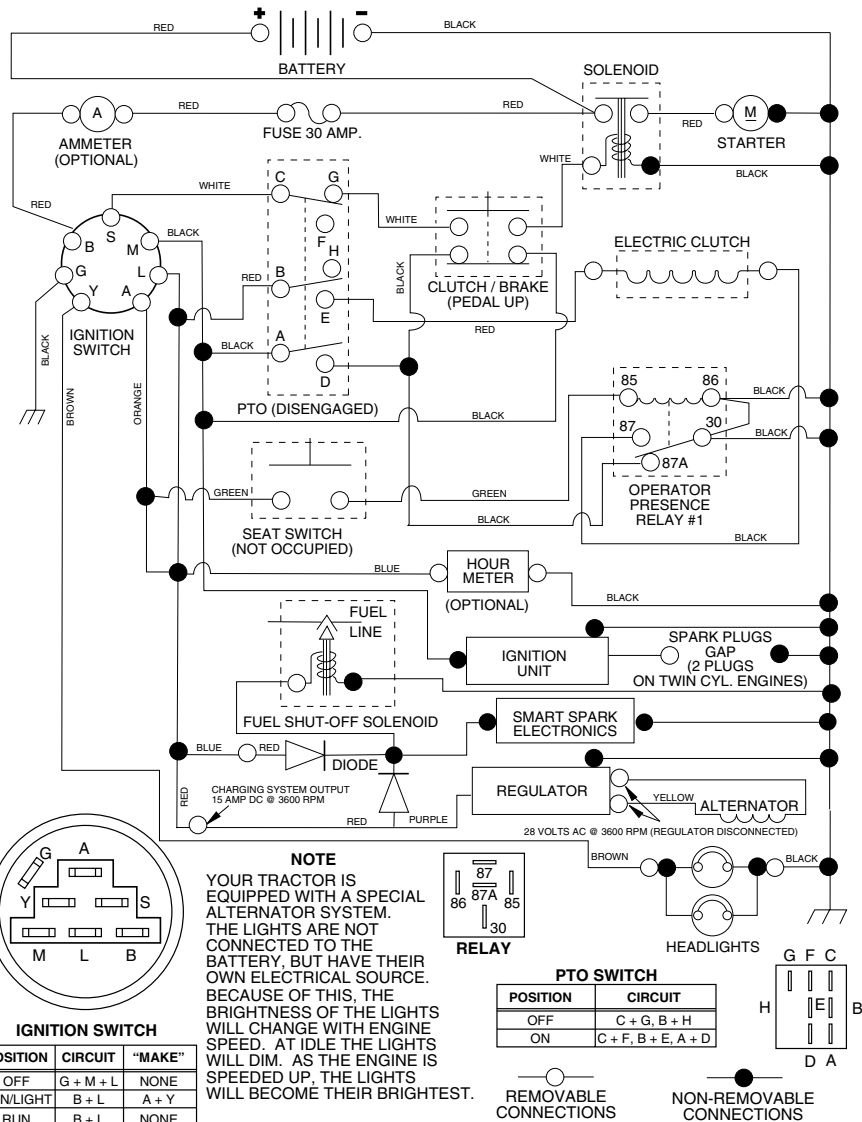
SCHEMATIC NUMBER

2066

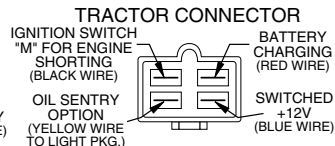
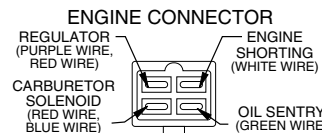


SCHEMATIC NUMBER

2070

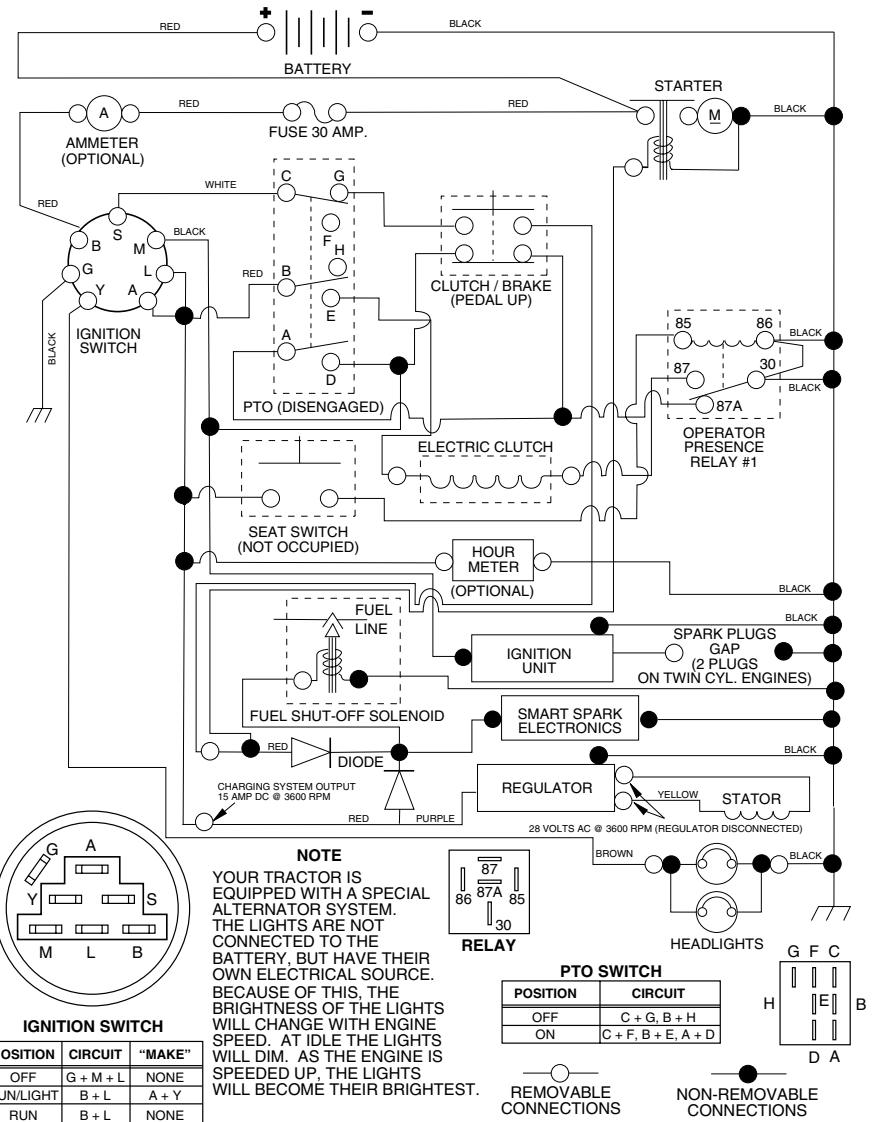


WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

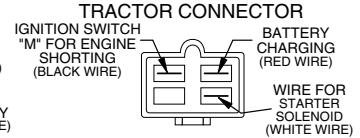
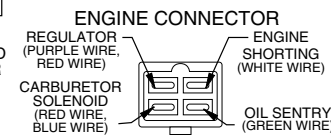


SCHEMATIC NUMBER

2071

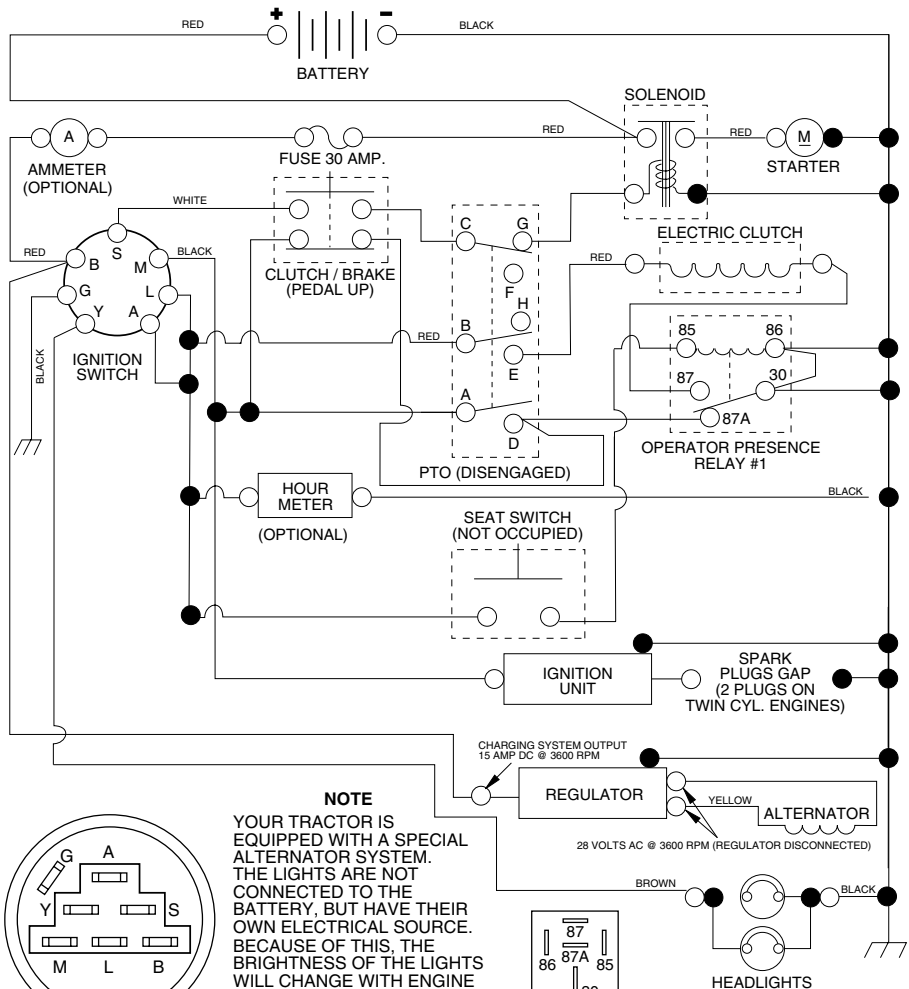


WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

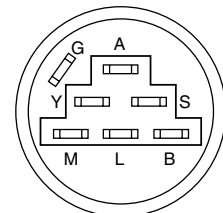


SCHEMATIC NUMBER

2072

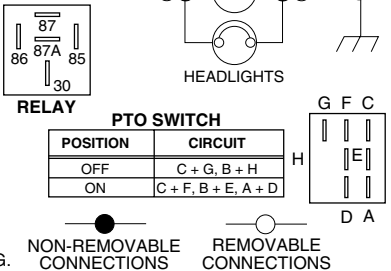


NOTE
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

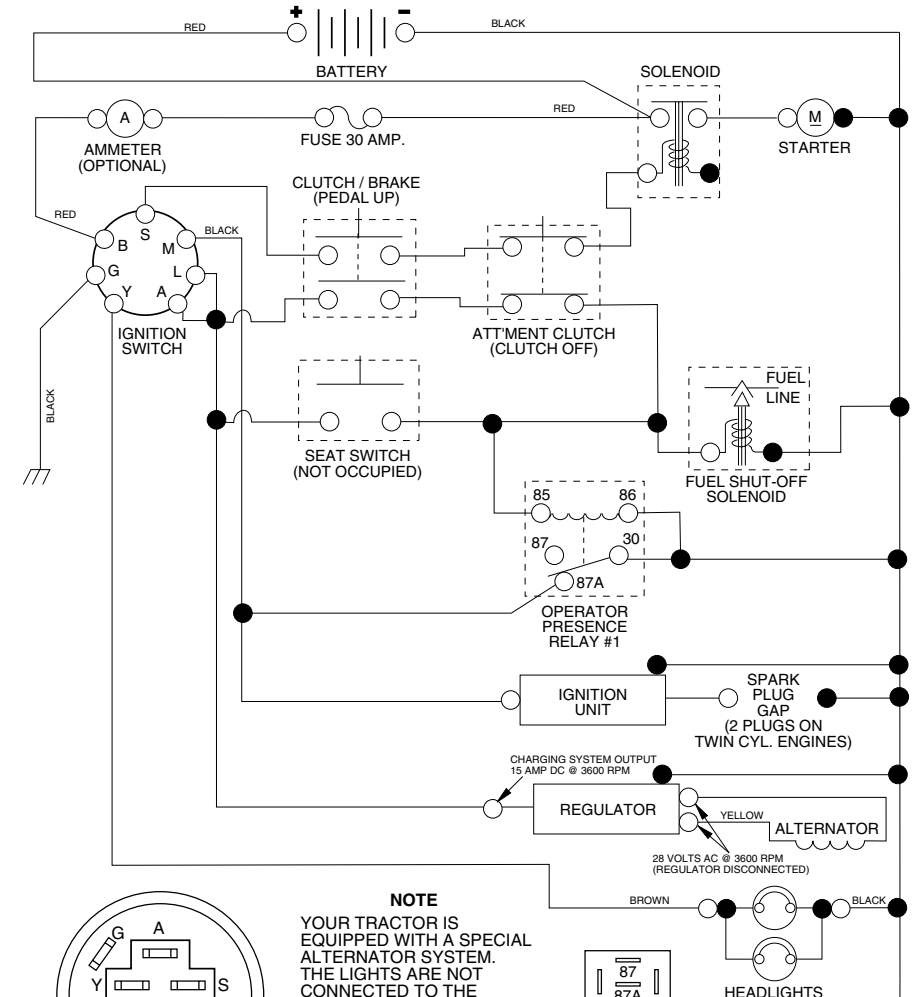


POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

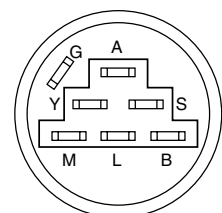
NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2103

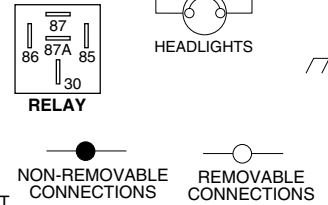


NOTE
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POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

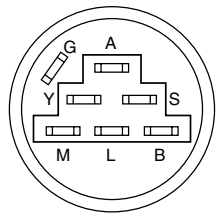
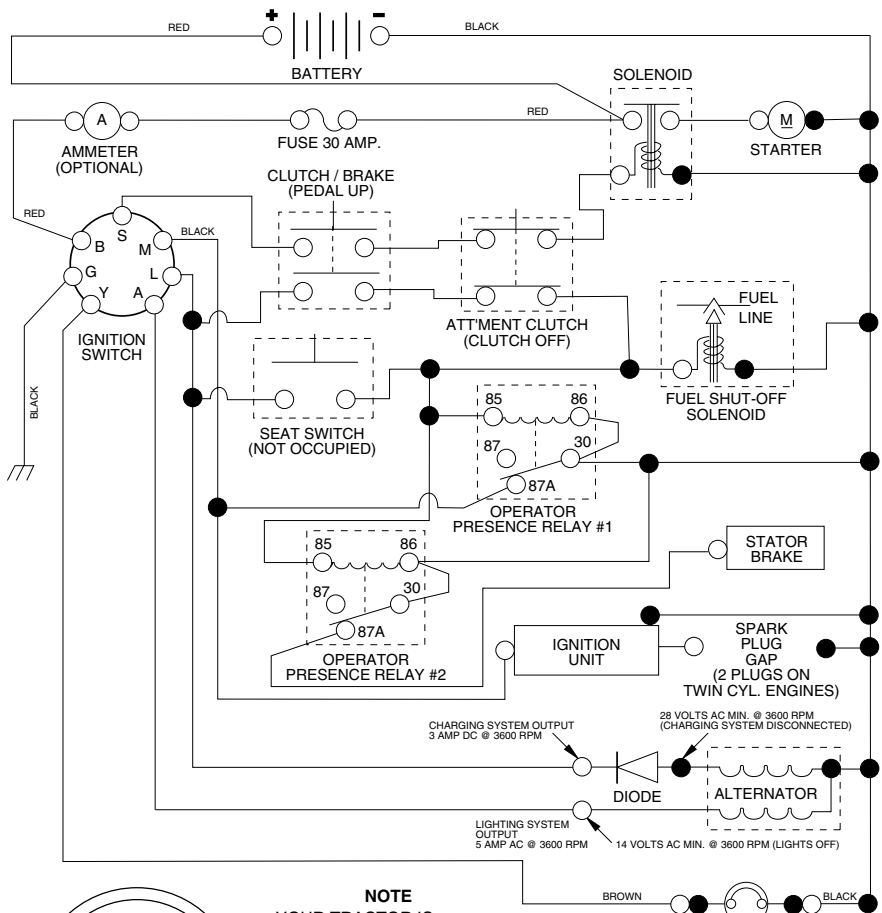
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2104



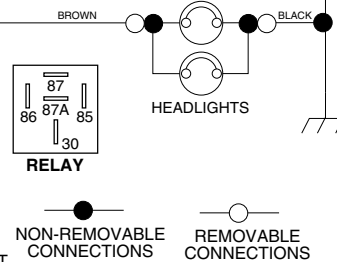
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

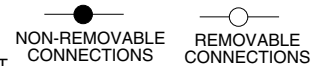
NOTE
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WIRING INSULATED CLIPS

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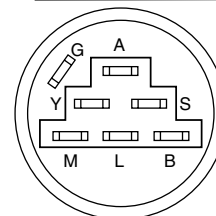
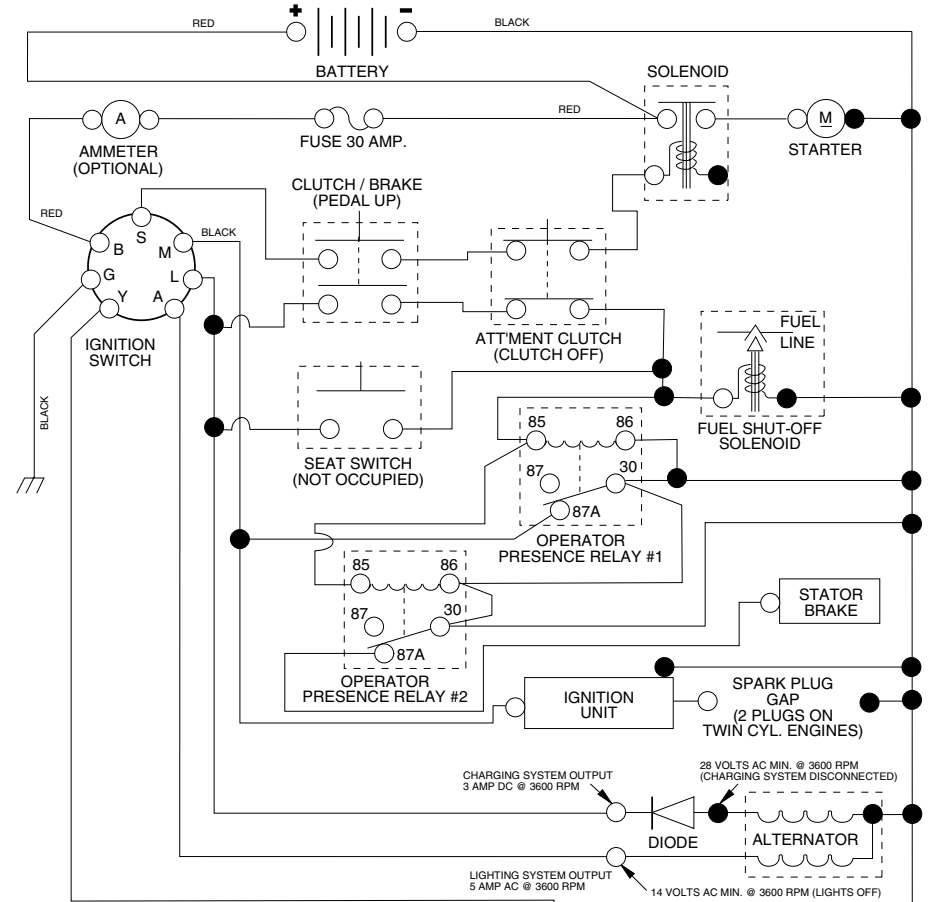


RELAY



SCHEMATIC NUMBER

2105



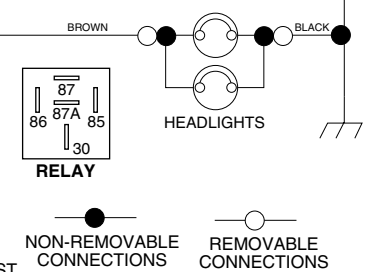
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

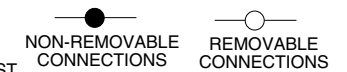
NOTE
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WIRING INSULATED CLIPS

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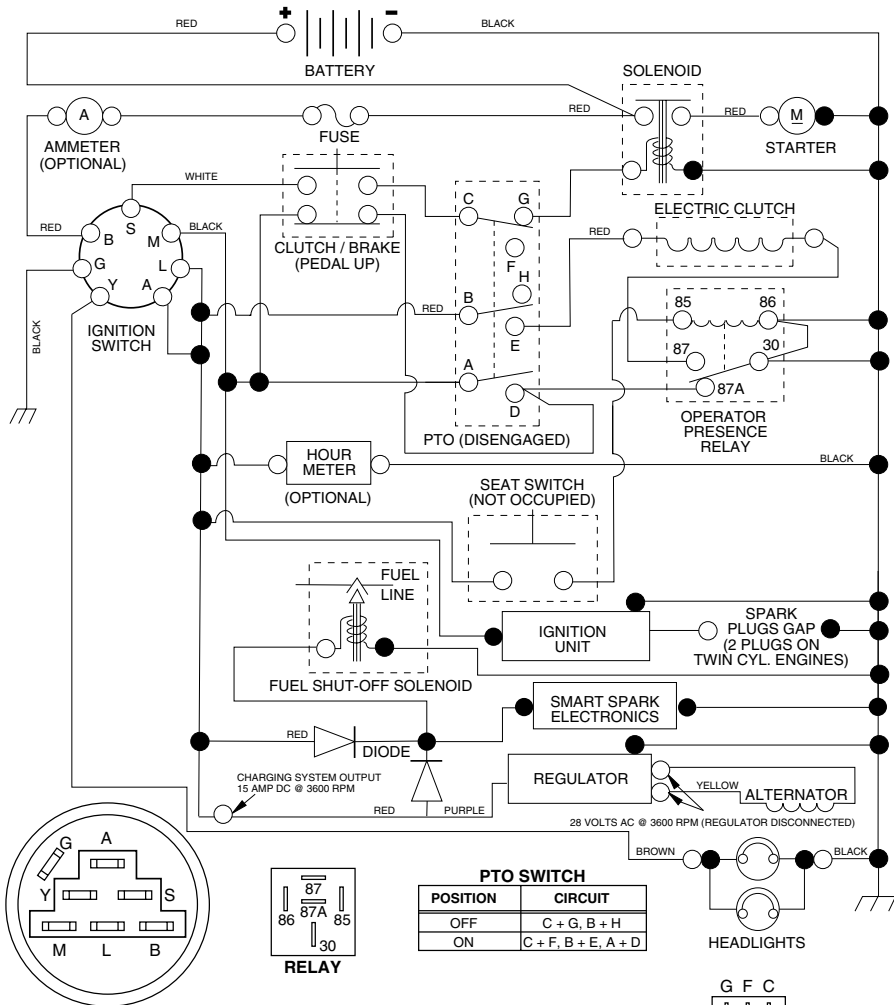


RELAY



SCHEMATIC NUMBER

2111



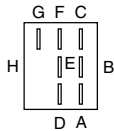
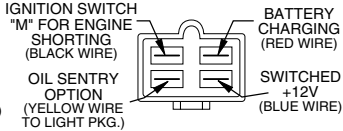
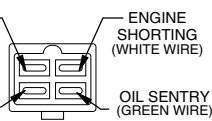
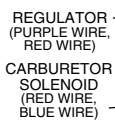
PTO SWITCH

