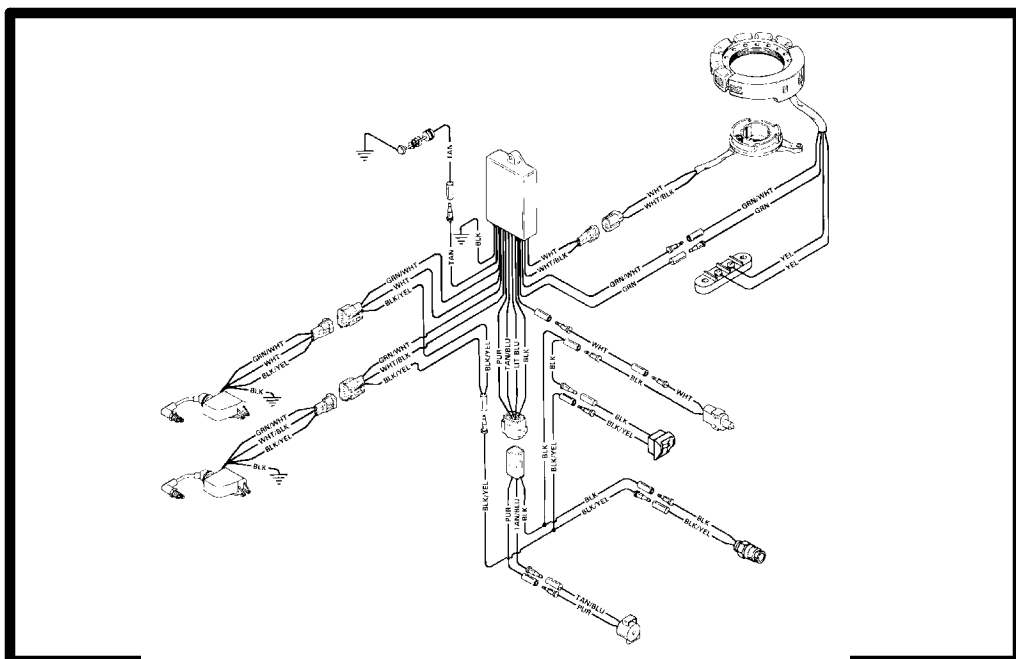




ELECTRICAL

2

D



WIRING DIAGRAMS

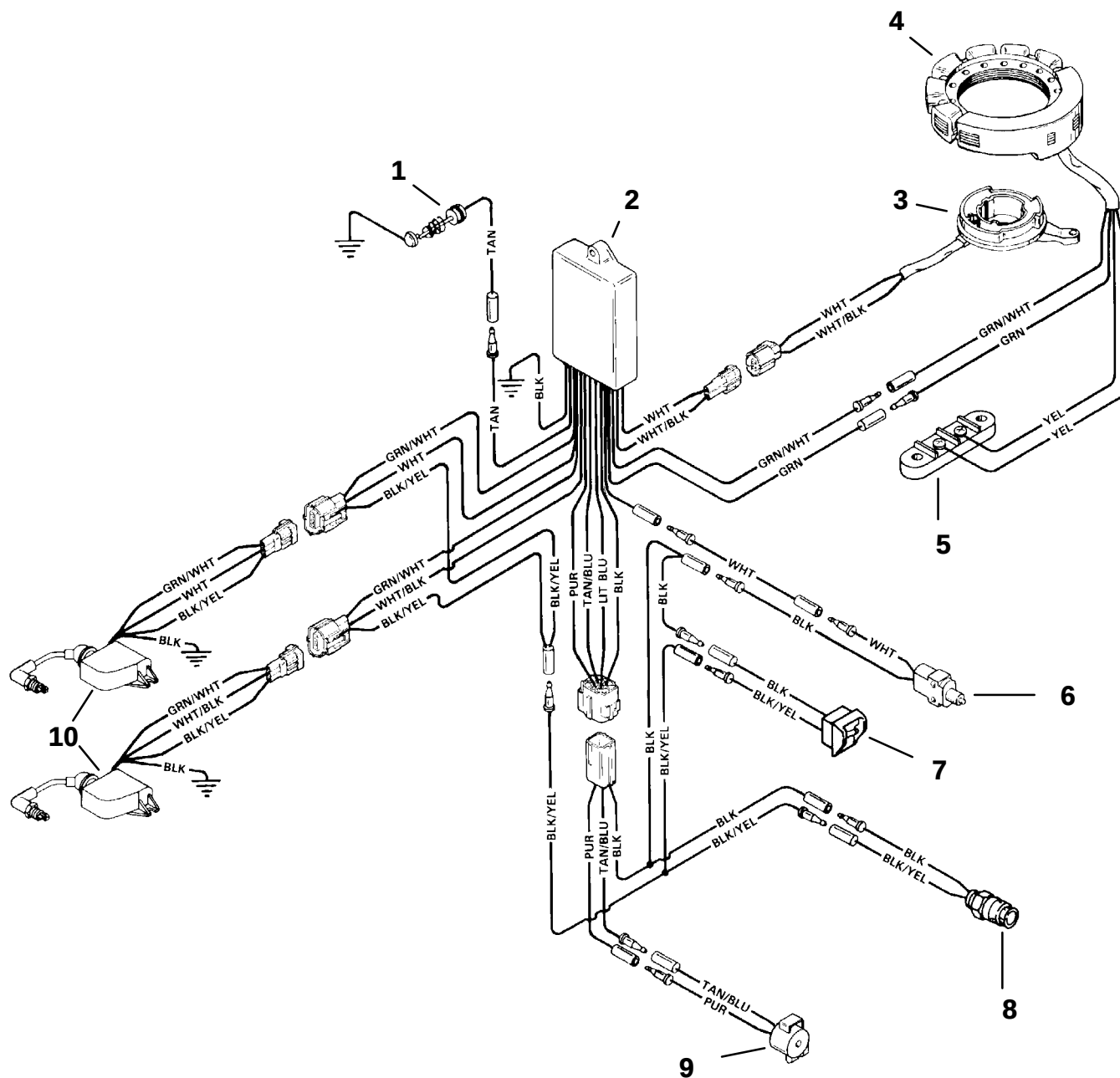


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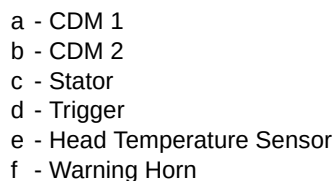
30/40 Manual Start Ignition Diagram (S/N 0G380074 & Below)



52618

- 1 - Engine Temperature Sensor
- 2 - Timing and Protection Module (TPM)
- 3 - Trigger
- 4 - Stator
- 5 - Terminal Block
- 6 - Neutral Start Switch
- 7 - Emergency Stop Switch
- 8 - Stop Button
- 9 - Horn
- 10 - Capacitor Discharge Module (CDM)

BLK = Black
BLU = Blue
BRN = Brown
GRY = Gray
GRN = Green
ORN = Orange
PNK = Pink
PUR = Purple
RED = Red
TAN = Tan
WHT = White
YEL = Yellow
LIT = Light
DRK = Dark

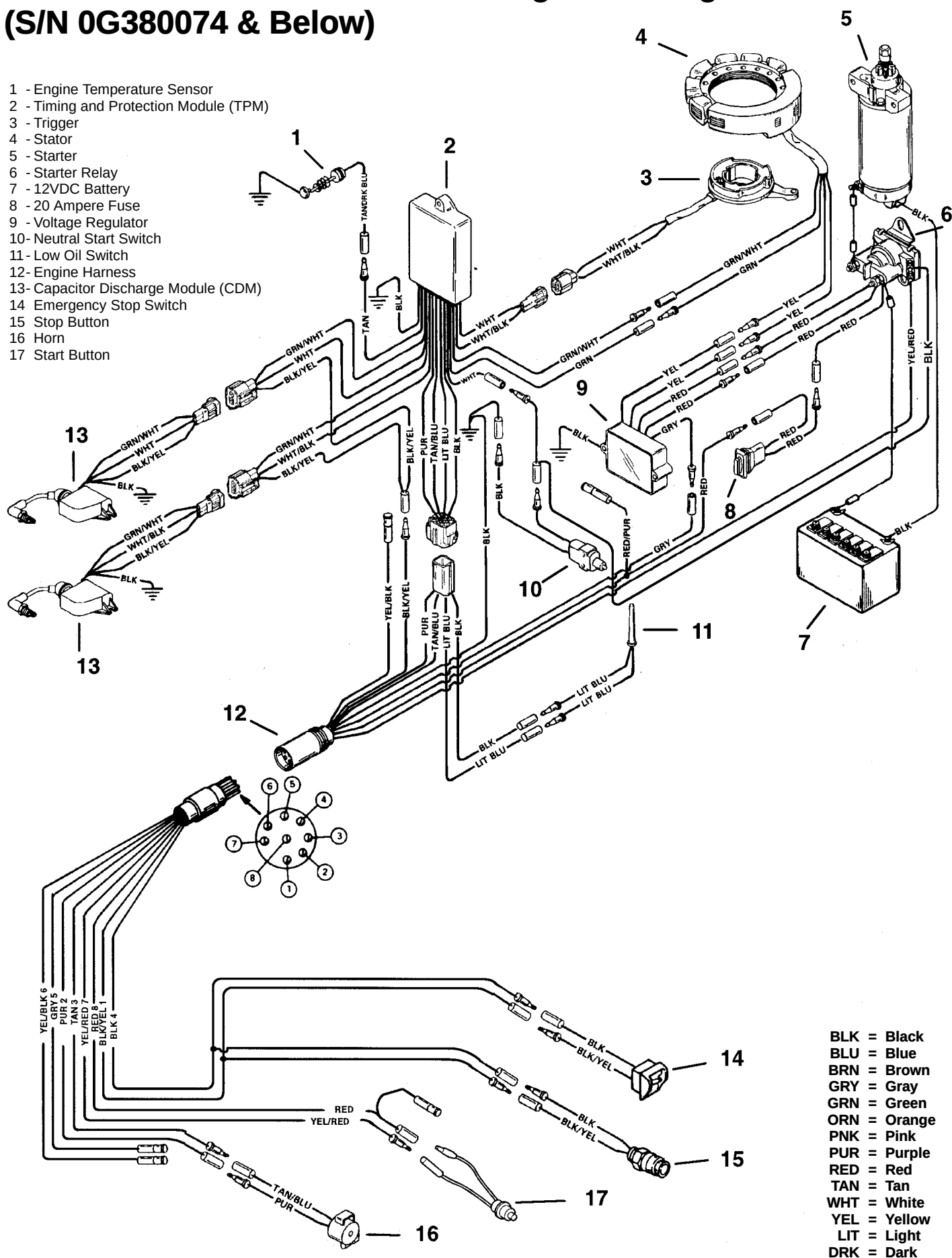


- g - Lanyard Stop Switch
- h - Push Button Stop Switch
- i - Neutral Switch
- j - Terminal Block
- k - TPM Module



