

Provided by AIC Title Services, LLC 5924 N. W. 2nd Street Suite. 650 Oklahoma City, OK 73127 1-800-711-0087

Service Difficulty Report

Trend Summary by Model CESSNA

ATA Code System/Component

of Reports

% of Total Reports

Total Number of Report

Trend Summary by Series CESSNA 177

ATA Code	System/Component	# of Reports	% of Total Reports
2410	ALTERNATOR-GENERATOR DRIVE SYSTEM	1	.50%
2421	AC GENERATOR-ALTERNATOR	1	.50%
2434	DC GENERATOR-ALTERNATOR	2	1.01%
2460	DC POWER DISTRIBUTION SYSTEM	1	.50%
2510	FLIGHT COMPARTMENT EQUIPMENT	1	.50%
2560	EMERGENCY EQUIPMENT	1	.50%
2562	EMERGENCY LOCATOR BEACON	4	2.01%
2710	AILERON CONTROL SYSTEM	5	2.51%
2721	RUDDER TAB CONTROL SYSTEM	1	.50%
2731	ELEVATOR TAB CONTROL SYSTEM	1	.50%
2810	FUEL STORAGE	3	1.51%
2820	FUEL DISTRIBUTION	2	1.01%
2823	FUEL SELECTOR/SHUTOFF VALVE	1	.50%
2910	HYDRAULIC.MAIN SYSTEM	7	3.52%
2913	PUMP.MAIN	2	1.01%
2916	RESERVOIR.MAIN	1	.50%
3201	LANDING GEAR/WHEEL FAIRING	1	.50%
3211	MAIN LANDING GEAR ATTACH SEC	2	1.01%
3213	MAIN GEAR STRUT/AXLE/TRUCK	1	.50%
3220	NOSE/TAIL LANDING GEAR	2	1.01%
3221	NOSE/TAIL GEAR ATTACH SECTION	1	.50%
3230	GEAR EXTENSION AND RETRACT SYSTEM	20	10.05%
3233	I ANDING GEAR ACTUATOR	5	2.51%
3234	LANDING GEAR SELECTOR	1	50%
3246	WHEEL/SKI/ELOAT	2	1 01%
3250	LANDING GEAR STEERING SYSTEM	1	50%
3252	SHIMMY DAMPER	2	1 01%
3260	I G POSITION AND WARNING	8	4 02%
3416	ALTIMETER BAROMETRIC/ENCODER	1	50%
3418	STALL WARNING SYSTEM	1	50%
3457	GLOBAL POSITIONING SYSTEM	1	50%
3700	VACUUM SYSTEM	1	50%
3710	VACUUM DISTRIBUTION SYSTEM	2	1 01%
5312	BUILKHEADS (MAIN FUSELAGE)	3	1.51%
5320		4	2 01%
5343	GEAR ATTACH FITTINGS (ON FUSELAGE)	1	50%
5500		1	50%
5510	HORIZONTAL STABILIZER	9	4 52%
5531	SPARS/RIBS (ON VERT STAB)	1	
5540	BUDDER	1	50%
5551	HORIZONTAL STAB ATTACH FITTING	1	50%
5711	SPAR (ON WING)	3	1 51%
5712	RIBS/BULKHEADS (ON WING)	1	50%
5730	PLATES/SKINS (ON WING)	1	50%
5741	FUS (ATTACH FITTING ON WING)	2	1 01%
5751		1	50%
6110	PROPELLER ASSEMBLY	1	5.0%
6111	PROPELLER BLADE SECTION	<u>ا</u> ع	4 02%
6114		7	3 520/
6120		1	5.02 /0
6122		1	5.00/
7160		0	.00%
7261		<u> </u>	4.UZ%
7310		<u> </u>	2 010/
1010		4	2.0170



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Service Difficulty Report

7314	FUEL PUMP	1	.50%
7322	FUEL CONTROL/CARBURETOR	3	1.51%
7414	MAGNETO/DISTRIBUTOR	12	6.03%
7421	SPARK PLUGS/IGNITERS	1	.50%
7430	SWITCHING	1	.50%
7602	MIXTURE CONTROL	1	.50%
7603	POWER LEVER	3	1.51%
7810	COLLECTOR/NOZZLE	3	1.51%
7910	OIL STORAGE (AIRFRAME FURNISH)	1	.50%
7920	ENG OIL DIST (AIRFRAME FURN)	1	.50%
7921	COOLER	2	1.01%
7922	TEMPERATURE REGULATOR	5	2.51%
8010	CRANKING	1	.50%
8500	ENGINE (RECIPROCATING)	1	.50%
8520	ENGINE POWER SECTION	5	2.51%
8530	ENGINE CYLINDER SECTION	9	4.52%
8550	ENGINE OIL SYSTEM	3	1.51%

Total Number of Report

199



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Service Difficulty Report



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Service Difficulty Report

Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer's se	ries number:	177
Air Transport (ATA) code: Date:	2410 27-APR-01	ALTERNATOR-GENERATOR DRIVE SYSTEM Aircraft Model Number: 177	Name of part: Part Number:	ALTERNATOR DOFF10300J
Details: ALTERNATOR OVERHAULED, INST LOCKING THE ALTERNATOR SHAF	ALLED ON AC. FRONT BEA T. FAILURE OCCURRED O	ARING BALL CAGE BROKE APART AND ALLOWED BAN 2/10/2001 AFTER 126 HOURS TSOH.	ALLS TO COLLECT	ON ONE SIDE OFBEARING,
Air Transport (ATA) code: Date:	2421 16-JUL-03	AC GENERATOR-ALTERNATOR Aircraft Model Number: 177B	Name of part: Part Number:	ROTOR ES4145
Details: (CAN) ALTERNATOR WAS REMOVE DEFECTS WERE FOUND. THE ROT THE ROTOR TO RUB ON THE STAT AWAY. OTHER DEFECT LIKELY CA BEEN SHORTING AGAINST INSIDE	ED AT 225.9 HRS BECAUSE FOR SHAFT BEARING JOUR 'OR STACKS.THE BEARING USED OUTPUT SNAG. THR OF REAR HOUSING. THERI	OF DECREASING OUTPUT & VOLTAGE AS ELECTRI NAL AT THE DRIVE END WAS FOUND LOOSE TO TH WAS ALSO SLIGHTLY WORN ON THE INSIDE BORE EE POWER OUTPUT WIRES CONNECTINGSTATOR E WAS NO SLEEVING OR SILICONE ADHESIVE TO P	CAL LOAD WAS A IE BEARING BY AI .ESSENTIALLY TH TO RECTIFIER AS ROTECT AGAINST	PPLIED. ON DISASSEMBLY, TWO BOUT .080 INCHES, ALLOWING IE SHAFT MATERIAL WAS WORN SEMBLY WERE CHAFED & HAD CHAFING.
Air Transport (ATA) code: Date:	2434 29-JUL-02	DC GENERATOR-ALTERNATOR Aircraft Model Number: 177B	Name of part: Part Number:	ROTOR ES4145
Details: (CAN) NEW ROTOR WAS INSTALLE FOUND COMPLETELY WORN OUT, CONCENTRICITY BY 0.005 OF AN I DID NOT INDICATE THAT THE SLIP RING ASSEMBLY HAS MOVED ON	ED AT OVERHAUL. AFTER 3 AND THE BRUSH SHUNT E NCH TIR. THIS CONDITION RINGS WERE INSPECTED THE ROTOR SHAFT WHILE	74 HRS, UNIT FAILED TO PRODUCE OUTPUT. ON DI BRAIDED LEAD WAS CHAFED IN TWO. FOUND THAT WOULD CAUSE RAPID BRUSH WEAR. WHEN THEN FOR RUNOUT (TIR). THEY WEREEITHER OUT AT TH IN SERVICE.	SASSEMBLY AND THE SLIP RINGSO EW ROTOR WAS AT TIME BUT IT W	INSPECTION,ONE BRUSH WAS ON THE ROTOR WERE OUT OF INSTALLED, THE WORK ORDER /AS NOT DETECTED, OR THE SLIP
Air Transport (ATA) code: Date:	2434 20-JUN-02	DC GENERATOR-ALTERNATOR Aircraft Model Number: 177RG	Name of part: Part Number:	ALTERNATOR DOFF10300J
Details: UNUSED RECTIFIER POST BECOM INTERMITTENTLY CAUSE DISCHAR	E LOOSE AND FELL INTO B RGE SPIKE IN BUS SYSTEM	OTTOM OF ALTERNATOR CASE. VIBRATION CAUS SPIKE WOULD CAUSE AVIONICS TO TURN OFF AN	ED LOOSE BOLT T D LOOSE NAVIGA	O SHORT STATORWINDINGS AND TION INFORMATION.
Air Transport (ATA) code: Date:	2460 21-JUN-99	DC POWER DISTRIBUTION SYSTEM Aircraft Model Number: 177RG	Name of part: Part Number:	RESISTOR S20415016
Details: DURING ANNUAL INSP, SMOKE NC AND SMOKING. SMOKE AND BURN OF MOUNTING NUTS WAS MELTED NEITHER THE 7-AMP FUSE OR THE	DTICED COMING OUT OF RA N MARKS NOTED ON BOTH D AWAY. INSP SHOWED TH E 10-AMP C/B ACTIVATED.	ADIO STACK. INVEST SHOWED THE S2041-50-1.6 RE SIDES OF GLOVE BOX SIDEWALL WHERE RESISTO IE CERAMIC INSULATOR INSIDE THE BASE OF THE	ESISTOR FOR THE IR WAS MOUNTED 0513052-20 CIGAR	E CIGARETTELIGHTER DAMAGED D.THE NYLON LOCKING PORTION ETTE LIGHTER WAS BROKEN.
Air Transport (ATA) code: Date:	2510 21-SEP-00	FLIGHT COMPARTMENT EQUIPMENT Aircraft Model Number: 177RG	Name of part: Part Number:	SEAT TRACK 201101510
Details: INTERGRANULAR CORROSION FO FORWARD HOLE). CORROSION FO FOUND EXFOLIATING APPROXIMA PERIODIC INSPECTIONS. (X)	UND ON VERTICAL LEG OF FARTED AT AFT EDGE OF F TELY 2.5 PERCENT OF TOT	SEAT TRACK STARTING AT LAST SEAT ADJUSTME HOLE AND PROGRESSED AFT ONE INCH. SURFACE AL THICKNESS. POSSIBLE CAUSE IS EXPLAINED IN	NT PIN HOLE (APP METAL ON RIGH NAC 43.13-1B, PAC	PROX 20.25 INCHES FROM MOST TSIDE OF VERTICAL LEG WAS SES 6-17 AND 6-18, PROPER
Air Transport (ATA) code: Date: Details: DURING INSPECTION IAW FAR 91.2	2560 01-AUG-99 207, THE UNIT COULD NOT	EMERGENCY EQUIPMENT Aircraft Model Number: 177RG BE ACTIVATED BY MEANS OF THE 'G' SHOCK SWIT	Name of part: Part Number: CH.	ELT TJ4194



