

FIGURE 42

ENGINE AND FUEL TANK MOUNTING

PART No.	QTY.	PART DESCRIPTION	NOTE	PROCESS REF.
F120	1	Strap Fuel Tank		
F119	1	Strap Fuel Tank		
F270	2	Bracket Fuel Tank Strap		
E101	2	Bearer Engine		
E102	2	Strut Engine		
E108	1	Rear Engine Plate		
SE102	1	Front Engine Plate		
E110	1	Thrust Bar		
E111	1	Thrust Bar		
SE101	1	Anti Torque Tube		

FUEL TANK FITTING

Position fuel tank onto hull, drill (2) 3/16" holes through feet and attach.

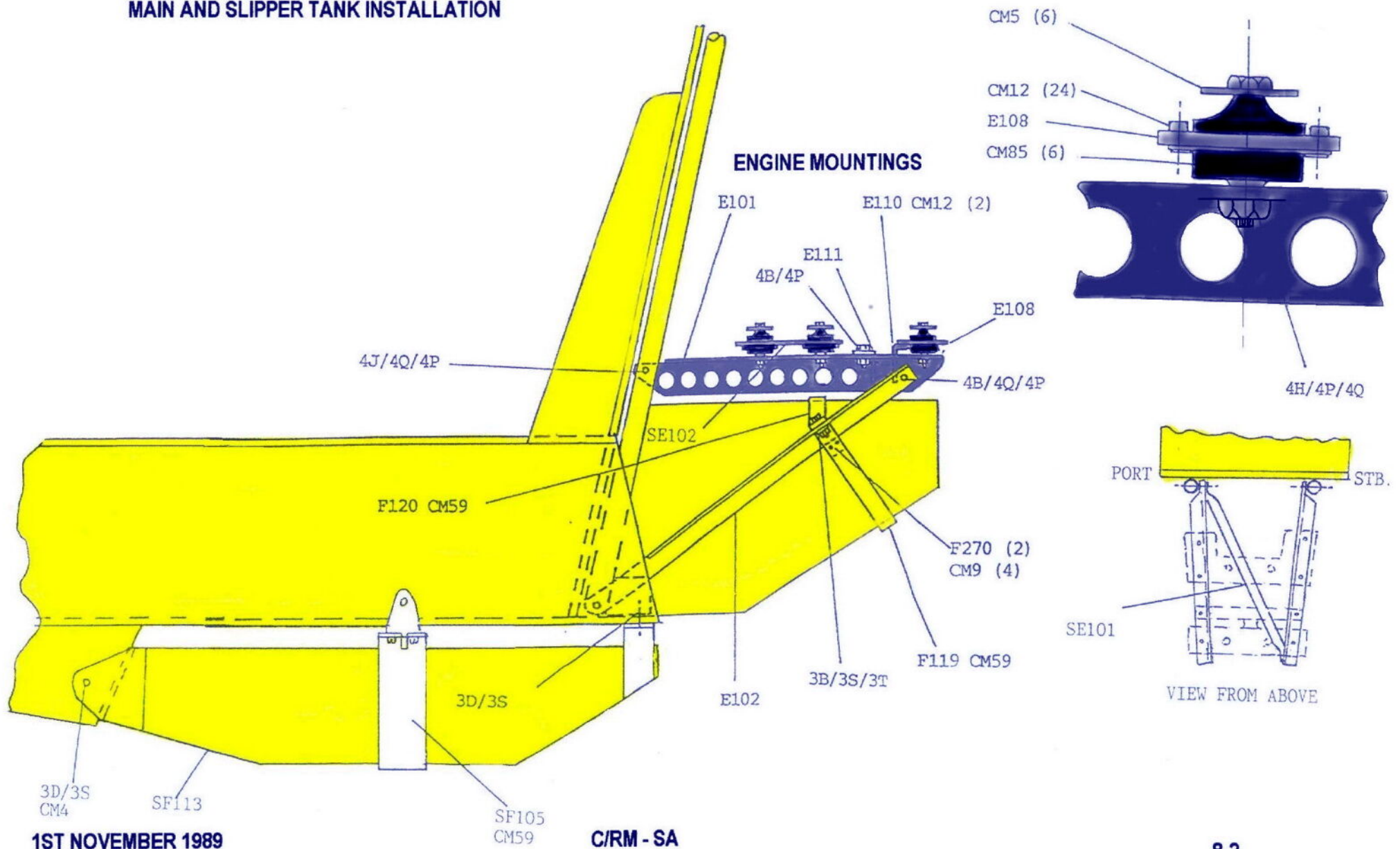
Fit top strap F120 and position to the point where it is snug and drill through F120 and E102.

Fit the two brackets, F270, and bolt together F120, E102 and F270.

Present strap F119 to assembly and when the fuel tank is comfortably retained by the straps without excess pressure, mark parts F119 with a felt pen, remove and drill and rivet (3 each side) the strap to F270.