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

IGNITION SWITCH

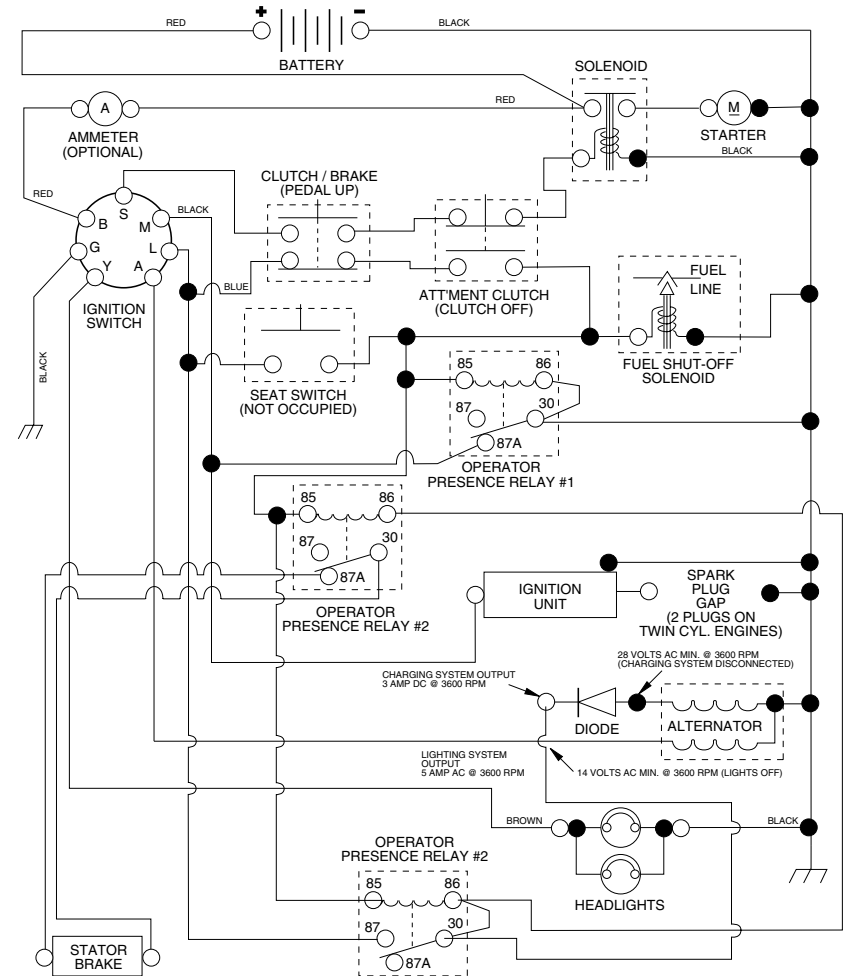
POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

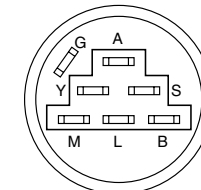


SCHEMATIC NUMBER

2127



NOTE
 YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



IGNITION SWITCH

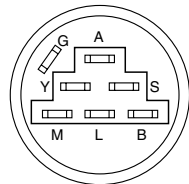
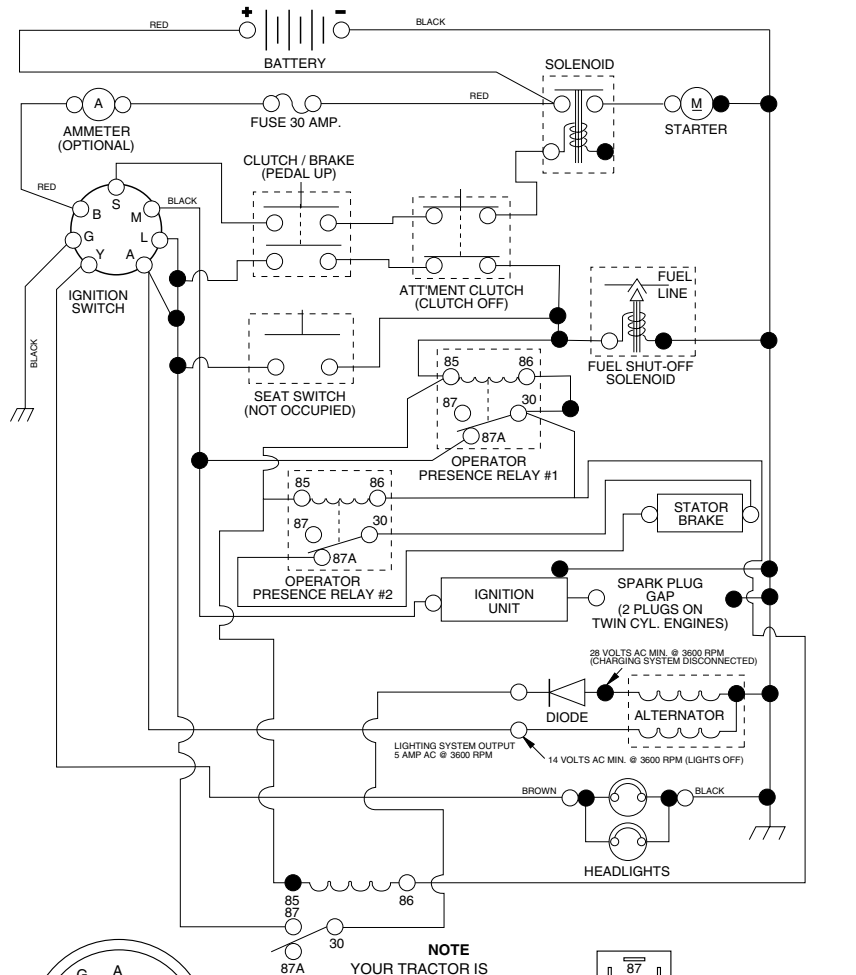
POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



SCHEMATIC NUMBER

2128



IGNITION SWITCH

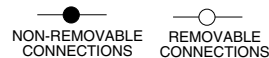
POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

NOTE
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WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



RELAY

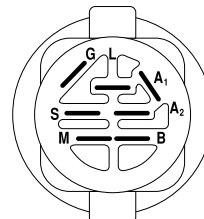
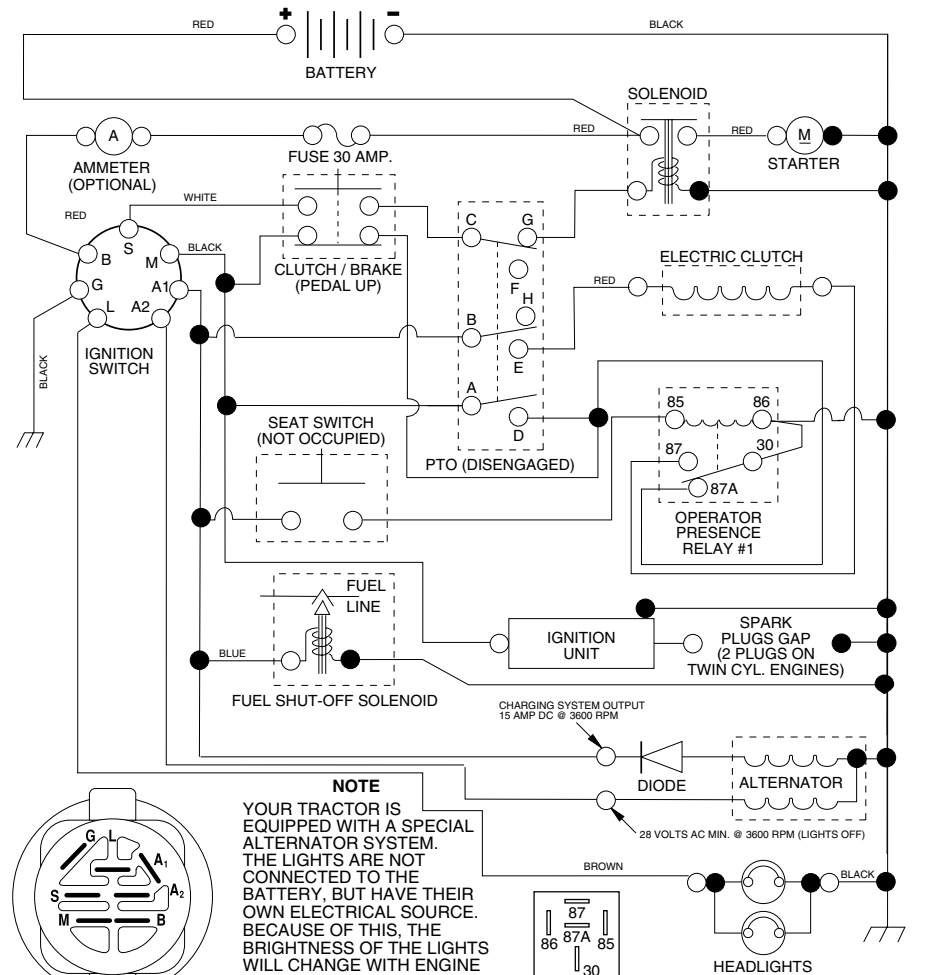


NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2144

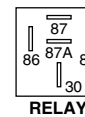


IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
RUN/LIGHT	B + A1	A + Y
RUN	B + A1	NONE
START	B + S + A1	NONE

NOTE
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

WIRING INSULATED CLIPS
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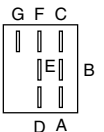
RELAY

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

PTO SWITCH

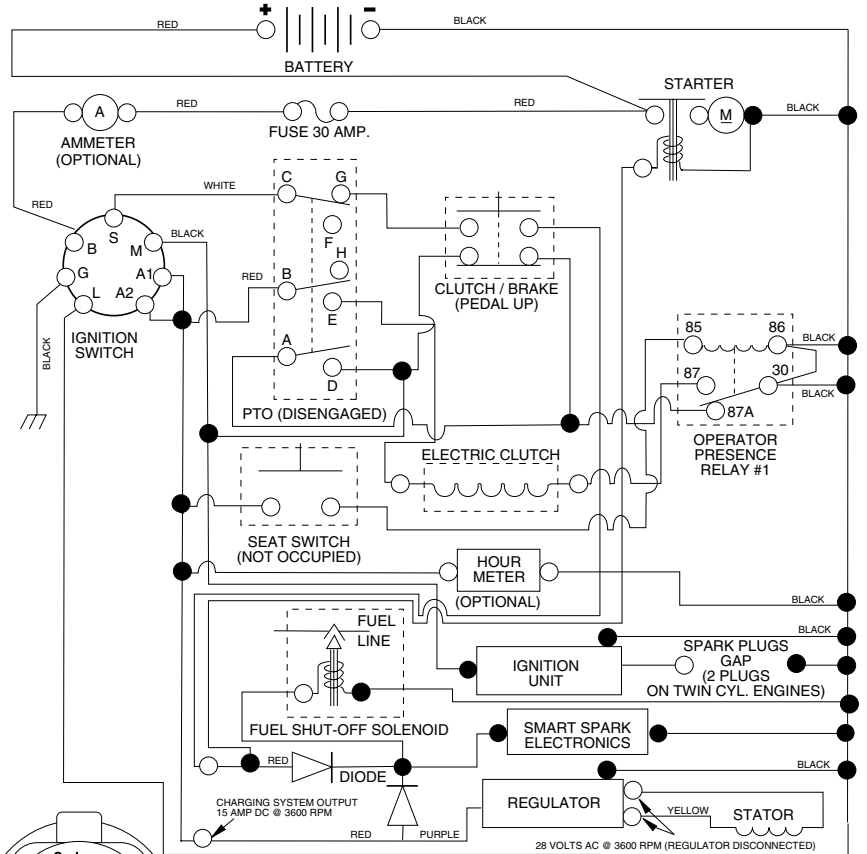
NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS



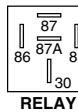
SCHEMATIC NUMBER

2151



NOTE

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



RELAY

PTO SWITCH

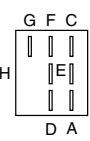
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



REMOVABLE CONNECTIONS



NON-REMOVABLE CONNECTIONS

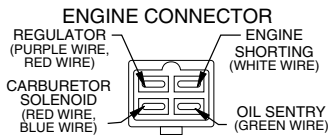


PTO SWITCH

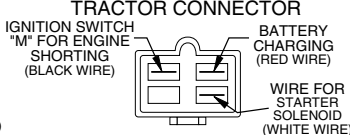
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
ON + LIGHTS	B + A1	L + A2
ON	B + A1	NONE
START	B + S + A1	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

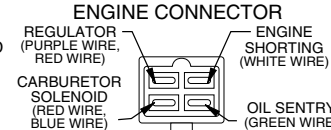


ENGINE CONNECTOR

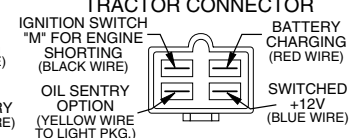


TRACTOR CONNECTOR

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



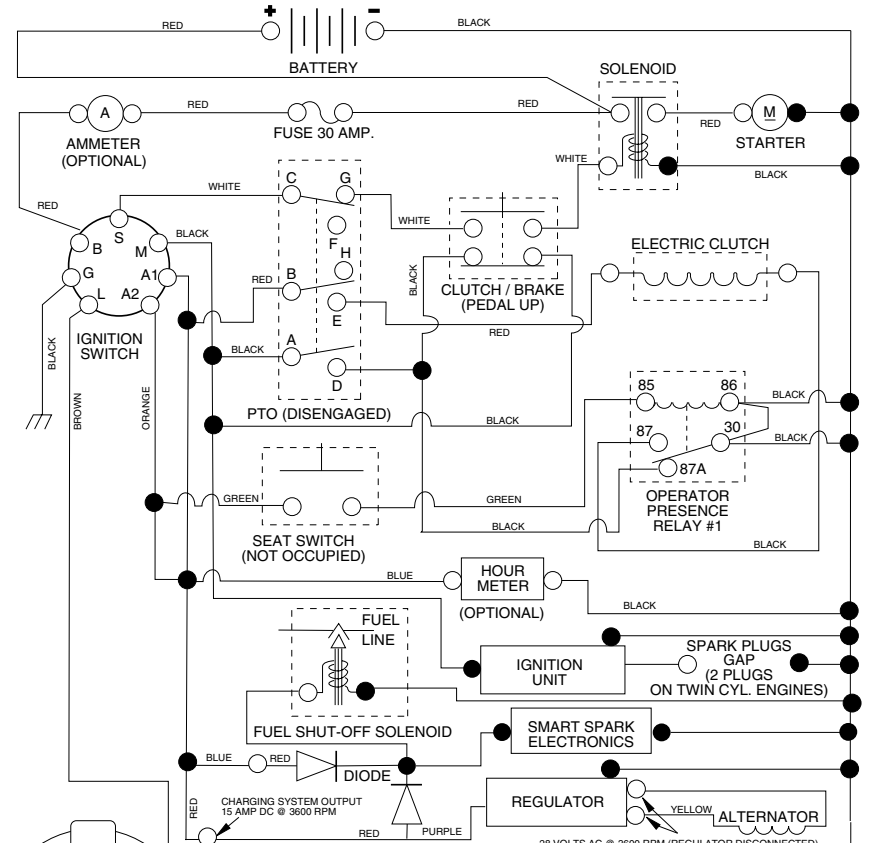
ENGINE CONNECTOR



TRACTOR CONNECTOR

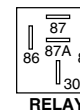
SCHEMATIC NUMBER

2152



NOTE

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



RELAY

PTO SWITCH

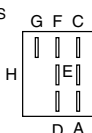
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



REMOVABLE CONNECTIONS



NON-REMOVABLE CONNECTIONS



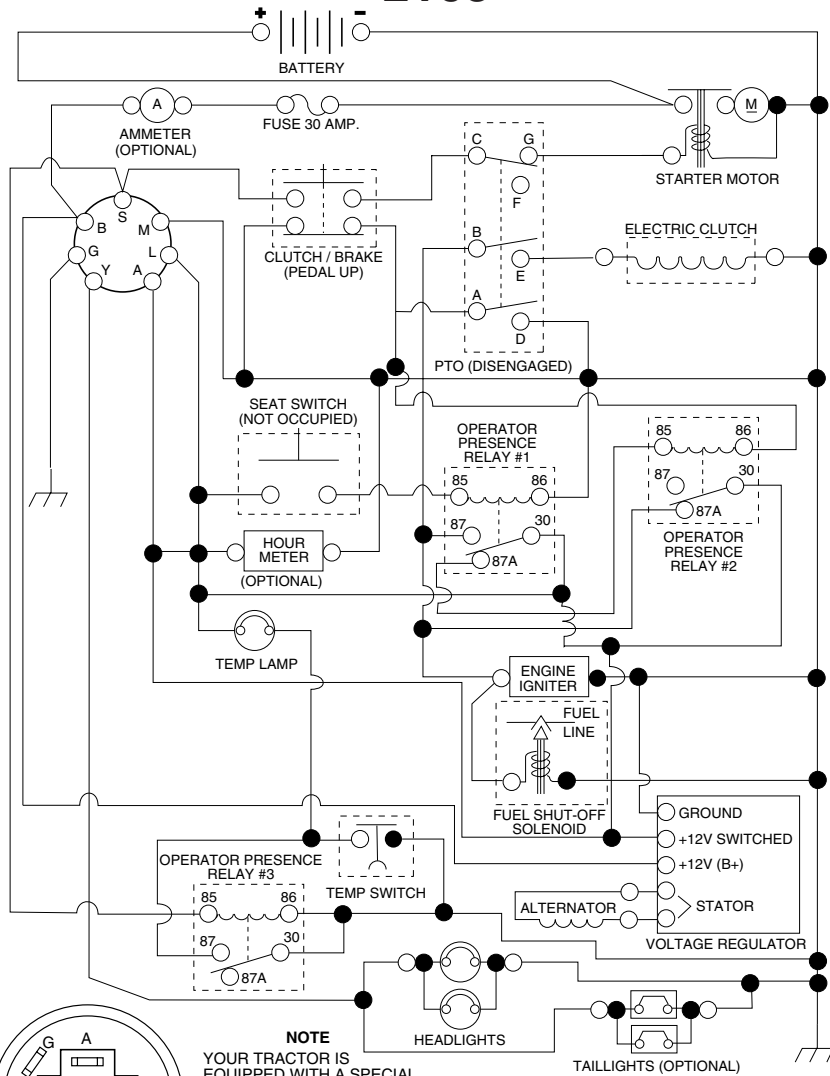
PTO SWITCH

IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
ON + LIGHTS	B + A1	L + A2
ON	B + A1	NONE
START	B + S + A1	NONE

SCHEMATIC NUMBER

2165

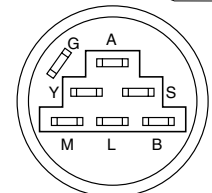


NOTE

YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

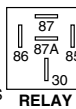
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



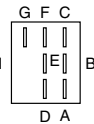
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE



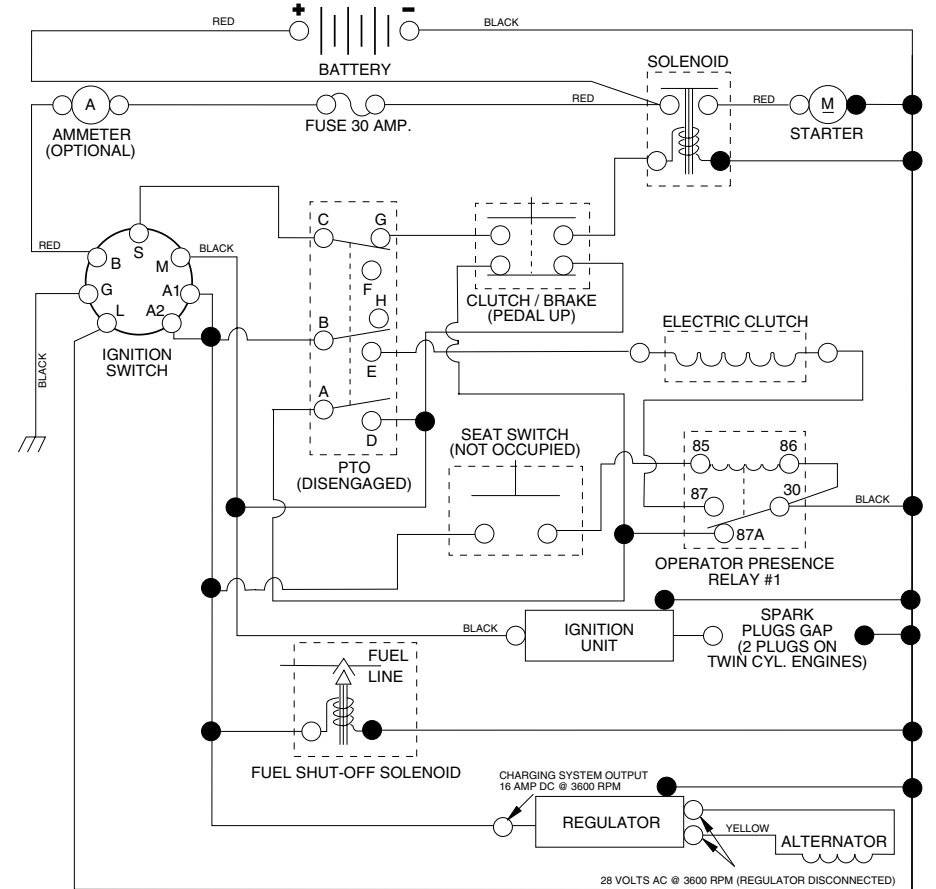
PTO SWITCH

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



SCHEMATIC NUMBER

2170



NOTE

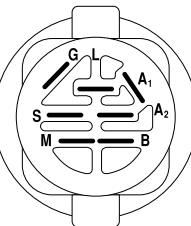
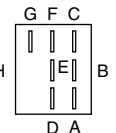
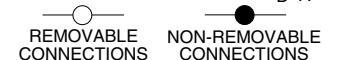
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.



RELAY

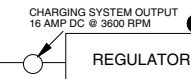
PTO SWITCH

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



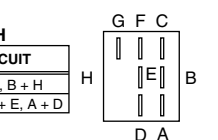
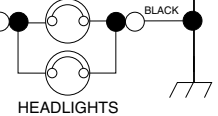
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A + Y
RUN	B+A1	NONE
START	B + S + A1	NONE



REGULATOR

28 VOLTS AC @ 3600 RPM (REGULATOR DISCONNECTED)

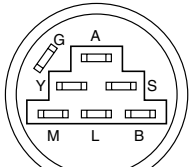
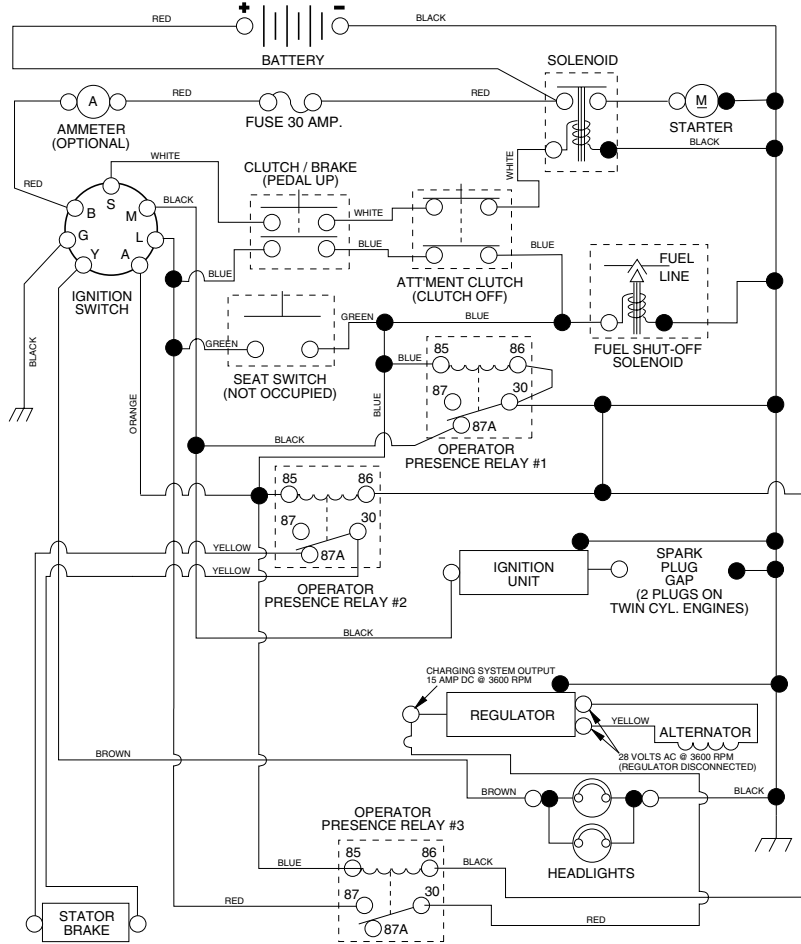


WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2178



WIRING INSULATED CLIPS

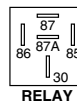
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