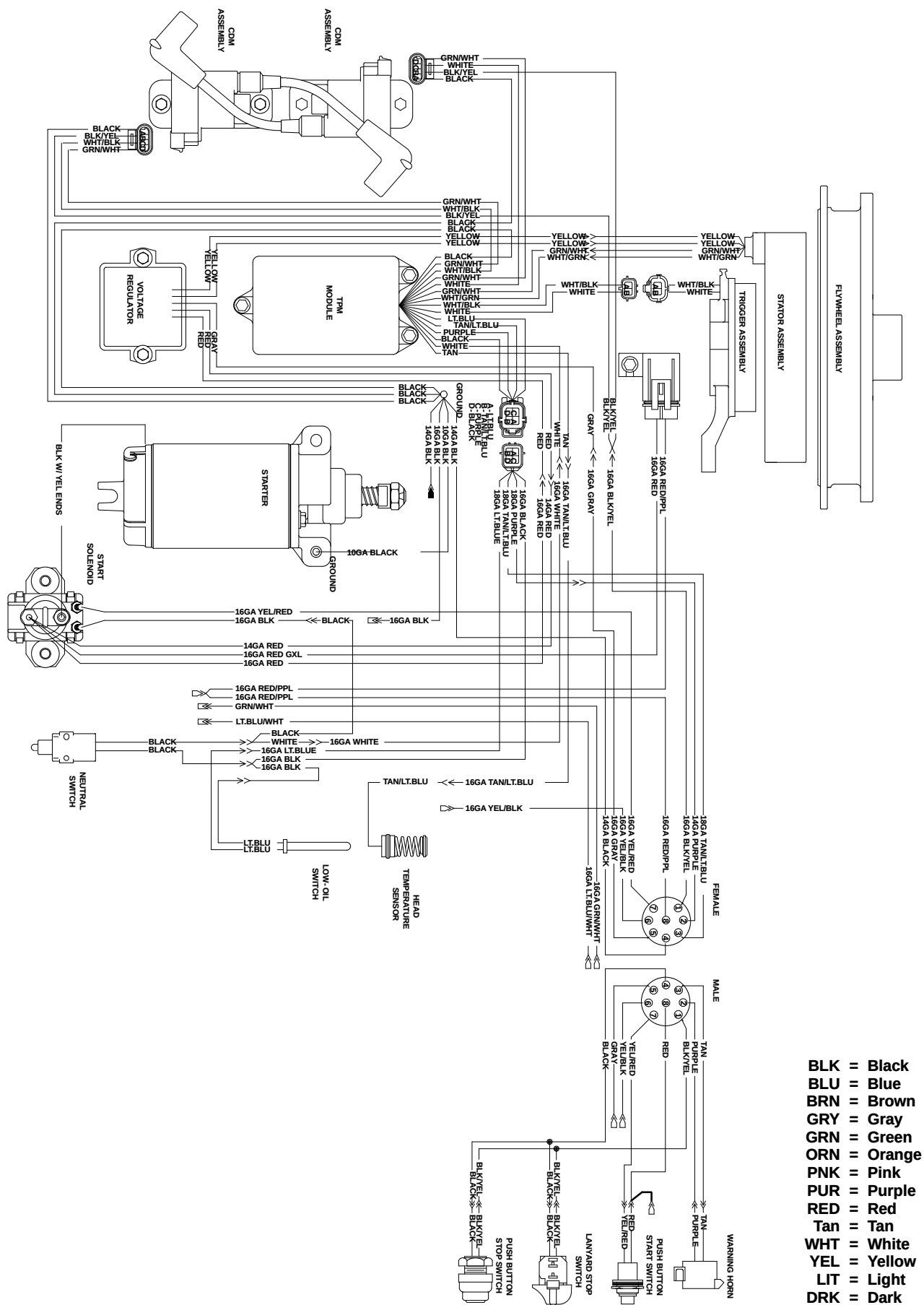
30/40 Electric Start / Tiller Handle Ignition Diagram (S/N 0G380074 & Below)

- 1 - Engine Temperature Sensor
- 2 - Timing and Protection Module (TPM)
- 3 - Trigger
- 4 - Stator
- 5 - Starter
- 6 - Starter Relay
- 7 - 12VDC Battery
- 8 - 20 Ampere Fuse
- 9 - Voltage Regulator
- 10 - Neutral Start Switch
- 11 - Low Oil Switch
- 12 - Engine Harness
- 13 - Capacitor Discharge Module (CDM)
- 14 - Emergency Stop Switch
- 15 - Stop Button
- 16 - Horn
- 17 - Start Button





30/40 Electric Start / Tiller Handle Ignition Diagram (S/N 0G380075 Thru S/N 0G589999)

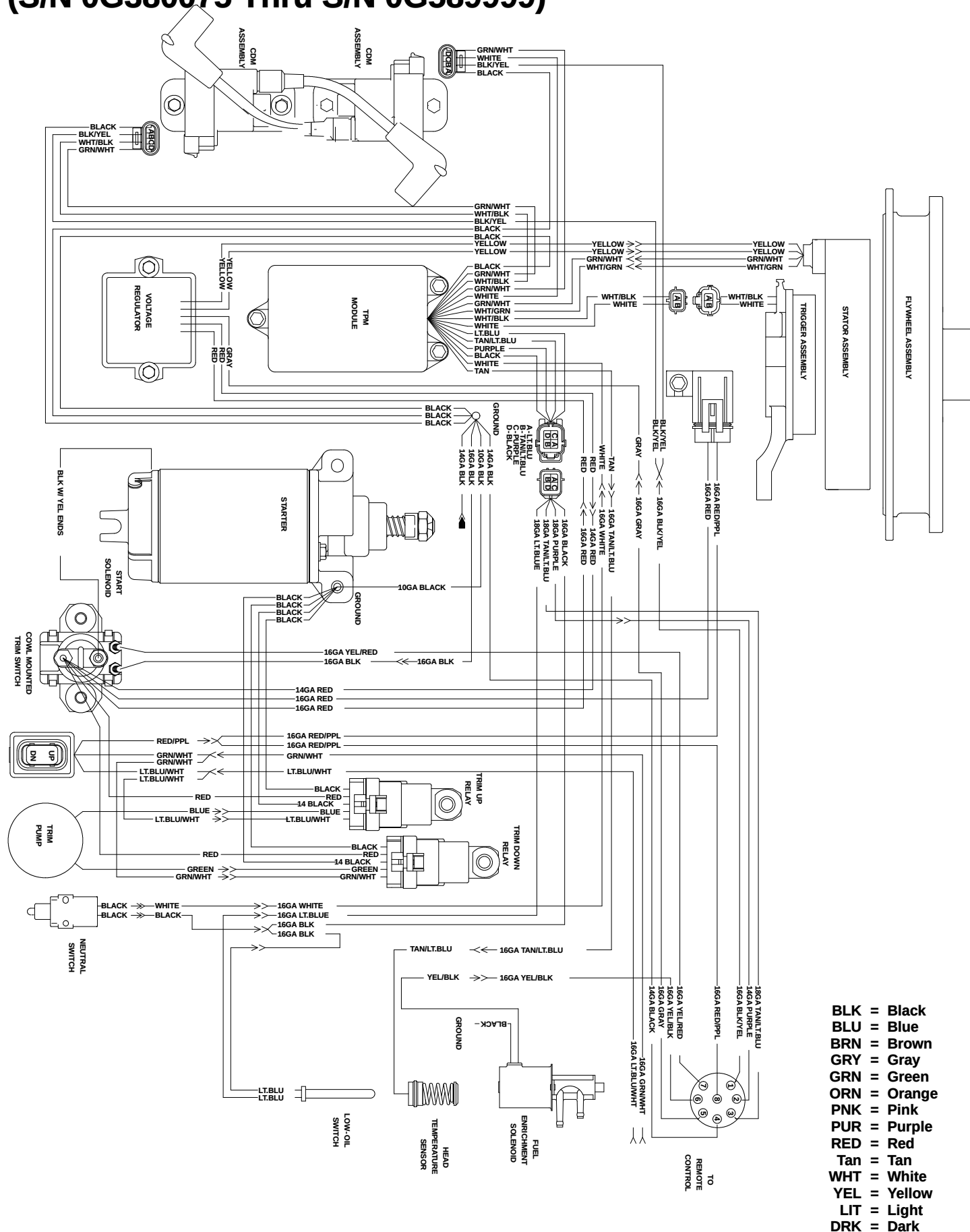




- BLK = Black
BLU = Blue
BRN = Brown
GRY = Gray
GRN = Green
ORN = Orange
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WHT = White
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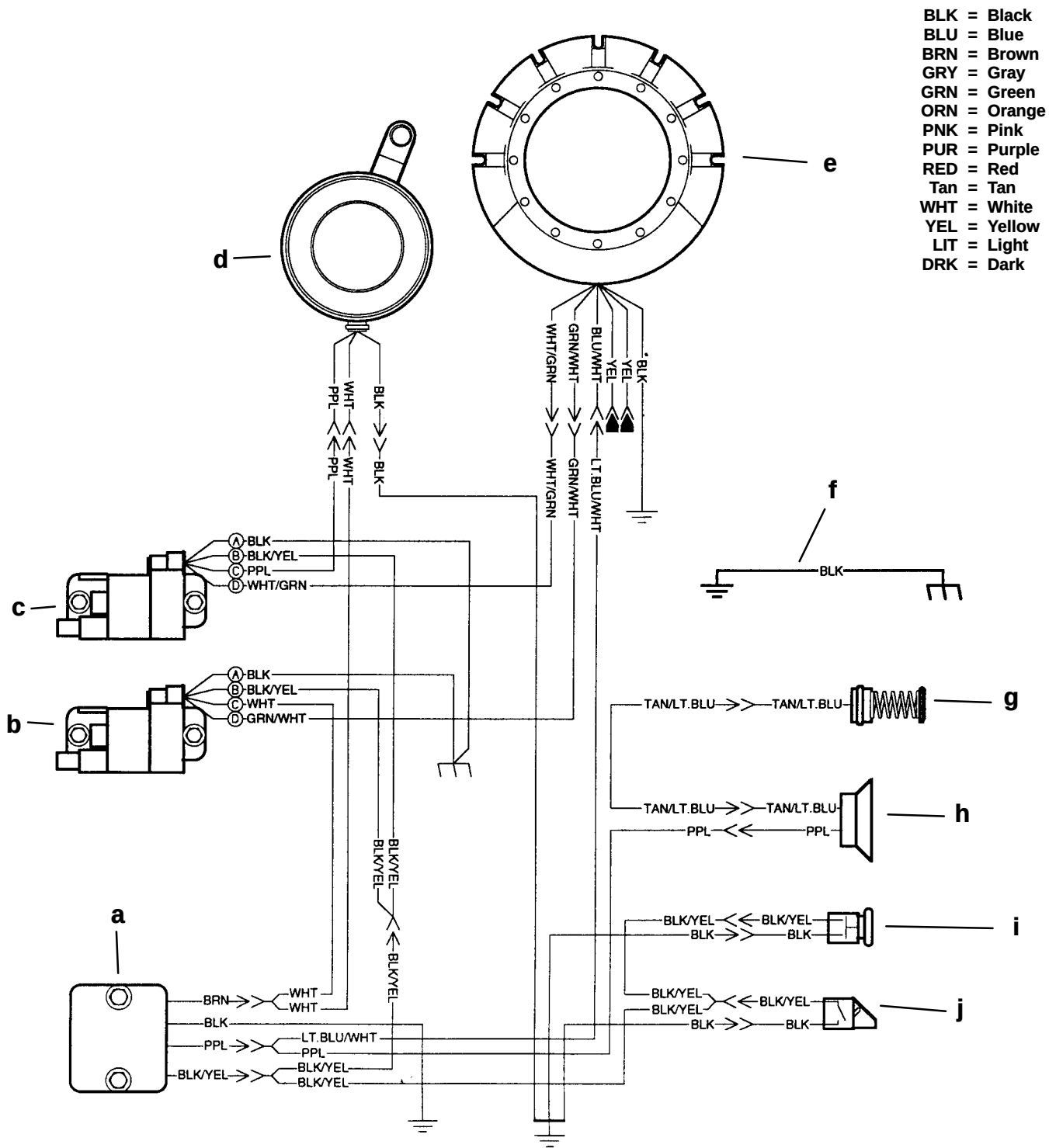