FIGURE 42

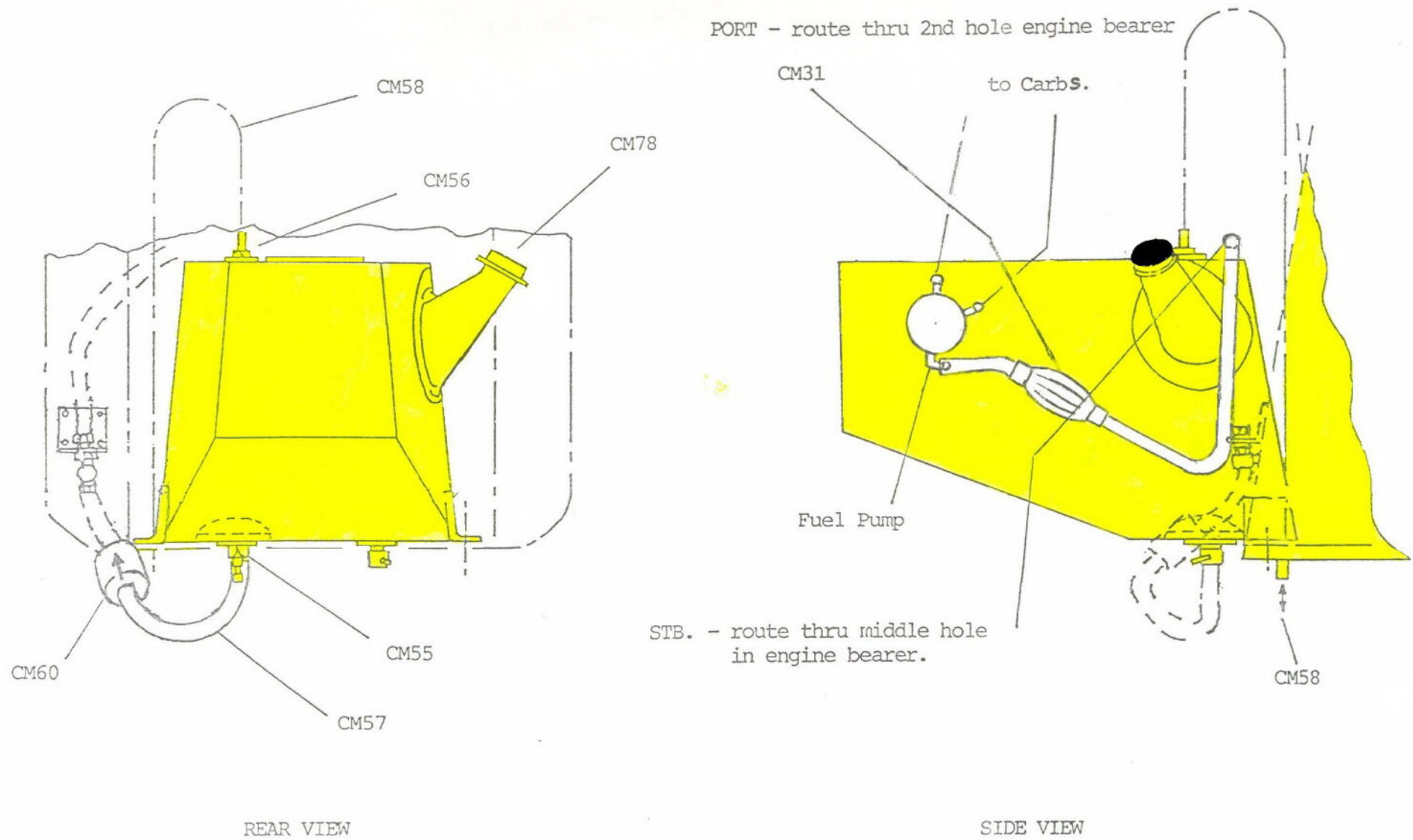
# MAIN AND SLIPPER TANK INSTALLATION



1ST NOVEMBER 1989

C/RM - SA

FIGURE 42



# FUEL SYSTEM SCHEMATIC

FIGURE 42

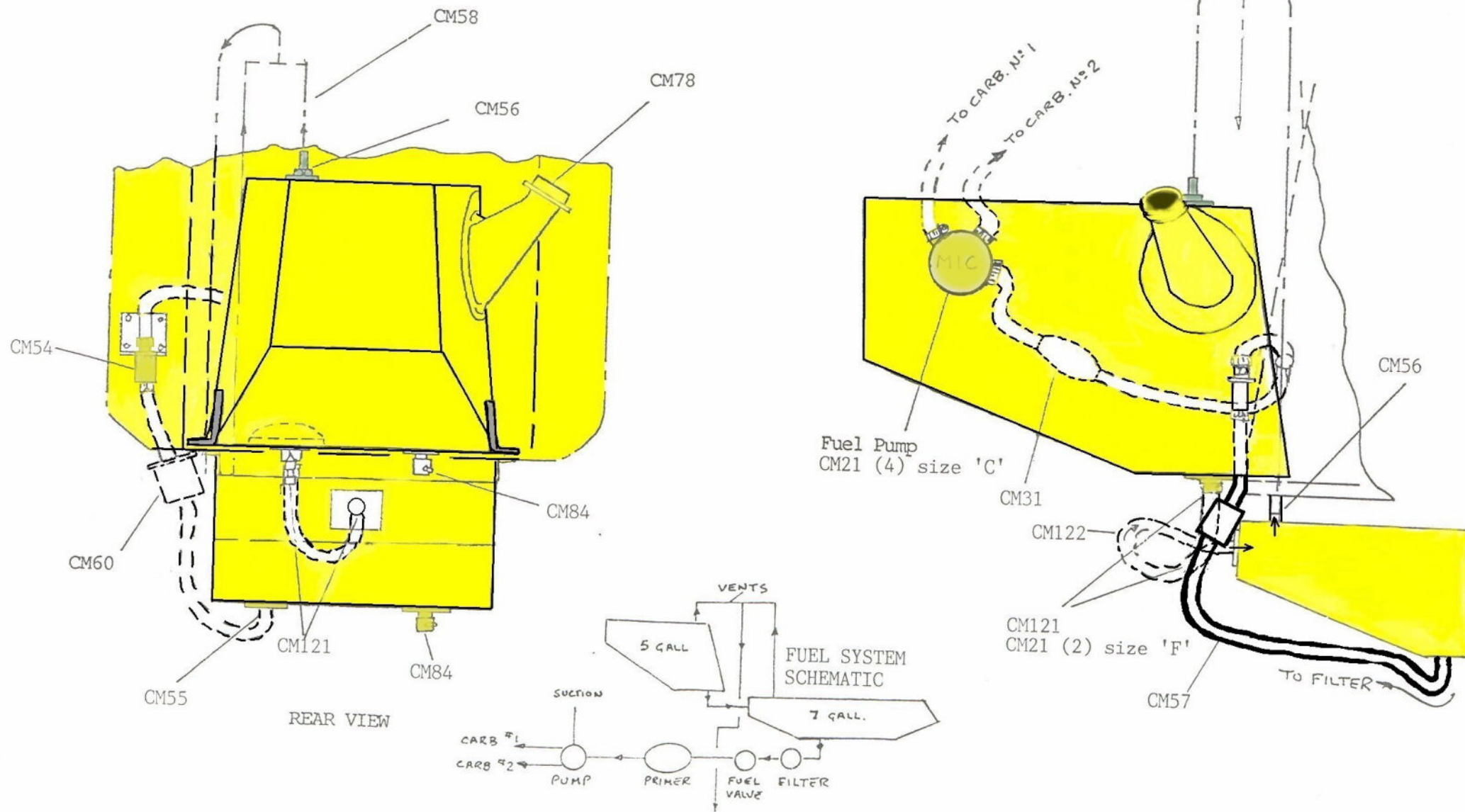




FIGURE 43

ENGINE AND FUEL TANK MOUNTING

PART No.	QTY.	PART DESCRIPTION	NOTE	PROCESS REF.
E100	2	Spacer - Fuel Pump		
SE104	1	Exhaust Bracket		

Fitting the engine is straight forward. Place the engine on the bearers and LOCTITE - PROCESS SHEET No. 4.1, the (4) M10 nuts and spring washers to the mounting nuts to secure.

Add the exhaust system and intake system.