NON-REMOVABLE CONNECTIONS



REMOVABLE CONNECTIONS



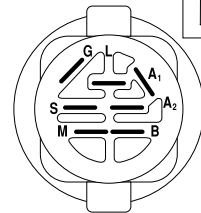
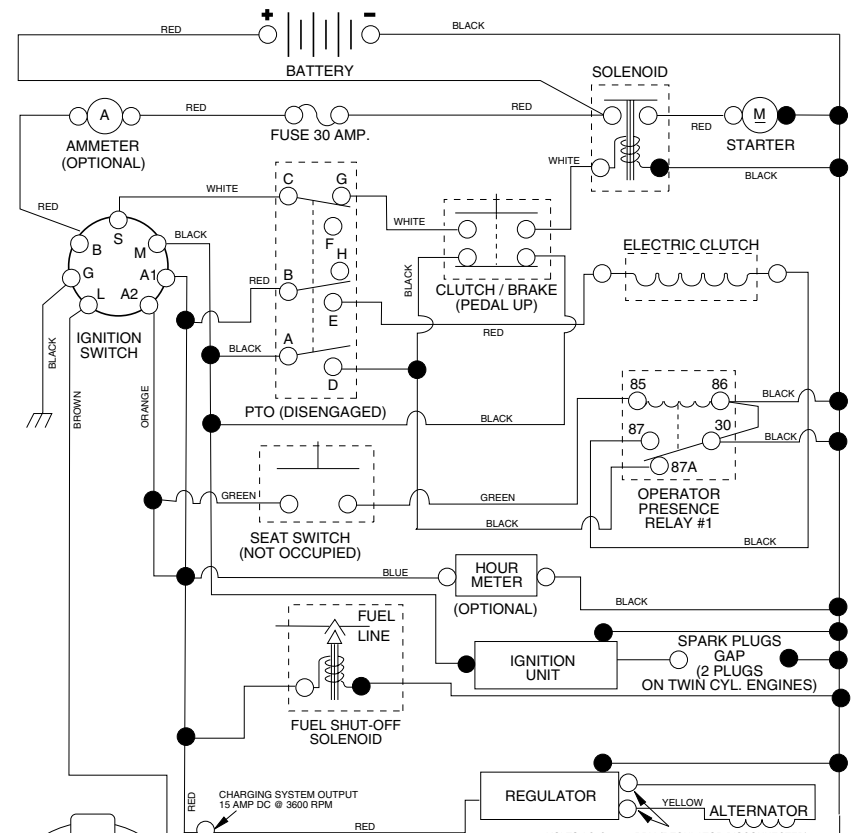
RELAY

IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

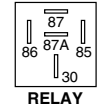
SCHEMATIC NUMBER

2184



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
ON + LIGHTS	B + A1	L + A2
ON	B + A1	NONE
START	B + S + A1	NONE



RELAY

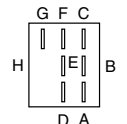
PTO SWITCH	
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



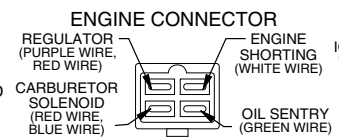
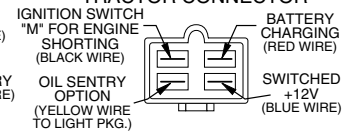
REMOVABLE CONNECTIONS



NON-REMOVABLE CONNECTIONS



TRACTOR CONNECTOR

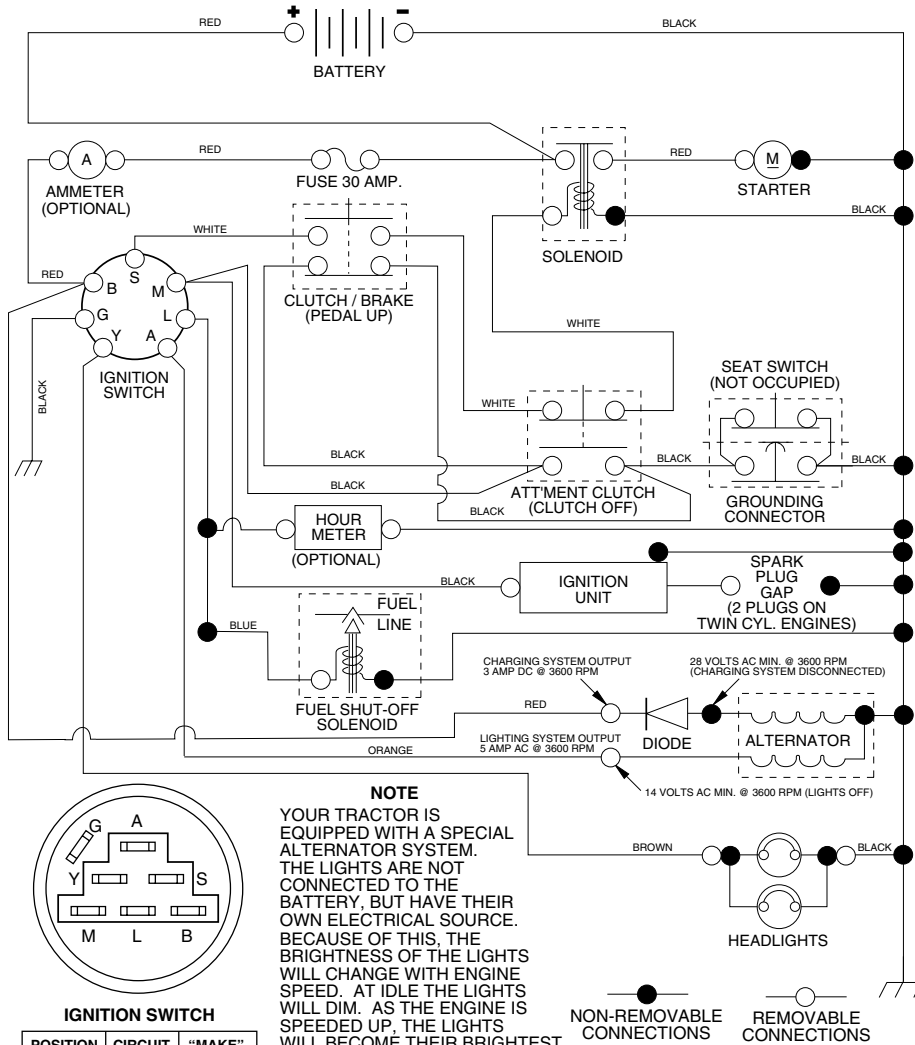


ENGINE CONNECTOR

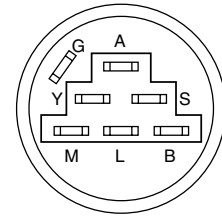
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2195



NOTE
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IGNITION SWITCH

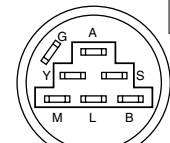
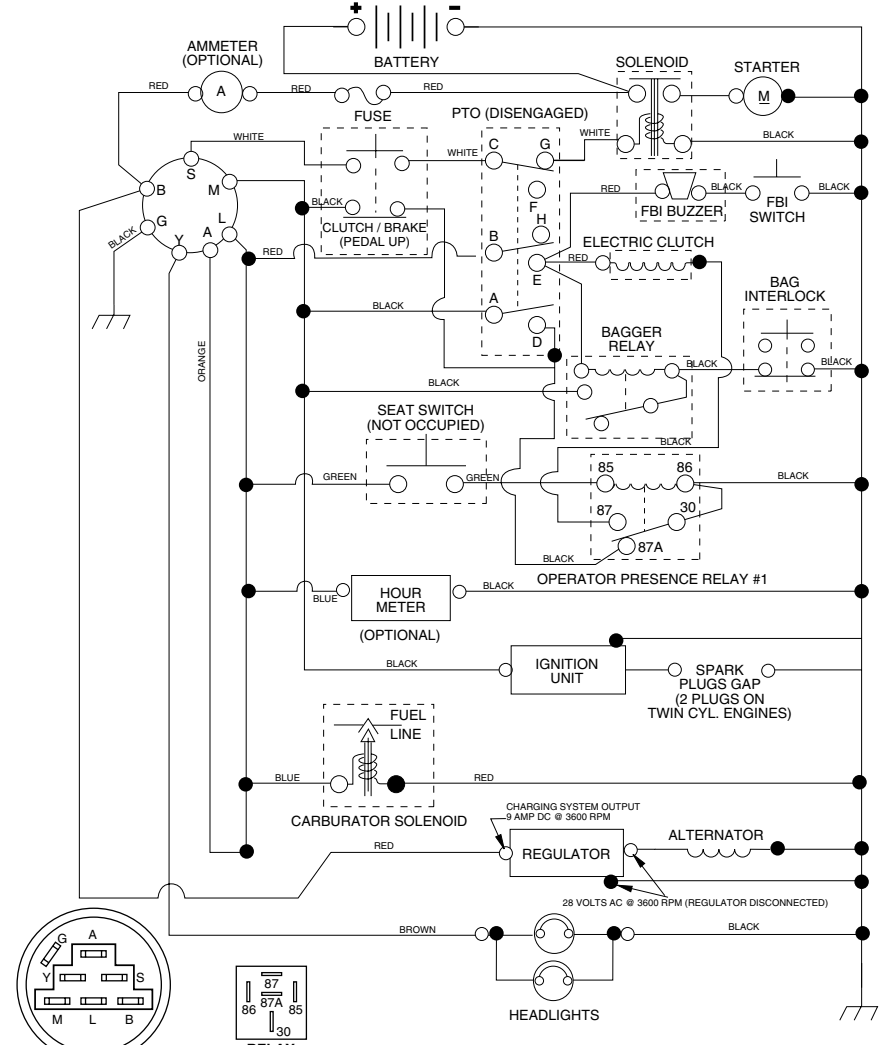
POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



SCHEMATIC NUMBER

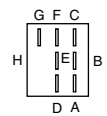
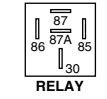
2224



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



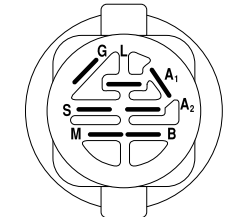
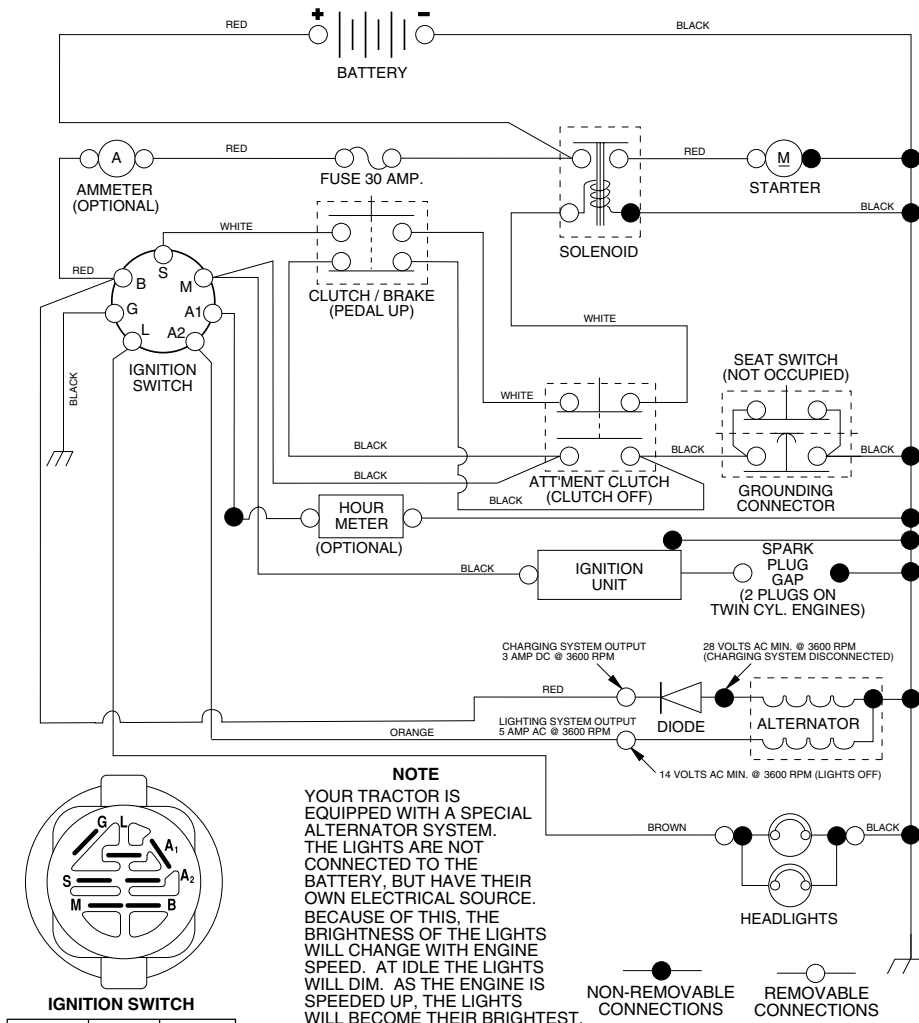
PTO SWITCH

POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A, D



SCHEMATIC NUMBER

2225



IGNITION SWITCH

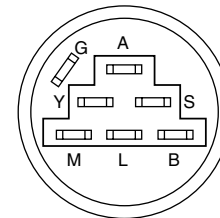
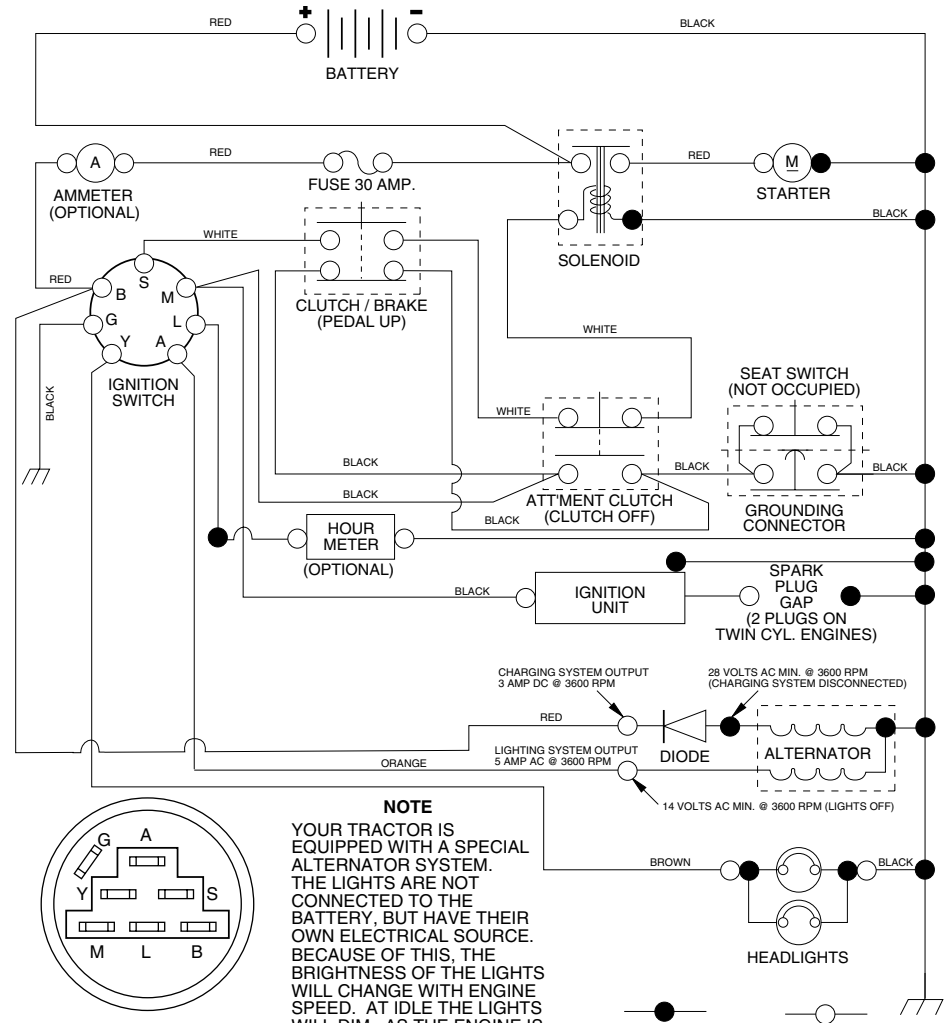
POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B+S+A1	NONE

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2226



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G+M+L	NONE
RUN/LIGHT	B+L	A+Y
RUN	B+L	NONE
START	B+L+S	NONE

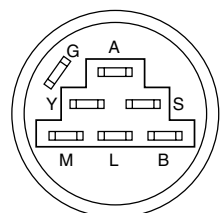
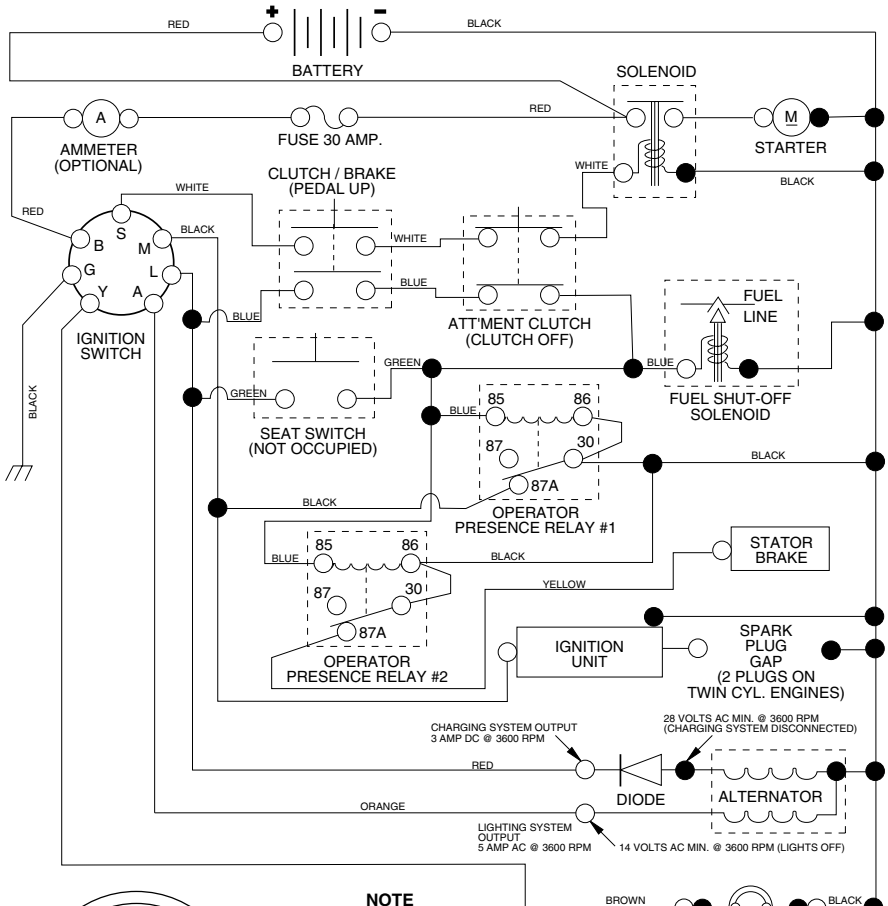
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

WIRING INSULATED CLIPS

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SCHEMATIC NUMBER

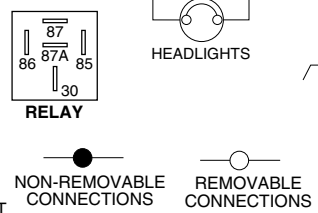
2236



POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

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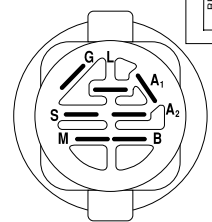
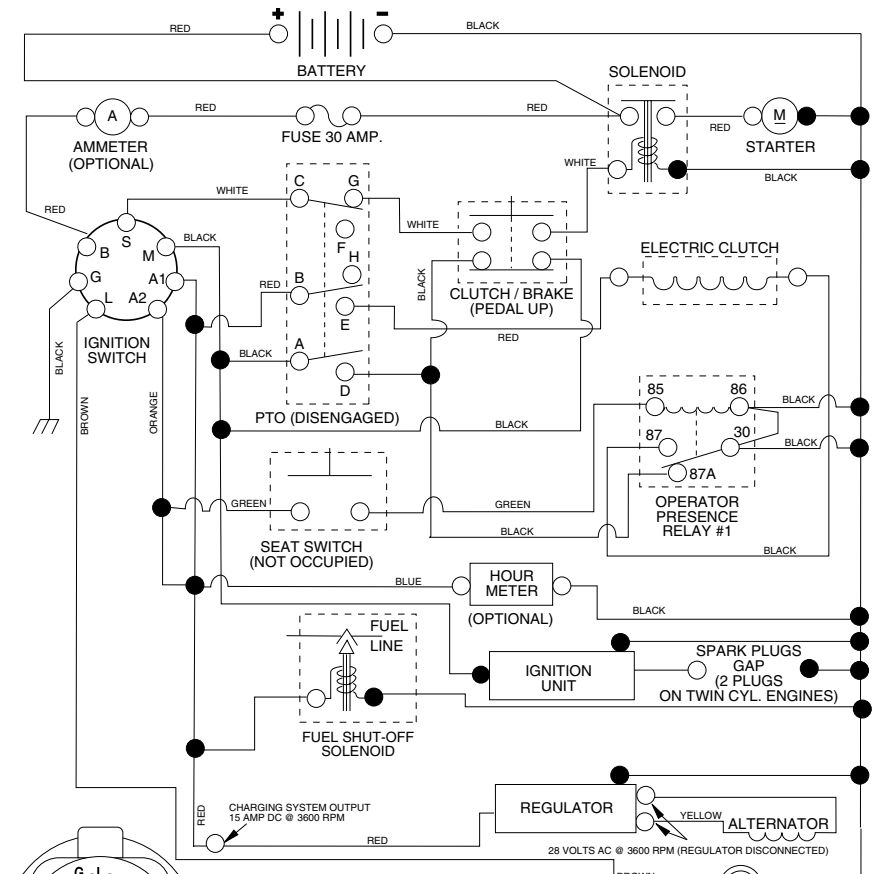
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



RELAY
NON-REMOVABLE CONNECTIONS
REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

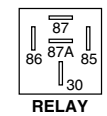
2238



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
ON + LIGHTS	B + A1	L + A2
ON	B + A1	NONE
START	B + S + A1	NONE

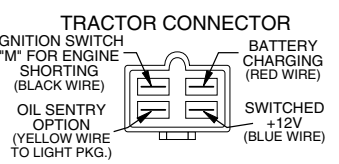
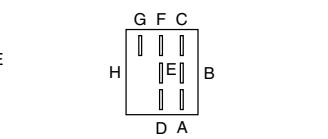
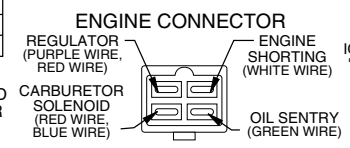
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



PTO SWITCH

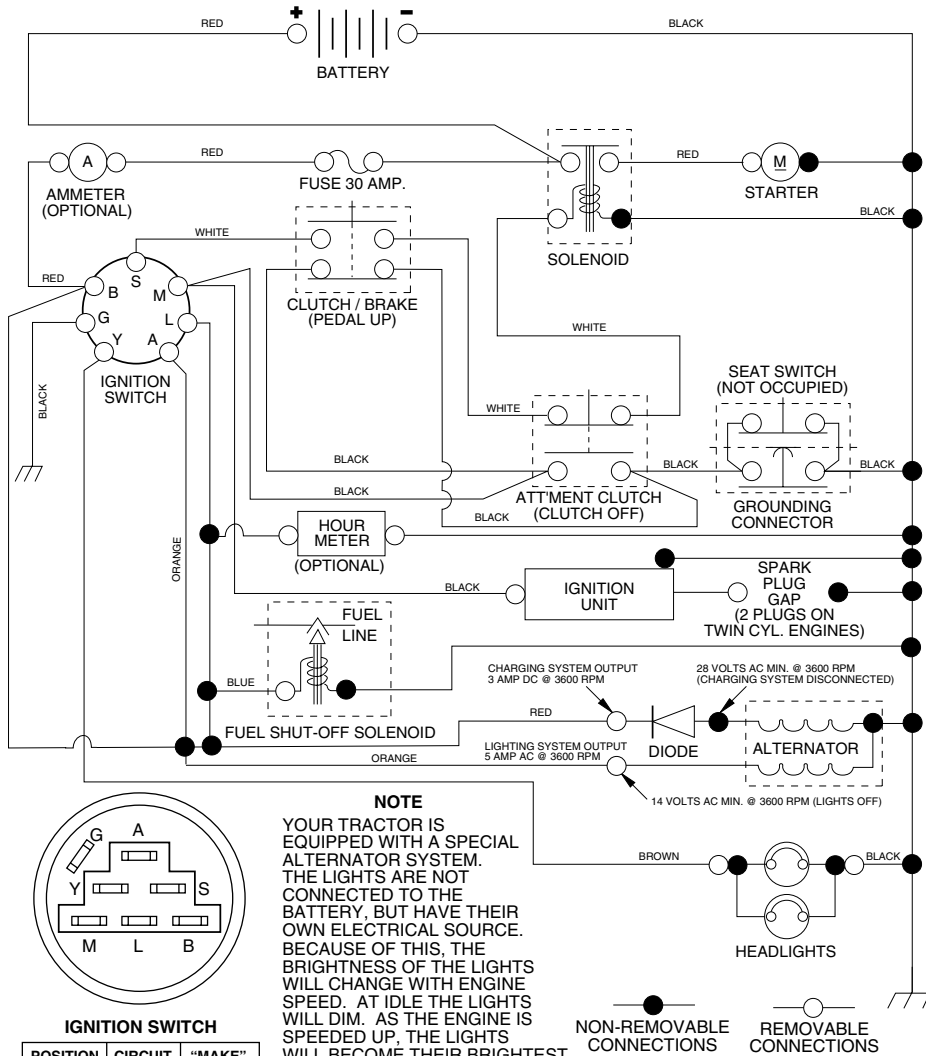
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