30/40 Electric Start Ignition Diagram (S/N 0G380075 Thru S/N 0G589999)





30/40 Manual Start / Tiller Handle Ignition Diagram (S/N-0G590000 & Above)



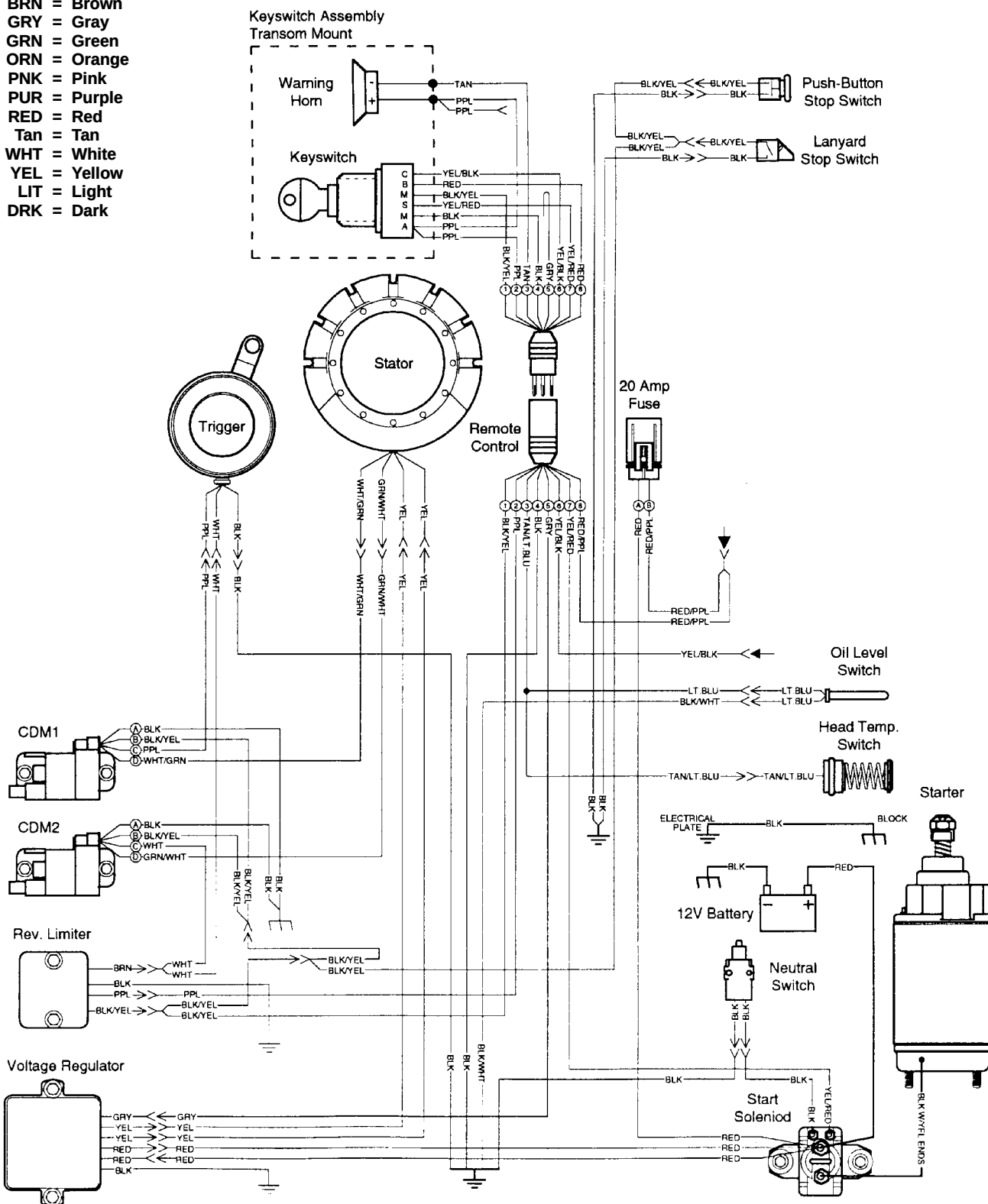
- a - Rev Limiter
- b - CDM 2
- c - CDM 1
- d - Trigger
- e - Stator

- f - Electrical Plate to Block
- g - Temperature Switch
- h - Warning Horn
- i - Push Button Stop Switch
- j - Lanyard Stop Switch



30 Electric Start Tiller Handle Ignition Diagram (S/N-0G590000 & Above)

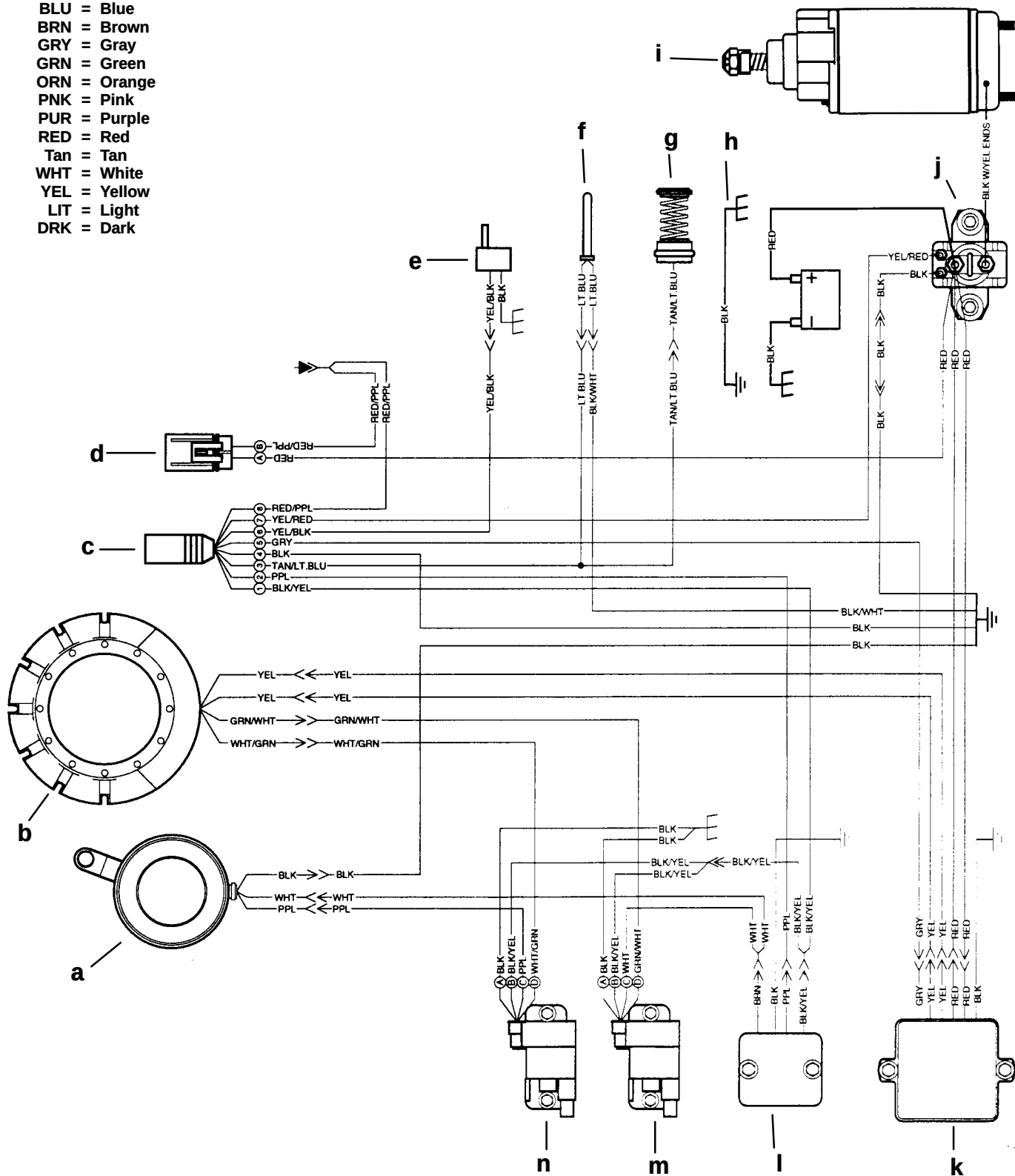
BLK = Black
BLU = Blue
BRN = Brown
GRY = Gray
GRN = Green
ORN = Orange
PNK = Pink
PUR = Purple
RED = Red
Tan = Tan
WHT = White
YEL = Yellow
LIT = Light
DRK = Dark





30/40 Electric Start Ignition Diagram (S/N-0G590000 & Above)

BLK = Black
BLU = Blue
BRN = Brown
GRY = Gray
GRN = Green
ORN = Orange
PNK = Pink
PUR = Purple
RED = Red
Tan = Tan
WHT = White
YEL = Yellow
LIT = Light
DRK = Dark