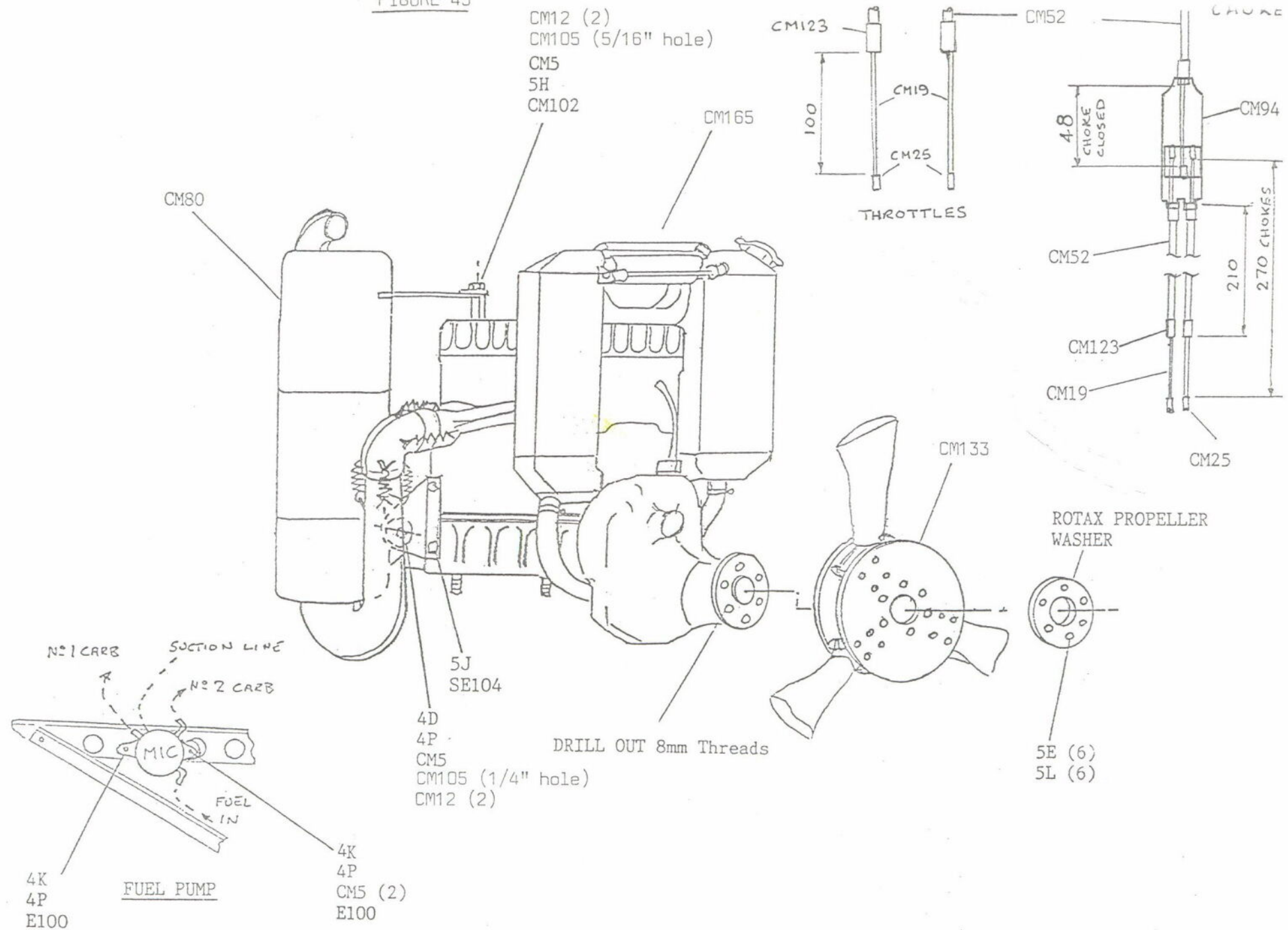
The fuel pump is remotely mounted. The centre outlet on the fuel pump is connected to the engine crankcase impulse nipple for suction. Note that in the fuel line, the in-line filter (CM60) is positioned before the primer bulb (CM31).

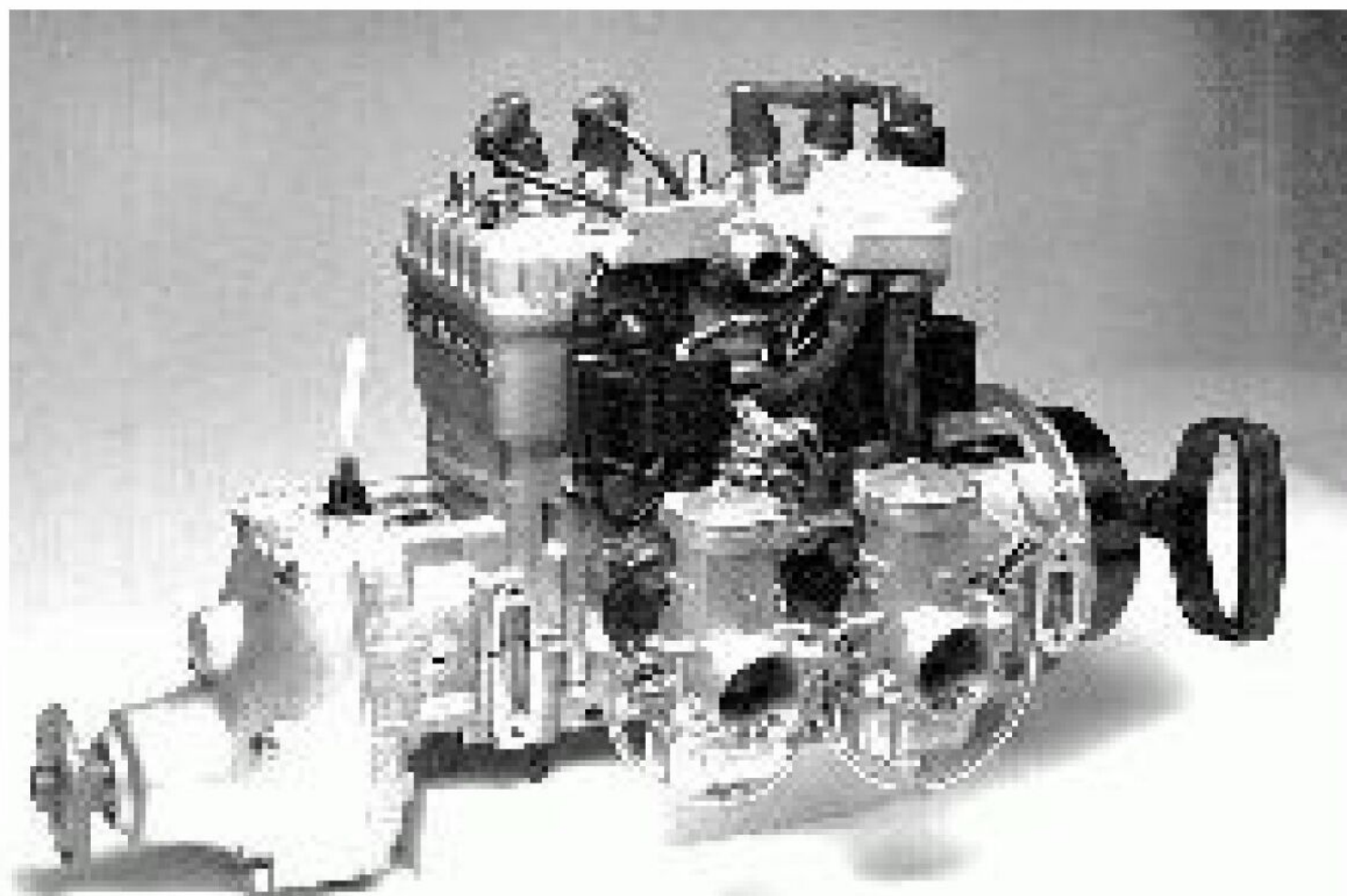
Attach the four solder nipples (CM25) to the throttle slide and choke system. Adjust these so that at least 2mm of play is present at the carburettor end when in the open position.