RELAY
REMOVABLE CONNECTIONS
NON-REMOVABLE CONNECTIONS



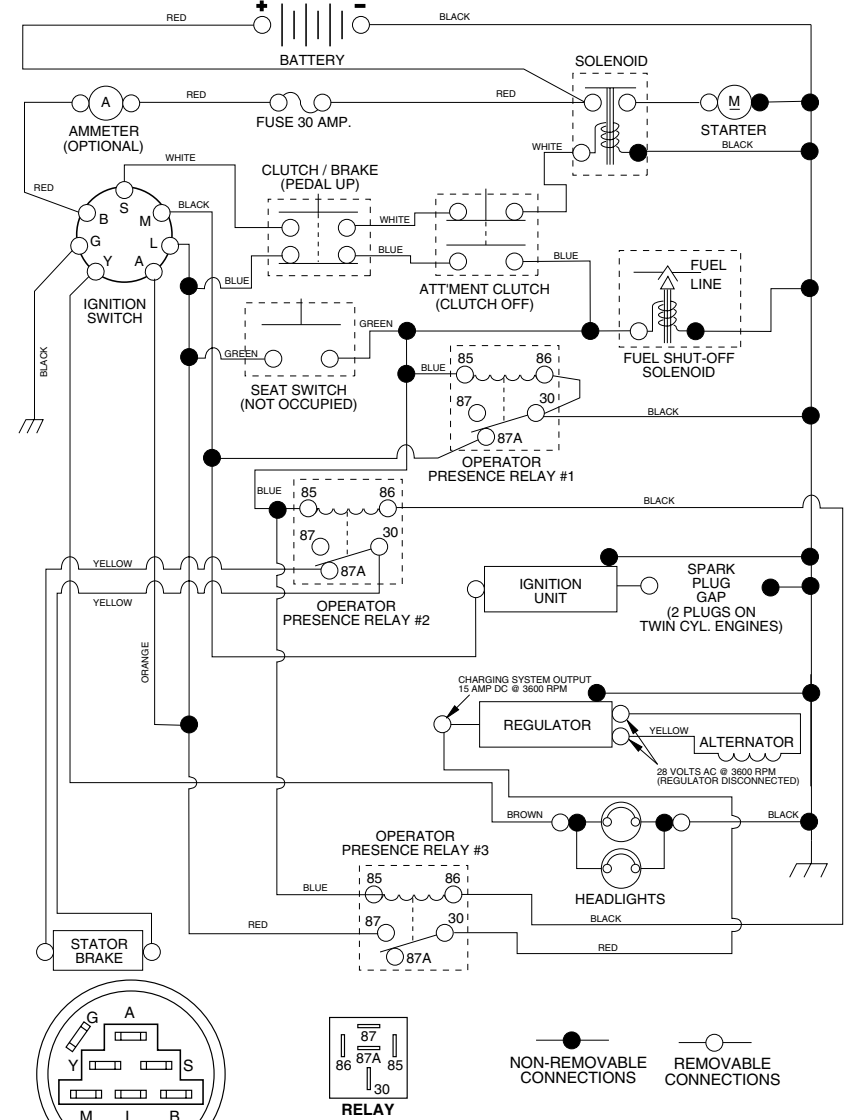
SCHEMATIC NUMBER

2241



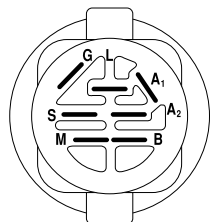
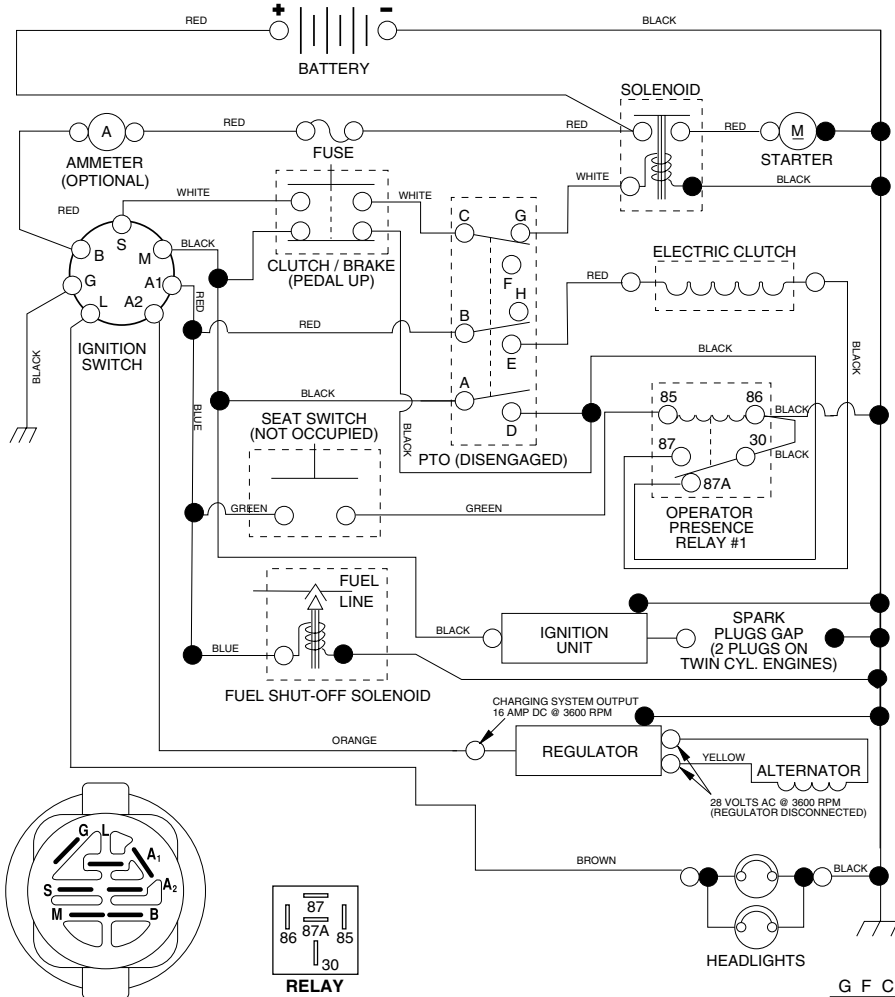
SCHEMATIC NUMBER

2243



SCHEMATIC NUMBER

2255



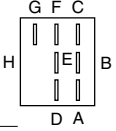
POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
RUN/LIGHT	B + A1	A2 + L
RUN	B + A1	NONE
START	B + S + A1	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



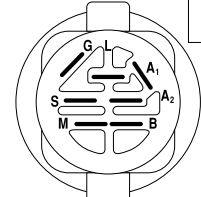
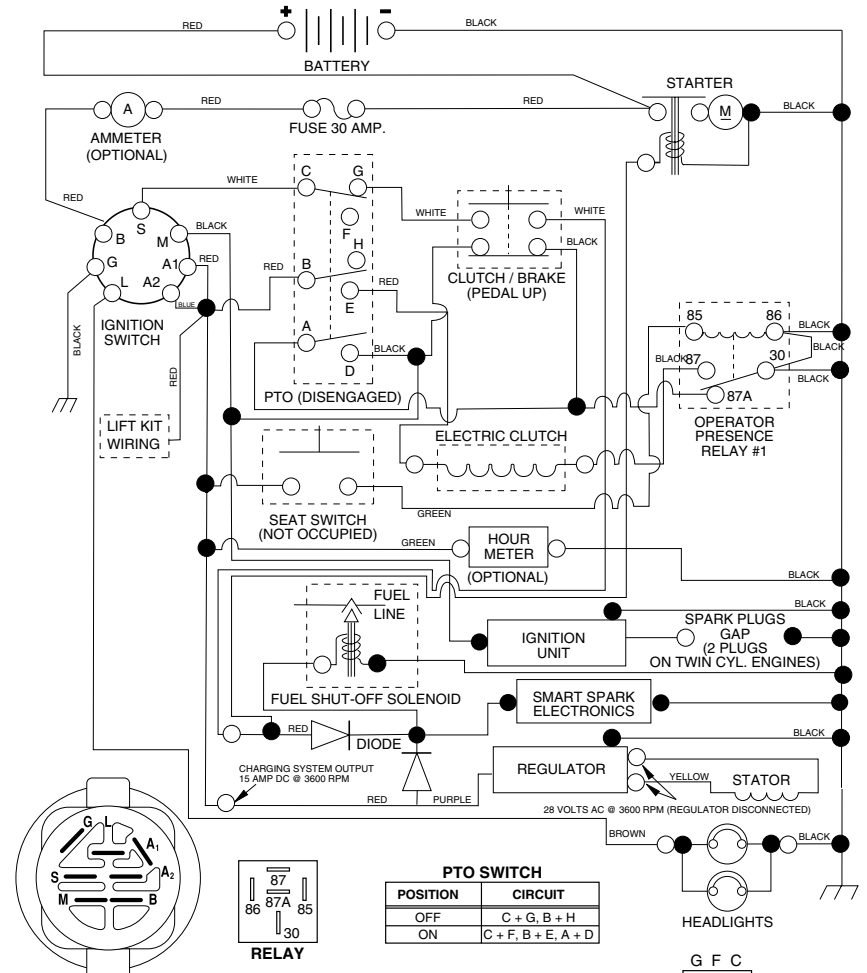
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS



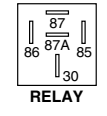
SCHEMATIC NUMBER

2256



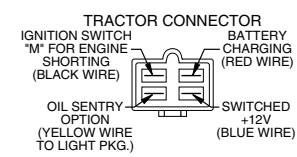
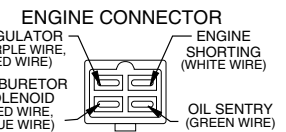
POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
ON + LIGHTS	B + A1	L + A2
ON	B + A1	NONE
START	B + S + A1	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



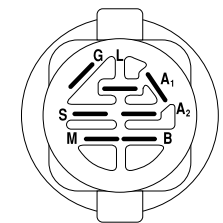
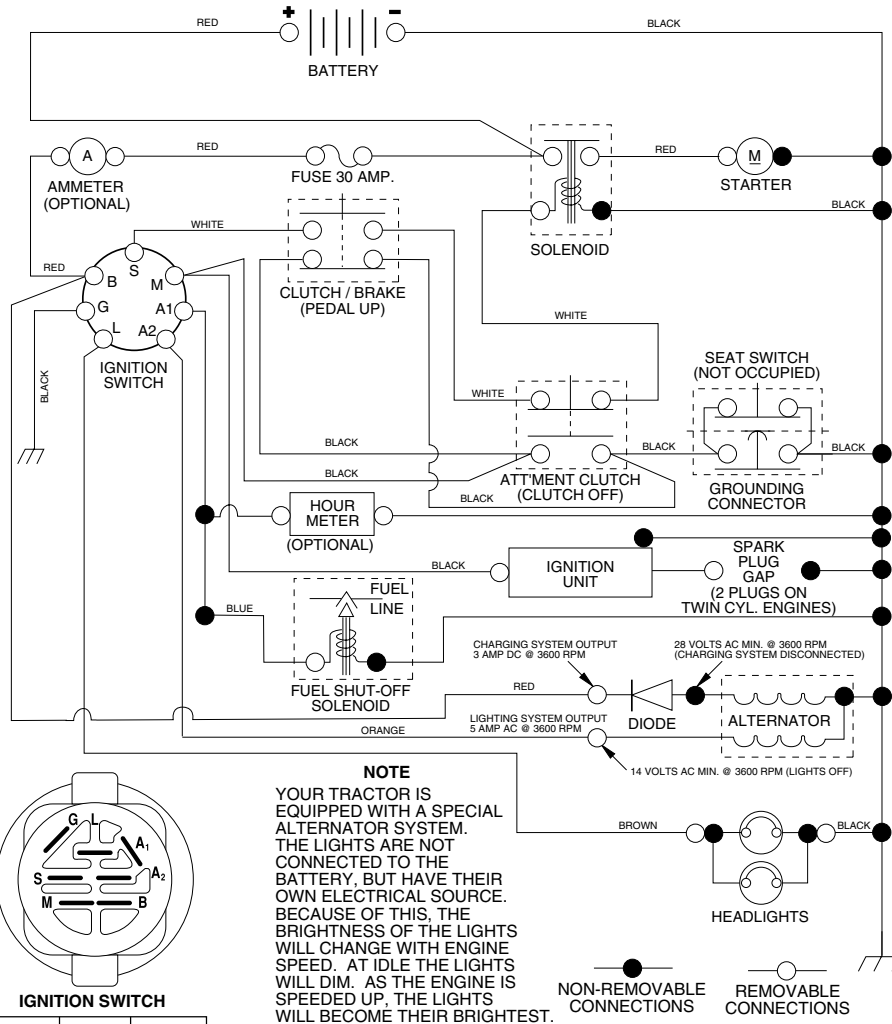
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

REMOVABLE CONNECTIONS NON-REMOVABLE CONNECTIONS



SCHEMATIC NUMBER

2257



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B+S+A1	NONE

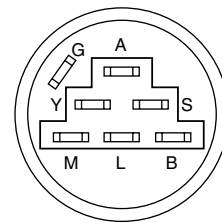
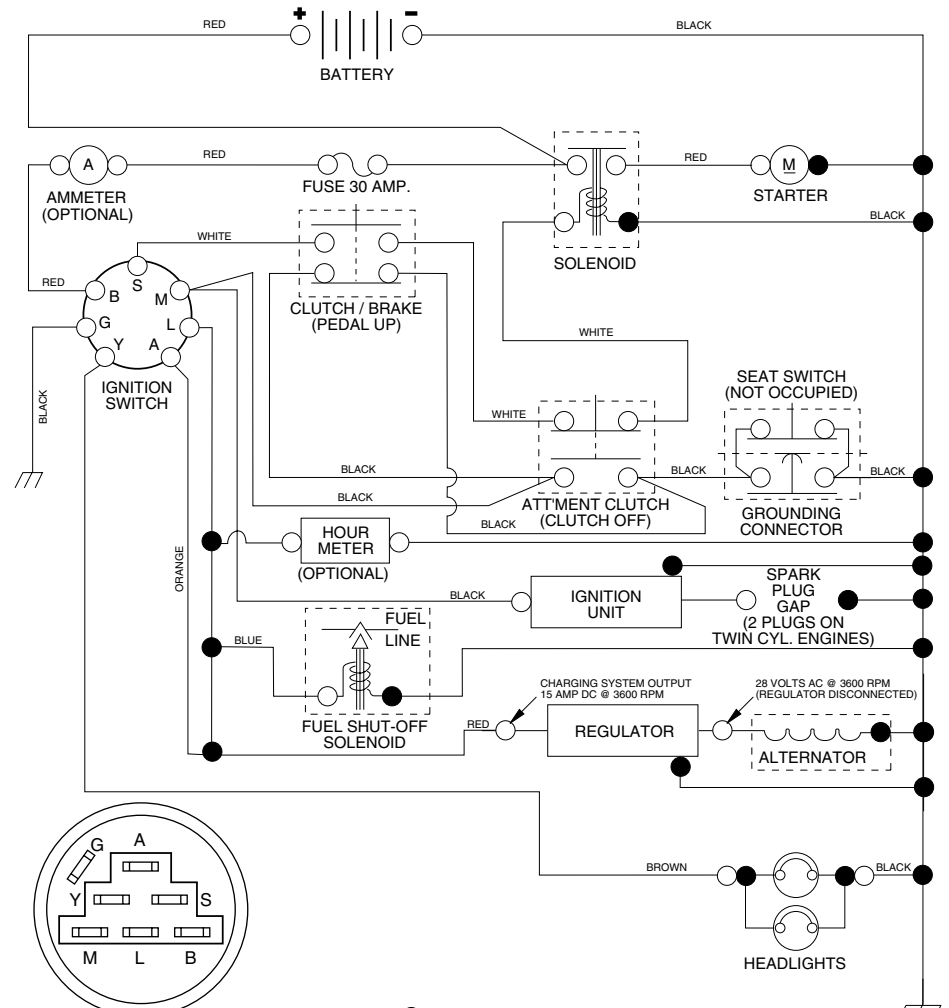
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2258



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G+M+L	NONE
RUN/LIGHT	B+L	A+Y
RUN	B+L	NONE
START	B+L+S	NONE

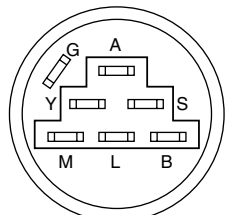
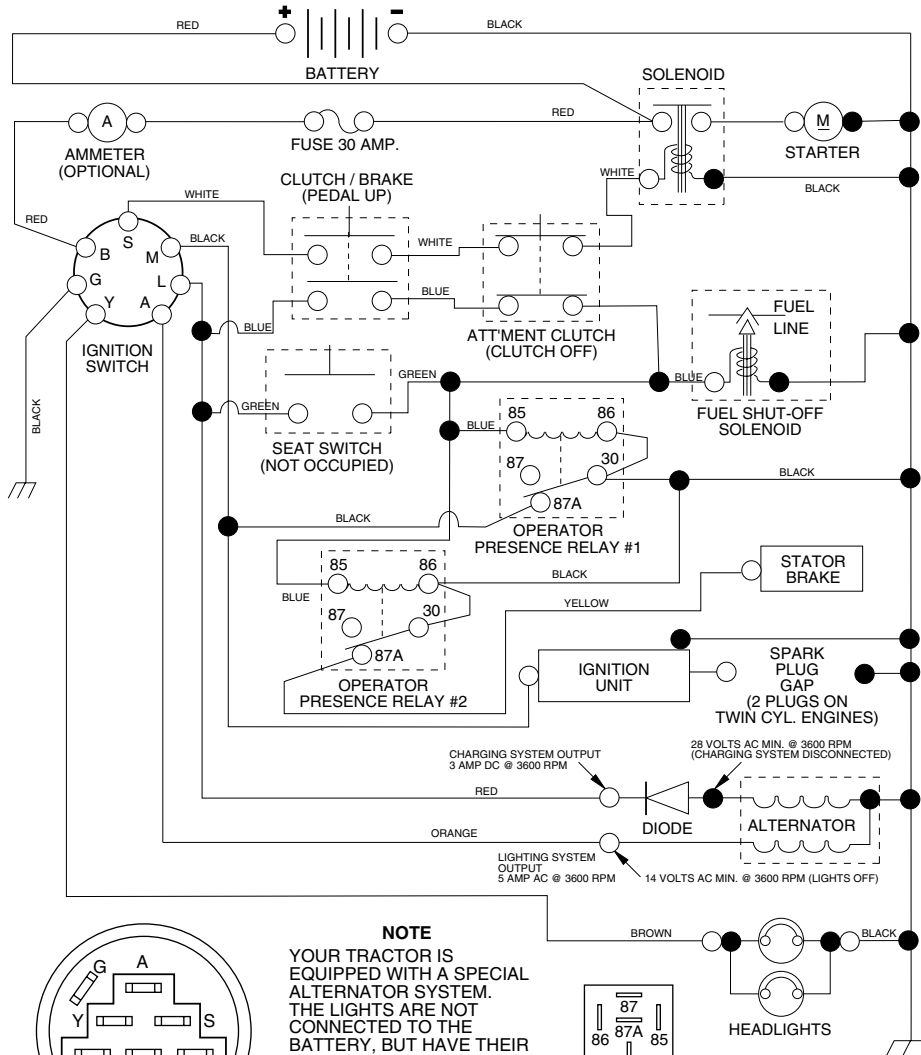
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2260



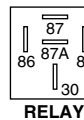
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

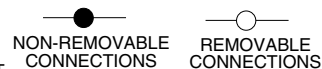
NOTE
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WIRING INSULATED CLIPS

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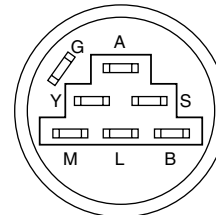
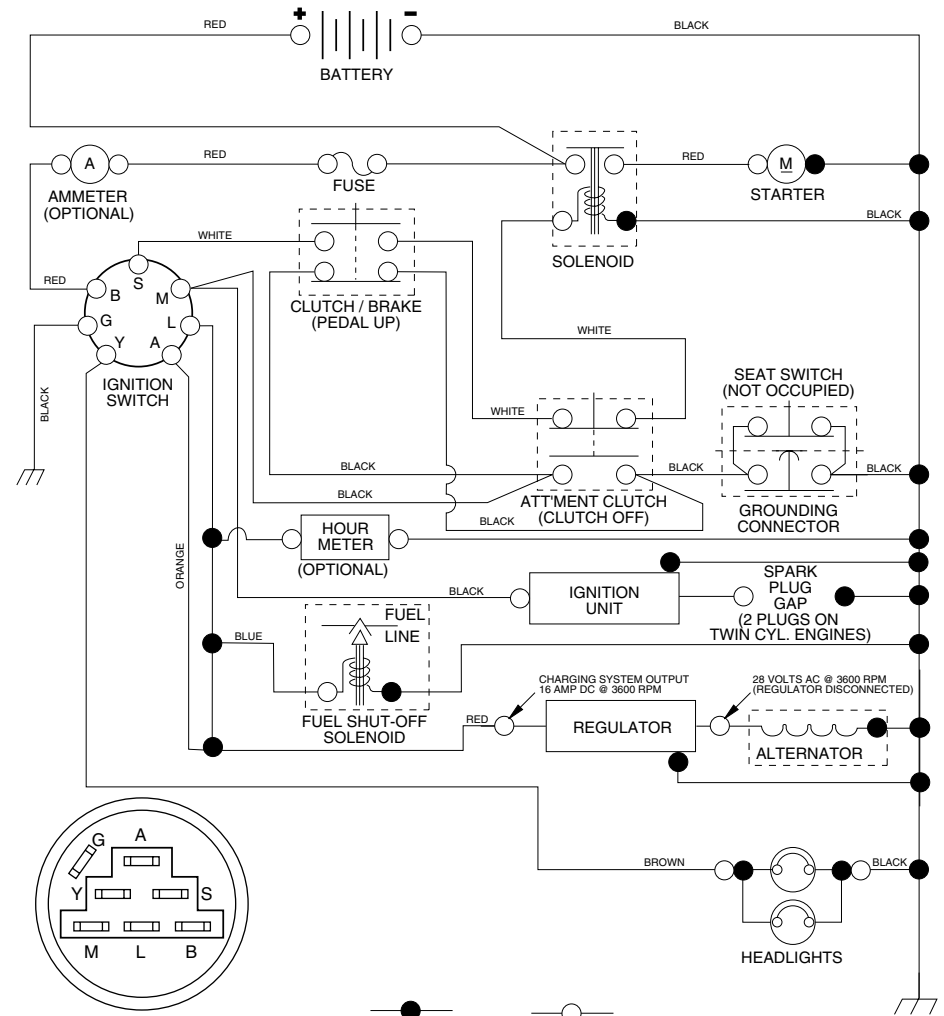