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Service Difficulty Report

	0500N4			477
Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer's s	eries number:	1//
Air Transport (ATA) code: Date: Details: ELT UNIT RECEIVED FROM MANUF OCCASIONAL SHORT "CHIRP" COL	2562 08-MAY-00 ACTURER AS AN EXCHAN JLD BE HEARD, BUT NO SY	EMERGENCY LOCATOR BEACON Aircraft Model Number: 177RG NGE UNIT. ELT FAILED TEST AFTER REINSTALLATIC WEEPS. (X)	Name of part: Part Number: N. NO SWEEPS C	ELT AK450 OULD BE HEARD ON 121.5. AN
Air Transport (ATA) code: Date: Details: ELT HAS CORROSION ON MOUNT COPPER MOUNTING SURFACE AN	2562 15-APR-96 FOR THE CASE COVER AT D ALUMINUM MOUNT BRA	EMERGENCY LOCATOR BEACON Aircraft Model Number: 177RG TACHMENT AND ON THE CASE COVER. APPEARS CKET. SUBMITTER STATED TO CORROSION-PROO	Name of part: Part Number: TO BE DISSIMILAR F MOUNT BRACKE	ELT 910 METAL CORROSION FROM T BY PAINTING OR ALODINING.
Air Transport (ATA) code: Date: Details: DURING PRE-BUY INSPECTION, FO FOR REPAIRS AND DETERMINED T	2562 07-MAR-96 DUND ELT INOPERATIVE D O BE NON-REPAIRABLE E	EMERGENCY LOCATOR BEACON Aircraft Model Number: 177RG DURING IMPACT TEST REQUIRED BY 91.207. CORRC DUE TO CRACKED CASE.	Name of part: Part Number: SION FOUND ON (CASE CIRCUIT BOARD. ELT SENT OUT
Air Transport (ATA) code: Date: Details: ELT FAILED TEST PER FAR 91.207.	2562 08-FEB-00 NO SWEEPS COULD BE I	EMERGENCY LOCATOR BEACON Aircraft Model Number: 177RG HEARD ON 121.5. UNIT WAS REPAIRED FOR SAME I	Name of part: Part Number: PROBLEM 11 MON	ELT AK450 THS EARLIER ON 1-19-99. (X)
Air Transport (ATA) code: Date: Details: IN FLIGHT, NOTICED THAT LOSS O SEIZURE OF THE AILERONS HAD C BEARING TO BE SEVERELY WORK	2710 30-AUG-04 F AILERON CONTROL INP OCCURRED. LANDED WIT	AILERON CONTROL SYSTEM Aircraft Model Number: 177 UT HAD OCCURRED, AND UPON ADDED FORCE TO H RUDDER CONTROL ONLY. REMOVED TUBE ASSY INIG DISLODGING CAUSED INABILITY TO ROTATE	Name of part: Part Number: CONTROL YOKE, I FROM FIREWALL	BEARING DETERMINED THAT TOTAL AND FOUND SHAFT AND
Air Transport (ATA) code: Date: Details: AILERON STOP BOLT NAS428-3-10 STOP FOR UP-AILERON TRAVEL, F BELLCRANK PN 122187-2 WHICH, I CONTROL WHEELS WOULD FREE TOOK PLACE ON THE GROUND. IN AILERONS FROM STOP-TO-STOP (2710 01-APR-96 SECURED TO A NUTPLAT AILED TO STOP THE UP-T N TURN, LOCKED THE AIL LOCKED AILERON BELLCF ISP OF AFFECTED AREAS OVER A PERIOD OF TIME.	AILERON CONTROL SYSTEM Aircraft Model Number: 177RG TE ON A BRACKET ASSSEMBLY PN 1221088-8 SECUF TRAVEL OF THE RIGHT AILERON. BOLT DEFLECTED ERON CONTROL SYSYEM IN FULL UPRIGHT AILERC RANK. PRESS APPLIED TO AILERON WOULD ALSO I TREVEALED STOP BOLTHAD SLIGHT BEND, PROBAG	Name of part: Part Number: RED TO MAIN SPAF AND BOLT HEAD I N. NO AMOUNT O NOT FREE LOCKEI BLY DUE TO HARD	BOLT NAS428310 R ASSEMBLY AND IS USED AS A BECAME WEDGED ON AILERON IF PRESSURE APPLIED TO D BELLCRANK. THIS INCIDENT AND VIOLENT MOVEMENT OF
Air Transport (ATA) code: Date: Details: DURING AN ANNUAL INSPECTION THE POINT THAT BY MOVING THE AILERON FOUND THAT THE BOLT ' PROPERLY SAFETIED.	2710 01-OCT-96 IT WAS FOUND THAT THE AILERON BY HAND, THE B WAS LOOSE AND WAS AL	AILERON CONTROL SYSTEM Aircraft Model Number: 177A AN 4-10A BOLT CONNECTING THE PUSH/PULL ROD SOLT FELL OUT COMPLETELY. THE BOLT WAS NOT SO AN 4-10A AND NOT SAFETIED. BOTH AN 4-10A B	Name of part: Part Number: TO THE LEFT AILE SAFTIED.FURTHEF OLTS WERE REPL	BOLT AN410A ERON HORN HAD BACKED OUT TO R INSPECTION OF THE RIGHT ACED WITH AN 4H-10A AND



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircra	Ift manufacturer's se	ries number:	177
Air Transport (ATA) code: Date: Details:	2710 14-JAN-04	AILERON CONTROL SYS Aircraft Model Number:	TEM 177	Name of part: Part Number:	CONTROL TUBE 176703013
AILERON CONTROL SHAFT, WHEF BEARINGS. BEARING PN 0760633	RE IT MOUNTS TO FIREWA -1 END.	LL BEARING WAS RUSTED AN	D GROVED BEYOND LI	MITS, REPLACED	LT AND RT SHAFTS AND
Air Transport (ATA) code:	2710	AILERON CONTROL SYS	TEM	Name of part:	BEARING
Date: Details:	28-AUG-03	Aircraft Model Number:	177	Part Number:	
(CAN) SNAPPING NOISE HEARD W	HEN AILERON MOVED. BE	ARING AREAS ON CONTROL	TUBES FRONT OF FIRE	WALL FOUND SEV	VERELY BRINELLED.
Air Tronou ort (ATA) codo	0704		CVCTEM	Nouse of monty	
Date:	22-MAY-96	Aircraft Model Number:	177B	Part Number:	17670667
Details: (CAN) ON APPROACH IN A FORWA TRAVERSE THREAD.	RD SLIP, RUDDER TRIM IN	NOPERATIVE. RUDDER TRIM S	CREW ACTUATOR SH	AFT BROKEN MID	SHAFT AT THE SHOULDER OF
Air Transport (ATA) code: Date:	2731 16-MAR-95	ELEVATOR TAB CONTRO Aircraft Model Number:	DL SYSTEM 177RG	Name of part: Part Number:	BELLCRANK 17121421
Details: DURING PRE-BUY INSPECTION, FO HOLES WERE ENLARGED AND TH DURING ALL INSPECTIONS.	DUND STABILATOR TRIM T E RIVETS ATTACHING THE	AB TO HAVE EXCESSIVE FRE STIFFENER WERE LOOSE. S	E PLAY. THE BELLCRA SUBMITTER SUGGESTS	NK AT THE STABI CLOSE INSPECT	LATOR WAS WORN. THE BOLT ION OF FLIGHT CONTROLS
Air Transport (ATA) code: Date:	2810 24-APR-99	FUEL STORAGE Aircraft Model Number:	177	Name of part: Part Number:	NUT
Details: SELF-LOCKING NUT ON FUEL CAP DISENGAGE FROM SHAFT. THIS A CAUSED A FUEL EXHAUSTION AC	LOCKING MECHANISM CO ALLOWED THE FUEL CAP T CIDENT.	OULD BE TURNED BY HAND. T TO COME OUT OF TANK OPEN	THE LOOSENING OF TH ING AND ALLOWED FU	E NUT ALLOWED EL TO BE SIPHON	THE LOCKING MECHANISM TO EDOUT OF THE TANK. THIS
Air Transport (ATA) code:	2810 08-1111-96	FUEL STORAGE	177B	Name of part: Part Number:	CAP 17260424
Details: FLUSH FUEL CAPS ALLOWING WA INSTALLING NEW SEALS OR CAPS	TER TO LEAK INTO FUEL	TANKS. BEING A WET WING A SOLUTION. PERMANENT FIX IS	IRCRAFT, IT IS VERY D S TO INSTALL STC SA2	IFFICULT TO BE S 457CEPLATES AN	URE ALLWATER IS REMOVED. D CAPS OR OTHER TYPE RAISED
INLE I.					
Air Transport (ATA) code:	2810	FUEL STORAGE		Name of part:	CAP
Date: Details:	09-MAR-95	Aircraft Model Number:	177RG	Part Number:	_
REPLACED ORIGNAL GAS CAP WI	TH CAPS MEG BY MONAR	CH AIR & DEVELOPMENT, INC.	, AND APPROVED BY F	AA STC SA2458CE	<u>.</u>
Air Transport (ATA) code: Date:	2820 08-MAR-00	FUEL DISTRIBUTION Aircraft Model Number:	177	Name of part: Part Number:	PUMP 154729606
Details: NEW FUEL PUMP DOES NOT ATTA	IN RATED FUEL PRESSUR	RE/FUEL FLOW. THE HIGHEST	PRESSURE ATTAINED	WAS LESS THAN	2 PSIG AT IDLEAND DROPPED TO

NEAR ZERO AS RPM INCREASED. AFTER EXTENSIVE TROUBLESHOOTING OF AIRCRAFT FUEL SYSTEMS, CAME TO THE CONCLUSION THE PUMP MUST BE FAULTY. INSTALLED ANOTHER NEW PUMP AND OPERATIONAL CHECK WAS SATISFACTORY. SUBMITTER SUGGESTED THAT ALL LYCOMING/AC PUMPS OF THIS BATCH (DATE CODE 9606) SHOULD BE CHECKED FOR PROPER OPERATION. (X)



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Service Difficulty Report

Aircraft manufacturer's name	: CESSNA	Aircraft manufacture	's series number:	177
Air Transport (ATA) code: Date: Details: ALUMINUM VENT LINE FROM FU WINDOW. BARE TUBING IN CON PRESENCE OF MOISTURE. SUB BETWEEN FUEL TANK VENT LIN	2820 27-DEC-95 EL TANK PITTED TO FA ITACT WITH VENT DUC MITTER RECOMMENDS E AND VENTILATION D	FUEL DISTRIBUTION Aircraft Model Number: 177B AILURE DUE TO CORROSION. NOTED WHEN TANKS Y CTING. POINT OF CONTACT WAS SITE OF PIT. SUSPI S SHEATHING ENTIRE LENGTH OF VENT LINE WITH N UCTING.	Name of part: Part Number: WERE FILLED. FUEL LE ECT CAUSE DUE TO DIS ION-CONDUCTIVE MATE	VENT LINE 20000104 AKED INSIDECABIN REAR SIDE SIMILAR MATERIALS IN THE FRIAL TO PREVENT CONTACT
Air Transport (ATA) code: Date: Details: DURING ANNUAL INSPECTION I MOVEMENT OF THE VALVE CAU BELLY WAS FUEL STAINED ALSO	2823 14-FEB-97 T WAS DETECTED THA SED FUEL TO LEAK OL D.	FUEL SELECTOR/SHUTOFF VALVE Aircraft Model Number: 177 AT WHEN TESTING OR OPS CHECKING, THE FUEL SE JT THE TOP OF VALVE AROUND THE SHAFT. THIS HA	Name of part: Part Number: LECTOR VALVE TO DET AD BEEN IN PROCESS F	VALVE ERMINE DETENTOPERATION, OR SOME TIME BECAUSE THE
Air Transport (ATA) code: Date: Details: HYDRAULIC HOSE TO NOSE LAN PUMP FAILURE. PILOT WAS UNA DAMAGE TO AIRCRAFT.	2910 26-JUL-05 IDING GEAR CYLINDEF IBLE TO EXTEND LAND	HYDRAULIC, MAIN SYSTEM Aircraft Model Number: 177RG R FAILED IN FLIGHT. THIS CAUSED TOTAL DEPLETIO DING GEAR MANUALLY BECAUSE OF NOT ENOUGH FI	Name of part: Part Number: N OF HYDRAULIC FLUID LUID. A GEAR UP LANDI	HOSE S1236C40134 AND SUBSEQUENT HYDRAULIC NG WAS MADE WITH MINOR
Air Transport (ATA) code: Date: Details: INBOUND TO RIC THE LEFT HYD PERFORMED MANUAL GEAR EX INSTALLED GEAR PINS AFTER L LEFT WING TRAILING EDGE ARE TO SERVICE.	2910 01-APR-03 RAULIC SYSTEM QUAN TENSION ON APPROAG ANDING AND THE AIRC A AND WAS REPLACE	HYDRAULIC, MAIN SYSTEM Aircraft Model Number: 177RG NTITY WENT TO ZERO AND PRESSURE WENT TO ZER CH. ALL COM PROCEDURES COMPLIED WITH AND TH CRAFT WAS TOWED TO THE GATE. A TEMPORARY HY D. NR 2 ENGINE DRIVEN HYDRAULIC PUMP AND FILT	Name of part: Part Number: RO. CREW CONTINUED TE LANDING WAS UNEV /DRAULIC LINE WAS FO ERS WERE ALSO REPL/	LINE TO DESTINATIONAND ENTFUL. MAINTENANCE UND TOHAVE RUPTURED IN THE ACED. AIRCRAFT HAS RETURNED
Air Transport (ATA) code: Date: Details: HOSE ASSEMBLY SEPARATED A	2910 01-SEP-02 T SWEDGED END/ AT /	HYDRAULIC, MAIN SYSTEM Aircraft Model Number: 177RG ACTUATOR NO CHAFFING OR OTHER APPARENT WE	Name of part: Part Number: AR ON HOSE.	HYDRAULIC LINE 208010015
Air Transport (ATA) code: Date: Details: HOSE BLEW APART AT FITTING MANDATORY REPLACEMENT TIM	2910 20-OCT-99 WHILE IN-FLIGHT. SHO ME OF HOSES BE ESTA	HYDRAULIC, MAIN SYSTEM Aircraft Model Number: 177RG DWED NO OUTWARD SIGNS OF FAILURE. LOSS OF A ABLISHED BY MANUFACTURER.	Name of part: Part Number: LL HYDRAULIC FLUID.	HOSE 5217840150 SUBMITTER SUGGESTED
Air Transport (ATA) code: Date: Details: HYDRAULIC LINE BEGAN LEAKIN WAS LANDING WITH GEAR DANG CAUSING INSPECTABILITY PROF	2910 22-OCT-97 IG ON GEAR RETRACT GLING FROM AIRCRAF 31 FM	HYDRAULIC,MAIN SYSTEM Aircraft Model Number: 177RG ION CAUSING HYDRAULIC MOTOR/PUMP TO PUMP A T. THE CAUSE OF THE LEAK WAS A CORROSION PIT	Name of part: Part Number: LL USABLE HYDRAULIC LINE IS LOCATED INT	LINE 20801179 FLUID OVERBOARD. RESULT HE COCKPIT PEDESTAL