Mount the propeller and check TRACK which should be within  $\pm 2$ mm. Bolts should be evenly torqued to 10 FT/LBS.

Lockwire all exhaust springs, gear box breather, gearbox level screws and gearbox drain (after the gearbox has been filled with oil).

FIGURE 45





**ROTAX 582 WITH 'B' GEARBOX**

# SHADOW D - SERIES

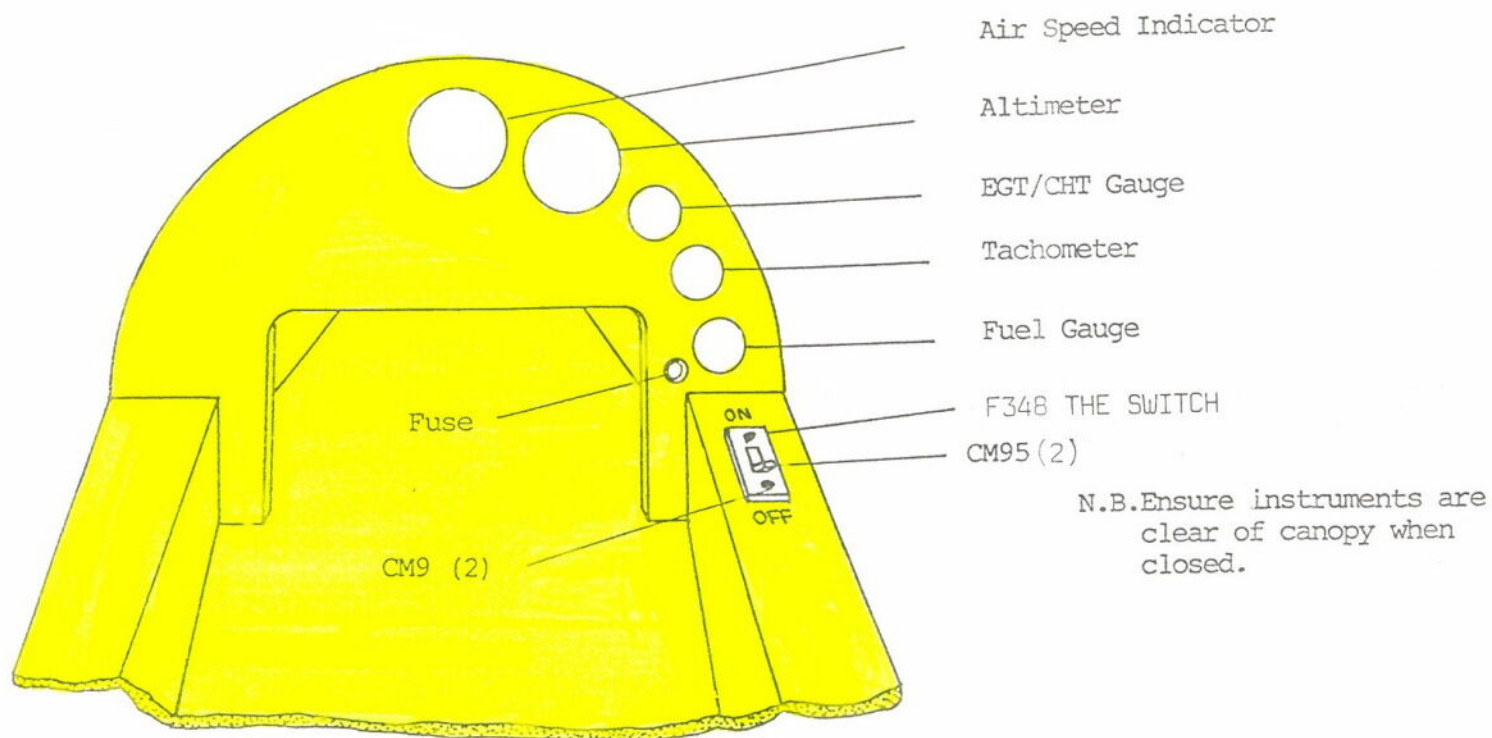