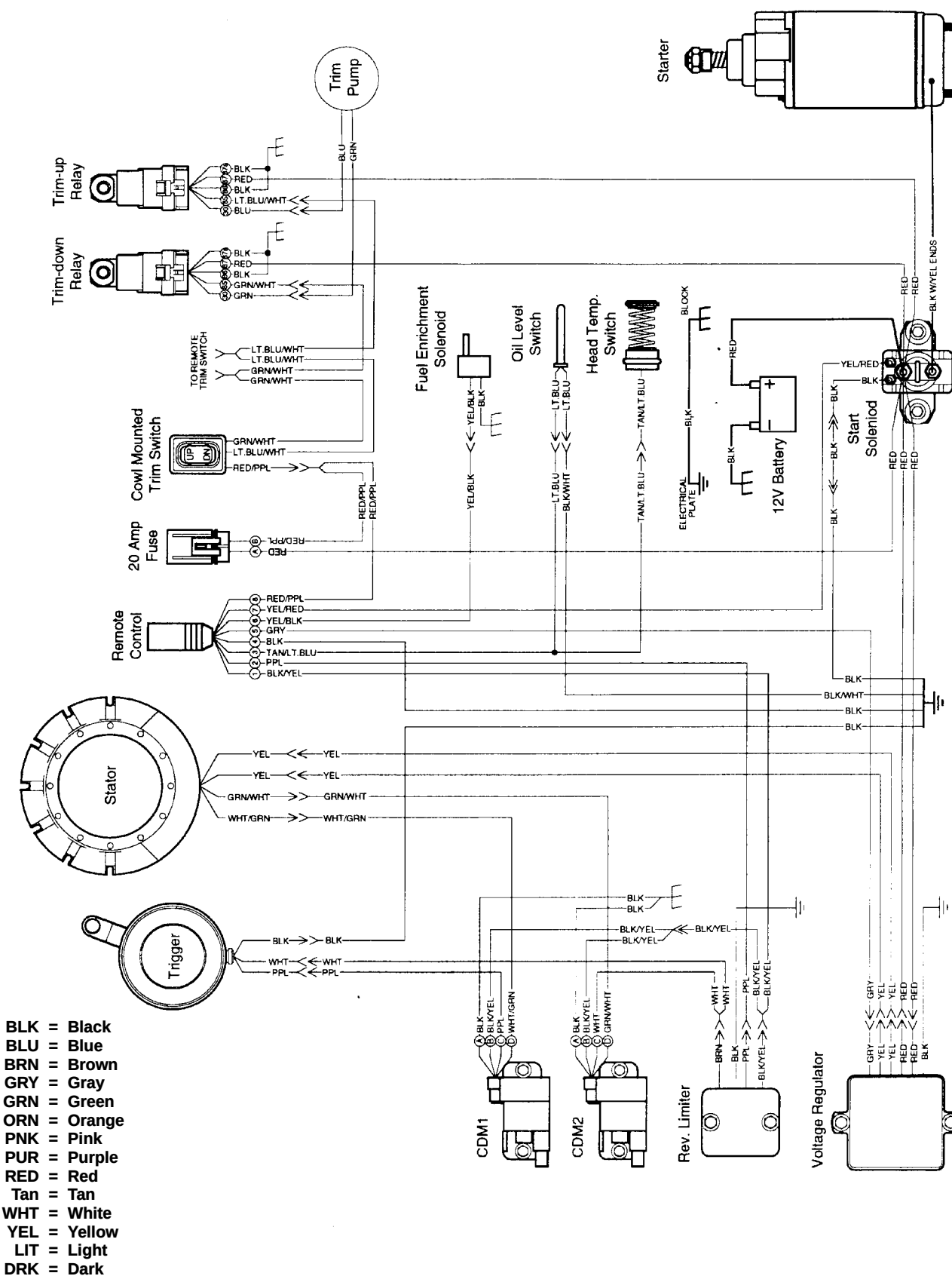


a - Trigger
b - Stator
c - Remote Control
d - 20 Amp Fuse
e - Fuel Enrichment Solenoid
f - Oil Level Switch
g - Head Temperature Switch

h - Electrical Plate To Block
i - Starter
j - Start Solenoid
k - Voltage Regulator
l - Rev. Limiter
m - CDM 2
n - CDM 1



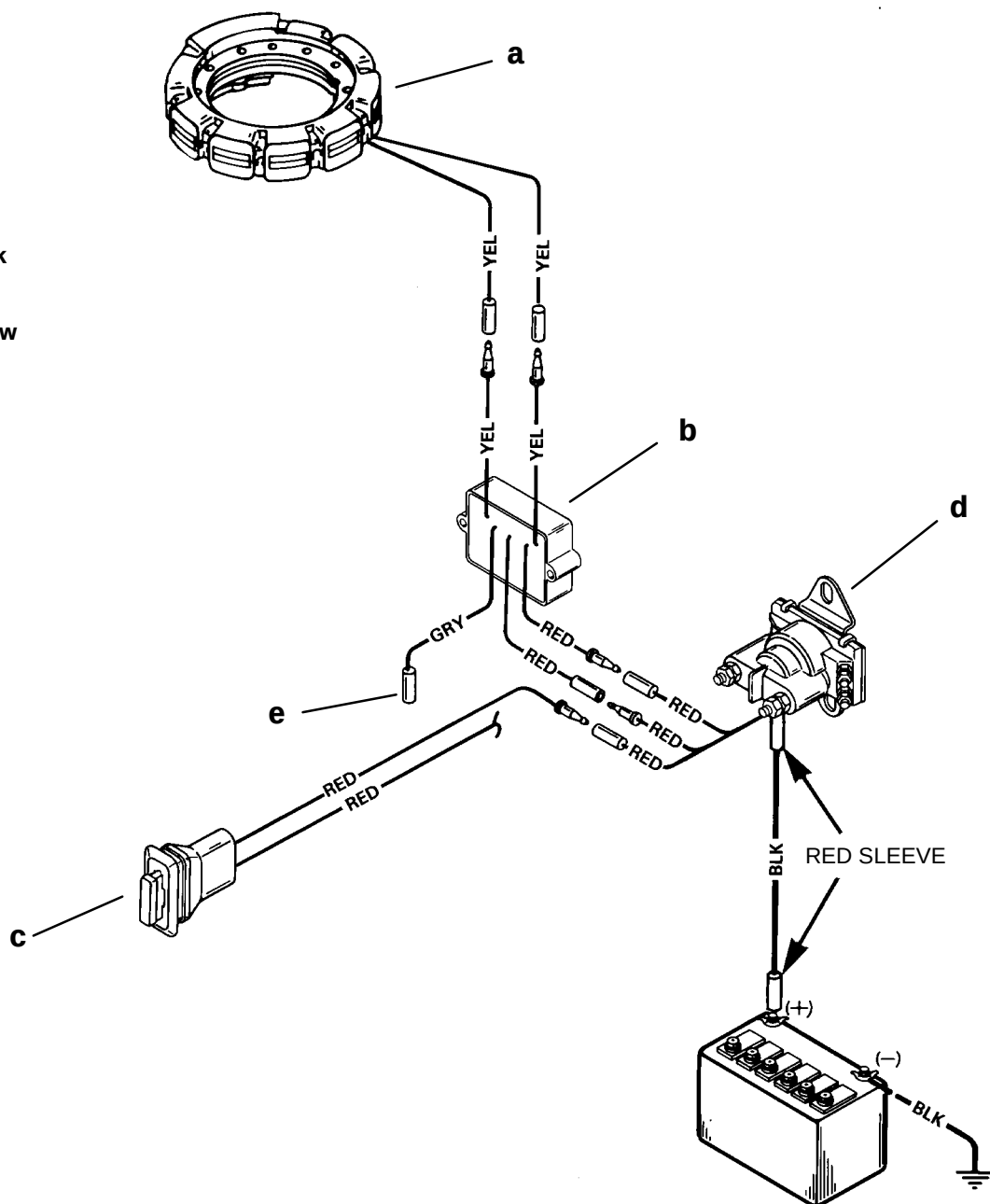
30/40 Electric Start / Power Trim Ignition Diagram (S/N-0G590000 & Above)





14 Ampere Stator Charging Diagram

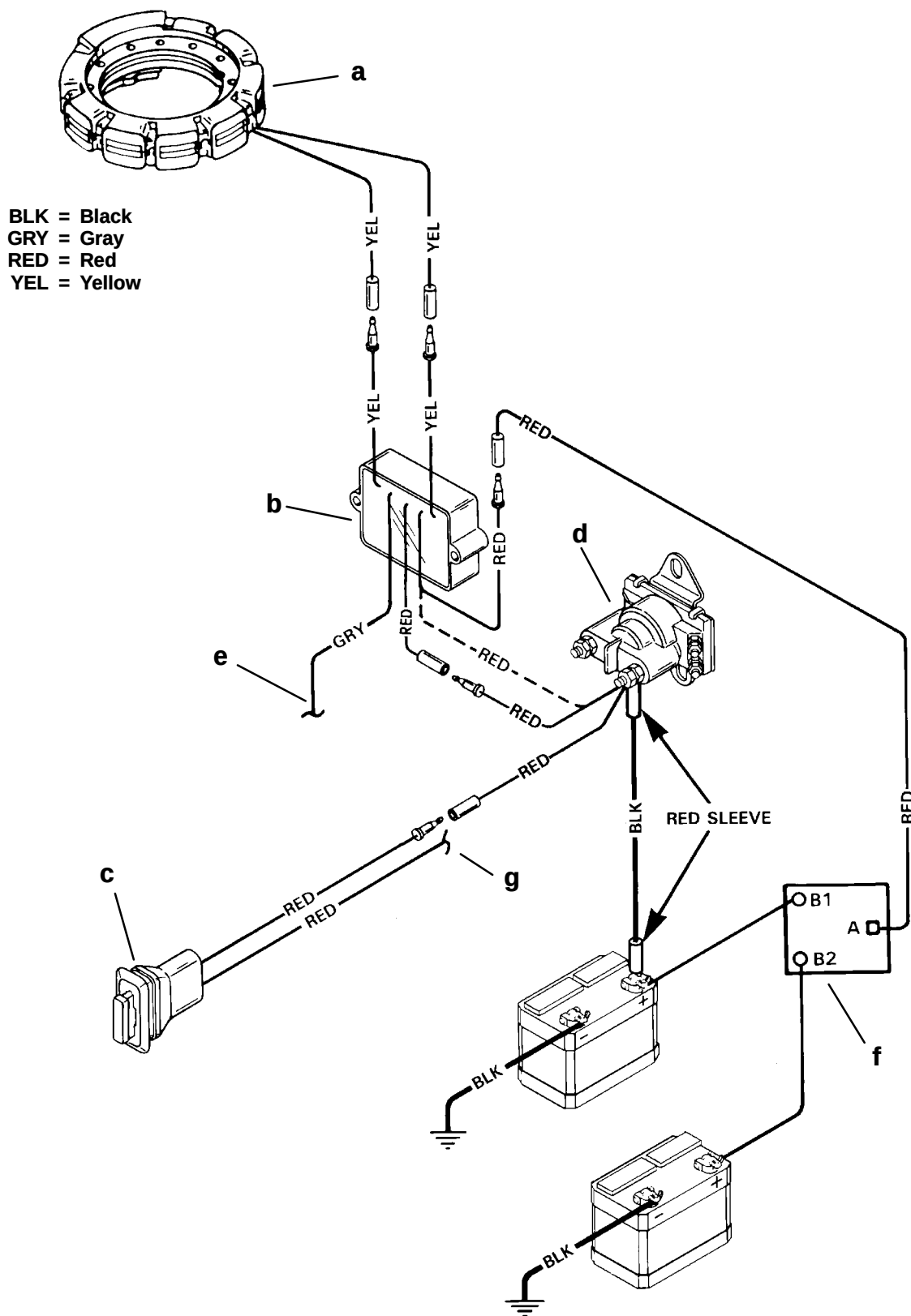
BLK = Black
GRY = Gray
RED = Red
YEL = Yellow



- a - Stator/Alternator Assembly
- b - Voltage Regulator
- c - 20 Amp Fuse
- d - Starter Solenoid
- e - Gray Wire to Tachometer