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Service Difficulty Report

Aircraft manufacturer's name:	CESSNA	Aircraf	t manufacturer's ser	ies number:	177
Air Transport (ATA) code: Date: Details: WHILE INVESTIGATING A GEAR UF CONTROL CABLES ROUTED IN TH PREVENT CHAFING. WAS REPLACE	2910 11-FEB-05 P LANDING, IT WAS NOTED E BATTERY COMPARTMEN CING INTERIOR PANEL AN	HYDRAULIC,MAIN SYSTE Aircraft Model Number: D THAT THE HYDRAULIC LINE F NT AREA. SUGGEST INSPECTIN D MAY HAVE BENT THE LINE IN	M 177RG ROM THE LANDING GE IG THIS AREA FOR CH TO THE CABLES. (K)	Name of part: Part Number: AR PUMP WAS C AFING AND RE-R	LINE HAFING AGAINST THE FLIGHT OUTE HYDRAULIC LINE TO
Air Transport (ATA) code: Date: Details: PILOT SELECTED GEAR DOWN ON LEAKING AT THE BULKHEAD END EXTERIOR OF THE AIRCRAFT. (W	2910 05-JUN-05 I FINAL APPROACH AND T CAUSING TOTAL LOSS OF P23200509350) (K)	HYDRAULIC,MAIN SYSTE Aircraft Model Number: HE GEAR FAILED TO EXTEND. HYDRAULIC FLUID. THE AIRCH	M 177RG THE INVESTIGATION F RAFT LANDED GEAR U	Name of part: Part Number: OUND THAT THE P WITH NO INJUR	HOSE S217840150A NOSE GEAR DOWN LINE WAS RIES AND MINOR DAMAGE TO THE
Air Transport (ATA) code: Date: Details: PUMP OPERATED SLOWLY. SENT LED TO SLOW OPERATION OF THE	2913 09-DEC-02 FOR OVERHAUL WHICH S E LANDING GEAR.	PUMP,MAIN Aircraft Model Number: SHOWED THAT MOTOR BRUSHI	177RG ES WERE WORN AND T	Name of part: Part Number: THE COMMUTATO	COMMUTATOR 105932E DR WAS WORN IRREGULARLY.
Air Transport (ATA) code: Date: Details: (AUS) HYDRAULIC POWER PACK E	2913 04-MAR-96 ELECTRIC MOTOR RUNNIN	PUMP,MAIN Aircraft Model Number: IG SLOW - SLOW TO BUILD UP I	177RG	Name of part: Part Number:	POWER PACK 105932E
Air Transport (ATA) code: Date: Details: ON APPROACH INTO AIRCRAFT, W FURTHER INVESTIGATION OF THE DURING INVESTIGATION, HYDRAU	2916 18-JUN-95 /AS UNABLE TO EXTEND (INCIDENT SHOWED THE ILIC RESERVOIRS WERE F	RESERVOIR,MAIN Aircraft Model Number: OR RETRACT LANDING GEAR. A RE HAD BEEN MAINTENANCE P OUND LOW AND NOT SERVICE	177RG AIRCRAFT MADE EMER ERFORMED ON LANDII D CORRECTLY CAUSII	Name of part: Part Number: GENCY LANDING NG GEAR SYSTEI NG LANDINGGEA	RESERVOIR 105931S G CAUSING GEAR TO COLLAPSE. M BYPERSONS UNKNOWN. R TO MALFUNCTION
Air Transport (ATA) code: Date: Details: INSPECTION FOUND LEFT HAND F	3201 21-JUL-98 'IBERGLASS WHEEL PANT	LANDING GEAR/WHEEL F Aircraft Model Number: 'S ATTACHING BOLT HOLE MOL	AIRING 177B INT HOLE HAS 2 INCH I	Name of part: Part Number: -ONG CRACK.	WHEEL PANT
Air Transport (ATA) code: Date: Details: AFTER GEAR EXTENSION PILOT D APPEARED DOWN AND LOCKED B INDICATION. MAINTENANCE INSP THROUGH PIN TO BE FRACTURED REPLACEMENT OF DAMAGED PAR ACTUATOR SYSTEM.	3211 05-FEB-05 ID NOT GET DOWN AND L Y OBSERVERS ON THE G ECTION REVEALED MAIN O ON RT SIDE. SPECIFIC C, RTS. AIRCRAFT HAD RECE	MAIN LANDING GEAR AT Aircraft Model Number: OCKED GREEN LIGHT. EMERGE ROUND, DURING LOW APPROA GEAR ACTUATOR SUPPORT BR AUSE OF FAILURE UNKNOWN. EIVED 100 HOUR INSPECTION 7	ACH SEC 177RG ENCY PROCEDURES W CH. UPON TOUCH DO' ACKETS (LT AND RT) \ GEAR SYSTEM OPERA 0 HOURS PRIOR WITH	Name of part: Part Number: ERE COMPLETE WN THE PILOT R VERE CRACKED. TIONALLYCHECH NO ABNORMALIT	SUPPORT 20410141 D WITH SAME RESULTS. GEAR EPORTED ASAFE GEAR ALSO FOUND ACTUATOR KED SATISFACTORY AFTER IES NOTED IN MAIN GEAR



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Service Difficulty Report

	CESSNA	Airora	ft manufacturaria aa	rico number	177
Andrait manufacturer s name:	OEGGINA	AITCT	nt manufacturer S Se		177
Air Transport (ATA) code: Date: Details: LANDING GEAR RIGGING WAS BEI REPLACED BOTH BOLTS. AC TT:	3211 03-AUG-00 NG CHECKED. DISCOVERI 6,552.00 HOURS. (X)	MAIN LANDING GEAR AT Aircraft Model Number: ED BOLT SHEARED AT MOUN	TACH SEC 177RG T ATTACH POINT, MAIN	Name of part: Part Number:	BOLT AN425A SUPPORT ASSEMBLY.
Air Transport (ATA) code: Date: Details: DURING FLOURESCENT PENETRA	3213 10-JAN-02 NT INSPECTION, FOUND C	MAIN GEAR STRUT/AXLE Aircraft Model Number: RACK IN RADIUS OF AXLE SH	E/TRUCK 177RG IAFT (AREA 1A)	Name of part: Part Number:	AXLE
Air Transport (ATA) code: Date: Details:	3220 05-AUG-04	NOSE/TAIL LANDING GE Aircraft Model Number:	AR 177RG	Name of part: Part Number:	MECHANISM
NOSE LANDING GEAR FAILED TO E MOUNTED MIRROR. SEVERAL ATT EMERGENCY CK LIST, TO NO AVAI WAS ABLE TO BE PUMPED DOWN. 2000 SAME AS ABOVE, NO SINGLE	EXTEND DURING APPROAC FEMPTS WERE MADE TO E L. EMERGENCY DECLARE INSP, NO OBVIOUS CAUS CAUSE IDENTIFIED. AC RE	2H 8/5/04. NOSE GEAR WAS (XTEND NOSE GEAR, TO NO A D, AC LANDED NOSE GEAR L AL FACTOR OF INCIDENT CO PAIRED, FLOWNAPPROX 700	CONFIRMED TO NOT BE VAIL. MANUAL NOSE (P. WHEN AC WAS LIFT ULD BE DETERMINED.) HRS TIL THIS INCIDEN	EXTENDED BY C GEAR EXTENSION ED, NOSE GEAR AC TO BE REPAIL IT.) (NM052004000	COCKPIT INDICATION AND WING IWAS ALSO ATTEMPTED, DOORS FELL OPEN, NOSE GEAR RED. (1ST OCCURRENCE. JULY, 085) (K)
Air Transport (ATA) code: Date: Details:	3220 30-MAY-01	NOSE/TAIL LANDING GE Aircraft Model Number:	AR 177RG	Name of part: Part Number:	BOLT NAS4645A15
NOSE GEAR COLLAPSED ON LANE WITH THIS DESIGN, ONLY LOCTITE	DING ROLL OUT, DOWN LOO CV SEALANT AS STATED	CK LINK BOLT(LOWER) WAS F IN SERVICE MANUAL. PART	FOUND MISSING PN NA HAD 5311 HOURS.	S4645A15, NO ME	ANS OF SAFETYMAY BE USED
Air Transport (ATA) code: Date: Details: FOUND UPPER TRUNNION BEARIN	3221 17-FEB-99 IG PN S1997-40G12 COMPL	NOSE/TAIL GEAR ATTAC Aircraft Model Number: ETELY RUSTED AND THE BA	H SECTION 177RG RREL ASSY PN 2043003	Name of part: Part Number: 3-4 UPPER BEARII	BEARING 2043000202 NG SURFACE WORN WITH .1250
INCH GROOVE. FOUND DURING IN	SPECTION FOR NOSE WH	EEL SHIMMY PROBLEM.			
Air Transport (ATA) code: Date: Details:	3230 30-APR-03	GEAR EXTENSION AND AIRCRAFT	RETRACT SYSTEM 177RG	Name of part: Part Number:	BELLCRANK 204303112
NOSE GEAR FAILED TO EXTEND O DISCONNECTED. ON EXTENTION,	N LANDING SUBSTANTIAL NOSE GEAR FAILED ONCE	DAMAGE OCCURRED. JACKI AGAIN. MECHANICAL UPLO	ED AIRCRAFT, CYCLED CK FAILED TO RELEAS	GEAR TO UP POS E. SUSPECT OUT	SITION WITH AFTLG DOORS OF ADJUSTMENT.
Air Transport (ATA) code: Date: Details:	3230 25-JUN-00	GEAR EXTENSION AND Aircraft Model Number:	RETRACT SYSTEM 177RG	Name of part: Part Number:	ROD END S20496FG
Details: WHEN PILOT SELECTED GEAR DOWN, HE HEARD A POP/BANG UNDER THE FLOOR AND THE MAIN GEAR FAILED TO EXTEND. ACFT WAS LANDEDGEAR UP WITH MINIMAL AIRFRAME DAMAGE. INVEST REVEALED MAIN GEAR ACTUATOR ROD END BEARING PN S2049-6FG HAD FAILED AND SPLIT APART AT THE SPHERICAL END. FAILURE APPEARS TO HAVE STARTED AT THE HOLE IN THE ROD END USED FOR GREASING. AREA INSP APPROX 8 HRS PRIOR, DURING ANNUAL, WITH NO VISUAL DEFECTS. FOUND OLD CESSNA SI LETTER SE79-37 RECOMMENDING ROD END REPLACEMENT WITH PN S2426-6, WHICH IS NOW SUPERCEDED TO PN S3469-1. NEW P/N IS A SEALED UNIT WITH NO GREASER HOLE. SUBMITTER RECOMMENDED CESSNA RE-ADDRESS THIS AS A SERVICE BULLETIN WITH HIGHER					