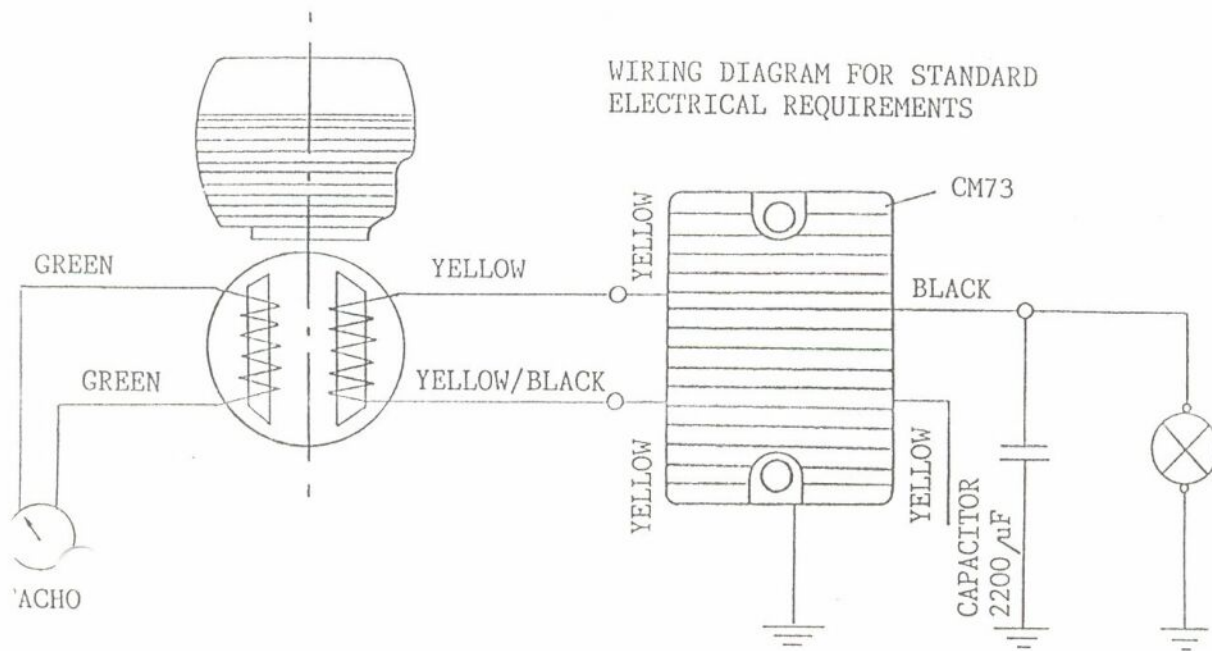
CONSTRUCTION MANUAL  
ELECTRICAL AND INSTRUMENTS  
SERIES D-D



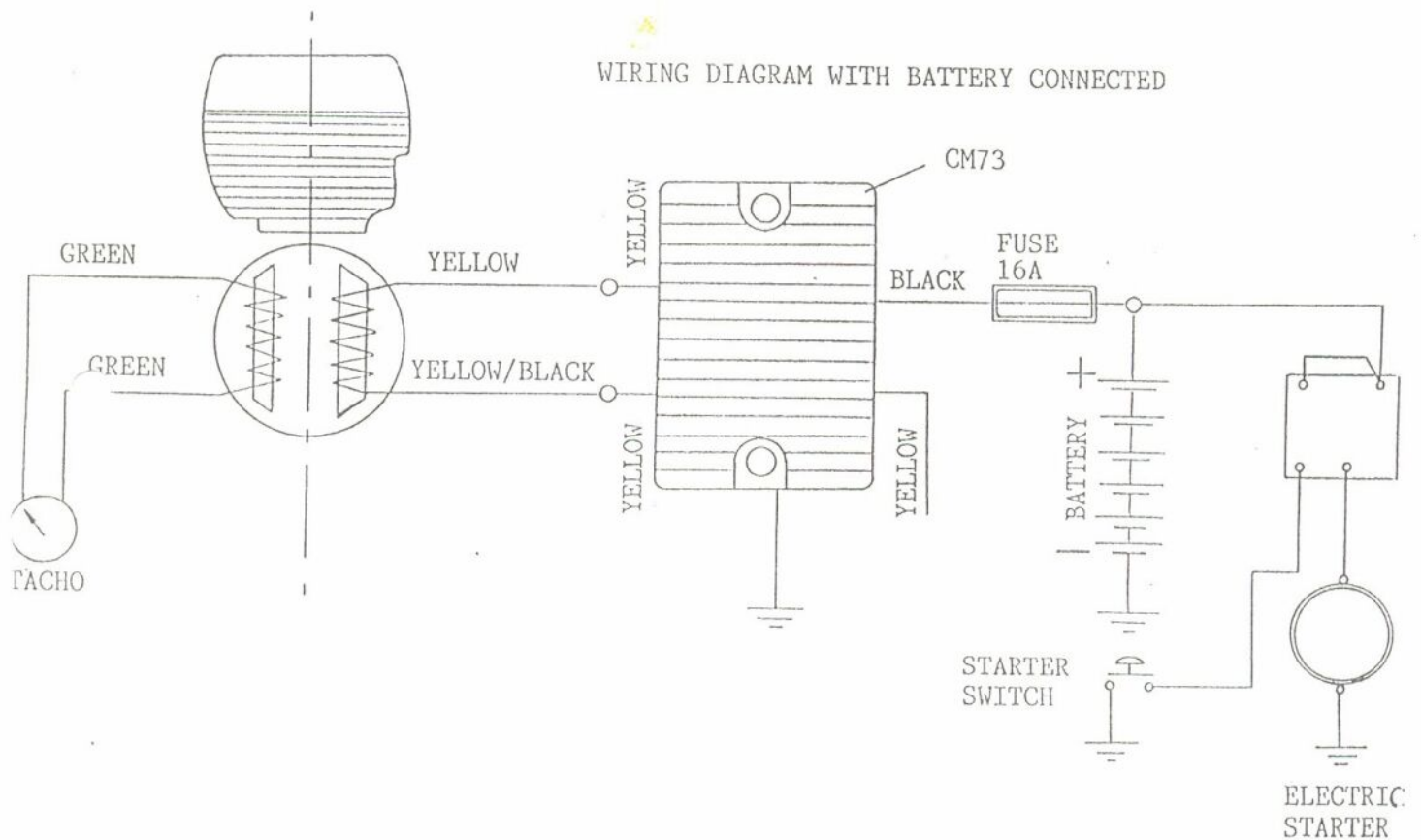
FIGURE 44

INSTRUMENT PANEL LAYOUT





WIRING DIAGRAM WITH BATTERY CONNECTED

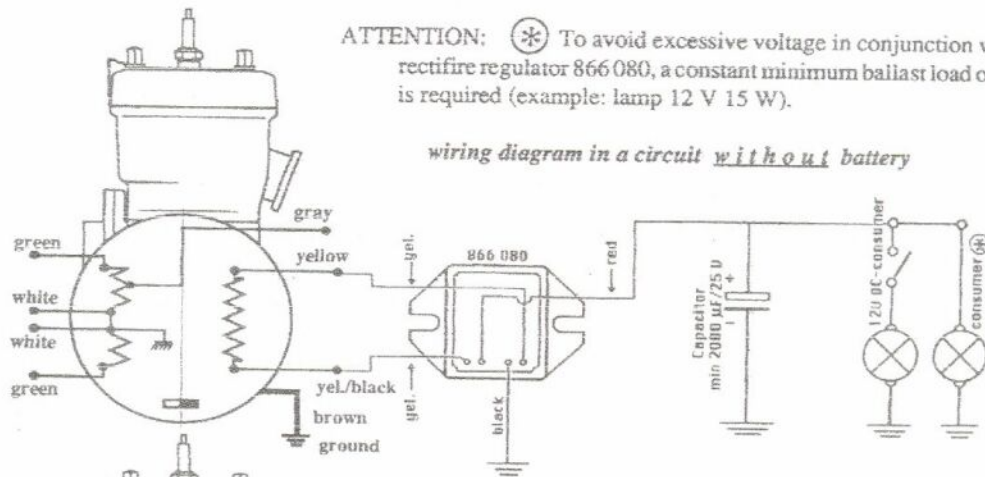
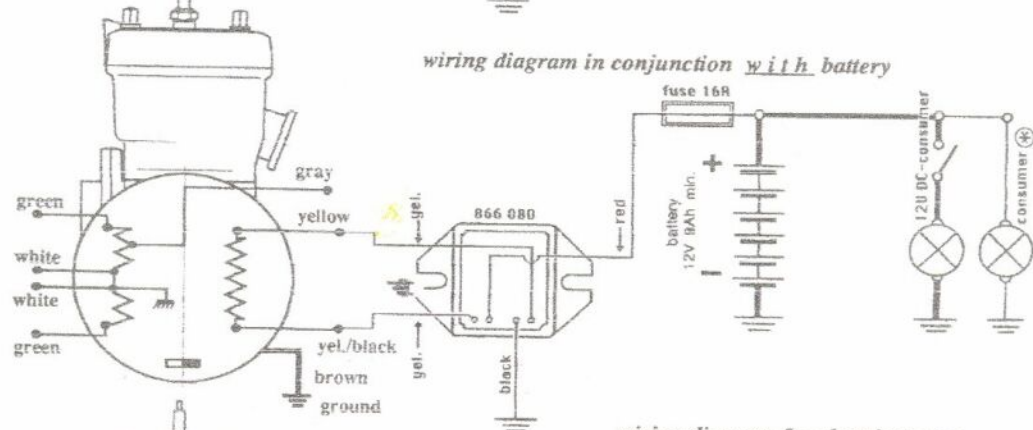


TYPICAL USE:-  
ELECTRIC STARTER ETC.