RELAY



SCHEMATIC NUMBER

2310



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

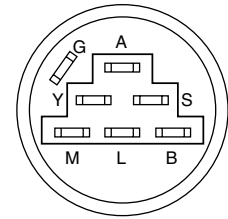
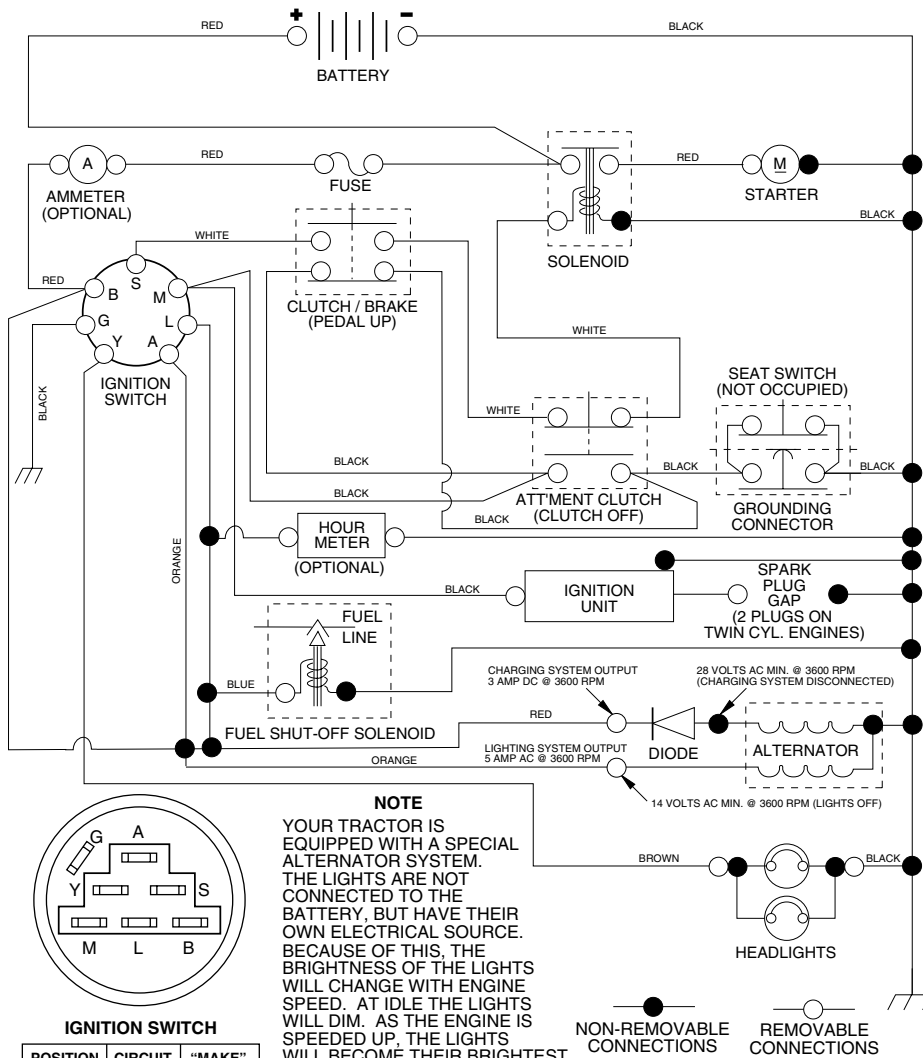


WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2324



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

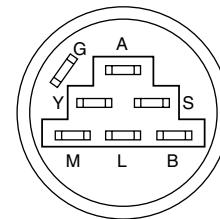
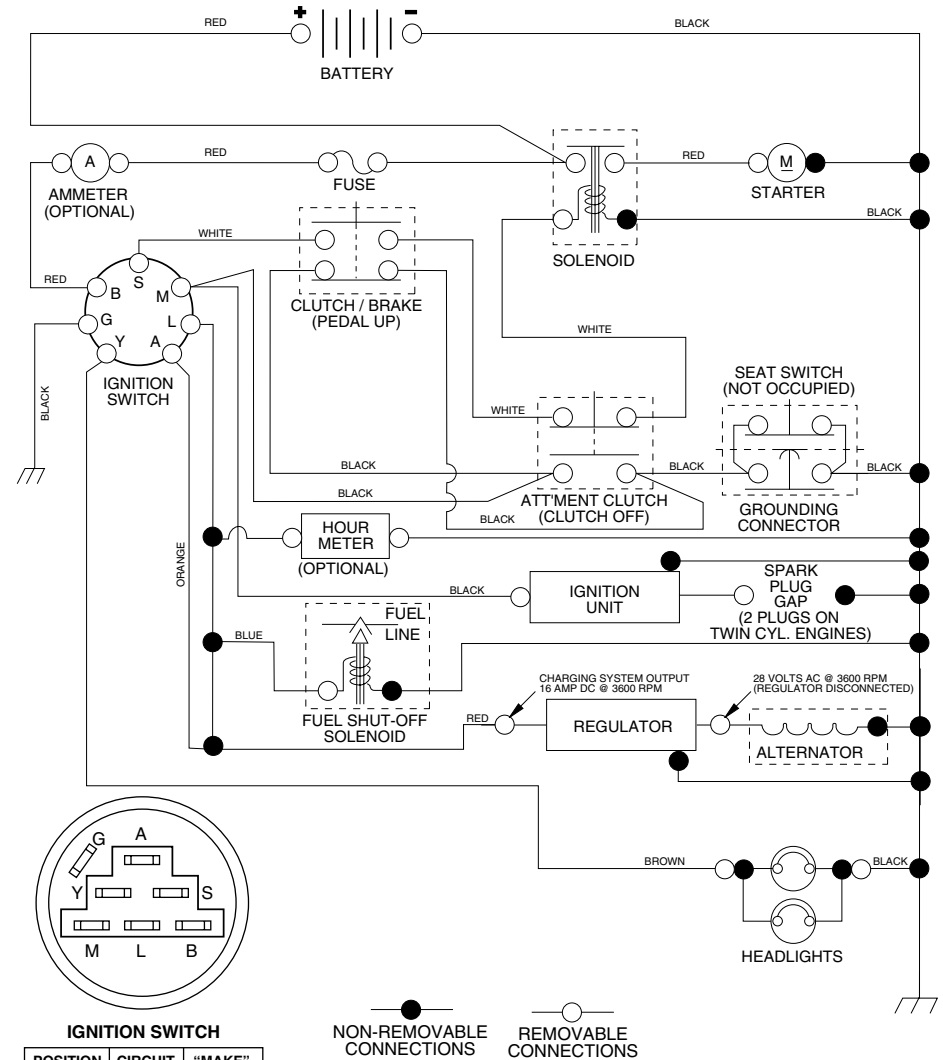
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2325



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	G + M + L	NONE
RUN/LIGHT	B + L	A + Y
RUN	B + L	NONE
START	B + L + S	NONE

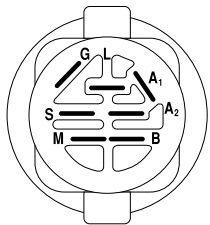
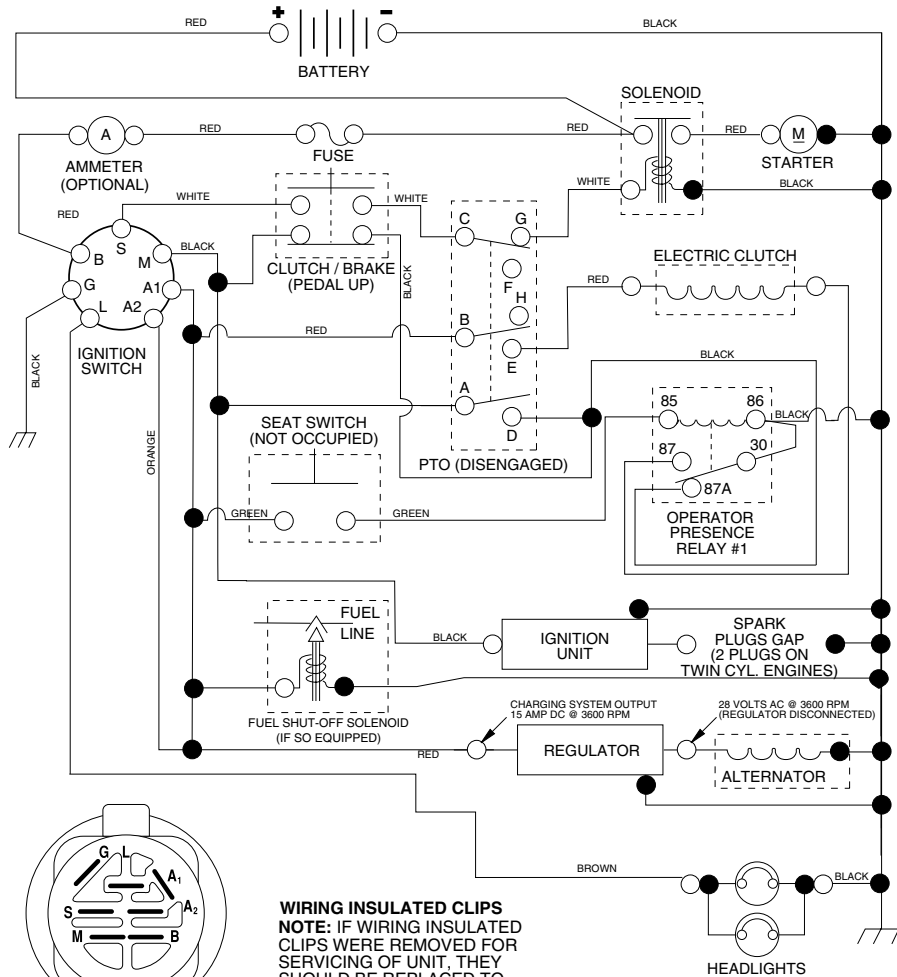
WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

NON-REMOVABLE CONNECTIONS REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2362



IGNITION SWITCH

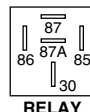
POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B + S + A1	NONE

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

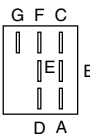
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS

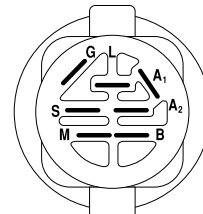
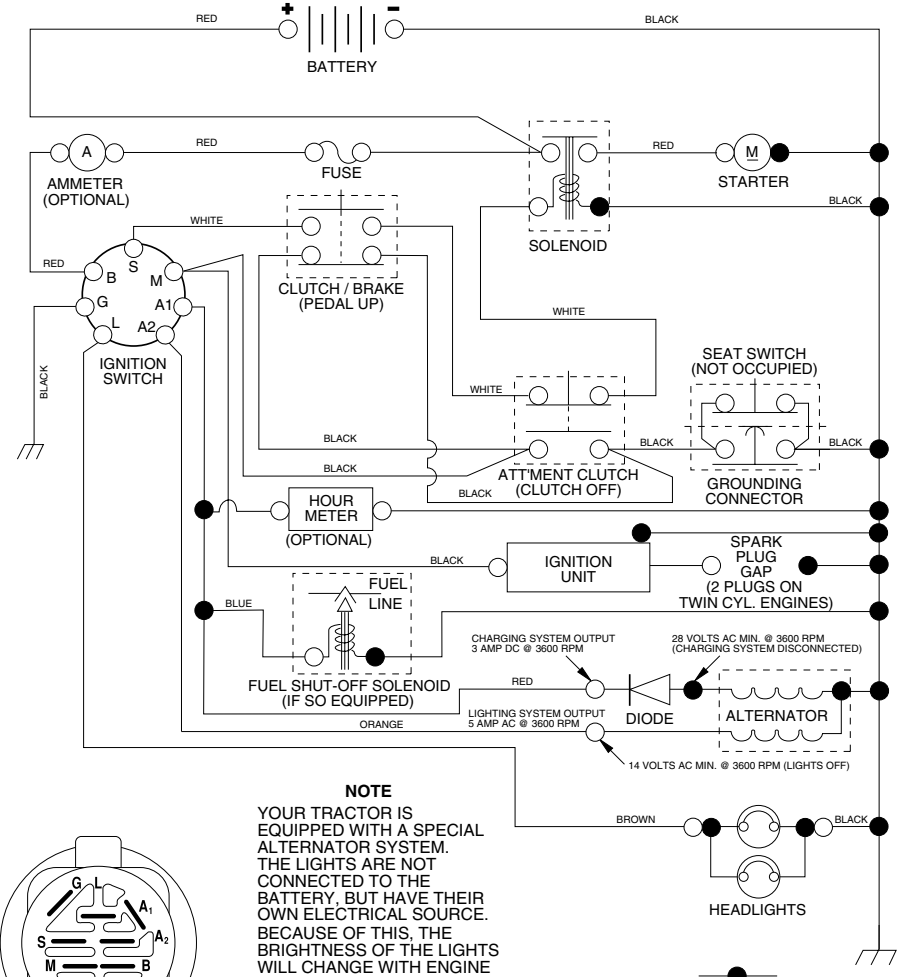


RELAY



SCHEMATIC NUMBER

2363



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B + S + A1	NONE

NOTE
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

WIRING INSULATED CLIPS

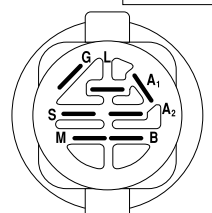
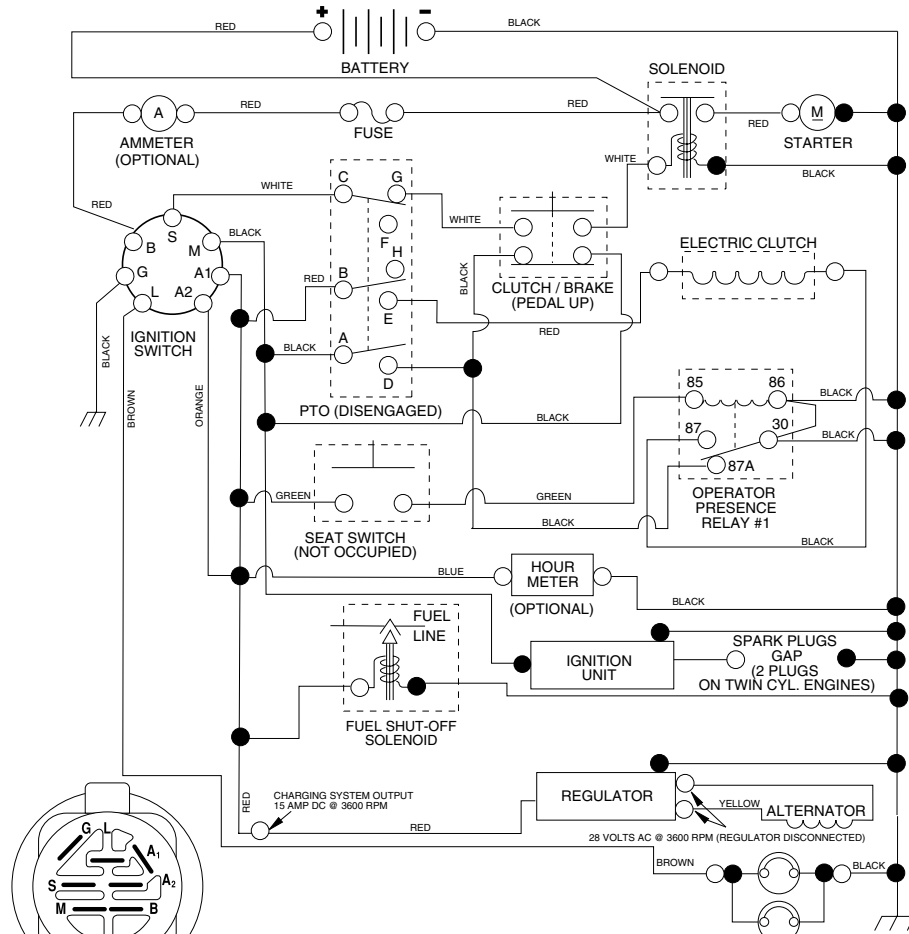
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS

SCHEMATIC NUMBER

2371



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M + G + A1	NONE
ON + LIGHTS	B + A1	L + A2
ON	B + A1	NONE
START	B + S + A1	NONE



RELAY

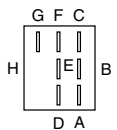
PTO SWITCH	
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D



REMOVABLE CONNECTIONS



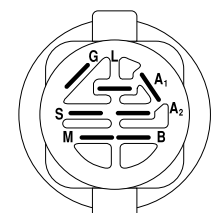
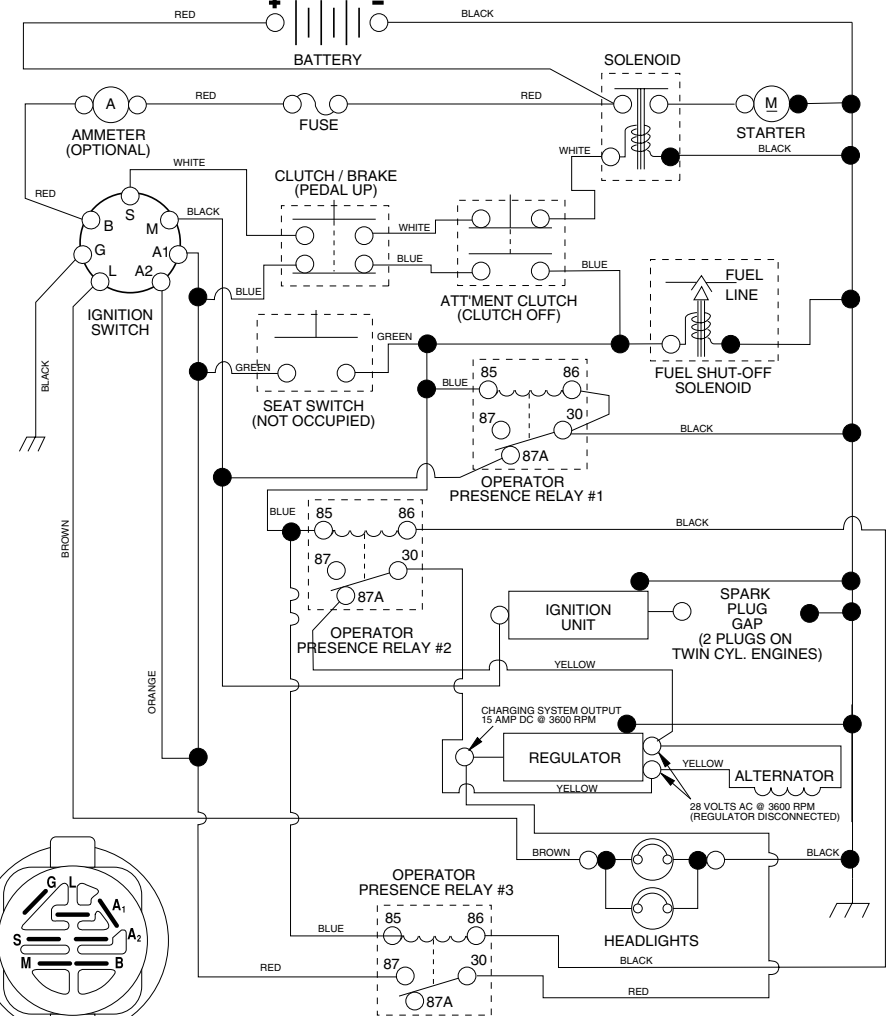
NON-REMOVABLE CONNECTIONS



WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2374



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHTS	B+A1	A2+L
RUN	B+A1	NONE
START	B+S+A1	NONE



RELAY



NON-REMOVABLE CONNECTIONS

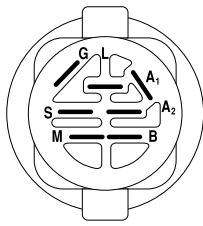
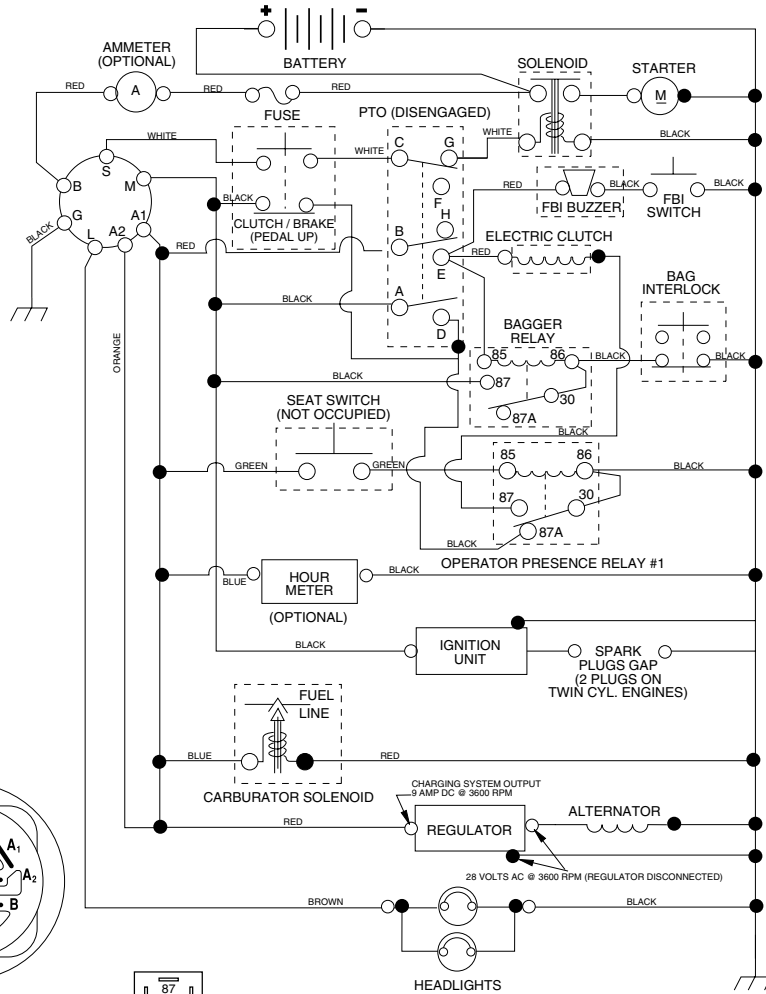


REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2377

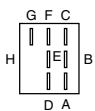


IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B+S+A1	NONE



RELAY



POSITION	CIRCUIT
OFF	C+G, B+H
ON	C+F, B+E, A+D

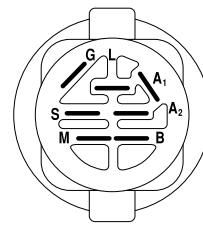
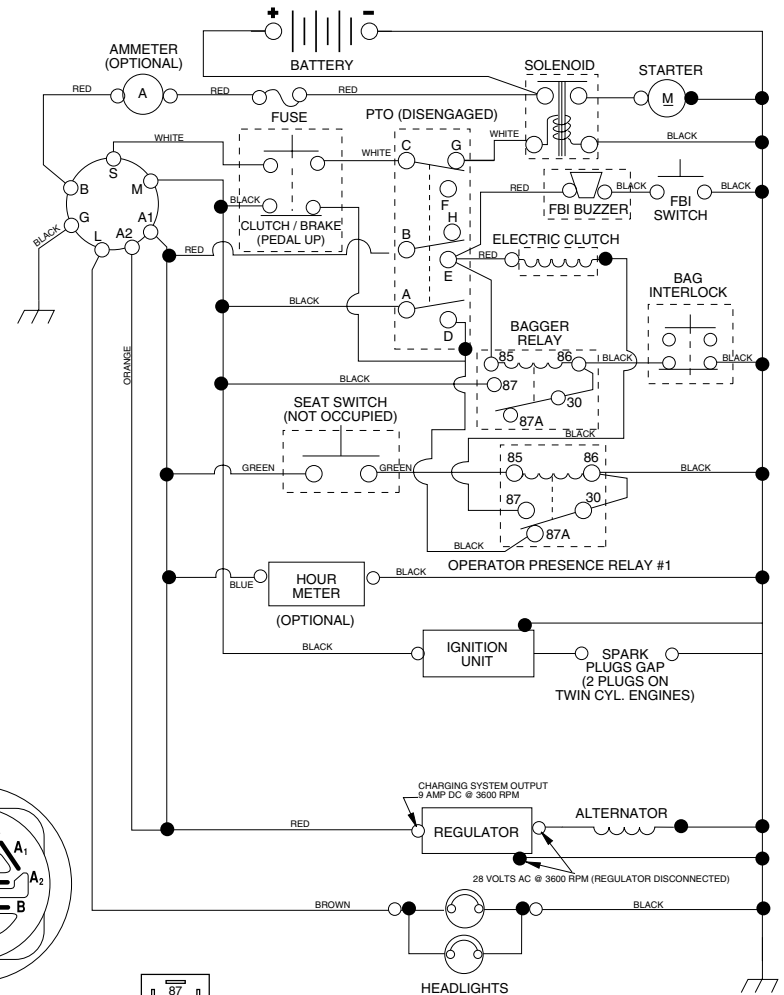
● NON-REMOVABLE CONNECTIONS

○ REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2378

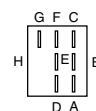


IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B+S+A1	NONE



RELAY



POSITION	CIRCUIT
OFF	C+G, B+H
ON	C+F, B+E, A+D

● NON-REMOVABLE CONNECTIONS

○ REMOVABLE CONNECTIONS

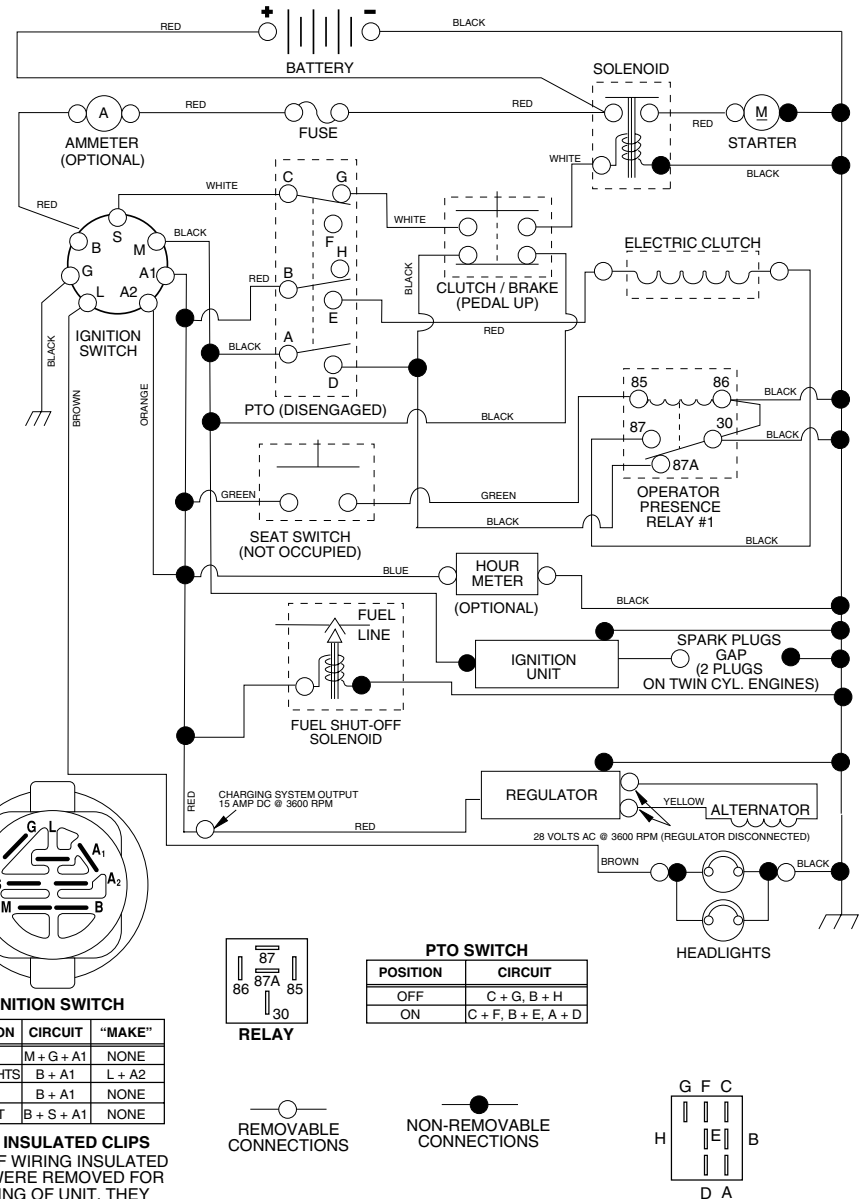
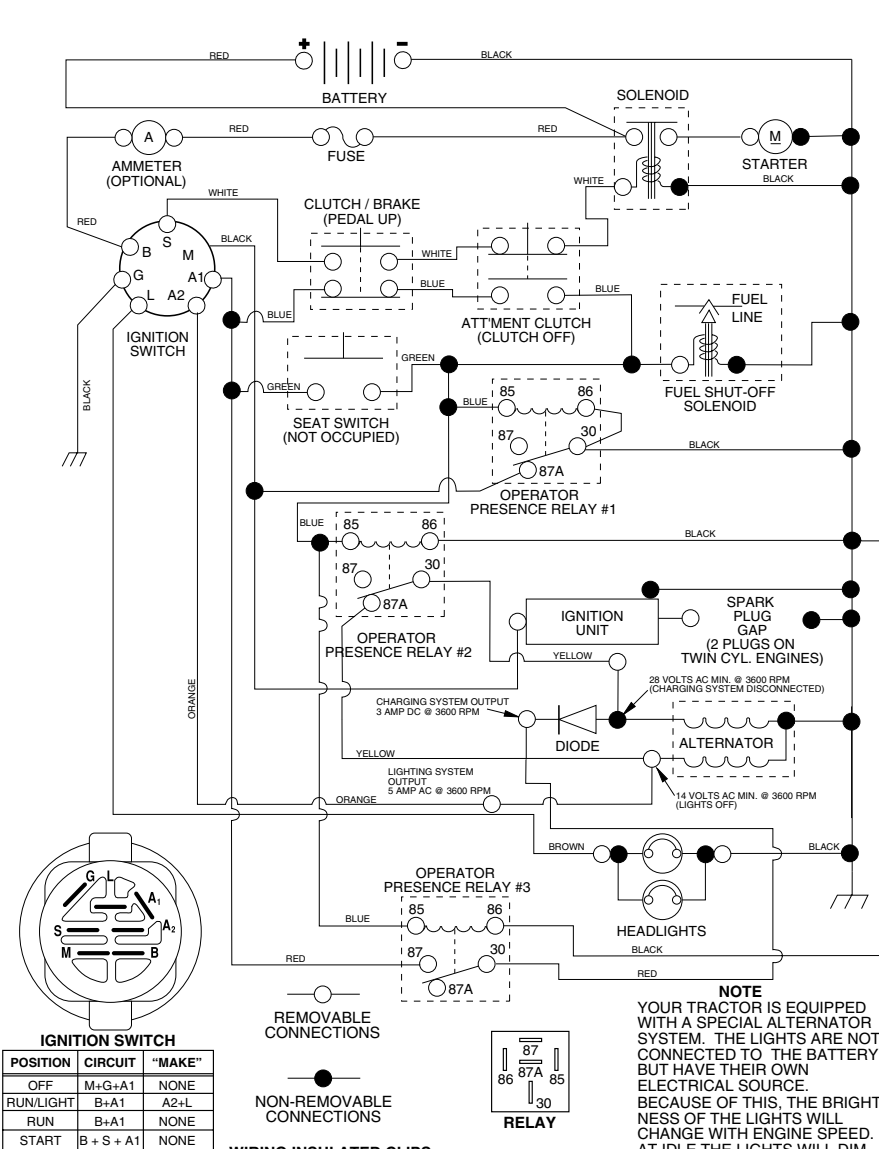
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2389

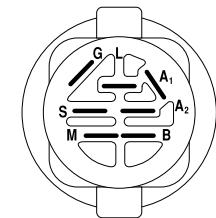
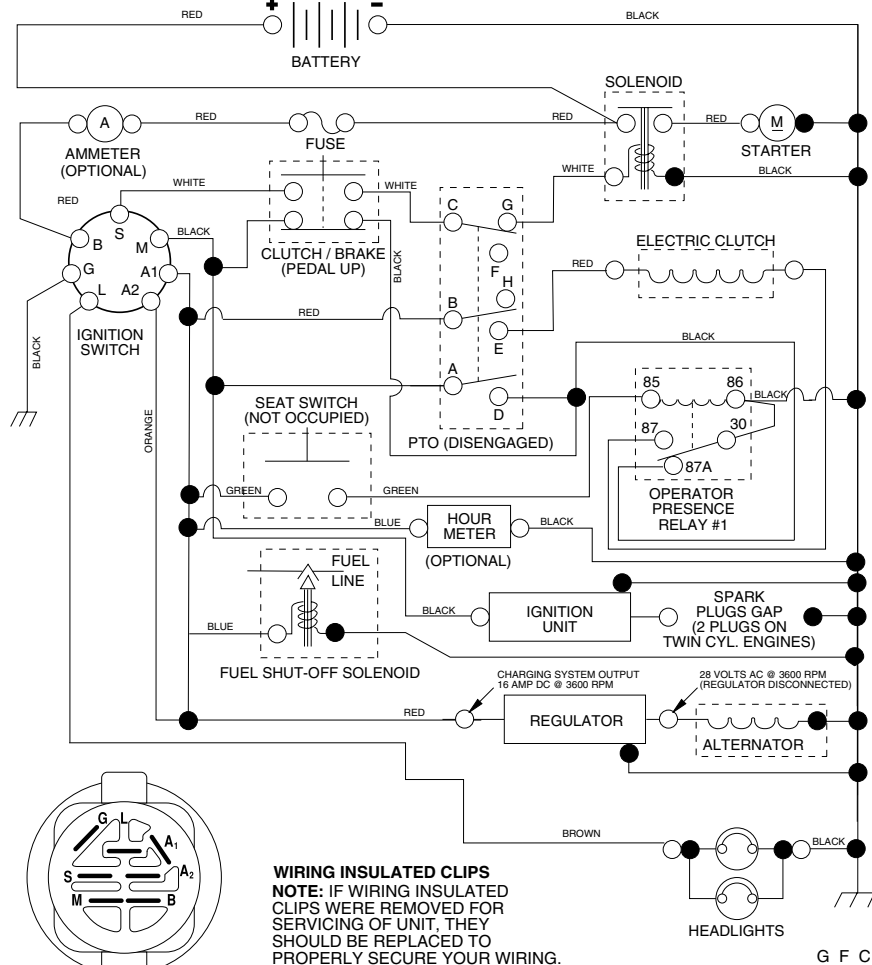
SCHEMATIC NUMBER

2390



SCHEMATIC NUMBER

2395



IGNITION SWITCH

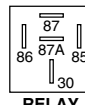
POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B+S+A1	NONE

PTO SWITCH

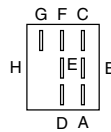
POSITION	CIRCUIT
OFF	C+G, B+H
ON	C+F, B+E, A+D

● NON-REMOVABLE CONNECTIONS

○ REMOVABLE CONNECTIONS

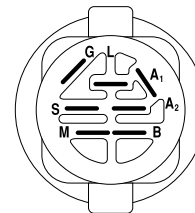
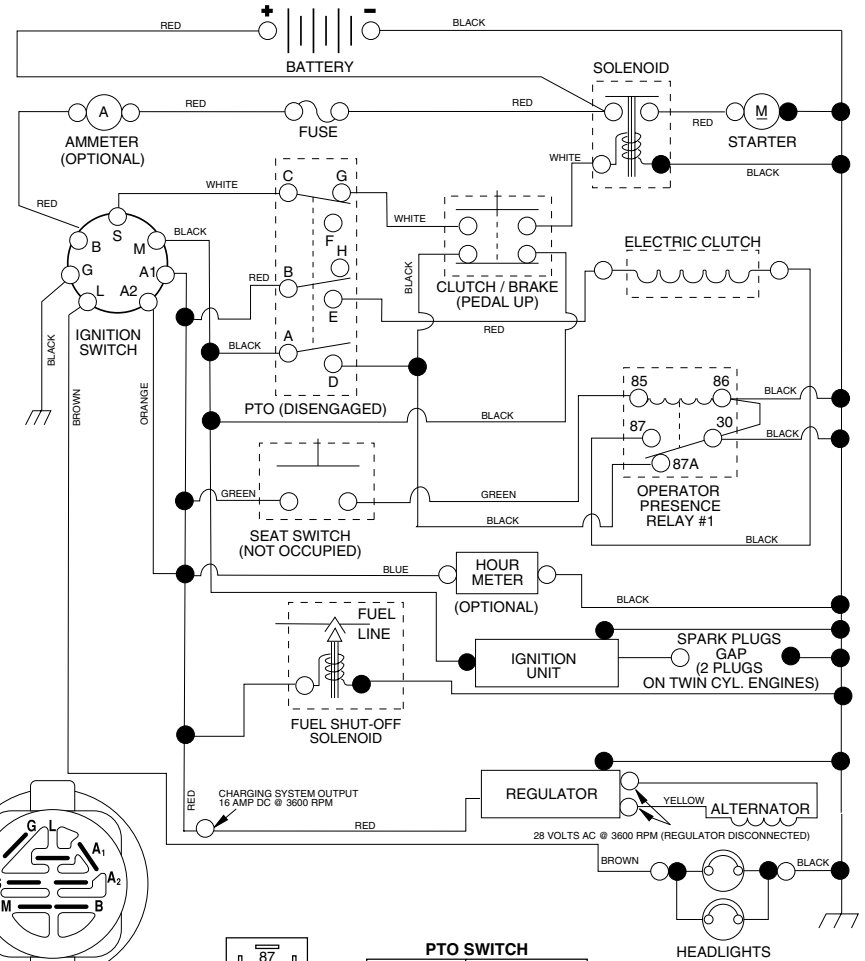


RELAY



SCHEMATIC NUMBER

2398



IGNITION SWITCH

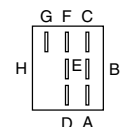
POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
ON+LIGHTS	B+A1	L+A2
ON	B+A1	NONE
START	B+S+A1	NONE



RELAY

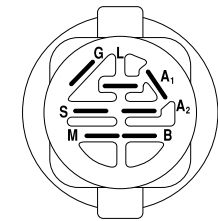
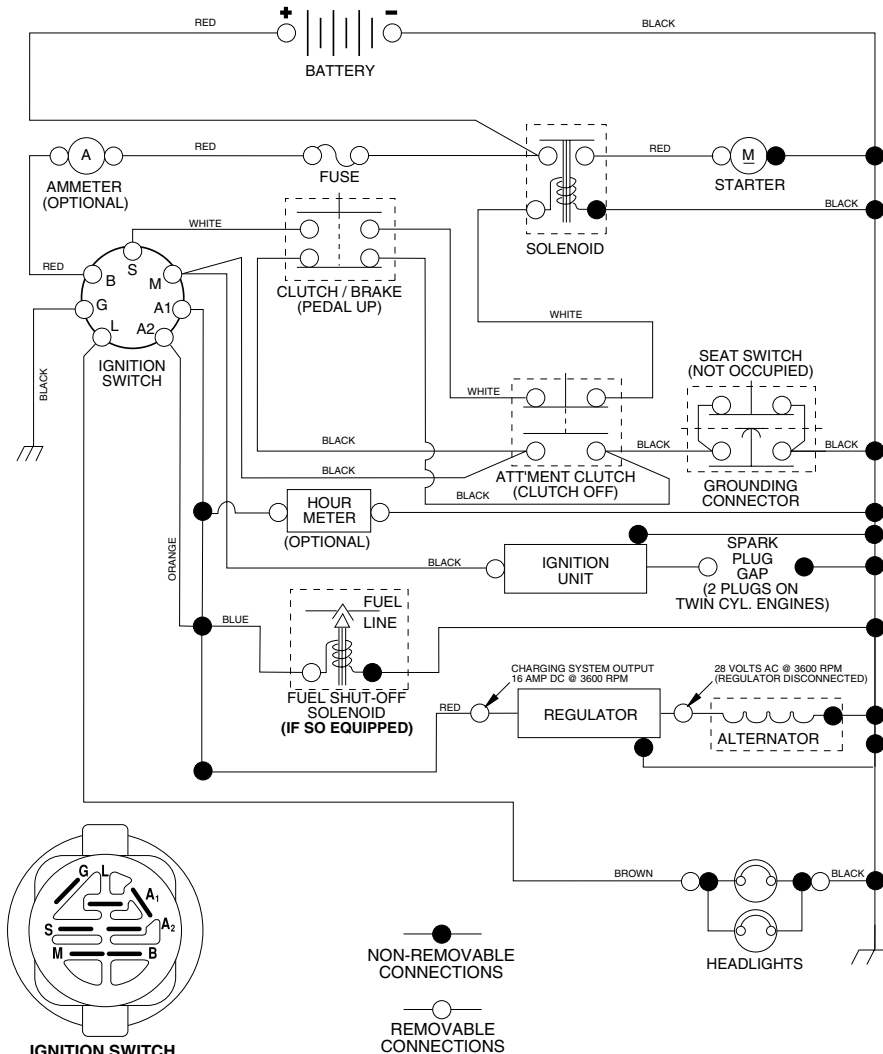
○ REMOVABLE CONNECTIONS

● NON-REMOVABLE CONNECTIONS



SCHEMATIC NUMBER

2427



IGNITION SWITCH

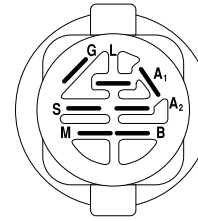
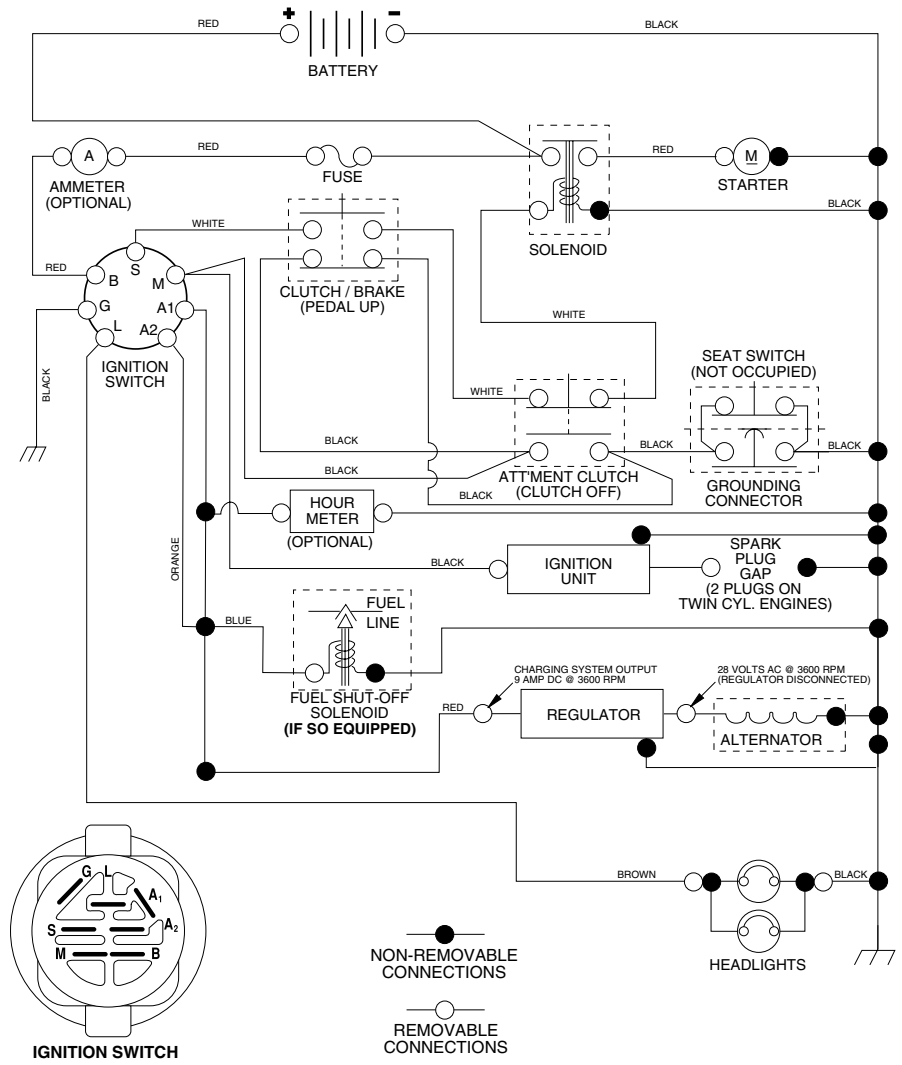
POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B + S + A1	NONE

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2430



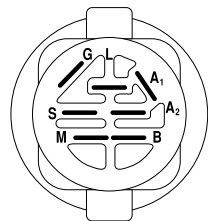
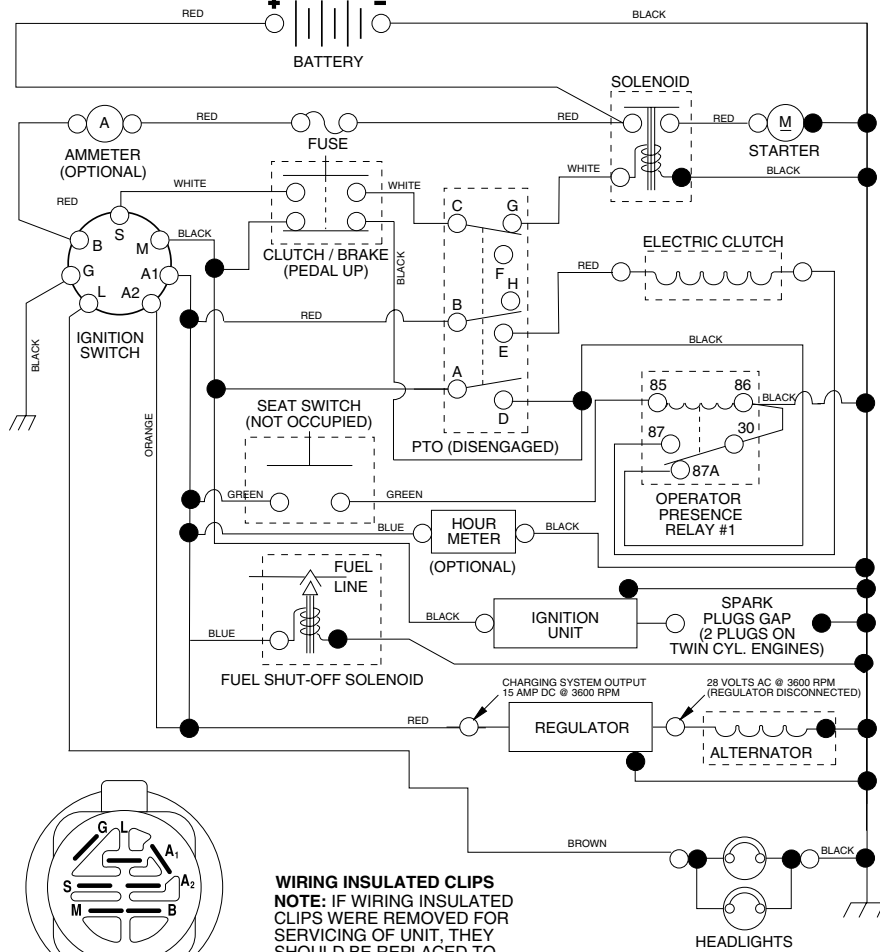
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B + S + A1	NONE

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER 2433



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B+S+A1	NONE

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

PTO SWITCH

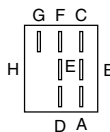
POSITION	CIRCUIT
OFF	C+G, B+H
ON	C+F, B+E, A+D

● NON-REMOVABLE CONNECTIONS

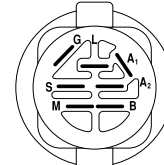
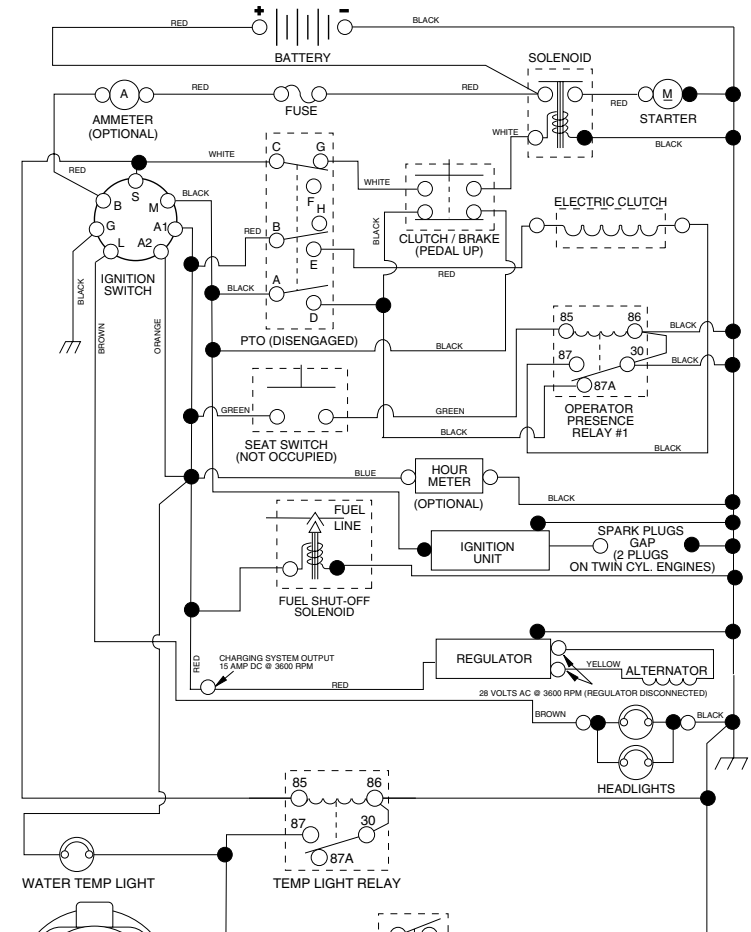
○ REMOVABLE CONNECTIONS



RELAY



SCHEMATIC NUMBER 2460



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
ON+LIGHTS	B+A1	L+A2
ON	B+A1	NONE
START	B+S+A1	NONE



RELAY

PTO SWITCH	
POSITION	CIRCUIT
OFF	C+G, B+H
ON	C+F, B+E, A+D



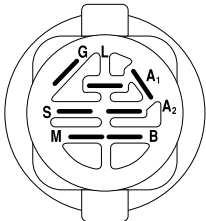
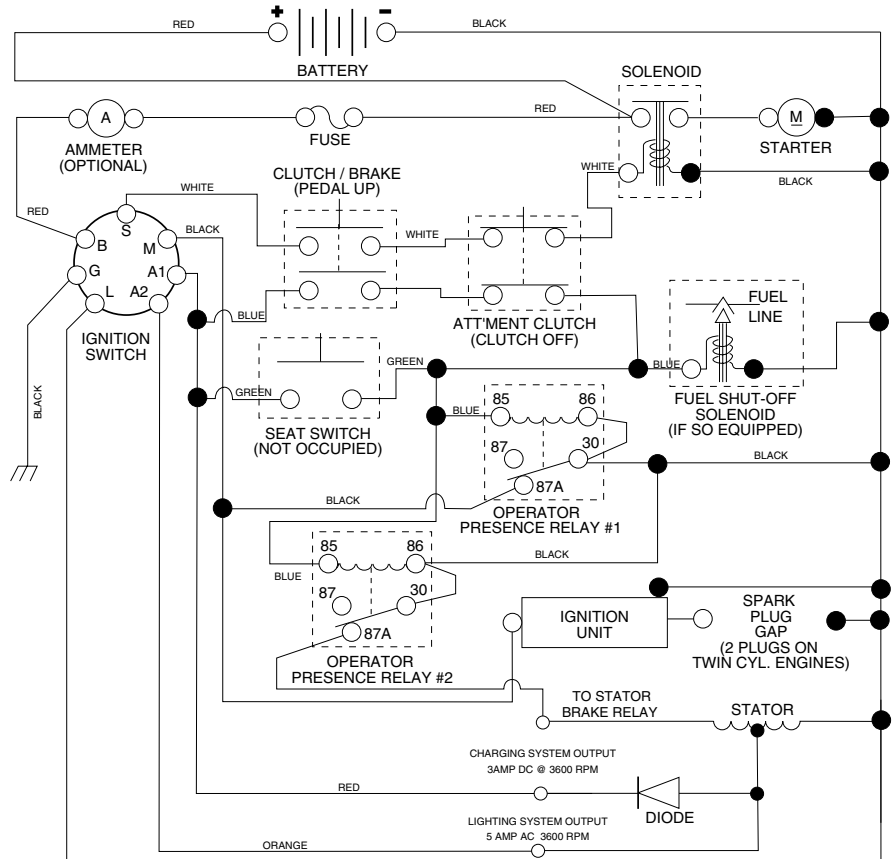
○ REMOVABLE CONNECTIONS

● NON-REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

SCHEMATIC NUMBER

2487



POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B+S+A1	NONE

NOTE
YOUR TRACTOR IS EQUIPPED WITH A SPECIAL ALTERNATOR SYSTEM. THE LIGHTS ARE NOT CONNECTED TO THE BATTERY, BUT HAVE THEIR OWN ELECTRICAL SOURCE. BECAUSE OF THIS, THE BRIGHTNESS OF THE LIGHTS WILL CHANGE WITH ENGINE SPEED. AT IDLE THE LIGHTS WILL DIM. AS THE ENGINE IS SPEEDED UP, THE LIGHTS WILL BECOME THEIR BRIGHTEST.

WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



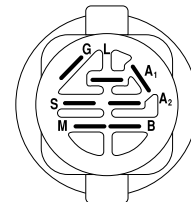
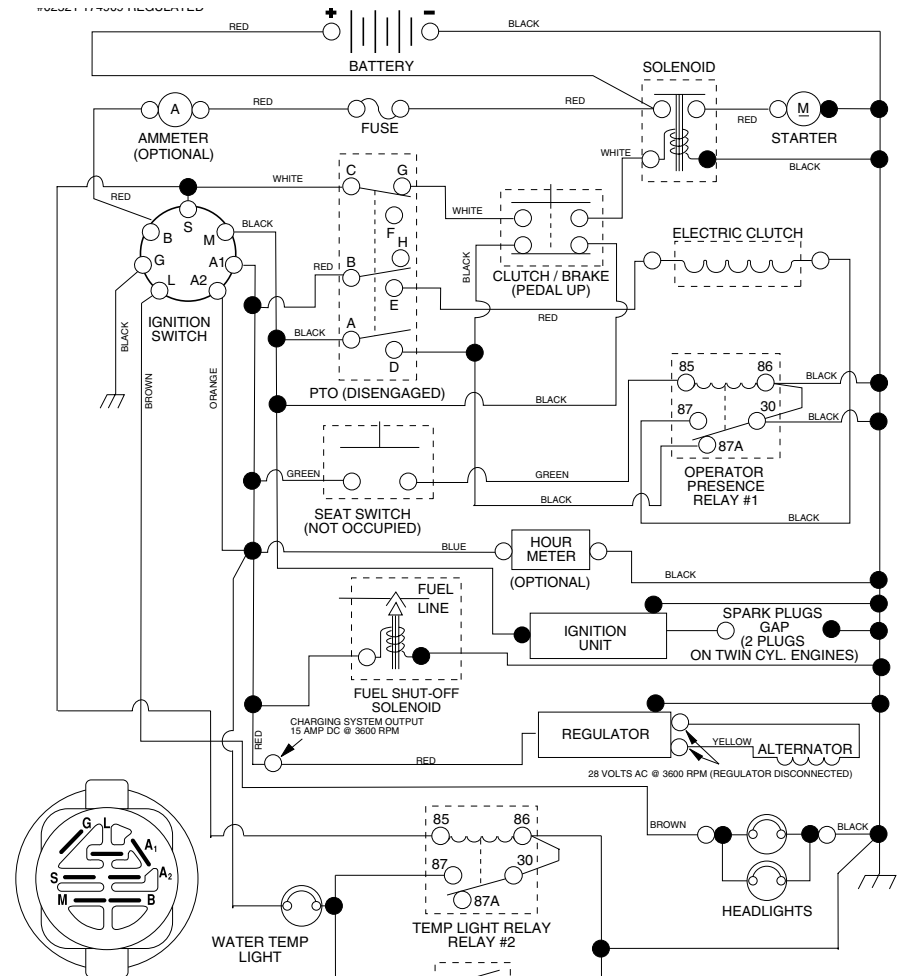
RELAY

NON-REMOVABLE CONNECTIONS

REMOVABLE CONNECTIONS

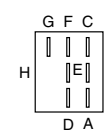
SCHEMATIC NUMBER

2521



IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
ON+LIGHTS	B+A1	L+A2
ON	B+A1	NONE
START	B+S+A1	NONE



WATER TEMP SWITCH (ENGINE COOL)



RELAY

NON-REMOVABLE CONNECTIONS

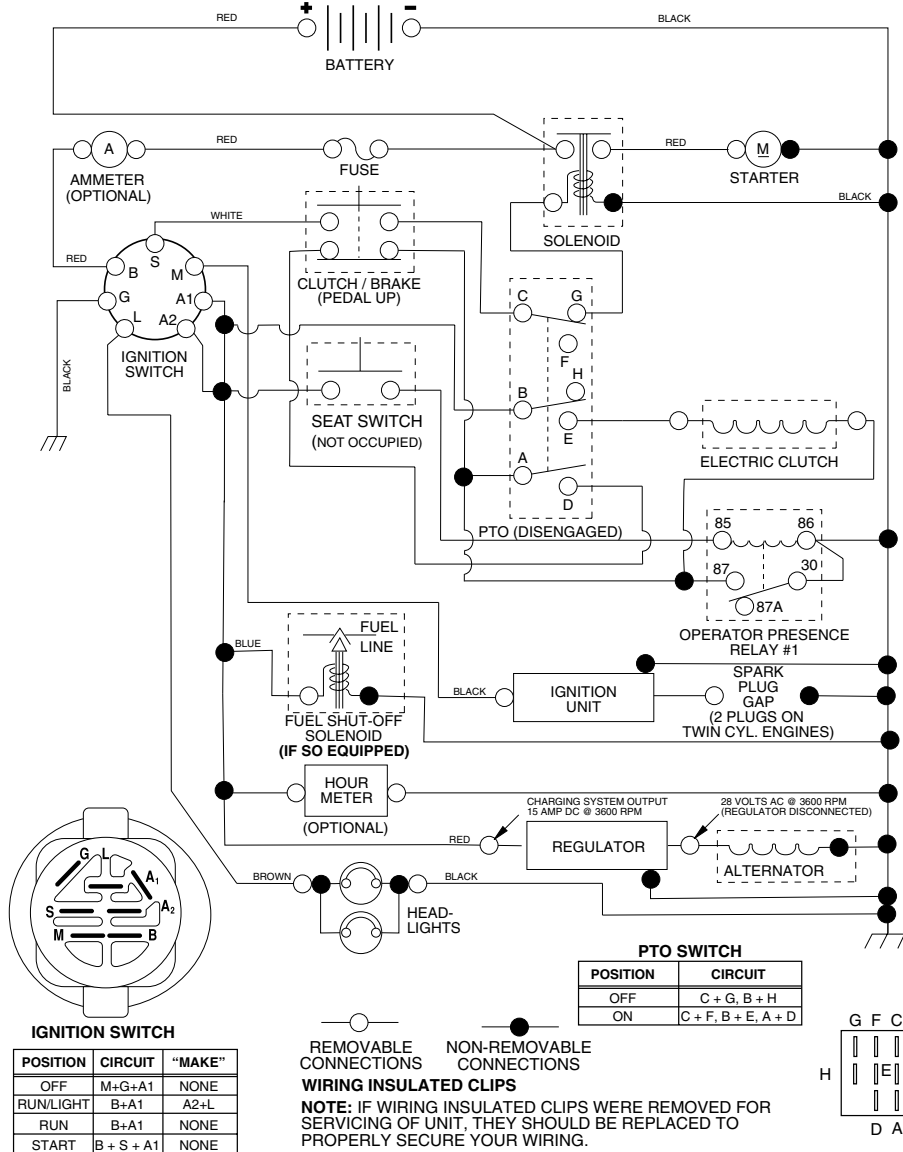
REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

POSITION	CIRCUIT
OFF	C+G,B+H
ON	C+F,B+E,A+D

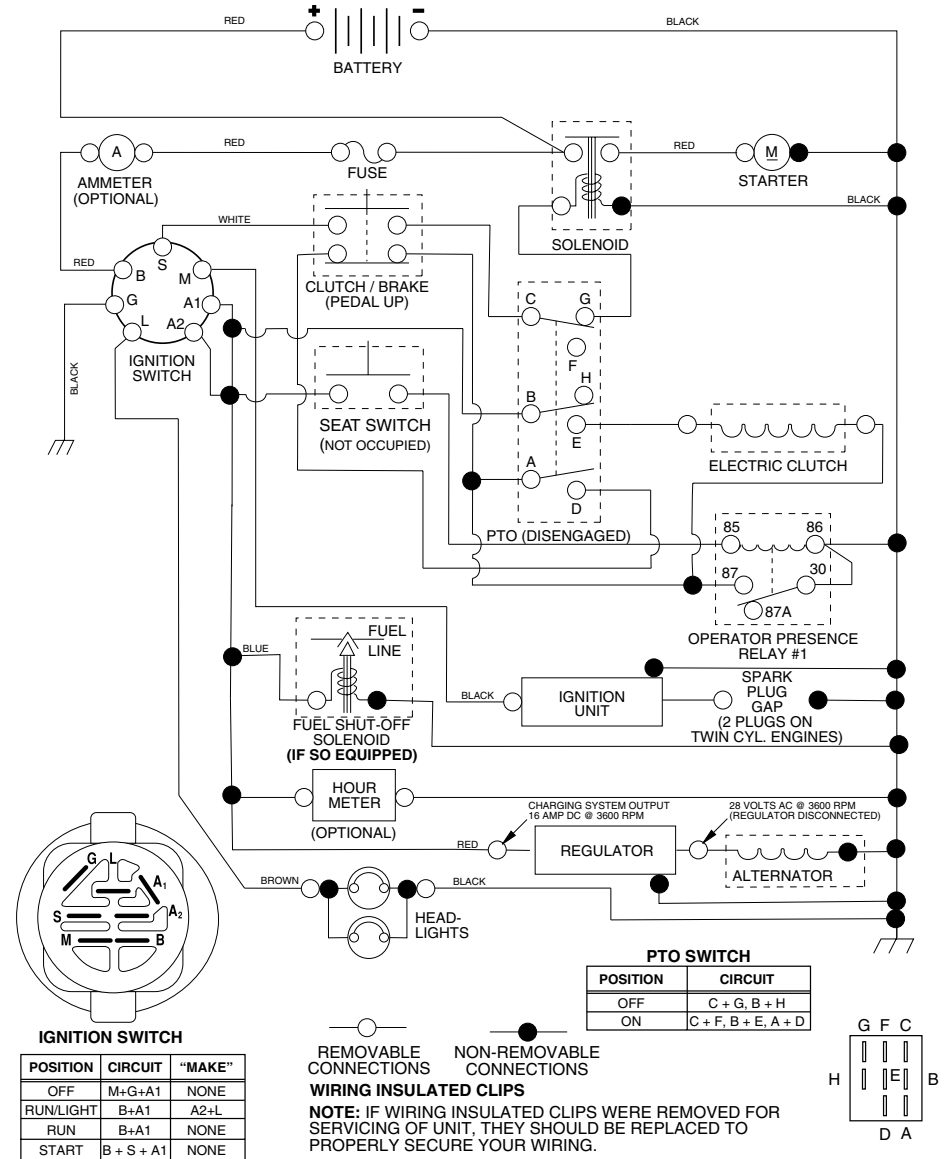
SCHEMATIC NUMBER

2533



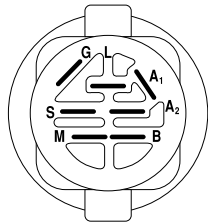
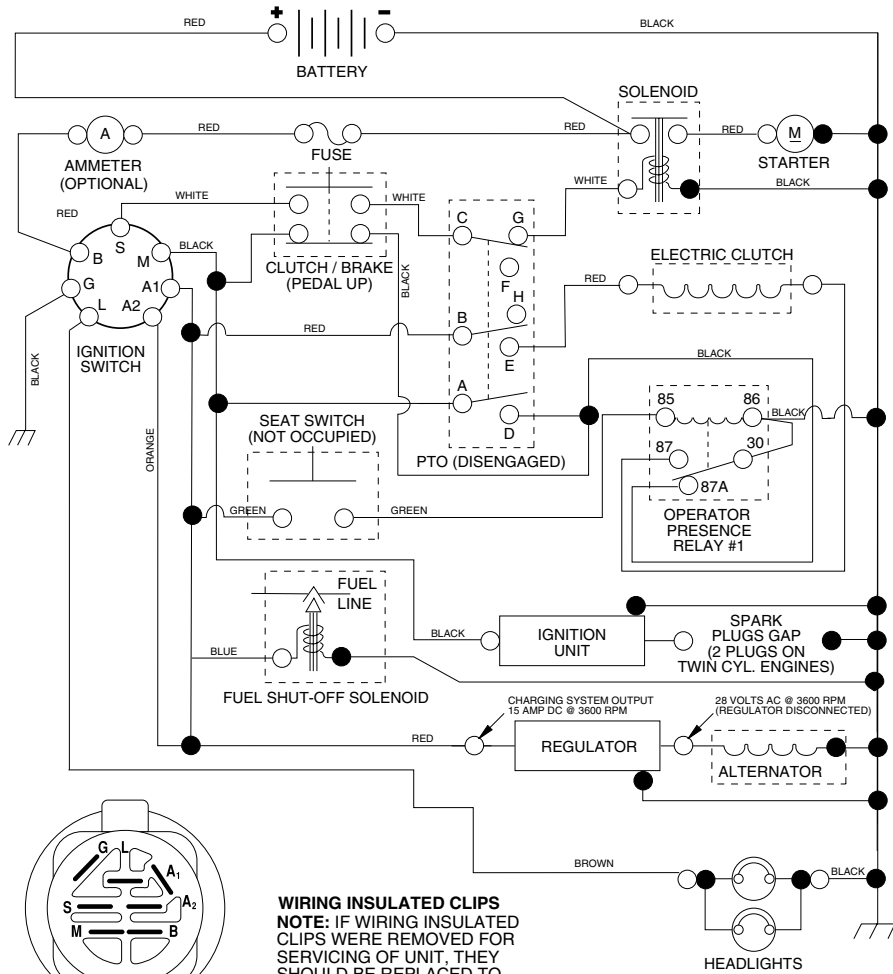
SCHEMATIC NUMBER

2540



SCHEMATIC NUMBER

2541



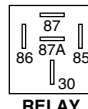
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B + S + A1	NONE

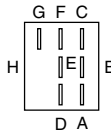
WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.

PTO SWITCH	
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

● NON-REMOVABLE CONNECTIONS
○ REMOVABLE CONNECTIONS

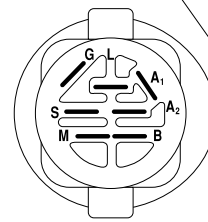
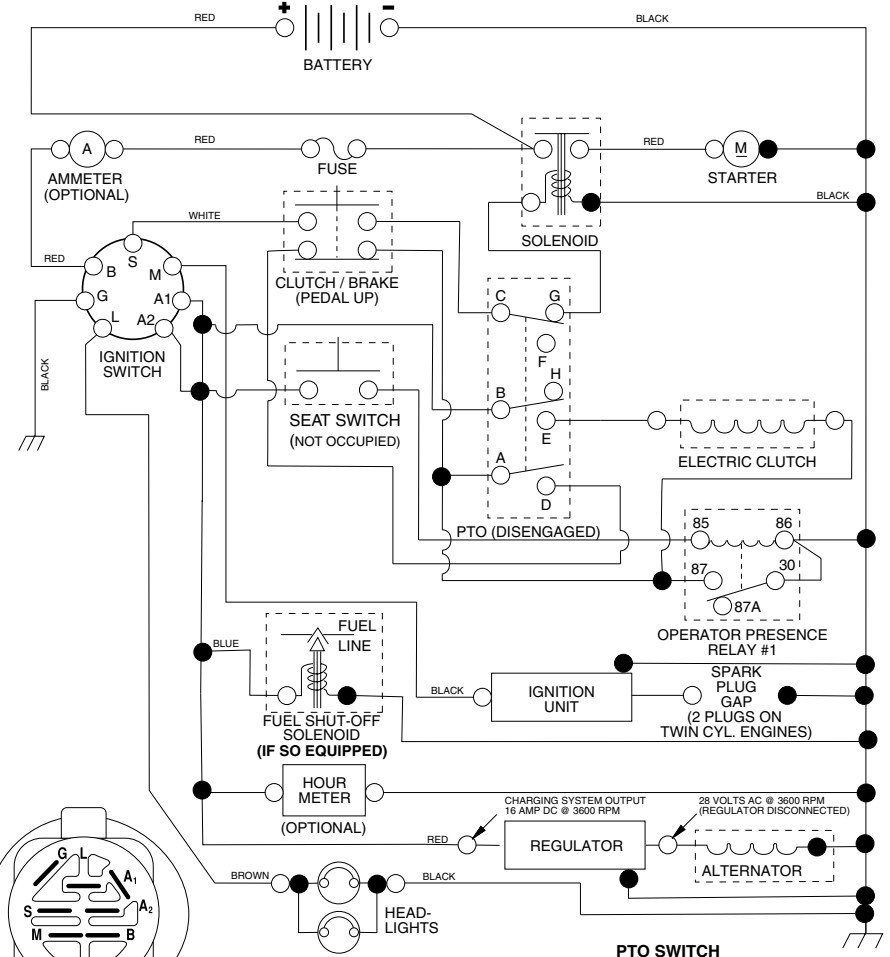


RELAY



SCHEMATIC NUMBER

2542



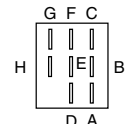
IGNITION SWITCH

POSITION	CIRCUIT	"MAKE"
OFF	M+G+A1	NONE
RUN/LIGHT	B+A1	A2+L
RUN	B+A1	NONE
START	B + S + A1	NONE

PTO SWITCH	
POSITION	CIRCUIT
OFF	C + G, B + H
ON	C + F, B + E, A + D

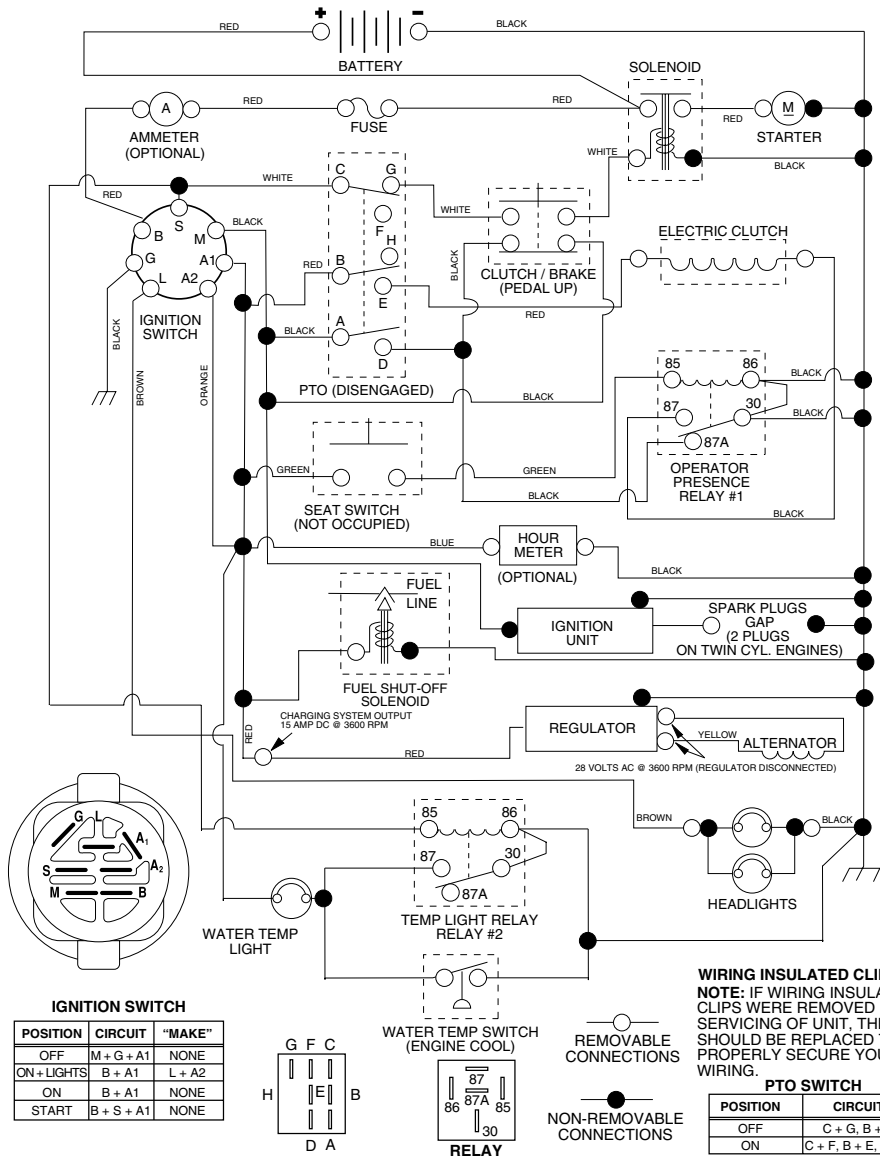
● REMOVABLE CONNECTIONS
○ NON-REMOVABLE CONNECTIONS

WIRING INSULATED CLIPS
NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING.