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Service Difficulty Report

Aircraft Series Detail

				477
Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer's se	ries number:	177
Air Transport (ATA) code:	3230	GEAR EXTENSION AND RETRACT SYSTEM	Name of part:	PLUNGER
Date:	30-MAR-00	Aircraft Model Number: 177RG	Part Number:	204101738
Details:				
WHEN THE GEAR WAS RETRACTE GEAR WAS THEN EXTENDED AND THE PROBLEM. (X)	ED, THE SOLENOID PLUNGE THE GEAR HIT THE DOWN	ER EXTENSION WAS NOT PULLING THE DOWNLOCK LOCK MECHANISM, IT WOULD DRIVE IT OVERCENTI	MECHANISM CON ER BACKWARDS.	MPLETELY OPEN. WHEN THE REPLACINGWORN PARTS FIXED
Air Transport (ATA) code:	3230	GEAR EXTENSION AND RETRACT SYSTEM	Name of part:	HOSE
Date:	11-SEP-98	Aircraft Model Number: 177RG	Part Number	5217840134
Details:	TH OEF SO		r art Hamber.	0211040104
CRUISE FLIGHT AT 5,500 FEET, PIL	OT HEARD A BANG. NO AI	BNORMAL ENGINE CHANGES. AIRSPEED DROPPED	10-15 KNOTS. PI	LOT DECIDED TO LAND AT
NEAREST AIRPORT. LANDING GE	AR WOULD NOT EXTEND.	FLY-BY SHOWED GEAR HANGING. MANUAL EXTENS	SION WOULD NOT	LOWER GEAR. PILOT LANDED
ON BELLY OF AIRCRAFT. FOUND	UP LINE HOSE TO NOSE GI	EAR ACTUATOR BURST.		
Air Transport (ATA) code:	3230	GEAR EXTENSION AND RETRACT SYSTEM	Name of part-	SUPPORT
Date:	01-MAR-98	Aircraft Model Number: 177RG	Part Number	20410141
Details:	01 10/11/00		r art Number.	20410141
MAIN LANDING GEAR ACTUATOR	SUPPORTS CRACKED.			
	0000			BIN
Air Transport (ATA) code:	3230	GEAR EXTENSION AND RETRACT SYSTEM	Name of part:	PIN MOACEECOEA
Date:	17-001-97	Aircraft Model Number: 177RG	Part Number:	MS16555354
		CTIVE PADS (SEE MDR97/1389) WHEN THE DAMAGE		
REPLACEMENT ITEMS THEY APPE	ARED TO BE MANUFACTU	RED FROM A SOFTER MATERIAL (AN5 BOLTS). PERS	SONNEL/MAINTEN	ANCE ERROR.
				2017
Air Transport (ATA) code:	3230	GEAR EXTENSION AND RETRACT SYSTEM	Name of part:	BOLI
Date:	20-NOV-96	Aircraft Model Number: 177RG	Part Number:	20430156
Details:				
INSP FOUND DRAG LINK ASST BO	LI DROKEN.			
Air Transport (ATA) code:	3230	GEAR EXTENSION AND RETRACT SYSTEM	Name of part:	LOCK VALVE
Date:	25-JUL-96	Aircraft Model Number: 177RG	Part Number:	12805201
Details:				
PILOT WAS UNABLE TO EXTEND L	ANDING GEAR EITHER BY	THE NORMAL OR THE EMERGENCY HYDRAULIC SYS	STEM. A GEAR UP	
MINOR DAMAGE. WHEN ACFT WA		EMOVING IT, NOTED THE LANDING GEAR COULD NO		
DOWN AND LOCKED POSITION H	YDRAULIC PRESSURE WAS	S TRAPPED IN RETRACT 'SIDE' OF HYD SYS A B-NI	T ON THE RETRA	CT PORT OF NOSE GEAR HYD
ACTUATOR WAS LOOSENED TO A	LLOW FLUID TO ESCAPE A	ND THE HAND PUMP WAS THEN USED TO PUMP LA	NDING GEAR TO A	OWN AND LOCKED' POSITION
ALLOWING ACFT TO BE TOWED FI	ROM RUNWAY.			
Air Transport (ATA) code:	3230	GEAR EXTENSION AND RETRACT SYSTEM	Name of part:	
Date:	13-NOV-95	Aircraft Model Number: 177RG	Part Number:	520496FG

Details: DURING FLIGHT, BOTH MAIN LANDING GEARS DROPPED TO TRAIL. GEAR-UP LANDING WAS MADE. ON MAINTENANCE CHECK, THE ROD END ON THE MAIN GEAR ACTUATOR CYLINDER WAS FOUND BROKEN.



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Service Difficulty Report

Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer's series number: 177
Air Transport (ATA) code: Date: Details: MLG WOULD NOT FULLY EXTEND OPENED PILOT'S DOOR. INVESTI INSTALLING NEW MODIFIED PART	3230 25-NOV-95 . WITH SECOND PILC GATION FOUND ROD THAT IS NOW AVAIL	GEAR EXTENSION AND RETRACT SYSTEM Aircraft Model Number: 177RG Part Number: S20496FG OT FLYING AIRCRAFT, PILOT USED A MODIFIED GOLF CLUB TO PULL GEAR INTO LOCK POSITION THROUGH D END BEARING BROKEN. SUBMITTER RECOMMENDED AD BE ISSUED REMOVING THIS PART AND LABLE. THIS WOULD PREVENT A GEAR-UP LANDING.
Air Transport (ATA) code: Date: Details: DOWNLOCK SUPPORT LOWER PI SYSTEMS OPERATED VERY MARG DOWNLOCK ASSEMBLED. SUSPE PINS IF ACFT IS OPERATED ON RE	3230 10-MAY-96 N FOUND BROKEN O GINAL DURING IFR FI ICT CAUSE, AIRCRAF DUGH LANDING STR	GEAR EXTENSION AND RETRACT SYSTEM Name of part: DOWNLOCK SUPPORT Aircraft Model Number: 177RG Part Number: 204101744 DFF CAUSING POWERPACK MOTOR TO NOT SHUT OFF. BATTERY DRAINED VERY LOW. ELECTRICAL LIGHT. FOUND LEFT DOWNLOCK SUPPORT LOWER PIN CRACKED. THIS CRACK NOT VISIBLE WITH FT OPERATED ON ROUGH LANDING STRIP. SUBMITTER RECOMMENDS DISASSEMBLY OF LOCK TO ZYGLOW RIPS.
Air Transport (ATA) code: Date: Details: DOWNLOCK SUPPORT LOWER PI CRACK NOT VISIBLE WITH DOWN DISASSEMBLY OF LOCK TO ZYGL	3230 10-MAY-96 N FOUND CRACKED. LOCK ASSEMBLED C OW PINS IF A/C IS OF	GEAR EXTENSION AND RETRACT SYSTEM Name of part: SUPPORT Aircraft Model Number: 177RG Part Number: 204101743 . THIS CONDITION WAS FOUND AFTER FINDING RT DOWNLOCK SUPPORT LOWER PIN BROKEN OFF. THIS ON AIRCRAFT. SUSPECT CAUSE: AIRCRAFT OPERATED ON ROUGH LANDING STRIP. RECOMMEND PERATED ON ROUGH LANDING STRIPS.
Air Transport (ATA) code: Date: Details: AT ANNUAL INSPECTION, THIS PA SERVICE LETTER BE MADE MAND	3230 17-JUN-96 RT WAS FOUND BRO ATORY.	GEAR EXTENSION AND RETRACT SYSTEM Name of part: ROD END Aircraft Model Number: 177RG Part Number: S24266 OKEN. SUBMITTER STATED SL SE79-37 OBVIOUSLY WAS NEVER COMPLIED WITH. SUGGEST THAT THIS
Air Transport (ATA) code: Date: Details: BOLT WHICH CONNECTS THE FOI THROUGH THE CENTER OF LUBR BOLT. NLG FAILURE WAS IMMINE	3230 31-JUL-96 RWARD AND AFT NO ICATION PORT WHIC	GEAR EXTENSION AND RETRACT SYSTEM Name of part: BOLT Aircraft Model Number: 177RG Part Number: 20430156 DSE LANDING GEAR DRAG LINKS WAS FOUND LOOSE. FURTHER INSPECTION SHOWED BOLT HAD BROKEN CH IS A HOLE DRILLED INTO THE DIAMETER OF THE BOLT WHICH MEETS A HOLEDRILLED IN THE AXIS OF THE
Air Transport (ATA) code: Date: Details: (AUS) LANDING GEAR PADS MISS SHELL CAUSING DELAMINATION.	3230 17-OCT-97 ING. PADS ARE VULO	GEAR EXTENSION AND RETRACT SYSTEM Name of part: PAD Aircraft Model Number: 177RG Part Number: 24136 CANISED/BONDED TO A STEELSHELL. CORROSION APPEARS TO HAVE SPREAD BETWEEN THE PAD AND THE
Air Transport (ATA) code: Date: Details: MAIN LANDING GEAR ACTUATOR	3230 01-MAR-98 SUPPORTS CRACKE	GEAR EXTENSION AND RETRACT SYSTEM Name of part: SUPPORT Aircraft Model Number: 177RG Part Number: 20410142



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer's se	eries number:	177
	0200101			
Air Transport (ATA) code: Date: Details: MAIN LANDING GEARS FAILED TC THE AIRCRAFT WAS LANDING WI SEVERAL BACK AND FORTH MOV FROM THE LT HAND PINION GEAR GEAR AND JAMMED THE MAIN GE	3230 17-JUN-98 EXTEND. FROM CH TH BOTH MAINS IN T EMENTS TO GET TH WAS LYING IN THE ARS. ON LANDING.	GEAR EXTENSION AND RETRACT SYSTEM Aircraft Model Number: 177RG HASE PLANE, OBSERVED NOSE GEAR WOULD RETRACT AI RAIL. HOISTING THE AIRCRAFT, FOUND RT MAIN WAS EAS E LT HAND GEAR DOWN. ON INSPECTION, FOUND BOTH S BELLY. SUBMITTER BELIEVES THE SEQUENCE OF FAILUF THE SECTOR BOLTS FAILEDFROM THE WEIGHT OF THE A	Name of part: Part Number: ND EXTEND. THE SILY MOVED TOTH SECTOR GEAR BC RE WAS THAT A TO INCRAFT FORCIN.	GEAR 20810018 MAINS WOULD NOT MOVE, AND HE DOWN POSITION. IT TOOK UTS SHEARED. ONE TOOTH DOTH BROKE OFF THE PINION G THE GEARS UP.
Air Transport (ATA) code: Date: Details: DURING AN ANNUAL INSPECTION	3230 28-SEP-98 , THE NOSE GEAR D	GEAR EXTENSION AND RETRACT SYSTEM Aircraft Model Number: 177RG	Name of part: Part Number:	BOLT 20430156 BOLT IS DRILLED AND ZERKED
WITH NEW. SUBMITTER SUGGES	TED REMOVING THIS	S BOLT AT EVERY INSPECTION AS THERE WAS NO REAL N	IOTICEABLE PRO	BLEM PRIOR TO REMOVAL.
Air Transport (ATA) code: Date: Details: DURING LANDING GEAR RETRAC MISS THE UPLOCK HOOK AND RE SPRING WAS REPLACED AND OP	3230 23-AUG-02 TION TEST, NOSE GE STRICT THE NOSE C ERATION WAS NORM	GEAR EXTENSION AND RETRACT SYSTEM Aircraft Model Number: 177RG EAR WOULD NOT FULLY RETRACT. THE BELLCRANK WAS GEAR TRAVEL. THE SPRING WAS FOUND STRETCHED AND WAL. THIS DEFECT CAUSED THE NOSE GEAR TO STAY PAU	Name of part: Part Number: FOUND OVERCEI NOT PROVIDING RTIALLY OUT OF T	SPRING 14141162 NTER, CAUSING THEROLLER TO ADEQUATE TENSION. THE THE WHEEL WELL AND THE GEAR
DOORS TO REMAIN APPROXIMAT	ELY 30 DEGREES OF	PEN. THIS COULD RESULT IN FAILURE OF THE DOORS AN	D POSSIBLE JAM	AING OF THE NOSE GEAR.
Air Transport (ATA) code: Date: Details: NOSE GEAR IN UP POSITION HAD DID NOT FULLY EXTEND DUE TO I	3230 02-OCT-01 HYDRAULIC LOCK. HYDRAULIC LOCK IN	GEAR EXTENSION AND RETRACT SYSTEM Aircraft Model Number: 177RG KEEPING THE NOSE GEAR IN THE UP POSITION EXTENDE I THE RETURN LINE.	Name of part: Part Number: D GEAR, MAIN GE	LANDING GEAR
Air Transport (ATA) code: Date: Details: (CAN) PILOT WAS COMING INTO L APPROACH & TRIED SEVERAL TIN	3233 12-OCT-03 AND SELECTED GE/ JES TO GET GEAR D	LANDING GEAR ACTUATOR Aircraft Model Number: 177RG AR DOWN. HEARD LOUD BANG FROM REAR OF A/C AND GO	Name of part: Part Number: DT NO GREEN DO	BEARING S24266 WN LIGHT INDICATION. ABORTED
DOWN BUT MAIN GEAR WAS PAR AIRCRAFT. NLG WAS DOWN & LO ROD END ATTACHING MLG ACTU, ROD END REPLACED & GEAR SW	TIALLY DOWN. PILO CKED. A/C LIFTED UI ATOR TO MLG LINKA ING COMPLETED WI	T ELECTED TO DO LANDING ON GRASS BESIDE RUNWAY. P AND GEAR WAS LOCKED DOWN. AIRCRAFT WAS PUT ON GE BROKEN, PART HAD BROKEN OFF GOT UNDERNEATH TH NO PROBLEMS.	LANDEDSUCESSF I JACKS AT HANG LINKAGE &STOPF	ULLY LITTLE DAMAGE TO ER. FLOOR WAS LIFTED & FOUND PED GEAR FROM LOCKING DOWN.
Air Transport (ATA) code: Date: Details: DURING CRUISE FLIGHT PILOT RE AND RETURNED TO DEPARTURE OBTAINED A GEAR DOWN INDICA	3233 13-JUN-01 EPORTED BUFFET AI AIRPORT. SELECTE LION LINEVENTE!!!	LANDING GEAR ACTUATOR Aircraft Model Number: 177RG ND LOSS OF GEAR UP INDICATION. PILOT SLOWED TO GE D GEAR DOWN AND COULD NOT GET GEAR DOWN INDICA LANDING ON INSPECTION FOLIND THE LET MAIN GEA	Name of part: Part Number: AR SPEED AND D TION. EMERGEN	ACTUATOR 12815041 ESENDED TO VFR CONDITIONS CYEXTENDED GEAR AND TUATOR #1281504-1 HAD