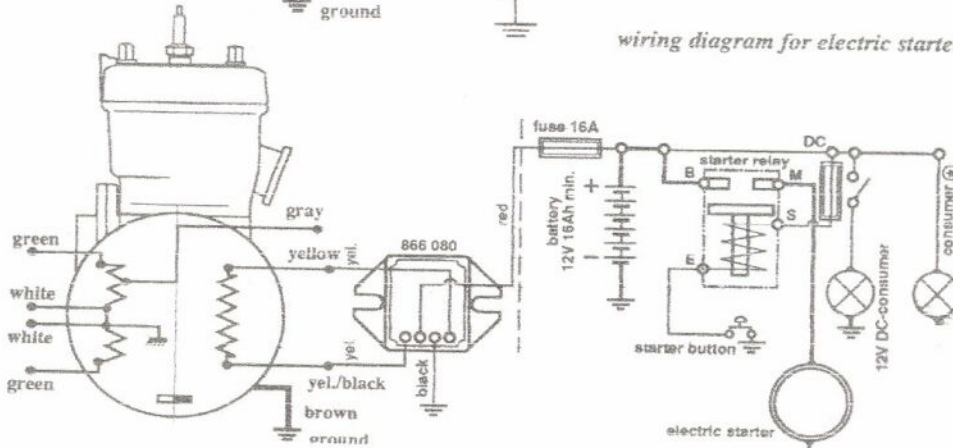
## 1.9 a ELECTRICAL SCHEMATIC

Wiring diagram for rectifier-regulator 866 080

ATTENTION: ⚡ To avoid excessive voltage in conjunction with the rectifier regulator 866 080, a constant minimum ballast load of 1 amp is required (example: lamp 12 V 15 W).

wiring diagram in a circuit without batterywiring diagram in conjunction with battery

wiring diagram for electric starter



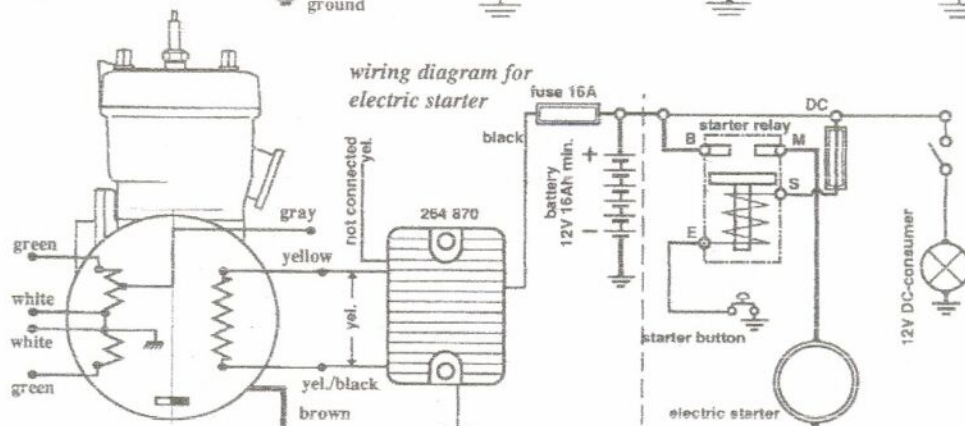
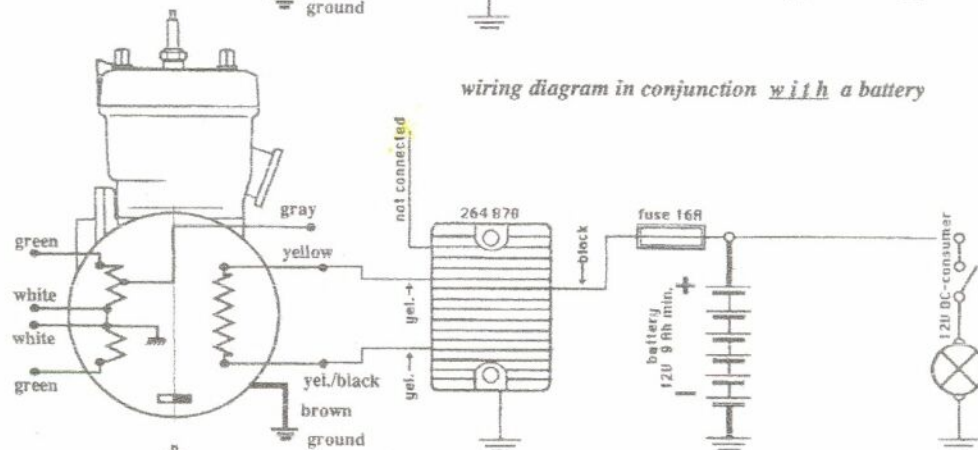
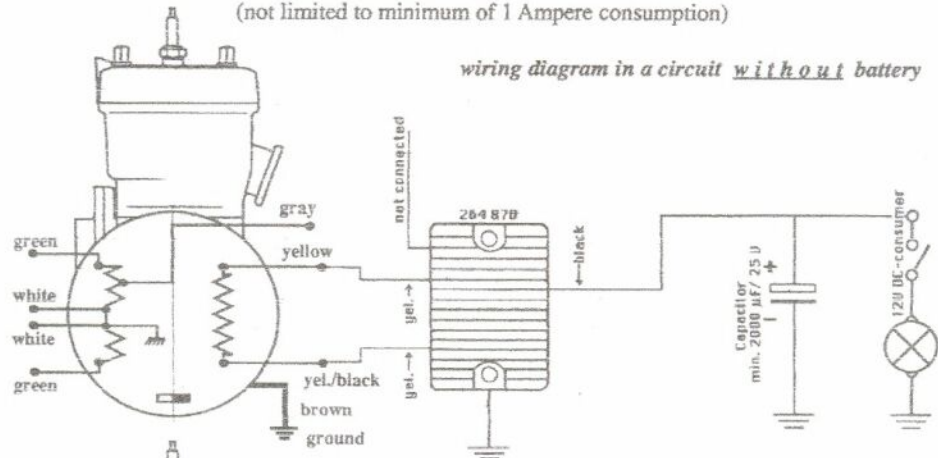
(Dual Ignition Engines)