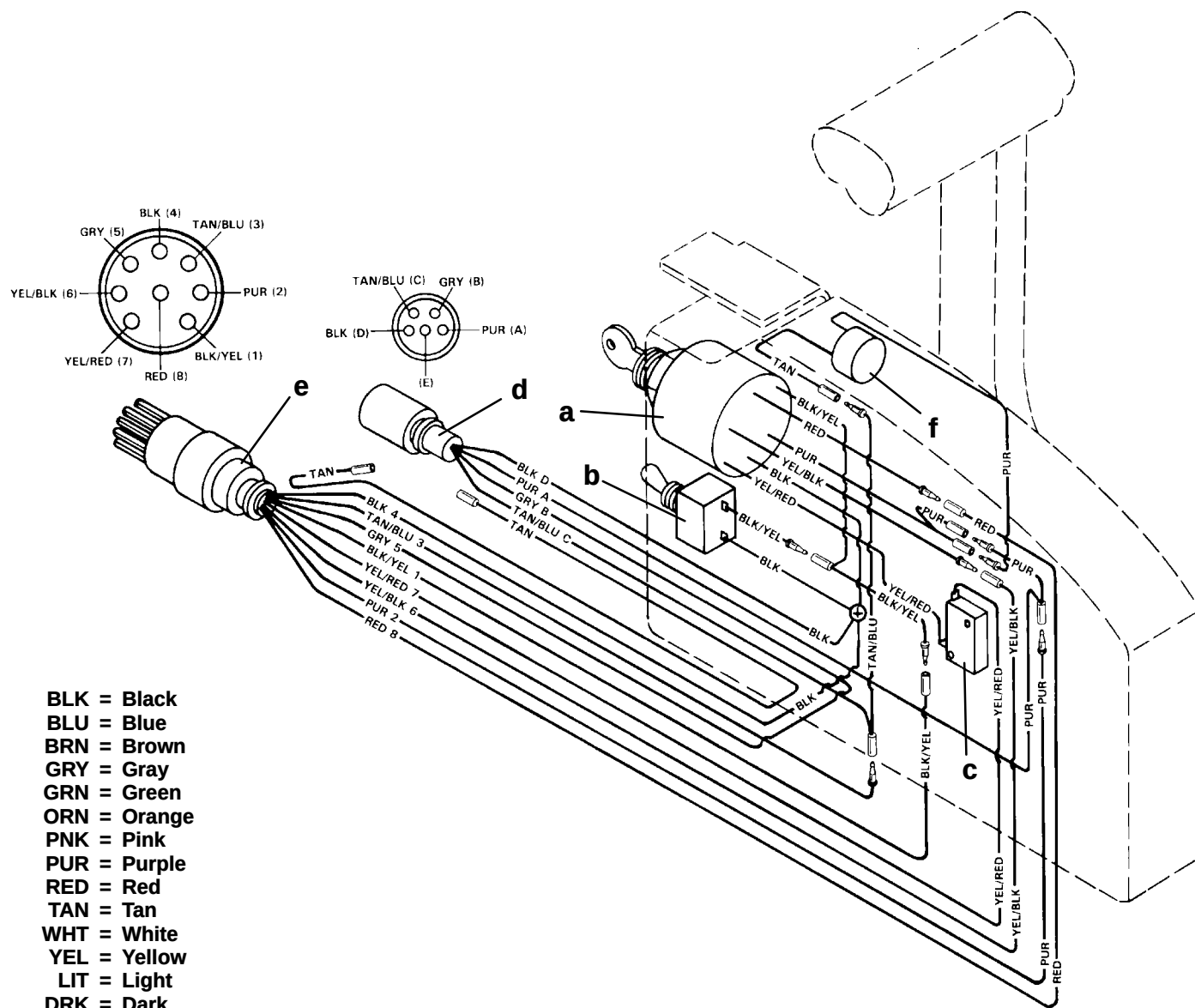
14 Ampere Stator Charging Diagram With Battery Isolator



51930



Commander 2000 Side Mount Remote Control (Electric Start With Warning Horn) Wiring Diagram



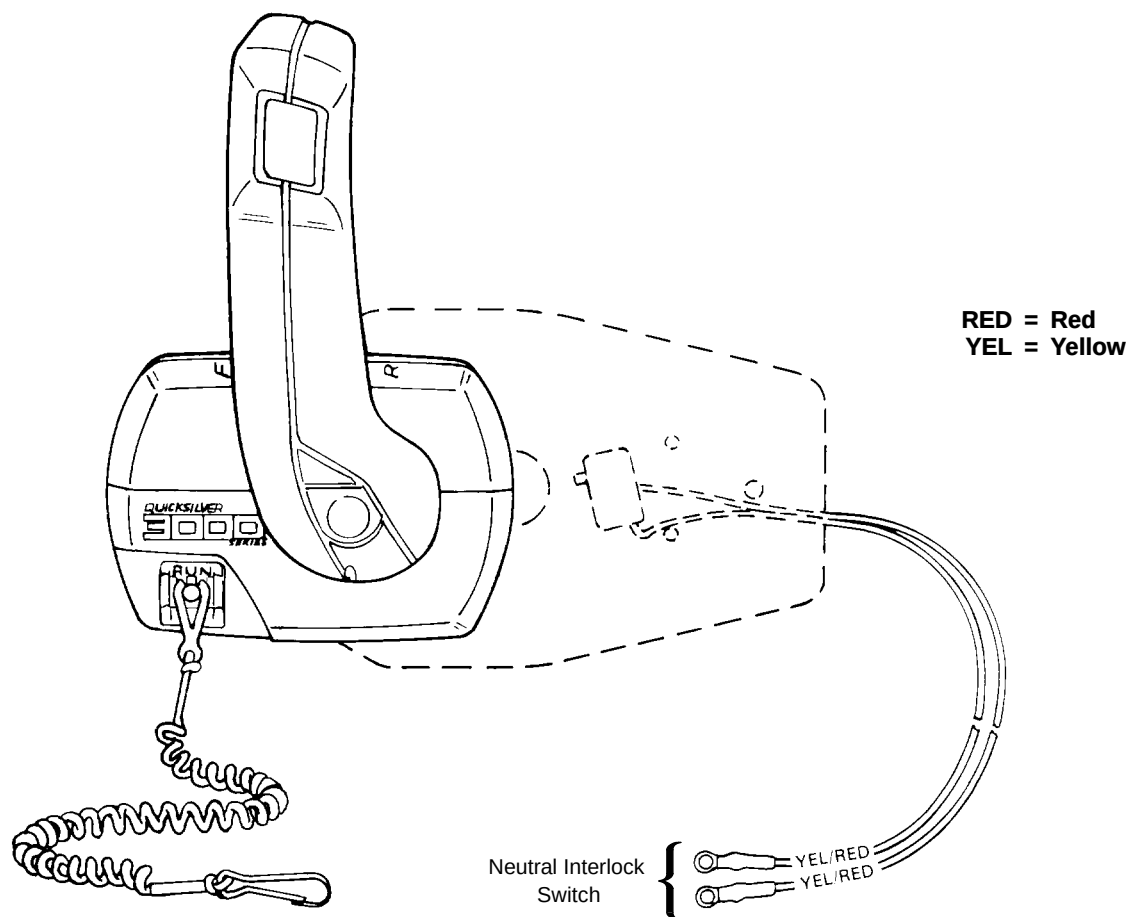
BLK = Black
BLU = Blue
BRN = Brown
GRY = Gray
GRN = Green
ORN = Orange
PNK = Pink
PUR = Purple
RED = Red
TAN = Tan
WHT = White
YEL = Yellow
LIT = Light
DRK = Dark

a - Ignition/Choke Switch
b - Emergency Stop Switch
c - Neutral Start Switch

d - Tachometer/Accessories Harness Connector
e - Wiring Harness Connector
f - Warning Horn



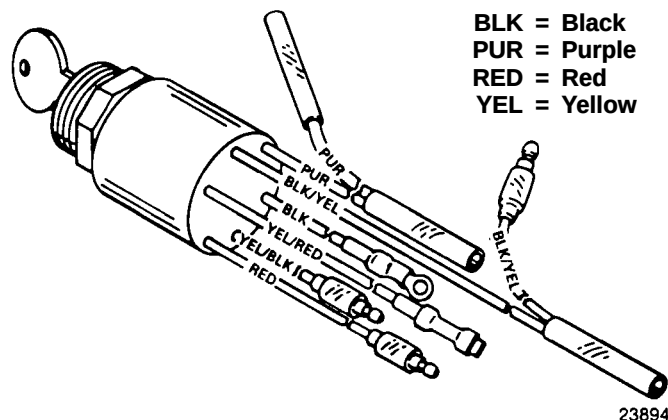
Commander 3000 Panel Mount Control





Commander 2000 Key Switch Test

1. Disconnect remote control wiring harness and instrument panel connector.
2. Set ohmmeter on R x 1 scale for the following tests:



KEY POSITION	CONTINUITY SHOULD BE INDICATED AT THE FOLLOWING POINTS:					
	BLK	BLK/YEL	RED	YEL/RED	PUR	YEL/BLK
OFF	○ --- ○					
RUN			○ --- ○			
START			○ --- ○	○ --- ○		
CHOKE*			○ --- ○		○ --- ○	○ --- ○

***Key switch must be positioned to “RUN” or “START” and key pushed in to actuate choke for this test.**

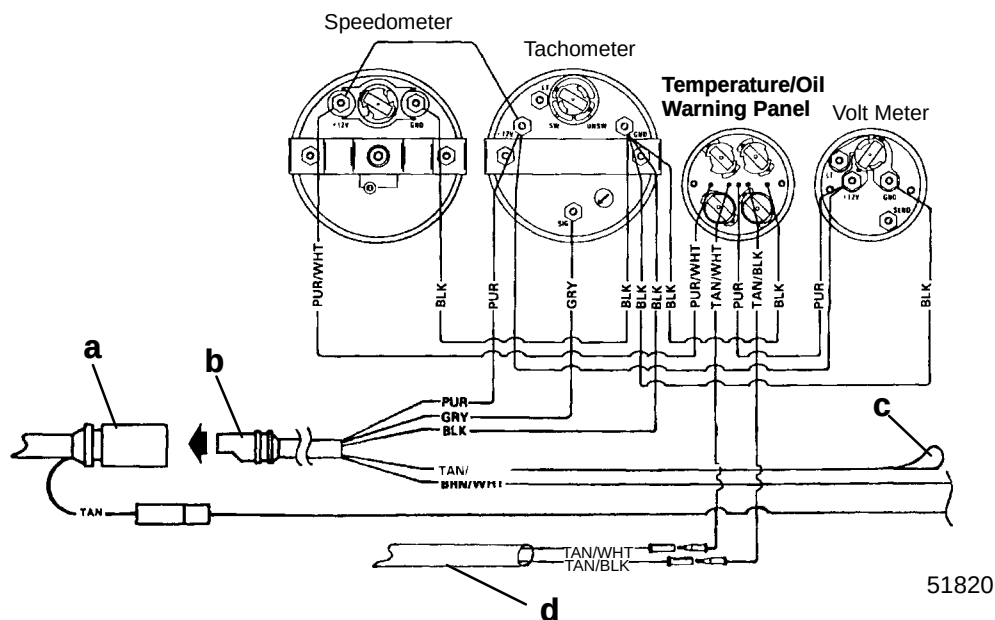
NOTE: If meter readings are other than specified in the preceding tests, verify that switch and not wiring is faulty. If wiring checks ok, replace switch.