RUPTURED END SHAFT SEAL AND MOST OF HYDRAULIC FLUID HAD LEAKED FROM SYSTEM. DISSASEMBELED AND FOUND NO DEFECTS EXCEPT FAILED SEAL. REPLACED SEAL AND FUNTION TEST OK.



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer	s series number: 177
<u>, an or ant manufacturier of hame.</u>	5200101		
Air Transport (ATA) code: Date: Details: MAIN LANDING GEAR ACTUATOR WITH GEAR UP. THE AIRCRAFT A	3233 09-JAN-98 ROD-END FAILED DURI ND THE PARTICULAR P	LANDING GEAR ACTUATOR Aircraft Model Number: 177RG NG FLIGHT. LANDING GEAR COULD NOT BE LOWE ART IN QUESTION WERE INSPECTED 5 HOURS PRI	Name of part: BEARING Part Number: S24266 RED AND LOCKED DOWN. PILOT MADEA LANDING OR WITH NO VISIBLEDISCREPANCY.
Air Transport (ATA) code: Date: Details:	3233 03-MAY-95	LANDING GEAR ACTUATOR Aircraft Model Number: 177RG	Name of part: JAM NUT Part Number: AN3167R
WHILE PERFORMING GEAR SWIN ROD END HAD ROTATED OUT OF ROD. SUBMITTER RECOMMENDS	G, FOUND MAIN GEAR A PISTON ENOUGH TO CA CHECKING JAM NUT W	ACTUATOR JAM NUT LOOSE. THIS IS THE 2ND CAR AUSE GEAR NOT TO LOCK DOWN. THERE IS NO SA /HENEVER ACTUATOR IS ACCESSIBLE.	DINAL RG FOUND THIS WAY. FIRSTCARDINAL, THE FETY ON JAM NUT TO PREVENT BACKING OFF OF
Air Transport (ATA) code: Date: Dotaile:	3233 12-OCT-03	LANDING GEAR ACTUATOR Aircraft Model Number: 177RG	Name of part: BEARING Part Number: S24266
(CAN) ON APPROACH FOR LANDIN ABORTED HIS LANDING. HE CIRCI BY OF THE TOWER. TOWER PERS GRASS BESIDE RUNWAY AND LAN THAT THE MAIN GEAR ACTUATOR AND JAMMED STOPPING THE GEA	NG PILOT SELECTED GE LED THE AIRPORT AND CONNEL SAW TOLD HIM NDED SAFELY. THE NOS ROD EN D THAT IS AT AR FROM LOCKING DOV	EAR DOWN ANDHEARD A LOUD BANG FROM BEHIN TRIED NUMEROUS TIMES TO GET HIS GEAR DOWN THAT HIS NOSE GEAR WAS DOWN BUT HIS MAIN (SE GEAR WAS LOCKED DOWN BUT THE MAINGEAR FACHED TO THE GEAR HADBROKEN AND THE BRO VN CORRECTLY.	D HIM RECIEVING NO GREEN DOWN LIGHT THE PILOT I. FINALLY HE SELECTED GEAR DOWN AND DID A FLY SEAR WAS JUST HANGING THERE. PILOT LANDED ON WAS NOT.THE FLOOR WAS LIFTED AND DISCOVERED KEN PIECE HAD FALLEN INTO THE GEAR BELLCRANK
Air Transport (ATA) code: Date:	3234 23-OCT-02	LANDING GEAR SELECTOR Aircraft Model Number: 177RG	Name of part: SELECTOR SWITCH Part Number: 8857K44
PILOT INEVERTANTLY BUMPED M ON MLG SWITCH. UPON INVESTIG COME OFF THE SWITCH. THIS CAI SWITCH INTO THE UP POSITION C PROPERLY.	LG SWITCH ON SHORT FATION FOUND THAT TH USED THE SAFETY NOT OR DOWN POSITION. IN:	FINAL WHILE MOVING THE TRIM WHEEL, CAUSING IE SWITCH KNOB WHEN SCREWED COMPLETLY OI TO WORK AND MADE IT EASY TO MOVE THE SWIT STALLED A NEW SWITCH AND KNOB AND CHECKE	A GEAR-UP LANDING. THE SAFETY FAILED TO WORK ITO SWITCH CAUSED THESPRING LOADED SAFETY TO CH WITHOUT PULLING OUT ON THE KNOB TO MOVE THE OPERATION AND WAS FOUND TO WORK
Air Transport (ATA) code: Date:	3246 02-DEC-02	WHEEL/SKI/FLOAT Aircraft Model Number: 177RG	Name of part: HUB Part Number: D30259
CENTER SECTION OF WHEEL FOL	JND CRACKED BOTH M	AIN WHEELS. WHEELS REPLACE WITH NEW CLEVE	LAND TWO PIECE TYPE WHEELS.
Air Transport (ATA) code: Date: Details:	3246 01-MAR-97	WHEEL/SKI/FLOAT Aircraft Model Number: 177RG	Name of part: HUB Part Number: C30482
CIRCUMSTANCE UNKNOWN. FOL AIRCRAFT AND DEFECTIVE PART.	IND DURING ANNUAL IN	ISPECTION. HUB THREAD CRACKS LOOK LIKE OVE	RTORQUE ON A VERY THIN BOSS. 1,070 HOURS ON
Air Transport (ATA) code: Date: Details:	3250 20-JAN-05	LANDING GEAR STEERING SYSTEM Aircraft Model Number: 177RG	Name of part: SHIMMY DAMPENER Part Number: 204301410

DURING PRE-INSPECTION RUN UP/ TASK, STEERING WAS RESTRICTED TO RT. FOUND THAT WHOEVER HAD THE SHIMMY DAMPNER OFF LAST, REVERSED THE GIMBAL THAT ATTACHES IT TO THE ENGINE MOUNT. THERE SHOULD BE A WARNING PLACARD OR MODIFICATION THAT MAKESREVERSAL IMPOSSIBLE. (K)