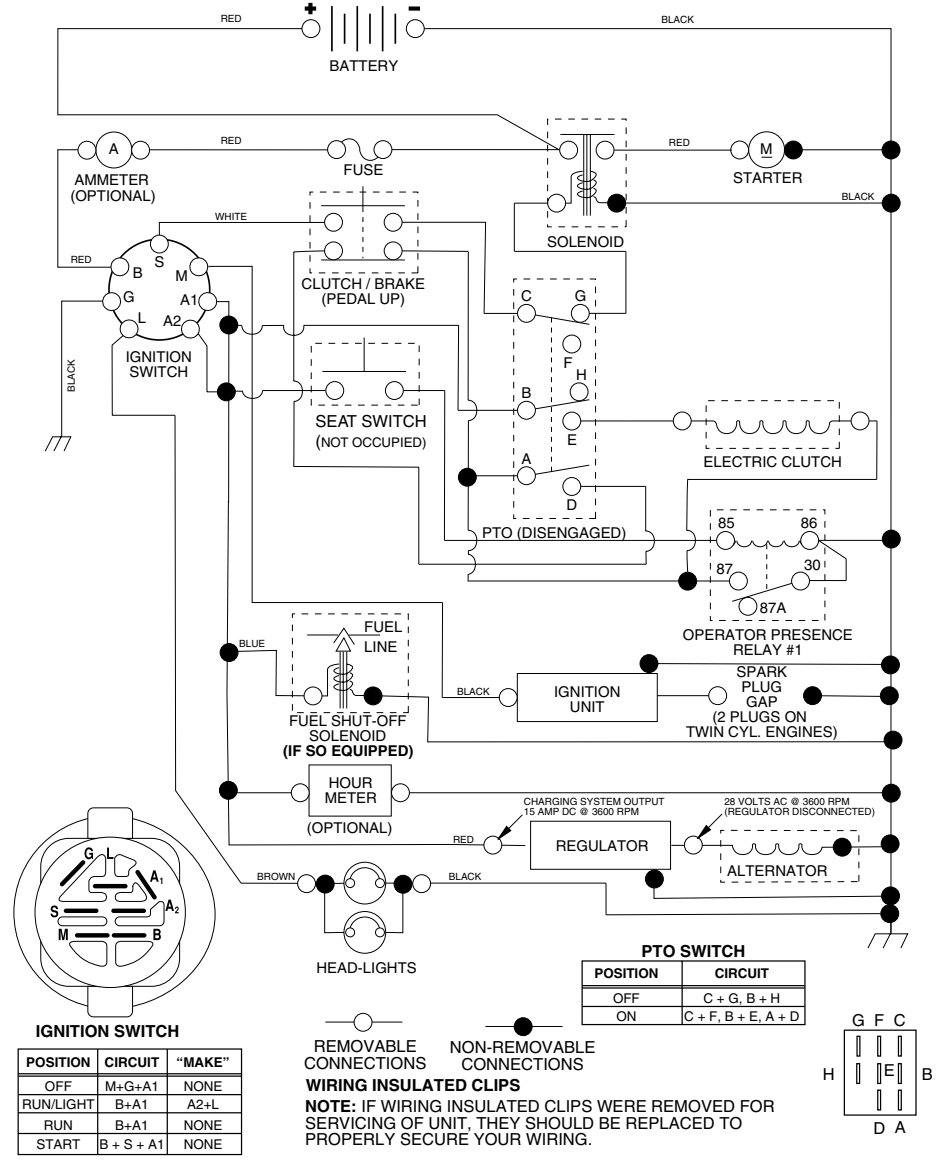
SCHEMATIC NUMBER

2562



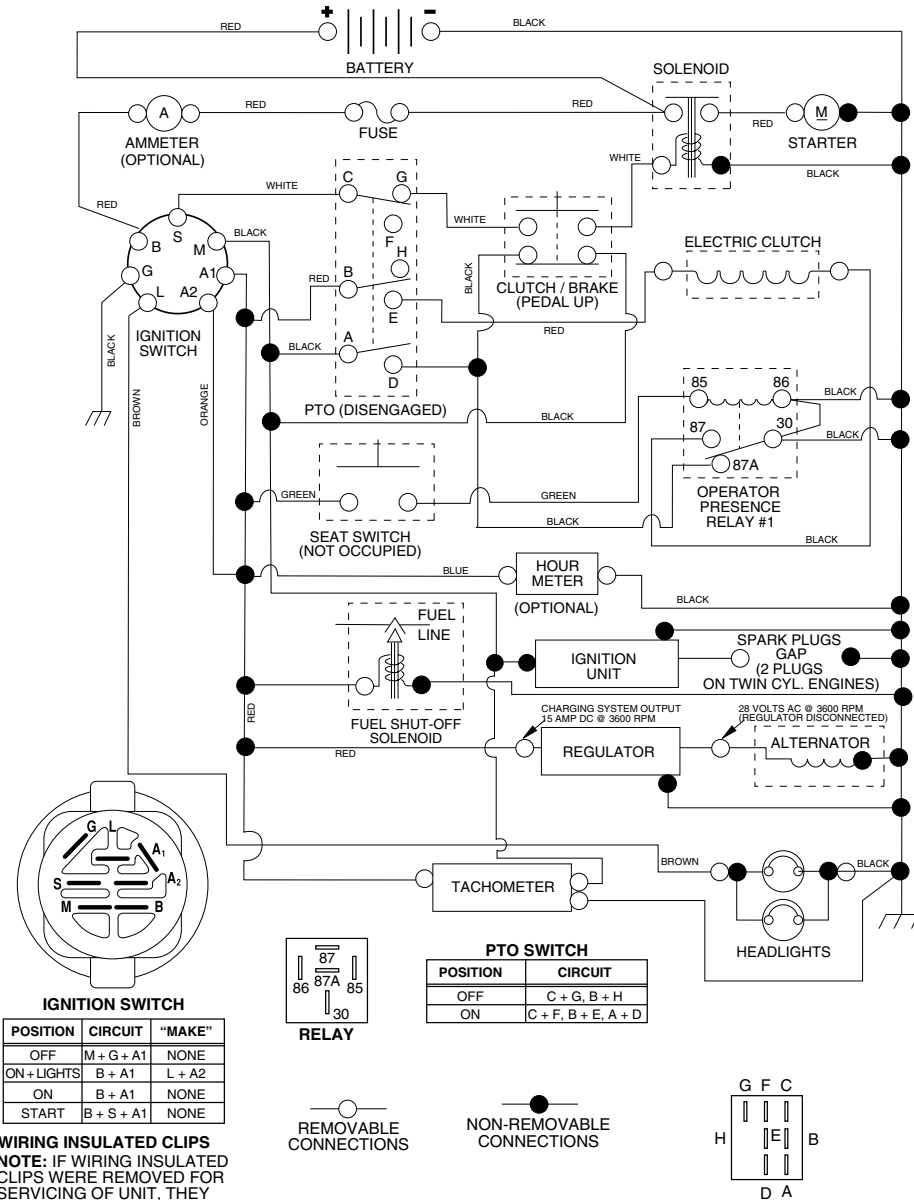
SCHEMATIC NUMBER

2564

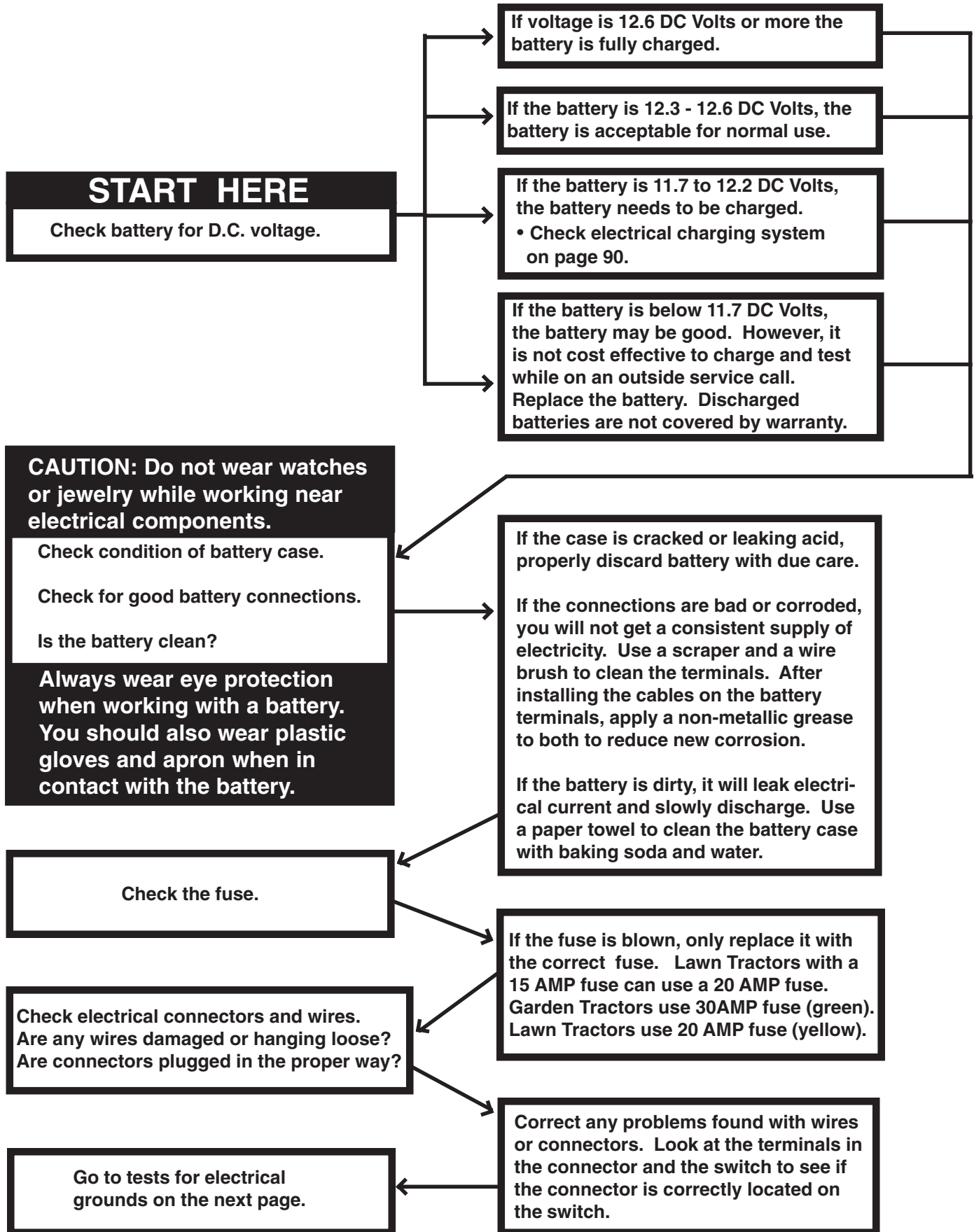


SCHEMATIC NUMBER

2660



TRACTOR ELECTRICAL TROUBLESHOOTING BASICS



TRACTOR ELECTRICAL TROUBLESHOOTING BASICS

START HERE

Electrical Grounds are necessary to make a complete electrical path so a circuit can function. Use an electrical meter for this check.

A reading of more than 0.5 OHMS indicates a poor ground that resists the passage of electricity. You will need to improve the connections between parts to get the resistance to electrical passage below 0.5 OHMS. Do this by scraping where electrical contact is made between parts, until the finish is bright metallic. EXAMPLE: Where the eyelet for the black battery cable meets the chassis.

Move the selector on your meter to the OHMS or R X 1 position. Connect the leads to the meter for OHMS.

Hold one meter probe to the negative battery post.

Hold the other meter probe to a clean metallic surface on the item that is not functioning.

If you get a reading of 0.5 OHMS or less, grounds are good, you can stop.

If you get a reading greater than 0.5 OHMS, you will need to track down the poor connection. Start at the battery cable and check components going toward the item that is not working. When you find a place where the resistance increases, you have a place where an electrical connection must be improved.

NOTE: There are two starwashers used to cut through the paint to make a good ground. One is located on one of the screws that holds the engine to the chassis. The other is where the black battery cable is held to the chassis.

START HERE

Check electrical charging system.

Move selector on meter to DC Volts or scale for 12 DCV. Place leads in positions for Voltage.

With engine off check the battery voltage.

Note the DC Voltage reading.

Start engine, raise engine to fastest RPM for two full minutes. Check voltage at battery.

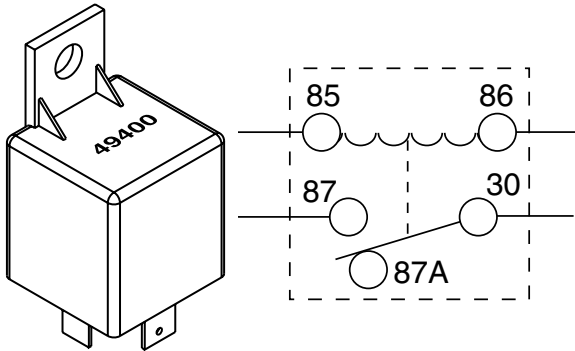
If the reading is above 12.8 DC Volts, the charging system is working. Discontinue charging tests.

If the tractor has relays, test the relays on page 91. If any of the relays test bad, replace the relay and test the charging system again. In some wire harnesses, a relay makes an electrical connection between the engine charging system and the battery.

If the DC Voltage reading is the same as the reading noted with the engine off, the charging system is not working, or is not connected to the battery. Refer to electrical section of engine manufacturer's manual to further diagnose charging system.

TRACTOR ELECTRICAL TROUBLESHOOTING BASICS

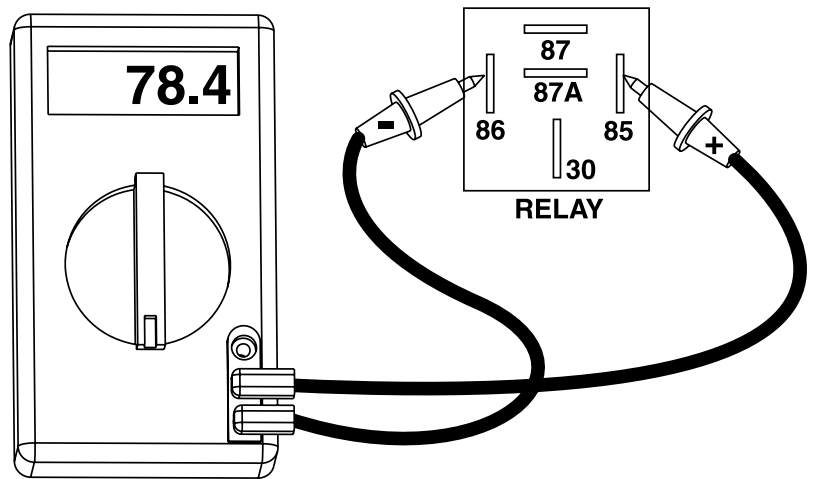
DIAGNOSIS OF ELECTRICAL RELAY 109748X



REMOVE RELAY FROM HARNESS CONNECTOR BEFORE TESTING.

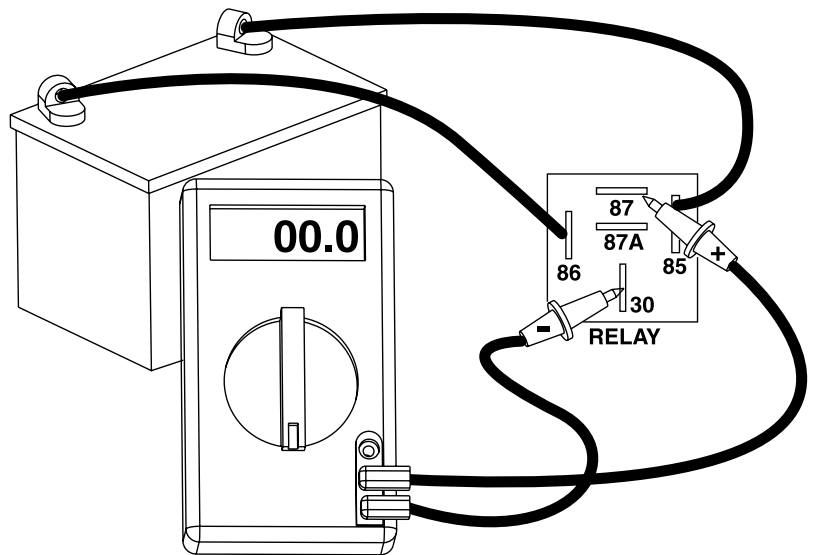
Test # 1: Coil Resistance

1. Set meter to Ohm's scale
2. Attach leads to Relay terminals 85 and 86.
3. There are two relays:
If the number 49400 is on the relay it is 1998 or newer and should read **68-82** Ohms. Relays with a Hella logo were made before 1998 and should read **80-90** Ohms.



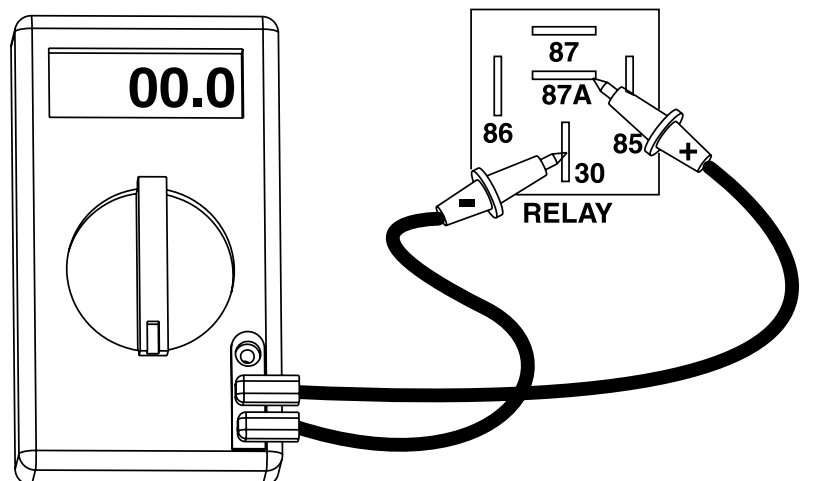
Test # 2: Continuity when energized

1. Attach a 12 DC volt power source to Relay terminals 85 and 86.
2. Set meter to continuity test or Ohm's scale.
3. Check for continuity between Relay terminals 30 and 87; then 30 and 87a.
4. You should have continuity between terminals 30 and 87 only when the relay is energized. If you have continuity between 30 and 87a when energized, the relay is defective.



Test # 3: Continuity when NOT energized

1. Remove the power source from relay terminals 85 and 86.
2. Check for continuity between Relay terminals 30 and 87; then 30 and 87a.
3. You should have continuity between terminals 30 and 87a **only**.



TRACTOR ELECTRICAL TROUBLESHOOTING BASICS

START HERE

Check starting circuit to SOLENOID.



The starting circuit is identified by a white wire. Remove the connector for the white wire from the solenoid. Place a meter probe into the white wire connector. Move the meter selector to DC Volts or range that includes 12 VDC. Check to see that meter probe leads are installed in correct positions. Attach the other meter probe to a good ground.



Sit on tractor seat. Place mower control in disengaged position and hold foot pedal to lowest position. Watch meter reading while turning ignition switch to "Start" position.

If the meter shows 0.0 DCV in the "Start" position, there is a problem with wiring, connections, ignition switch, interlock switches, or PTO switch in this circuit. It will be necessary to evaluate each item in the circuit until the item causing the problem is found. There is a diagnostic jumper kit (150834) that will allow the switches to be evaluated quickly.

If meter shows 0.0 DCV with ignition switch in "Off" position and about 12 DCV in "Start" position, the circuit is functioning properly. The wiring, connections, ignition switch, interlock switches, and PTO switch are all good.

START HERE

Check "ground" for solenoid.



The ground wires are identified by a black wire. Remove the connector for the black wire from the solenoid. Place a meter probe into the black wire connector. Move the meter selector to DC OHMS or range R x 1. Check to see that meter probe leads are installed in correct positions. Attach other meter probe to the negative (-) post of the battery.

If the resistance reading is less than 0.5 OHMS, the solenoid ground is good. Test solenoid on page 93.

If the resistance reading is more than 0.5 OHMS, one reason the solenoid is not working is a bad ground.

- Correct ground problem.
- Connect everything and try solenoid.

There is a Terminal Connector Kit available (part #148691). It includes many of the connectors, terminals, and other parts used in the tractor wire harness. The kit includes butt splice connectors for repairing wires and 30 AMP fuses.

There is a Diagnostic Jumper Kit available (part #150834). It includes jumper wires, a heavy duty jumper cable, a circuit breaker, and an instruction sheet. The circuit breaker can be plugged into the fuse holder. This eliminates blown fuses while looking for short circuits. The jumper wires are used to determine which switch is not functioning.

TRACTOR ELECTRICAL TROUBLESHOOTING BASICS

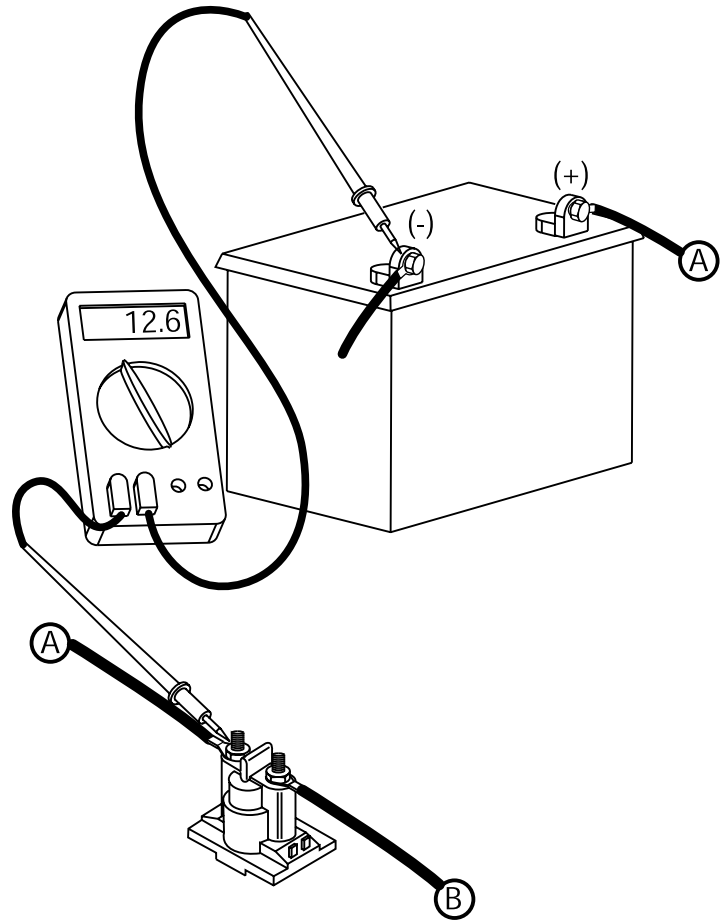
DIAGNOSIS OF STARTER SOLENOIDS

REMOVE THE RED CABLE FROM THE ENGINE STARTER MOTOR BEFORE TESTING.

PLACE DIGITAL METER SELECTOR ON D.C. VOLTAGE SCALE THAT INCLUDES 13 VOLTS.

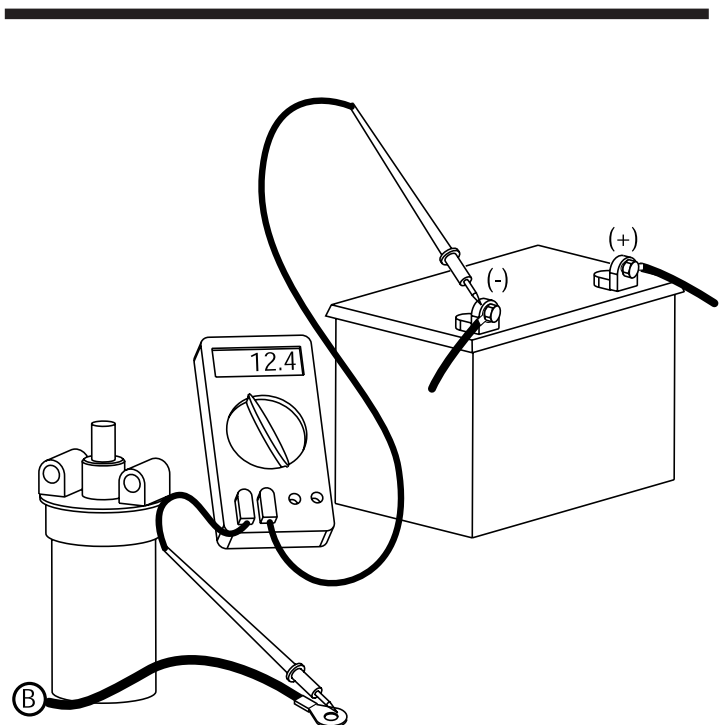
Step # 1

1. Place meter probes on battery terminals. If the reading is 12.2 VDC or more, proceed to the next step. If the reading is below 12.2 VDC, charge or replace the battery with one that has at least 12.2 VDC.



Step # 2

1. Connect negative (black) meter lead to the battery negative (-) terminal.
2. Connect the positive (red) meter lead to the "hot" terminal of the solenoid.
3. Note the voltage reading.



Step # 3

1. Keep the meter selector in the same position and the negative meter lead connected to the battery negative terminal.
2. Connect the positive (red) meter lead to the end of the cable normally connected to the starter motor.
3. Engage the parking brake and turn the ignition switch to the "START" position.
4. Note the voltage reading.
5. If the voltage drop is more than 0.50 VDC between the two noted readings, the solenoid or the starter cable is suspect. Replace the solenoid.
6. Re-install the red cable to the starter motor. If the solenoid checks acceptable and the starter does not crank, check for clean, tight battery connections and check the grounds for the battery and the engine.

SERVICE NOTES

SERVICE NOTES