## 1.9 b ELECTRICAL SCHEMATIC

### (Dual Ignition Engines)

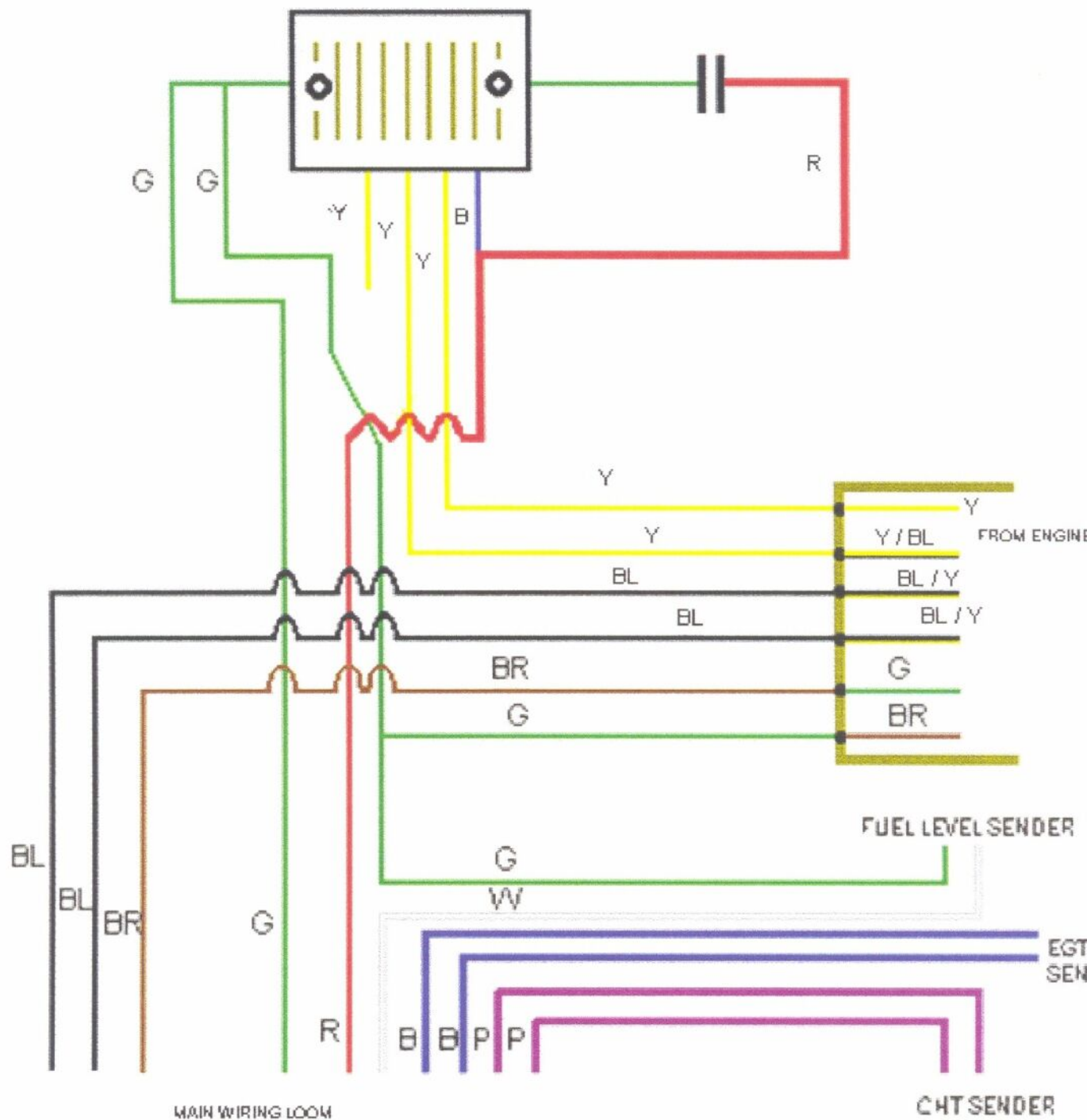
#### Wiring diagram for rectifier-regulator 264 870

(not limited to minimum of 1 Ampere consumption)