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Service Difficulty Report

Air Transport (ATA) code: 3252 SHIMMY DAMPER Name of part: SHIMMY DAMPENER Datei: 24-FEB-00 Aircraft Model Number: 177B Part Number: Details: After RepLaCing an old shimmy dampener with a new one at approximately 100 hours in Service, The new part Broke at The outer c-CL Ning Splitting The outer CVLINDER costs: This Appende as The ArcRaft Stopped Shimmion. The END Pull, C-CLAMP and ALL Pull WERE LO Noi Nuprices Total Time, 100 HOURS. (ATT ansport (ATA) code: 3252 ShiMMY DAMPER Name of part: CYLINDER Date: 03-JUL-97 Aircraft Model Number: 177B Part Number: 17430213 Details: SHIMMY DAMPENER HOUSING FAILED DURING FLIGHT. UNIT FAILED AT THE OUTER PORTION OF OUTER RETAINING RING FLANGE. FAILUREWAS ON DOWN VIND LEG AFER A NORMAL TOUCH AND GO. SUBMINT THE STATES OWNER MENTIONED SEVERAL YEARS AGO, TWO SEPARATE SEVERE SHIMMY INSTANCE THAT COULD HAVE CREATED CRACKS. Part Number: 17430213 Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: WIRE Date: 04-JUN-04 Aircraft Model Number: 177RG Part Number: 20700291 Date: 04-JUN-04 Aircraft Model Number: 177RG Pa	ircraft manufacturer's name:	CESSNA	Aircra	ft manufacturer's se	ries number:	177
Air Transport (ATA) code: 3252 24-FEB-00 SHIMMY DAMPER Name of part: SHIMMY DAMPENER Part Number: Datai: 24-FEB-00 Aircraft Model Number: 177B Part Number: Part Number: Part Number: Part Number: Part Number: AFTER REPLACING AN OLD SHIMMY DAMPENER WITH A NEW ONE AT APPROXIMATELY 100 HOURS IN SERVICE. THE NEW PART BROKE AT THE OUTER C-CL NIG SPLITTING THE OUTER CYLINDER CASE: This Harpenen As The ArcRaft Stoppe D SHIMMING. THE END PLUG, C-CLAMP AND ALL PLUD WERE LO NO INJURIES TO OCCUPANTS. THIS IS THE NEW STYLE CYLINDER. SUBMITTER STATEDTHIS CYLINDERMAY NEED MORE END DISTANCE OR THICKNESS. P. TOTAL TIME, 100 HOURS. (X) Air Transport (ATA) code: 3252 SHIMMY DAMPER Name of part: CYLINDER Part Number: 17430213 Details: 03-JUL-97 Aircraft Model Number: 177B Part Number: 17430213 Details: 03-JUL-97 Aircraft Model Number: 177B Part Number: 17430213 Details: 03-JUL-97 Aircraft Model Number: 177B Part Number: 17430213 SHIMMY DAMPENER HOUSING FAILED DURING FLIGHT. UNIT FAILED AT THE OUTER PORTION OF OUTER RETAINING RING FLANGE. FAILUREWAS ON DOWN WIND LEG ATTER A NORMAL TOUCH AND GO. SUBMITTER STATES OWNER MATIONED SEVERAL YEARS AGO. TWO SEPARATE SEVERE SHIMMY INSTANCE THAT COULD HAVE CREATED A NORMAL TOUCH AND GO. SUBMITTER STATES OWNER MATIONED SEVERAL YEARS AGO. TW						
AFTER REPLACING AN OLD SHIMMY DAMPENER WITH A NEW ONE AT APPROXIMATELY 100 HOURS IN SERVICE. THE NEW PART BROKE AT THE OUTER C-CL INIG SPLITTING THE OUTER CYLINDER CASE. THIS HAPPENED AS THE AIRCRAFT STOPPED SHIMMING. THE END PLUG, C-CLAMP AND ALL FLUID WERE LC NO INJURIES TO OCCUPANTS. THIS IS THE NEW STYLE CYLINDER. SUBMITTER STATEDTHIS CYLINDERMAY NEED MORE END DISTANCE OR THICKNESS. P TOTAL TIME, 100 HOURS. (X) Air Transport (ATA) code: 3252 SHIMMY DAMPER Name of part: CYLINDER Data: 03-JUL-97 Aircraft Model Number: 177B Part Number: 17430213 Details: SHIMMY DAMPENER HOUSING FAILED DURING FLIGHT. UNIT FAILED AT THE OUTER PORTION OF OUTER RETAINING RING FLANGE. FAILUREWAS ON DOWN WIND LEG AFTER A NORMAL TOUCH AND GO. SUBMITTER STATES OWNER MENTIONED SEVERAL YEARS AGO. TWO SEPARATE SEVERE SHIMMY INSTANCE THAT COULD HAVE CREATED CRACKS. PRIOR TO FAILURE, UNIT WAS VISUALLY INSPECTED FOR LEAKS AND CHECKED FULL STROKE FOR AIR IN SYSTEM. Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: WIRE Date: 04-JUN-04 Aircraft Model Number: 177RG Part Number: 20700291 Details: (CAN) PILOT EXPERIENCED NO GEAR DOWN AND LOCK INDICATION LIGHT AFTER GEAR HAD COMPLETED CYCLE. AFTER AN UN-EVENTFUL LANDING AND INSPECTION, FOUND NOSE GEAR DOWNLOCK SWITCH WIRE WAS BROKEN AT BASE OF SWITCH. Name of part: SWITCH Part Number: 20700174 Date: 01-NOV-98 Aircraft Model Number: 177RG Part Number: 20700174 Date: DOWN NOKES SWITCH WIRE WAS BROKEN AT BASE OF SWITCH. Name of part: SWITCH	.ir Transport (ATA) code: bate: Details:	3252 24-FEB-00	SHIMMY DAMPER Aircraft Model Number:	177B	Name of part: Part Number:	SHIMMY DAMPENER
Air Transport (ATA) code: 3252 SHIMMY DAMPER Name of part: CYLINDER Date: 03-JUL-97 Aircraft Model Number: 177B Part Number: 17430213 Details: SHIMMY DAMPENER HOUSING FAILED DURING FLIGHT. UNIT FAILED AT THE OUTER PORTION OF OUTER RETAINING RING FLANGE. FAILUREWAS ON DOWN SHIMMY DAMPENER HOUSING FAILED DURING FLIGHT. UNIT FAILED AT THE OUTER PORTION OF OUTER RETAINING RING FLANGE. FAILUREWAS ON DOWN SHIMMY DAMPENER HOUSING FAILED DURING FLIGHT. UNIT FAILED AT THE OUTER PORTION OF OUTER RETAINING RING FLANGE. FAILUREWAS ON DOWN SHIMMY DAMPENER HOUSING FAILED DURING FLIGHT. UNIT WAS VISUALLY INSPECTED FOR LEAKS AND CHECKED FULL STROKE FOR AIR IN SYSTEM. Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: WIRE Date: 04-JUN-04 Aircraft Model Number: 177RG Part Number: 20700291 Details: 01-NOV-98 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 LG POSITION AND WARNING <td< td=""><td>FTER REPLACING AN OLD SHIMM ING SPLITTING THE OUTER CYLIN O INJURIES TO OCCUPANTS. THI OTAL TIME, 100 HOURS. (X)</td><td>Y DAMPENER WITH A NEW IDER CASE. THIS HAPPEN S IS THE NEW STYLE CYLI</td><td>V ONE AT APPROXIMATELY 10 IED AS THE AIRCRAFT STOPP NDER. SUBMITTER STATEDT</td><td>00 Hours in Service, Ped Shimming. The ei This Cylindermay Ne</td><td>THE NEW PART ND PLUG, C-CLAM ED MORE END DI</td><td>BROKE AT THE OUTER C-CLAMP IP AND ALL FLUID WERE LOST. STANCE OR THICKNESS. PART</td></td<>	FTER REPLACING AN OLD SHIMM ING SPLITTING THE OUTER CYLIN O INJURIES TO OCCUPANTS. THI OTAL TIME, 100 HOURS. (X)	Y DAMPENER WITH A NEW IDER CASE. THIS HAPPEN S IS THE NEW STYLE CYLI	V ONE AT APPROXIMATELY 10 IED AS THE AIRCRAFT STOPP NDER. SUBMITTER STATEDT	00 Hours in Service, Ped Shimming. The ei This Cylindermay Ne	THE NEW PART ND PLUG, C-CLAM ED MORE END DI	BROKE AT THE OUTER C-CLAMP IP AND ALL FLUID WERE LOST. STANCE OR THICKNESS. PART
Details: SHIMMY DAMPENER HOUSING FAILED DURING FLIGHT. UNIT FAILED AT THE OUTER PORTION OF OUTER RETAINING RING FLANGE. FAILUREWAS ON DOWN WIND LEG AFTER A NORMAL TOUCH AND GO. SUBMITTER STATES OWNER MENTIONED SEVERAL YEARS AGO, TWO SEPARATE SEVERE SHIMMY INSTANCE THAT COULD HAVE CREATED CRACKS. PRIOR TO FAILURE, UNIT WAS VISUALLY INSPECTED FOR LEAKS AND CHECKED FULL STROKE FOR AIR IN SYSTEM. Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: WIRE Date: 04-JUN-04 Aircraft Model Number: 177RG Part Number: 20700291 Details: (CAN) PILOT EXPERIENCED NO GEAR DOWN AND LOCK INDICATION LIGHT AFTER GEAR HAD COMPLETED CYCLE. AFTER AN UN-EVENTFUL LANDING AND INSPECTION, FOUND NOSE GEAR DOWNLOCK SWITCH WIRE WAS BROKEN AT BASE OF SWITCH. Aircraft Model Number: 177RG Part Number: 20700174 Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 Aircraft Model Number: 177RG Part Number: 20700174 ON GEAR RETRACTION, BOTH THE UP AND DOWN LIGHTS WERE ON. PLACED GEAR SELECTOR IN DOWN POSITION AND GEAR STAYED UP. WHENEMG PUM GIVEN STROKES, NOSE GEAR STARTED DOWN. THE PUMP THEN CAME ON AND GEAR STARTED TO EXTEND. WHEN THE NOSE GEARLOCKED DOWN THE STOPPED, LEAVING MAINS IN TRAIL POSITION. CONTINUED TO PUMP EMG PUMP, BOTH MAINS LOCKED DOWN. ONINSPECTION, GEAR DOWN MAGNET FOR GEAR WAS WELDED CLOSED, AND LT WAS INTERMITTENT. REPLACED BOTH SWITCHES AND ALL SYSTEMS OK	.ir Transport (ATA) code: eate:	3252 03-JUL-97	SHIMMY DAMPER Aircraft Model Number:	177B	Name of part: Part Number:	CYLINDER 17430213
Air Transport (ATA) code: 3260 04-JUN-04 LG POSITION AND WARNING Aircraft Model Number: Name of part: WIRE Part Number: 20700291 Details: (CAN) PILOT EXPERIENCED NO GEAR DOWN AND LOCK INDICATION LIGHT AFTER GEAR HAD COMPLETED CYCLE. AFTER AN UN-EVENTFUL LANDING AND INSPECTION, FOUND NOSE GEAR DOWNLOCK SWITCH WIRE WAS BROKEN AT BASE OF SWITCH. Name of part: SWITCH SWITCH Air Transport (ATA) code: 3260 LG POSITION AND WARNING Aircraft Model Number: Name of part: SWITCH Date: 01-NOV-98 Aircraft Model Number: 177RG Part Number: 20700174 Details: 00 GEAR RETRACTION, BOTH THE UP AND DOWN LIGHTS WERE ON. PLACED GEAR SELECTOR IN DOWN POSITION AND GEAR STAYED UP. WHENENGP PUM GIVEN STROKES, NOSE GEAR STARTED DOWN. THE PUMP THEN CAME ON AND GEARS STARTED TO EXTEND. WHEN THE NOSE GEARLOCKED DOWN MAGNET FOR GEAR WAS WELDED CLOSED, AND LT WAS INTERMITTENT. REPLACED BOTH SWITCHES AND ALL SYSTEMS OK TO NORMAL. Air Transport (ATA) code: 3260 LG POSITION AND WARNING 01-NOV-98 Name of part: SWITCH Part Number: Air Transport (ATA) code: 3260 LG POSITION AND WARNING 01-NOV-98 Name of part: SWITCH Part Number:	etails: HIMMY DAMPENER HOUSING FAIL /IND LEG AFTER A NORMAL TOUC HAT COULD HAVE CREATED CRA	.ED DURING FLIGHT. UNIT XH AND GO. SUBMITTER S CKS. PRIOR TO FAILURE, I	FAILED AT THE OUTER POR TATES OWNER MENTIONED UNIT WAS VISUALLY INSPEC	TION OF OUTER RETAI SEVERAL YEARS AGO, TED FOR LEAKS AND C	NING RING FLANG TWO SEPARATE HECKED FULL ST	GE. FAILUREWAS ON DOWN- SEVERE SHIMMY INSTANCES 'ROKE FOR AIR IN SYSTEM.
Details: (CAN) PILOT EXPERIENCED NO GEAR DOWN AND LOCK INDICATION LIGHT AFTER GEAR HAD COMPLETED CYCLE. AFTER AN UN-EVENTFUL LANDING AND INSPECTION, FOUND NOSE GEAR DOWNLOCK SWITCH WIRE WAS BROKEN AT BASE OF SWITCH. Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 Aircraft Model Number: 177RG Part Number: 20700174 Details: 0 01-NOV-98 Aircraft Model Number: 177RG Part Number: 20700174 ON GEAR RETRACTION, BOTH THE UP AND DOWN LIGHTS WERE ON. PLACED GEAR SELECTOR IN DOWN POSITION AND GEAR STAYED UP. WHENEMG PUM GIVEN STROKES, NOSE GEAR STATED DOWN. THE PUMP THEN CAME ON AND GEARS STARTED TO EXTEND. WHEN THE NOSE GEARLOCKED DOWN THE STOPPED, LEAVING MAINS IN TRAIL POSITION. CONTINUED TO PUMP EMG PUMP, BOTH MAINS LOCKED DOWN. ONINSPECTION, GEAR DOWN MAGNET FOR GEAR WAS WELDED CLOSED, AND LT WAS INTERMITTENT. REPLACED BOTH SWITCHES AND ALL SYSTEMS OK TO NORMAL. Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 LG POSITION AND WARNING Part Number: 20700171	ir Transport (ATA) code:	3260 04-JUN-04	LG POSITION AND WARM Aircraft Model Number:	NING 177RG	Name of part: Part Number:	WIRE 20700291
Air Transport (ATA) code: 3260 01-NOV-98 LG POSITION AND WARNING Aircraft Model Number: Name of part: SWITCH Part Number: 20700174 Details: ON GEAR RETRACTION, BOTH THE UP AND DOWN LIGHTS WERE ON. PLACED GEAR SELECTOR IN DOWN POSITION AND GEAR STAYED UP. WHENEMG PUM GIVEN STROKES, NOSE GEAR STARTED DOWN. THE PUMP THEN CAME ON AND GEARS STARTED TO EXTEND. WHEN THE NOSE GEAR STAYED UP. WHENEMG PUM STOPPED, LEAVING MAINS IN TRAIL POSITION. CONTINUED TO PUMP EMG PUMP, BOTH MAINS LOCKED DOWN. ONINSPECTION, GEAR DOWN MAGNET FOR GEAR WAS WELDED CLOSED, AND LT WAS INTERMITTENT. REPLACED BOTH SWITCHES AND ALL SYSTEMS OK TO NORMAL. Air Transport (ATA) code: 3260 01-NOV-98 LG POSITION AND WARNING Aircraft Model Number: Name of part: SWITCH Part Number: Date: 01-NOV-98 LG POSITION AND WARNING Aircraft Model Number: Name of part: SWITCH Part Number:	CTAILS: XAN) PILOT EXPERIENCED NO GE ISPECTION, FOUND NOSE GEAR I	AR DOWN AND LOCK INDIO DOWNLOCK SWITCH WIRE	CATION LIGHT AFTER GEAR H WAS BROKEN AT BASE OF S	HAD COMPLETED CYCL SWITCH.	.E. AFTER AN UN	-EVENTFUL LANDING AND
ON GEAR RETRACTION, BOTH THE UP AND DOWN LIGHTS WERE ON. PLACED GEAR SELECTOR IN DOWN POSITION AND GEAR STAYED UP. WHENEMG PUN GIVEN STROKES, NOSE GEAR STARTED DOWN. THE PUMP THEN CAME ON AND GEARS STARTED TO EXTEND. WHEN THE NOSE GEARLOCKED DOWN THE STOPPED, LEAVING MAINS IN TRAIL POSITION. CONTINUED TO PUMP EMG PUMP, BOTH MAINS LOCKED DOWN. ONINSPECTION, GEAR DOWN MAGNET FOR GEAR WAS WELDED CLOSED, AND LT WAS INTERMITTENT. REPLACED BOTH SWITCHES AND ALL SYSTEMS OK TO NORMAL. Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 Aircraft Model Number: 177RG Part Number: 20700171	.ir Transport (ATA) code: late:	3260 01-NOV-98	LG POSITION AND WARN Aircraft Model Number:	NING 177RG	Name of part: Part Number:	SWITCH 20700174
Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: SWITCH Date: 01-NOV-98 Aircraft Model Number: 177RG Part Number: 20700171	N GEAR RETRACTION, BOTH THE IVEN STROKES, NOSE GEAR STA TOPPED, LEAVING MAINS IN TRAI EAR WAS WELDED CLOSED, AND	UP AND DOWN LIGHTS WI RTED DOWN. THE PUMP T L POSITION. CONTINUED LT WAS INTERMITTENT. [ERE ON. PLACED GEAR SEL THEN CAME ON AND GEARS 3 TO PUMP EMG PUMP, BOTH I REPLACED BOTH SWITCHES	ECTOR IN DOWN POSIT STARTED TO EXTEND. MAINS LOCKED DOWN. AND ALL SYSTEMS OK	TION AND GEAR S WHEN THE NOSI ONINSPECTION TO NORMAL.	STAYED UP. WHENEMG PUMP E GEARLOCKED DOWN THE PUMP , GEAR DOWN MAGNET FOR RT
Air Transport (ATA) code:3260LG POSITION AND WARNINGName of part:SWITCHDate:01-NOV-98Aircraft Model Number:177RGPart Number:20700171Details:						
	ir Transport (ATA) code: ate:	3260 01-NOV-98	LG POSITION AND WARN Aircraft Model Number:	NNG 177RG	Name of part: Part Number:	SWITCH 20700171
ON GEAR RETRACTION, BOTH THE UP AND DOWN LIGHTS WERE ON. PLACED GEAR SELECTOR IN DOWN POSITION AND GEAR STAYED UP. WHENEMG PUM GIVEN STROKES, NOSE GEAR STARTED DOWN. THE PUMP THEN CAME ON AND GEARS STARTED TO EXTEND. WHEN THE NOSE GEARLOCKED DOWN THE STOPPED, LEAVING MAINS IN TRAIL POSITION. CONTINUED TO PUMP EMG PUMP, BOTH MAINS LOCKED DOWN. ONINSPECTION, GEAR DOWN MAGNET FOR GEAR WAS WELDED CLOSED, AND LT WAS INTERMITTENT. REPLACED BOTH SWITCHES AND ALL SYSTEMS OK TO NORMAL.	N GEAR RETRACTION, BOTH THE IVEN STROKES, NOSE GEAR STA TOPPED, LEAVING MAINS IN TRAI EAR WAS WELDED CLOSED, AND	UP AND DOWN LIGHTS WI RTED DOWN. THE PUMP T L POSITION. CONTINUED LT WAS INTERMITTENT. F	ERE ON. PLACED GEAR SEL THEN CAME ON AND GEARS S TO PUMP EMG PUMP, BOTH I REPLACED BOTH SWITCHES	ECTOR IN DOWN POSIT STARTED TO EXTEND. MAINS LOCKED DOWN. AND ALL SYSTEMS OK	TION AND GEAR S WHEN THE NOSE ONINSPECTION TO NORMAL.	TAYED UP. WHENEMG PUMP E GEARLOCKED DOWN THE PUMP , GEAR DOWN MAGNET FOR RT
Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: SWITCH Date: 09-APR-97 Aircraft Model Number: 177RG Part Number: 20700291 Details: 04-00 MURD CODE MURD CODE Details: 100-00 MURD CODE Details: 100-00 MURD CODE	ir Transport (ATA) code: bate: betails:	3260 09-APR-97	LG POSITION AND WARN Aircraft Model Number:	NING 177RG	Name of part: Part Number:	SWITCH 20700291
	103) NOSE LANDING GEAR DOWN					
Air Transport (ATA) code: 3260 LG POSITION AND WARNING Name of part: SWITCH Date: 25-JUL-95 Aircraft Model Number: 177RG Part Number: 20700291 Details: Convertion provident source of power and powe	ir Transport (ATA) code: late: letails:	3260 25-JUL-95	LG POSITION AND WARN Aircraft Model Number:	NING 177RG	Name of part: Part Number:	SWITCH 20700291



