



## SERVICE INSTRUCTION M20-108

Date: 10 February, 2003

SUBJECT: CIRCUIT BREAKER PANEL WIRING MODIFICATION AND INSPECTION OF ALTERNATOR WIRING

MODELS/ S/N M20J, 24-3000 THRU 24-3431; M20R, 29-0001 THRU 29-0288;  
AFFECTED: M20S, 30-0001 THRU 30-0064

TIME OF COMPLIANCE: AT NEXT SCHEDULED MAINTENANCE (AT OWNERS DISCRETION)

INTRODUCTION: TO PROVIDE MORE ACCURATE VOLTAGE SENSING INDICATION, THE INSTRUCTIONS OF THIS SERVICE BULLETIN MAY BE ACCOMPLISHED AT OWNERS DISCRETION.

INSTRUCTIONS:

1. GAIN ACCESS TO THE FORWARD SIDE OF THE CIRCUIT BREAKER PANEL (WIRING CONNECTION SIDE) IN ACCORDANCE WITH SECTION 39 OF THE APPROPRIATE SERVICE AND MAINTENANCE MANUAL FOR THE AIRCRAFT BEING SERVICED.
2. SEE FIGURE 1 OF THIS SERVICE INSTRUCTION FOR WIRING CHANGE MODIFICATIONS TO THE CIRCUIT BREAKER PANEL TO PROVIDE BETTER VOLTAGE SENSITIVE CAPABILITIES.
3. SEE FIGURE 2 OF THIS SERVICE INSTRUCTION FOR INSPECTION OF ALTERNATOR WIRING FOR CHAFING OR DETERIORATION
4. REPAIR ANY DAMAGED WIRING AND PROTECT WIRING WITH ANTI-CHAFING MATERIAL AS NEEDED.

WARRANTY: THERE WILL BE NO WARRANTY COVERAGE FOR THE MAINTENANCE ACTIONS DESCRIBED IN THIS SERVICE INSTRUCTION.

REFERENCE DATA: WIRING SCHEMATICS INCORPORATED INTO THE APPROPRIATE MODEL'S SERVICE AND MAINTENANCE MANUAL, SECTION 91, SCHEMATIC ENVELOPES.

PARTS LIST: N/A

FIGURE/TABLES: SEE FIGURE 1 AND FIGURE 2 ON FOLLOWING PAGE.

**FOR AFFECTED M20J S/N'S SEE THE FOLLOWING SCHEMATICS IN SECTION 91 OF S & M MANUAL:**

S/N	SCHEMATIC NO.	SCHEMATIC REVISION NO.
24-3000→24-3078	800350 J1	REV. U (OR LATER)
24-3029→24-3153	800350 J2	REV. AV (OR LATER)
24-3154→24-3200, 24-3202→24-3217	800263 J1	REV. E (OR LATER)
24-3201, 24-3218→24-3270	800304 J1	REV. F (OR LATER) [SHT 1] REV. H (OR LATER) [SHT 2]
24-3271→24-3350	800304 J2	REV. W (OR LATER)
24-3351→24-3373	800304 J3	REV. W (OR LATER)
24-3274→24-3377	800304 J4	REV. W (OR LATER)
24-3278→24-3383	800304 J5	REV. Y (OR LATER)
24-3284→24-3392	800304 J6	REV. Z (OR LATER)
24-3393→24-3404	800304 J7	REV. Z (OR LATER)
24-3405→24-3410	800304 J8	REV. AA(OR LATER)
24-3411→24-3420	800383 J1	REV. G (OR LATER)
24-3421→24-3431	800383 J2	REV. H (OR LATER)

FIGURE 1 & FIGURE 2

1. REF. APPROPRIATE MODEL'S SCHEMATIC [800383, REGION D-5]: CHANGE WIRING IN CIRCUIT BREAKER PANEL AS SHOWN IN FIGURE 1 BELOW.

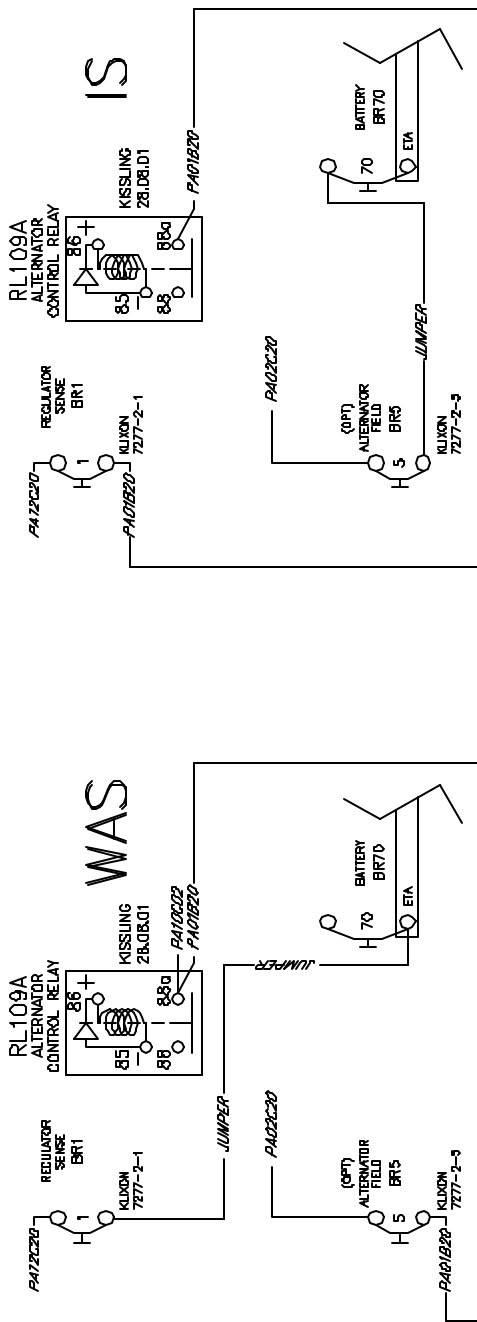


FIGURE 1

FOR M20J SCHEMATIC NUMBERS - SEE PAGE 1 OF THIS SI.

2. AT ALTERNATOR [SCHEMATIC 800383, REGION D-8] INSPECT WIRE PA09(X)02, SHIELD DRAIN TO ALTERNATOR CASE, FOR FRAYING/DAMAGE. REPAIR AS NECESSARY. COVER SHIELD DRAIN PIGTAIL WITH ANTI-CHAFING PROTECTION SUITABLE FOR THAT ENVIRONMENT, I.E. SPIRAL WRAP OR EQUIVALENT ANTI-CHAFF WRAP.

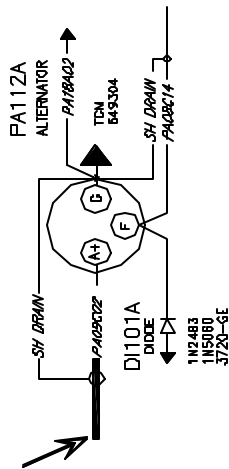


FIGURE 2

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