### 1.9.d ELECTRICAL WIRING DIAGRAM (Dual Ignition Engines)



# ELECTRICAL WIRING DIAGRAM DUAL IGNITION ENGINES

FIGURE 46

KEY	
RED	R
WHITE	W
GREEN	G
YELLOW	Y
PURPLE	P
BLUE	B
BLACK	BL
BROWN	BR
GREY	GR

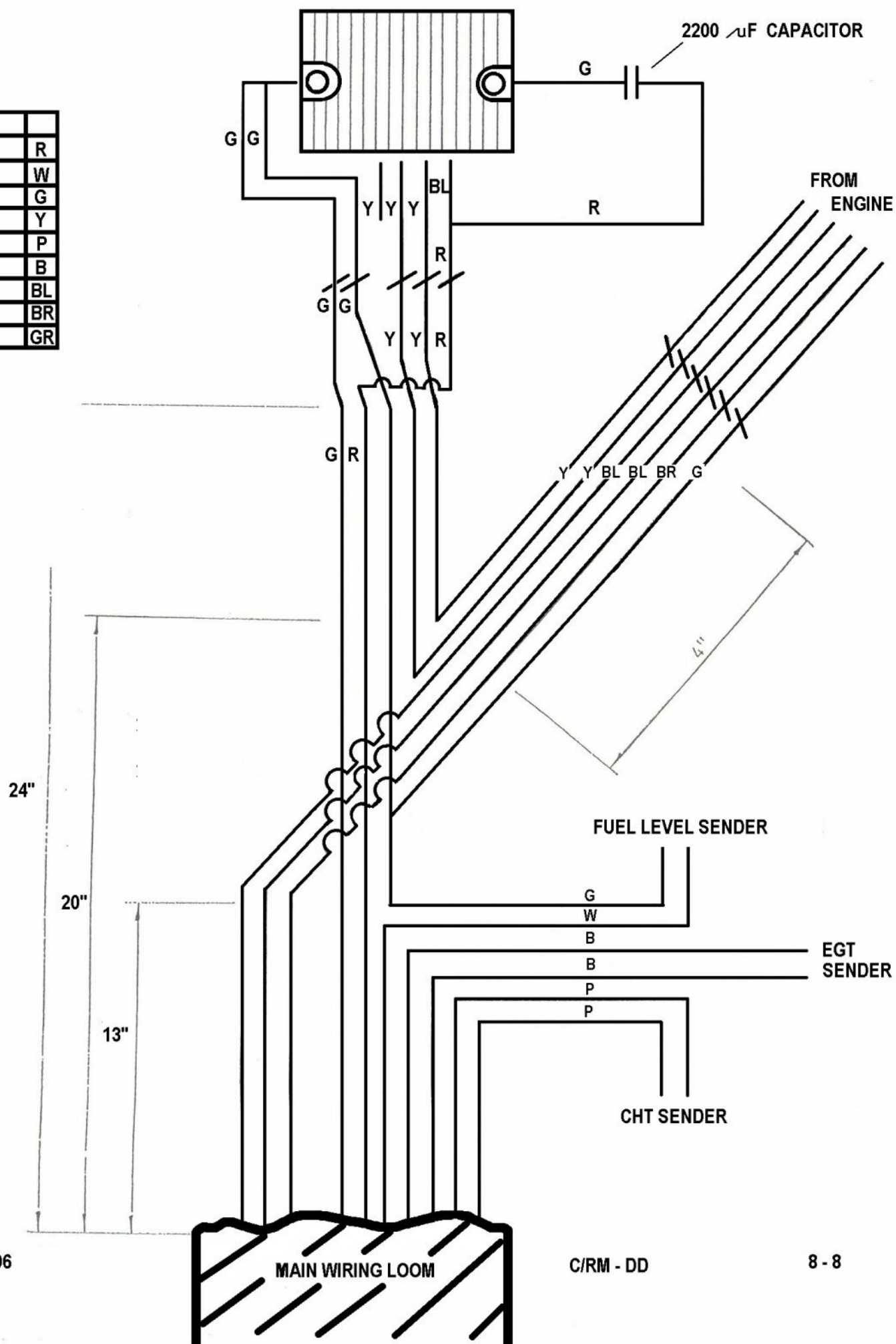
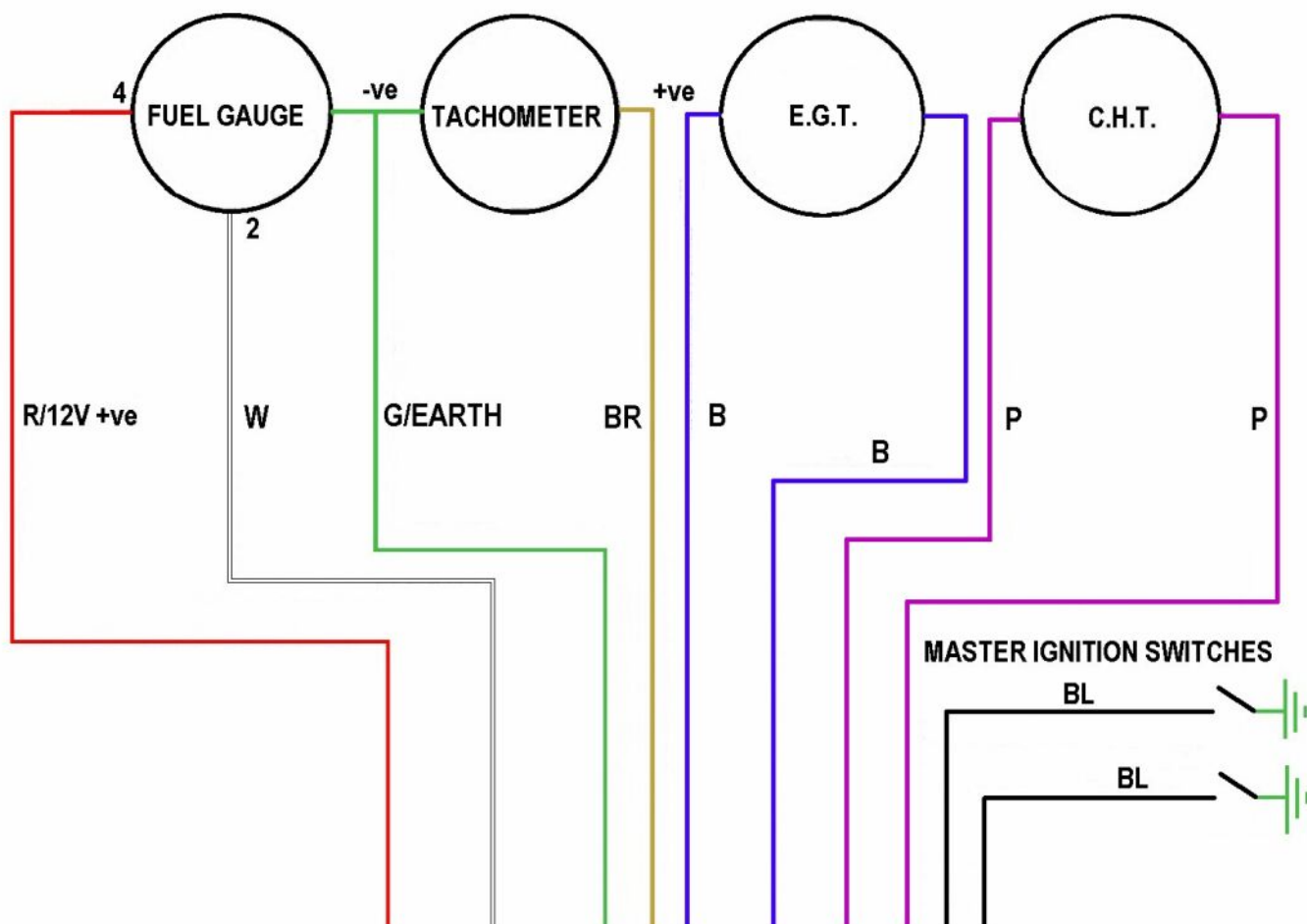


FIGURE 47

ELECTRICAL WIRING INSTRUMENTS  
DUAL IGNITION ENGINES



KEY

RED	R
WHITE	W
GREEN	G
YELLOW	Y
PURPLE	P
BLUE	B
BLACK	BL
BROWN	BR

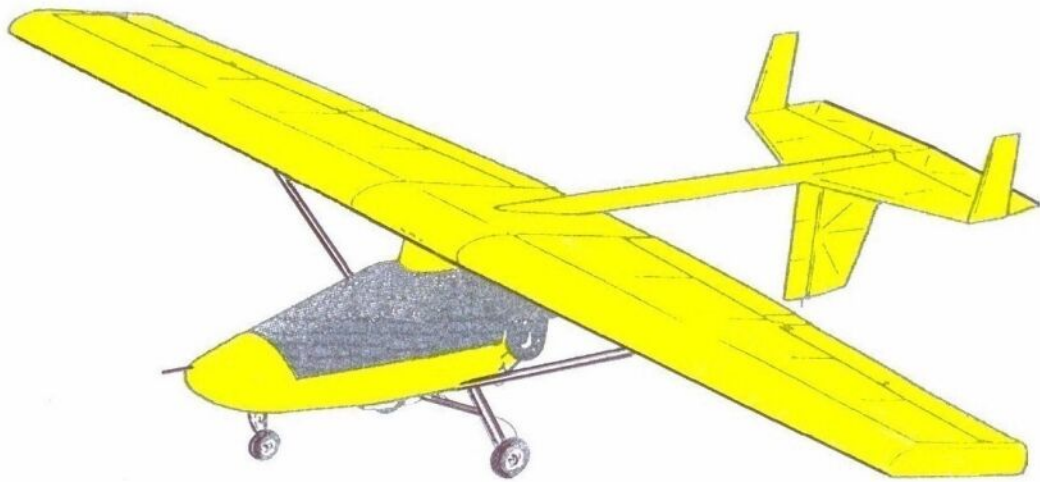
### INSPECTION

Engine installation inspection, pages 8-1 to 8-11 (dual ignition engines) to be effected and recorded on page F.

Drain holes 3/16" Dia. are to be added to all separated panels on main wings, centre section, flap, aileron, tailplane & elevator. Use a soldering iron tip or heated small tube.

FINAL INSPECTION - FORM CFM 8 TO BE COMPLETED





**CONSTRUCTION MANUAL**  
**SHADOW 'D' SERIES**  
**SUPER SHADOW**