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name	: CESSNA	Aircraft manufac	turer's series number: 177	
Air Transport (ATA) code: Date: Details:	3260 16-MAR-96	LG POSITION AND WARNING Aircraft Model Number: 177RG	Name of part: HORN Part Number: S20771	
DURING PRE-BUY INSPECTION, F CONFIRMED GEAR HORN HAD BE INTERNALLY.	OUND LANDING GEA EEN INOPERATIVE, BU	R WARNING HORN INOPERATIVE. TROUBLESH JT ANNUAL WAS SIGNED OFF 8/95 ANYWAY. SL	OT SYSTEM AND FOUND GEAR HORN DEFECTIVE. OWNE ISPECT CAUSE, VIBRATION CAUSED HORN TO COME APA	R .RT
Air Transport (ATA) code: Date: Details:	3260 01-APR-02	LG POSITION AND WARNING Aircraft Model Number: 177RG	Name of part: SUPPORT Part Number: 204101744	
PILOT REPORTED THAT THE LAN LIGHT DID NOT COME ON. THE P TO BE DOWN. TROUBLESHOOTII BRACKET. THE BROKEN SUPPOI BROKEN PART WITH A NEW MFG SIGNS OF HEAT WHERE IT WAS N	IDING GEAR PUMP MO PILOT MADE AN UNEV NG FOUND THAT THE RT BRACKET ROTATE IS PART AND RIGGED IN WELDED.	DTOR CONTINUED TO RUN AFTER THE GEAR W ENTFUL LANDING AFTER A LOW PASS AND GRO RIGHT LANDING GEAR DOWN LOCK SWITCH W ED IN THE HOUSING AND DID NOT ALLOW THE F AW SM. OPS CHECKED GOOD.THE BROKEN PA	AS PUT IN THE DOWN POSITION AND THAT THE GEAR DO DUND PERSONNEL VERIFIEDTHE LANDING GEAR APPEAR AS NOT MAKINGDUE TO A BROKEN DOWN LOCK SUPPOR IGHT MAIN LANDING GEAR TO LOCK DOWN. REPLACED T RT HAD THE LOWER PIN SHEARED OFF. IT ALSO SHOWE	WN ED T THE D
Air Transport (ATA) code: Date: Details: FOUND THAT RT MLG DOWNLOC IMPROPERLY, LED TO A LANDING	3260 09-DEC-02 K SWITCH TO BE STU S WHERE THE MAIN G	LG POSITION AND WARNING Aircraft Model Number: 177RG JCK IN THE CLOSED POSITION WHICH, WHEN C BEAR COLLAPSED WITH A GREEN DOWN AND LE	Name of part: DOWNLOCK SWITCH Part Number: 20700174 OMBINED WITH THE LT MLG DOWNLOCK SWITCH OPERAT OCKED LIGHT.	ſING
Air Transport (ATA) code: Date:	3416 11-APR-97	ALTIMETER, BAROMETRIC/ENCODE Aircraft Model Number: 177B	ER Name of part: CASTING Part Number: 3431	
Details: INCOMING INSPECTION CHECKS WERE MEASURED. ONE END-SH SHAFTS. BECAUSE OF THIS ZER POINTERS WHEN OPERATED IN INSTRUMENT HANG-UP UNDER (ON ALTIMETER REVE IAKE MEASURED ZER O END-SHAKE CONDI A COLD ENVIRONMEN COLD OPERATING CO	EALED JUMPS IN THE OPERATION OF 100 FEET O. THE OH MANUAL CALLS OUT A MINIMUM EN ITION, FOUND THE JUMPY CONDITION AT ROOM IT. THE MANUFACTURER INDICATED THAT ASI NDITIONS ACCORDING TO THEIR TESTING.	TO 200 FEET. THE END-SHAKES ON THE MECHANISM SHA D-SHAKE OF .0020 INCHON ALL THREE CRITICAL ROTATIN I TEMP, AND THE INSTRUMENT WOULD HANG UP THE HAFT END-SHAKE OF .0004 INCH OR LESS WILL CAUSE AN	IFTS IG I
Air Transport (ATA) code: Date:	3418 03-SEP-03	STALL WARNING SYSTEM Aircraft Model Number: 177RG	Name of part: STALL WARNING Part Number: S16722	
STALL WARNING SYSTEM FUNCT REMOVED STALL SWITCH AND C PREVIOUSLY, THE STALL WARNI WAS TURNED ON, THE STALL W	FION TEST AT ANNUA LEANED CORROSION NG SYSTEM WOULD F ARNING WOULD NOT	L INSPECTION WAS CORRECT. SYSTEM WOULI I FROM GROUND. BOTH STALL WARNING AND I FIND A GROUND THROUGH THE PITOT HEATER GROUND.	D NOT OPERATE WHEN PITOT HEAT WAS SWITCHED ON. PITOT HEAT WOULD OPERATE CORRECTLY THEN. VIA THE STALL WARNING HEATER. WHEN THE PITOT HEA	AT
Air Transport (ATA) code: Date: Details:	3457 06-MAY-03	GLOBAL POSITIONING SYSTEM Aircraft Model Number: 177RG	Name of part: GPS Part Number: GNS530	

GPS SCREEN WENT TOTALLY BLANK. UNIT STILL RECEIVING AND TRANSMITTING COMMUNICATION DATA. SCREEN FAILED 2-3 MINUTES AFTER POWER UP. REPORTED THAT HIGH VOLTAGE TRANSFORMER FAILED UNDER IFR FLIGHT COULD BE FATAL.