Instrument Wiring Connections

Without Light Switch

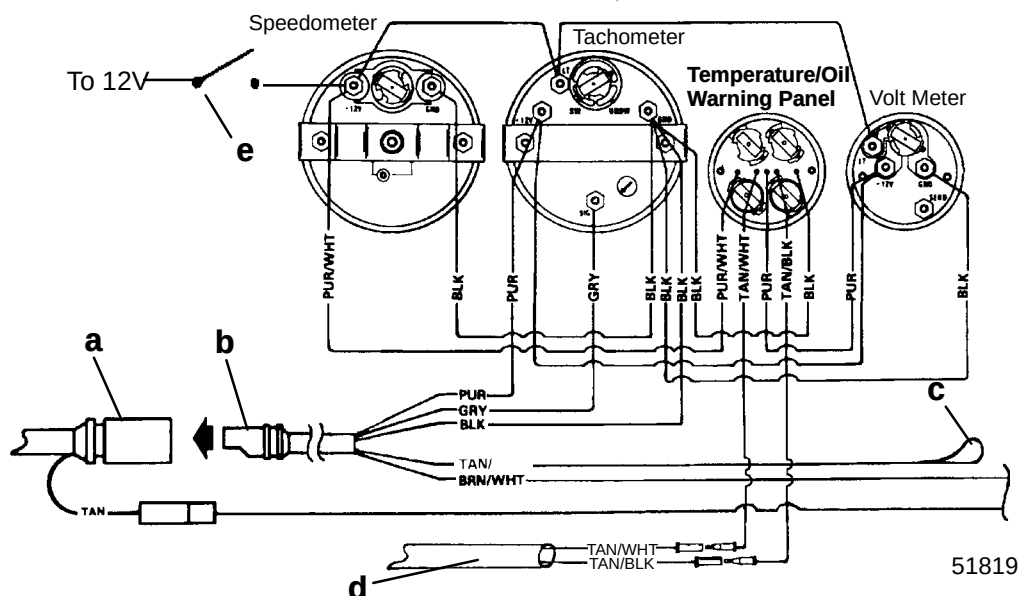
NOTE: ANY INSTRUMENT WIRING HARNESS LEADS NOT USED MUST BE TAPED BACK TO THE HARNESS.



- a - Tachometer Receptacle-From Control Box or Ignition/Choke Switch
- b - Tachometer Wiring Harness
- c - Lead to Optional Visual Warning Kit (Taped Back to Harness)
- d - Cable Extension (For Two Function Warning Panel)
- e - Light Switch

Wire	Where To
BLK=BLACK	GROUND
TAN/WHT=TAN/WHITE	OIL LIGHT
TAN/BLK=TAN/BLACK	TEMPERATURE LIGHT
TAN=TAN	TEMPERATURE GAUGE
PUR=PURPLE	IGNITION 12 VOLT
GRY=GRAY	TACHOMETER
BRN/WHT=BROWN/WHITE	TRIM GAUGE
TAN/BLU=TAN/BLUE	VISUAL WARNING KIT (OPT.)

With Light Switch

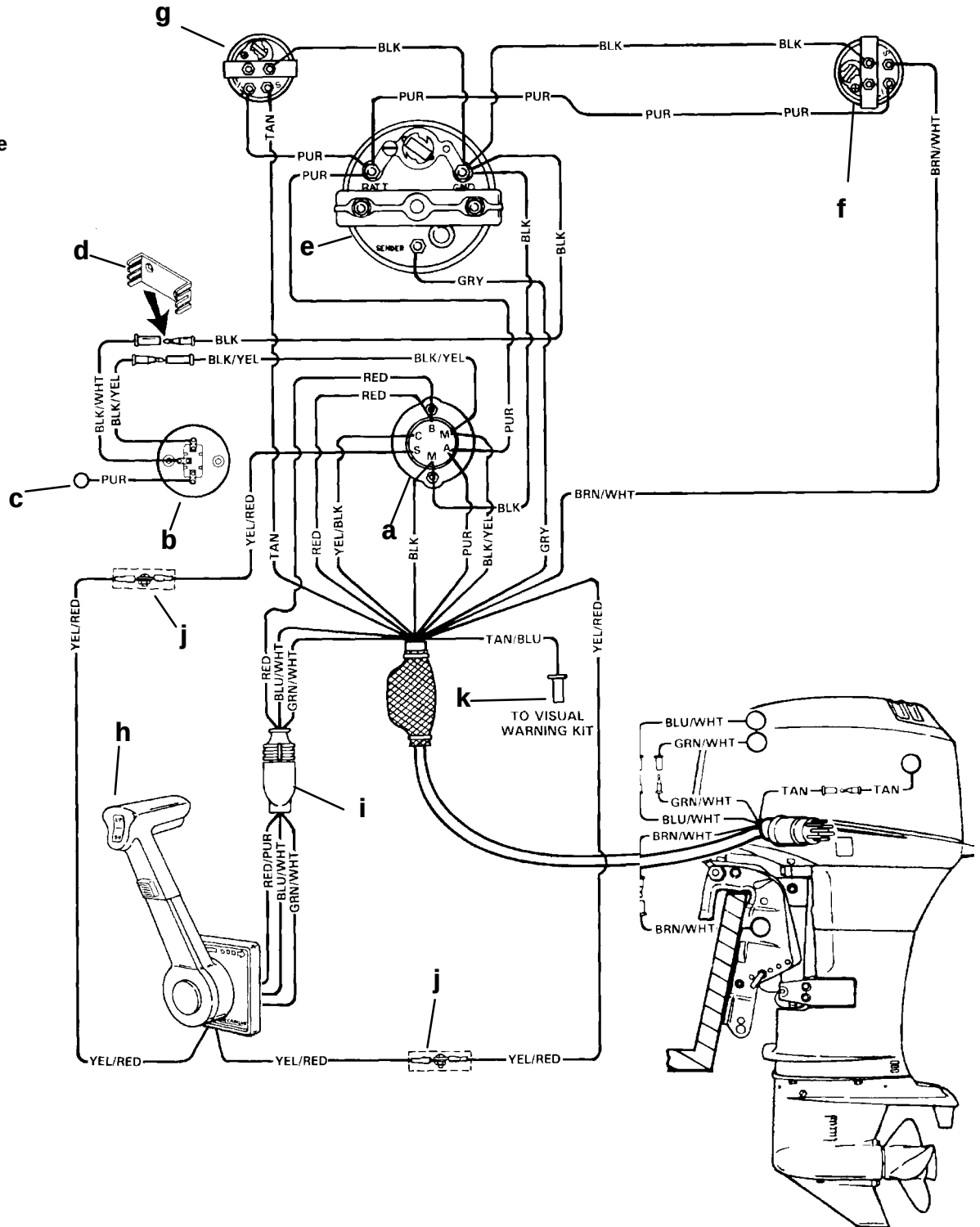




Instrument/Lanyard Stop Switch Wiring Diagram

IMPORTANT: On installations where gauge options will not be used, tape back any unused wiring harness leads.

BLK = Black
BLU = Blue
BRN = Brown
GRY = Gray
GRN = Green
ORN = Orange
PNK = Pink
PUR = Purple
RED = Red
TAN = Tan
WHT = White
YEL = Yellow
LIT = Light
DRK = Dark



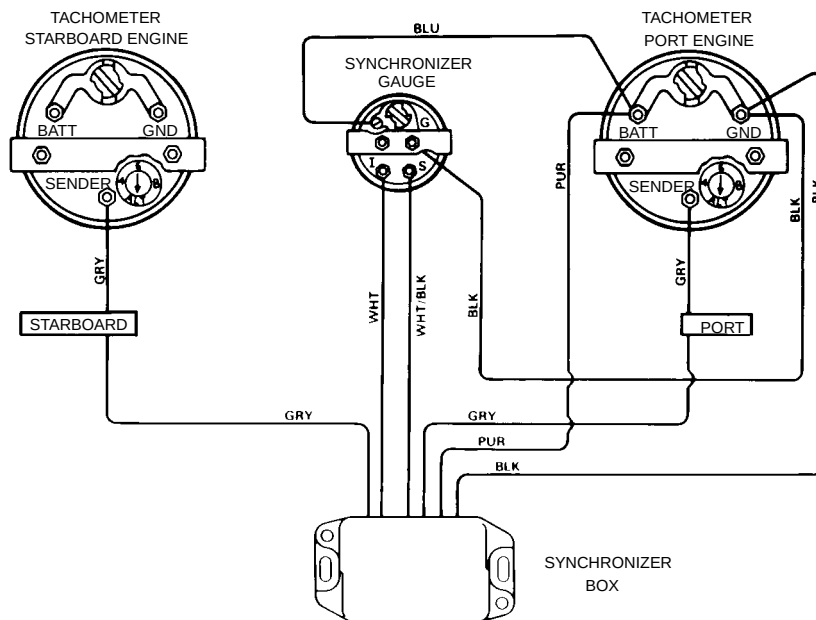
- a - Ignition/Choke Switch
- b - Lanyard Stop Switch
- c - Lead Not Used On Outboard Installations
- d - Retainer
- e - Tachometer
- f - Trim Indicator Gauge (Optional)
- g - Temperature Gauge

- h - Remote Control
- i - Power Trim Harness Connector
- j - Connect Wires Together with Screw and Hex Nut (2 Places); Apply Quicksilver Liquid Neoprene to Connections and Slide Rubber Sleeve over Each Connection
- k - Lead to Optional Visual Warning Kit

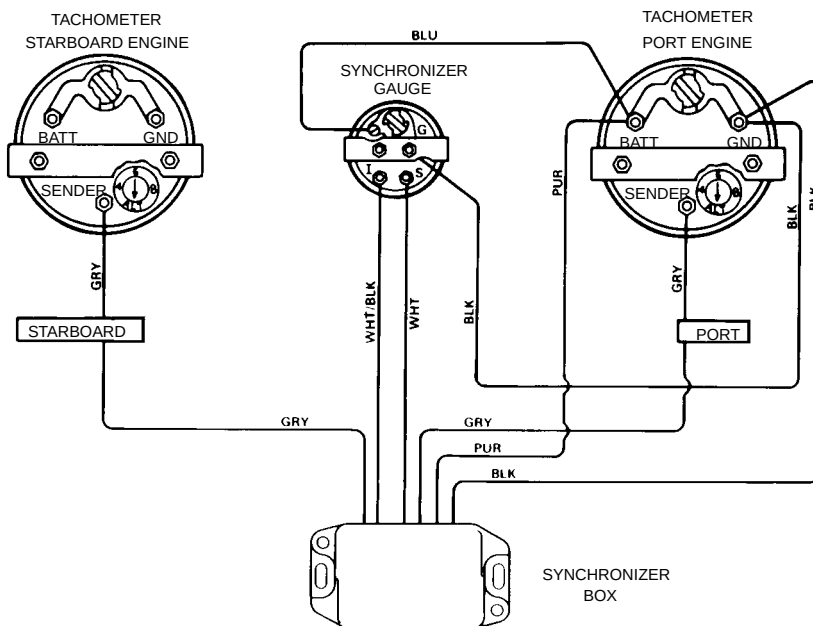


Engine Synchronizer Wiring Diagram-Commander Gauges

1. Wiring Diagram – Gauge needle to point toward slow running engine.



2. Wiring Diagram – Gauge needle to point toward fast running engine.





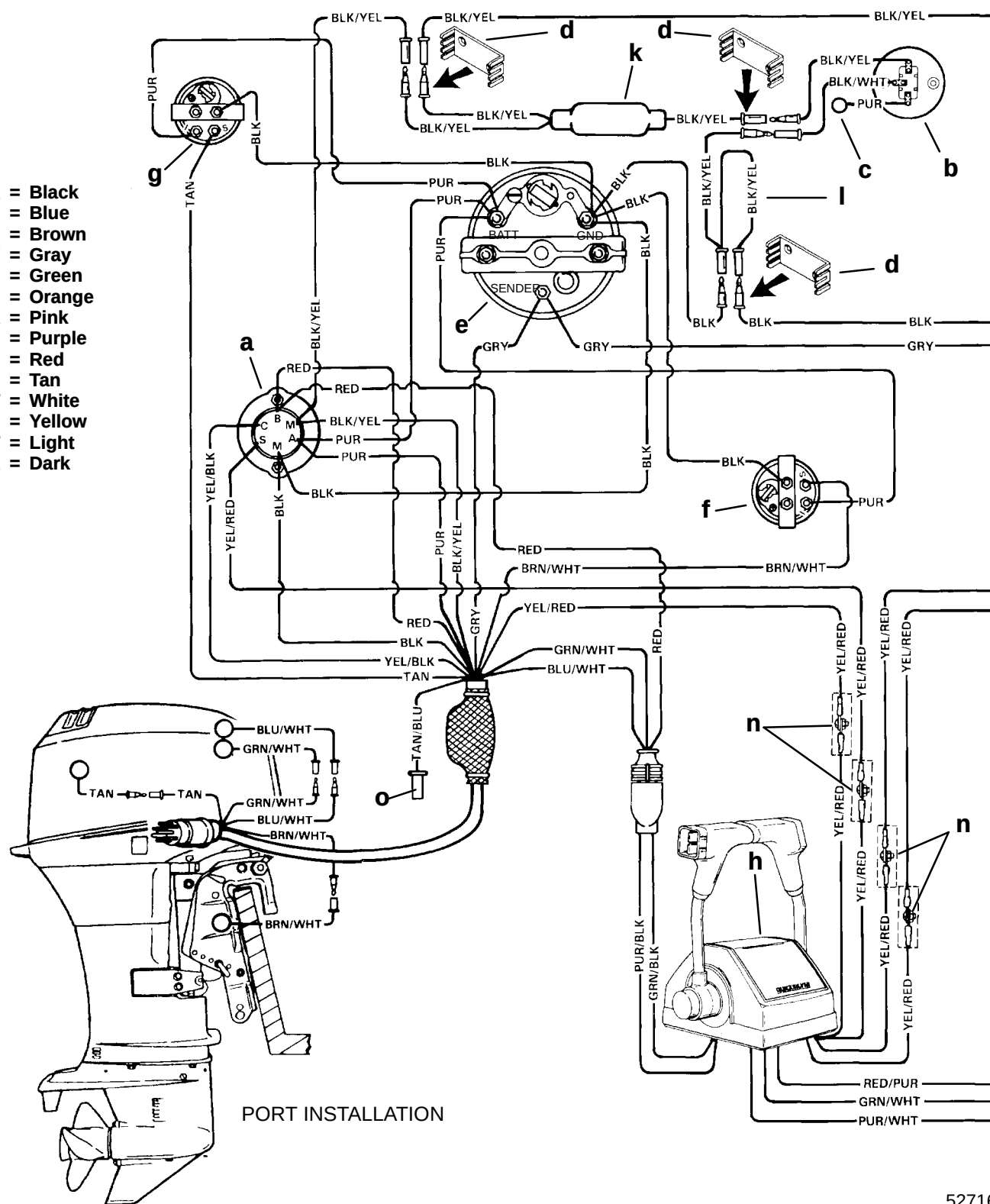
Notes:





Instrument/Lanyard Stop Switch Wiring Diagram (Dual Outboard)

BLK = Black
BLU = Blue
BRN = Brown
GRY = Gray
GRN = Green
ORN = Orange
PNK = Pink
PUR = Purple
RED = Red
TAN = Tan
WHT = White
YEL = Yellow
LIT = Light
DRK = Dark



PORT INSTALLATION

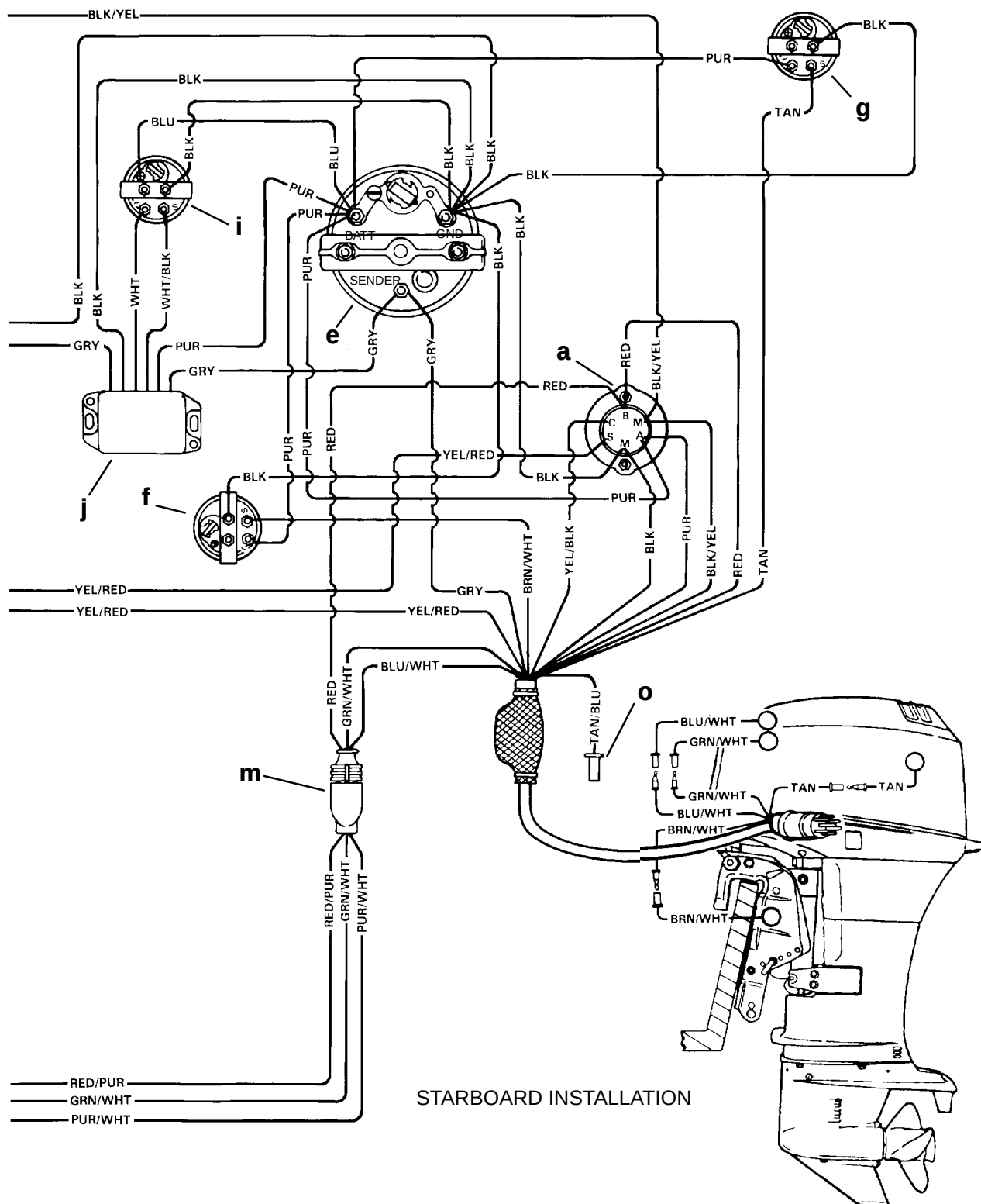
52716

a - Ignition/Choke Switch
b - Lanyard Stop Switch
c - Lead Not Used on Outboard Installations
d - Retainer
e - Tachometer

f - Trim Indicator Gauge
g - Temperature Gauge
h - Remote Control
i - Synchronizer Gauge
j - Synchronizer Box



IMPORTANT: On installations where gauge options will not be used, tape back and isolate any unused wiring harness leads.



52654

k - Lanyard/Diode
l - "Y" Harness
m - Power Trim Harness Connector

n - Connect Wires Together with Screw and Hex Nut (4 Places); Apply Quicksilver Liquid Neoprene to Connections and Slide Rubber Sleeve over Each Connection.
o - Lead to Visual Warning Kit



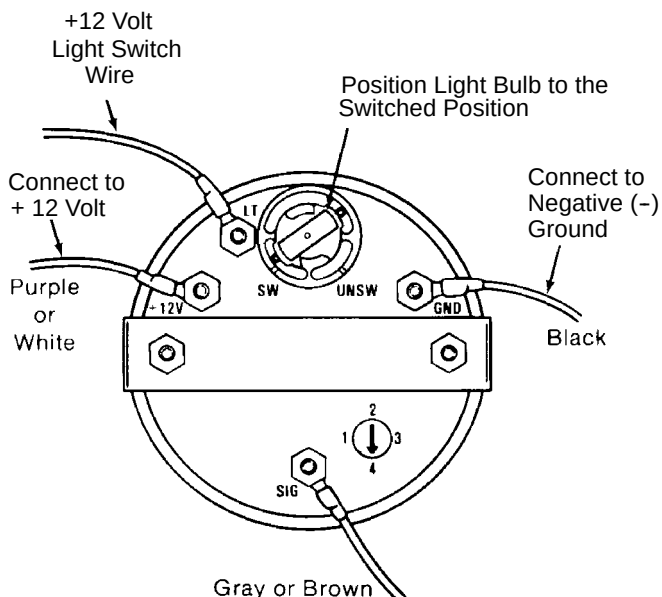
QSI Gauge Wiring Diagrams

Tachometer Wiring Diagram

Tachometer dial on back side of case must be set to position number 4.

WIRING DIAGRAM A

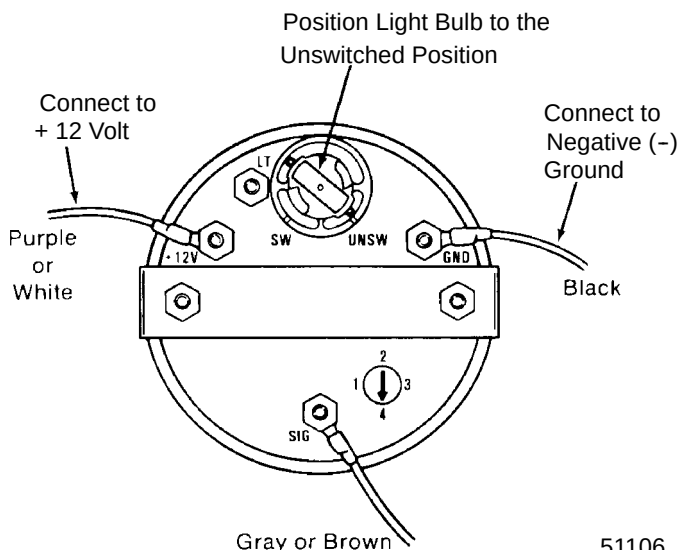
Use this wiring diagram when using a separate light switch for instrument lighting.



51106

WIRING DIAGRAM B

Use this wiring diagram when instrument lighting is wired directly to the ignition key switch. (Instrument lights are on when ignition key switch is turned on.)

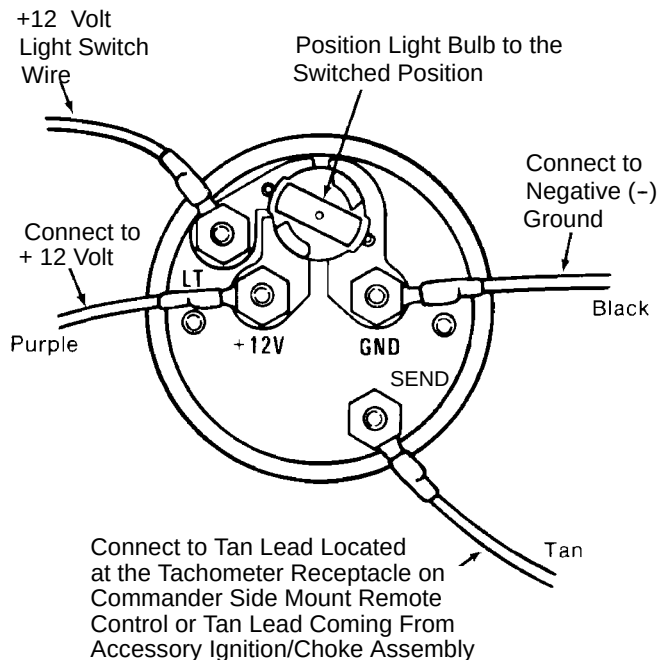


51106

Water Temperature Gauge

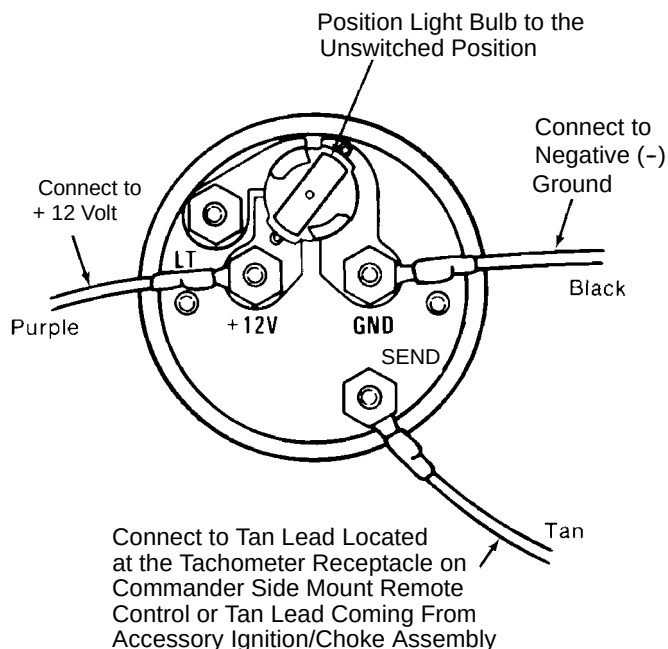
WIRING DIAGRAM A

Use this wiring diagram when using a separate light switch for instrument lighting.



WIRING DIAGRAM B

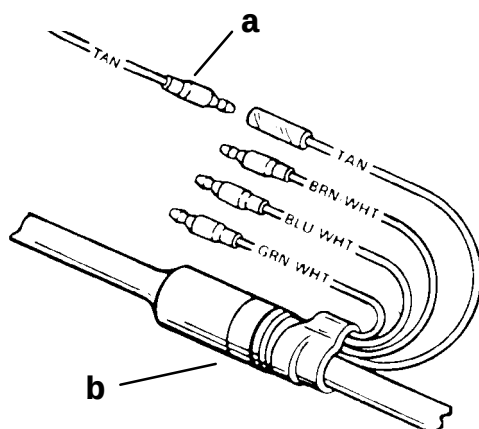
Use this wiring diagram when instrument lighting is wired directly to the ignition key switch. (Instrument lights are on when ignition key is turned on.)



51105

Route TAN lead on starboard side of engine to engine/remote control harness. Connect as shown.

IMPORTANT: Tape back and isolate any unused wiring harness leads.



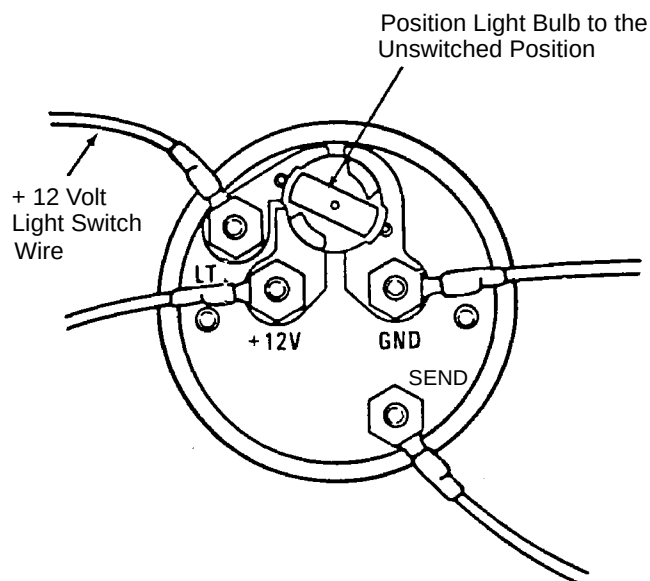
28086

- a - Lead from Temperature Sender
b - Engine/Remote Control Harness

Engine Synchronizer Wiring Diagram

LIGHT BULB POSITION A

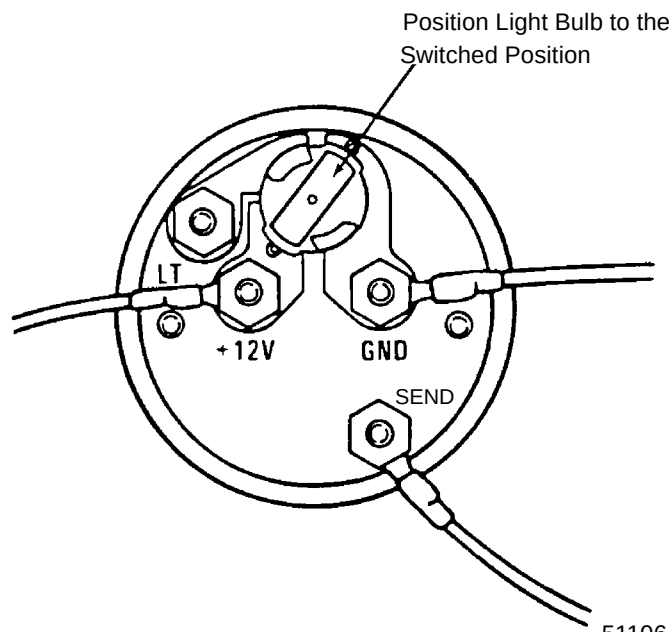
Use this position when using a separate light switch for instrument lighting.



51105

LIGHT BULB POSITION B

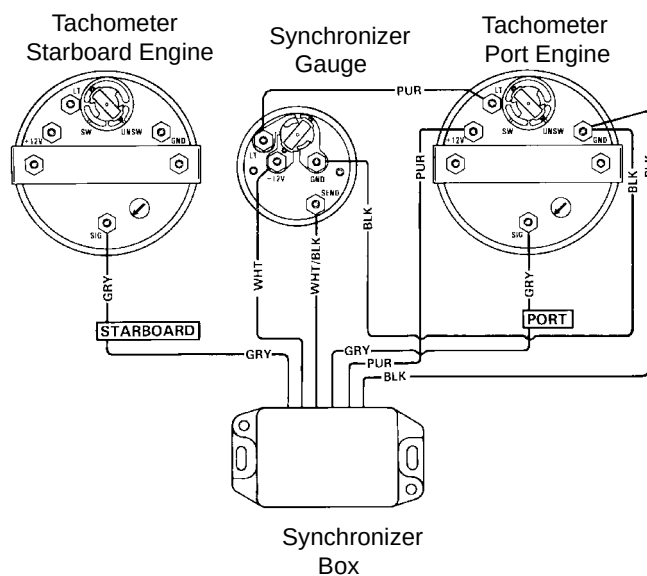
Use this position when instrument lighting is wired directly to the ignition key switch. (Instrument lights are on when ignition key switch is turned on.)



51106

Synchronizer wiring can be accomplished two different ways as an option to the user.

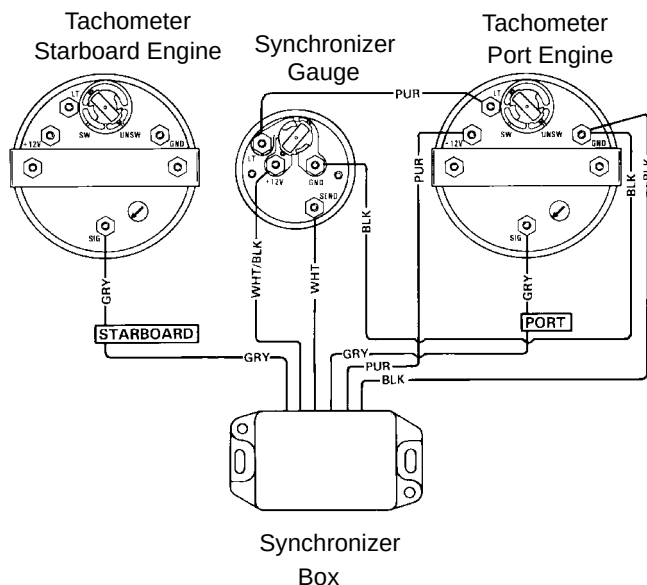
Wiring Diagram - Gauge needle to point toward slow running engine



52566



Wiring Diagram - Gauge needle to point toward fast running engine



52565

CLEANING GAUGES

Clean gauge by washing with fresh water to remove sand and salt deposits. Wipe off with a soft cloth moistened with water. The gauge may be scored or damaged if wiped with abrasive material (sand, saline or detergent compounds, etc.) or washed with solvents such as trichloroethylene, turpentine, etc.