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraft mar	ufacturer's series number:	177
Air Transport (ATA) code: Date: Details: PART FAILED UPON THROTTLE RE SYSTEM OPERATED AUTOMATICA UNIT, A COMPLETE VAC SYSTEM I SYSTEM DEFECTS FOUND. UPON SUSPECTS FAULT Y OVERHALL	3700 19-AUG-98 EDUCTION FOR LAN ALLY. PART INSTALL INSPECTION CONDU DISASSEMBLY, RAI	VACUUM SYSTEM Aircraft Model Number: 177R DING AFTER A 2.9 HOUR FLIGHT. LOW-VAC ED TO REPLACE ORIG VAC PUMP WHICH F ICTED. ALL FILTERS REPLACED, AND THE PCO REPORTED FAILURE DUE TO 'FOREID FON WITH A SIGMA-TEK NEW UNIT WHICH F	Name of part: Part Number: WARNING LIGHT ILLUMINATED. AILED AT 1872.1 HRS. ATINSTAL HOSES BLOWN DOWN AND REPIN N OBJECT INJECTION, AND 'OIL O HAS OPERATED FON OVER 50 HE	VACUUM PUMP 211CC THE ALTERNATE VAC STANDBY LATION OF THIS RAPCO REBUILT ACED AS NECESSARY. NO CONTAMINATION'. SUBMITTER 25 TO-DATE WITHOUT FAULURE
Air Transport (ATA) code: Date: Details: VALVE WAS REPLACED WAS WITH AD. VALVE WAS FOUND TO HAVE	3710 15-APR-02 HIN SERIAL NUMBEI FAILED INT HE OPE	VACUUM DISTRIBUTION SYST Aircraft Model Number: 177B RS TO BE RE-USED IN MOD TO SVS V SYST IN POSITION ON BACK UP SIDE.	EM Name of part: Part Number: EM TO COMPLY WITH ALTERNAT	VALVE 13695 E METHOD OF COMPLAIANCE TO
Air Transport (ATA) code: Date: Details: (CAN) DURING CRUISE FLIGHT, TH	3710 13-DEC-99 IE VACUUM SYSTEN	VACUUM DISTRIBUTION SYST Aircraft Model Number: 177B 178 FAILED. MAINTENANCE FOUND THE VACU	EM Name of part: Part Number:	COUPLING
Air Transport (ATA) code: Date: Details: BULKHEAD CRACKED AROUND BO	5312 08-NOV-05 DTH VERTICAL FIN F	BULKHEADS (MAIN FUSELAGE Aircraft Model Number: 177R ORWARD ATTACH BOLTS.) Name of part: G Part Number:	BULKHEAD 17121042
Air Transport (ATA) code: Date: Details: BULKHEAD WAS INSPECTED AFTE 6866 NC/1, DATED OCTOBER 4, 19	5312 05-JUL-96 ER GROUND ACCIDE 89. MECHANIC SAID	BULKHEADS (MAIN FUSELAGE Aircraft Model Number: 177B ENT AND FOUND CRACKED AT LOWER INNE CRACK WAS NOT CAUSED BY ACCIDENT.	Name of part: Part Number: R FLANGE. THIS PART WAS PEN BULKHEAD WAS REPAIRED AND	BULKHEAD 17121541 NETRANT TESTED IAW MIL-STD- DREINSTALLED.
Air Transport (ATA) code: Date: Details: BULKHEAD CRACKED AROUND BO	5312 08-NOV-05 DTH VERTICAL FIN F	BULKHEADS (MAIN FUSELAGE Aircraft Model Number: 177R ORWARD ATTACH BOLTS.) Name of part: G Part Number:	BULKHEAD 17121042
Air Transport (ATA) code: Date: Details: DURING ANNUAL INSPECTION LAN FOUND THE TEFLON RUB STRIP C	5320 03-APR-04 NDING GEAR RETRA N THE NOSE LANDI	FUSELAGE AUXILIARY STRUC Aircraft Model Number: 177R CTION TEST WAS PERFORMED AND THE N NG GEAR DOOR ACTUATOR MISSING.	TURE Name of part: IG Part Number: OSE GEAR DOORS WOULD NOT	RUB STRIP 20430129 FULLY CLOSE. INVESTIGATION
Air Transport (ATA) code: Date:	5320 19-DEC-97	FUSELAGE AUXILIARY STRUC Aircraft Model Number: 177A	TURE Name of part: Part Number:	STIFFENER 17120523

Details: (CAN) LT AND RT LANDING GEAR UPPER ATTACHMENT CRACKED AT ATTACHMENT HOLES. HOLE EDGE DISTANCE VERY CLOSE.



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name	: CESSNA	Aircraft manufacturer's s	eries number:	177
Air Transport (ATA) code: Date: Details: OWNER/OPERATOR REPORTED MOUNT TRAY FOR THE TRANSP MOVEMENT OF THE CONTROL Y ON THE BACK OF THE TRAY. AV INSPECTED AT EACH ANNUAL, 1	5320 09-SEP-01 THAT CONTROL YOKE ONDER ON THE RIGH OKE. THE AIRCRAFT IONICS INSTALLER OV 00 HOUR AND AFTER	FUSELAGE AUXILIARY STRUCTURE Aircraft Model Number: 177B E WOULD NOT PULL BACK TO RAISE THE ELEVATOR. ON T SIDE OF THE PANEL HAD DROPPED .2500 OF INCH AND COULD NOT ROTATE ON TAKEOFF AND IT WAS A CLOSE VER-LOOKED THE POSSIBILITY OF THE TRAY DROPPING NEW AVIONICS INSTALLATION.	Name of part: Part Number: INSPECTION IT W/ WAS CONTAINING CALL. AN ADDITIC DOWN. UNDER PA	PANEL AS FOUND THAT THE PANEL AND RESTRICTING AFT DNAL SUPPORT WAS INSTALLED INEL AREA SHOULD BE
Air Transport (ATA) code: Date: Details: FOUND ALL 4 AFT HIGH SHEAR F FOUND DURING ANNUAL INSPEC	5320 17-FEB-99 RIVETS LOOSE, PN NA CTION.	FUSELAGE AUXILIARY STRUCTURE Aircraft Model Number: 177RG S1054-8-7 AND NAS1054-6-8 IN THE SUPPORT ASSY. REF	Name of part: Part Number: PLACED WITH OVER	RIVETS RSIZED HIGH LOC RIVETS.
Air Transport (ATA) code: Date: Details: WHILE ATTEMPTING TO RIGG THAND THE LOCK WOULD NOT SNA AT THE UPPER ATTACH POINT (I INSPECTION AT EACH ANNUAL.	5343 07-NOV-05 HE NOSE GEAR AFTER AP OVER CENTER ON JSING A BRIGHT LIGH (K)	GEAR ATTACH FITTINGS (ON FUSELAGE) Aircraft Model Number: 177RG DOING AN ENGINE AND MOUNT OVERHAUL, IT WAS IMP THE DOWN CYCLE. WHILE WATCHING THE ACTUATOR I T) THE BRACKET ASSY WAS FOUND TO BE SEVERLY CR/	Name of part: Part Number: OSSIBLE TO MAINT I SEEMED THE MO ACKED. WOULD RE	BRACKET 20130035 FAIN THE PROPER CLEARANCES VE.UPON FURTHER INSPECTION ECOMMEND CLOSE VISUAL
Air Transport (ATA) code: Date: Details: WITH GUST LOCK INSTALLED BA	5500 21-APR-03 ALANCE ARM LOCKED	EMPENNAGE STRUCTURE Aircraft Model Number: 177 ON DOWN STOP WHILE A/C WAS TIED DOWN IN GUSTY (Name of part: Part Number: WIND CONDITIONS	ARM 17320345
Air Transport (ATA) code: Date: Details: THREE OF FOUR BALANCE WEIG ON EACH. THIS WAS NOTICED D INSPECTIONS. UNKNOWN CAUS	5510 13-JUN-00 GHT SUPPORT BRACK DURING STABILIZER B SE. (X)	HORIZONTAL STABILIZER Aircraft Model Number: 177RG ETS WERE CRACKED ALONG THE BEND RADIUS. CRACK EARING REPLACEMENT WITH THE STABLIZER OFF THE A	Name of part: Part Number: S WERE 1.25 INCH IRCRAFT.SUBMITT	BRACKET 17320311 IES, 1.50 INCHES,AND 1.75 INCHES FR RECOMMENDED FREQUENT
Air Transport (ATA) code: Date: Details: DURING ANNUAL INSPECTION, F STABILATOR. RECOMMEND REF 89-1, REV 3.	5510 22-MAR-95 OUND CRACK IN BEN PLACEMENT OF THESI	HORIZONTAL STABILIZER Aircraft Model Number: 177RG D RADIUS OF ONE FORWARD AND ONE AFT STABILATOR E WITH LATER STEEL BRACKETS, PN 1732063-1 AND DAS	Name of part: Part Number: BALANCE ARM SU H 2, AND 1732064-1	BRACKET 17320103 IPPORT BRACKET ON I, AND DASH 2 PER CESSNA SEB
Air Transport (ATA) code: Date: Details: DURING ANNUAL INSPECTION, F	5510 22-MAR-95 OUND CRACK IN BEN	HORIZONTAL STABILIZER Aircraft Model Number: 177RG D RADIUS OF ONE FORWARD AND ONE AFT STABILATOR	Name of part: Part Number: BALANCE ARM SU	BRACKET 17320313 IPPORT BRACKET ON

STABILATOR. RECOMMEND REPLACEMENT OF THESE WITH LATER STEEL BRACKETS, PN 1732063-1 AND DASH 2, AND 1732064-1, AND DASH 2 PER CESSNA SEB 89-1, REV 3.



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Service Difficulty Report

Aircraft manufacturer's name	: CESSNA	Aircraft manufacture	r's series number:	177
Air Transport (ATA) code: Date:	5510 13-JUN-00	HORIZONTAL STABILIZER Aircraft Model Number: 177RG	Name of part: Part Number:	BRACKET 1732010
Details: THREE OF FOUR BALANCE WEIG ON EACH. THIS WAS NOTICED D INSPECTIONS. UNKNOWN CAUS	GHT SUPPORT BRACK DURING STABILIZER B SE. (X)	KETS WERE CRACKED ALONG THE BEND RADIUS. CF BEARING REPLACEMENT WITH THE STABLIZER OFF T	RACKS WERE 1.25 INCH HE AIRCRAFT.SUBMITT	ES, 1.50 INCHES,AND 1.75 INCHES ER RECOMMENDED FREQUENT
Air Transport (ATA) code: Date: Details:	5510 23-SEP-96	HORIZONTAL STABILIZER Aircraft Model Number: 177RG	Name of part: Part Number:	BRACKET 17320311
DURING ANNUAL INSPECTION, C SUBMITTER RECOMMMENDS CL	CRACKS WERE NOTED	D ON (3 OF THE 4) STABILATOR WEIGHT ARM MOUNT ND DYE CHECK. ALSO INCLUDES FORWARD MOUNT	BRACKETS. CAUSE, N P/N 1732010-1 AND DAS	ORMAL WEAR AND VIBRATION. SH2.
Air Transport (ATA) code: Date:	5510 23-SEP-96	HORIZONTAL STABILIZER Aircraft Model Number: 177RG	Name of part: Part Number:	BRACKET 17320312
Details: DURING ANNUAL INSPECTION, C SUBMITTER RECOMMMENDS CL	CRACKS WERE NOTED	D ON (3 OF THE 4) STABILATOR WEIGHT ARM MOUNT ND DYE CHECK. ALSO INCLUDES FORWARD MOUNT	BRACKETS. CAUSE, N P/N 1732010-1 AND DAS	ORMAL WEAR AND VIBRATION. SH2.
Air Transport (ATA) code:	5510	HORIZONTAL STABILIZER	Name of part:	BRACKET
Date: Details: AFTER RECEIVING PARTS FROM BRACKET WAS MANUFACTURED WRONG.	21-NOV-95 I CESSNA PARTS DIVI D BACKWARDS TO RE	AIRCRAFT MODEL NUMBER: 1778 ISION TO ACCOMPLISH SEB 89-1, 'STABILATOR BALAR SEMBLE THE DASH 2 RT BRACKET. LATER, WAS NO	Part Number: NCE WEIGHT ATTACH B TIFIED THE WHOLE BAT	RACKETS' NOTICED THAT LT CHFROM CESSNA WAS MADE
Air Transport (ATA) code: Date:	5510 18-MAR-97	HORIZONTAL STABILIZER Aircraft Model Number: 177RG	Name of part: Part Number:	BRACKET 17320311
(AUS) STABILATOR WEIGHT ARM	I REAR MOUNTING BE	RACKETS PNO 1732031-1 ANDPNO 1732031-2 CRACKE	ED ON VERTICAL BENDS	8
Air Transport (ATA) code: Date:	5510 13-JUN-00	HORIZONTAL STABILIZER Aircraft Model Number: 177RG	Name of part: Part Number:	BRACKET 17320312
Details: THREE OF FOUR BALANCE WEIG ON EACH. THIS WAS NOTICED D INSPECTIONS. UNKNOWN CAUS	GHT SUPPORT BRACK DURING STABILIZER B SE. (X)	KETS WERE CRACKED ALONG THE BEND RADIUS. CF BEARING REPLACEMENT WITH THE STABLIZER OFF T	RACKS WERE 1.25 INCH HE AIRCRAFT.SUBMITT	ES, 1.50 INCHES,AND 1.75 INCHES ER RECOMMENDED FREQUENT
Air Transport (ATA) and a	5521		Nome of ports	SDVD
Date: Details:	17-NOV-97	Aircraft Model Number: 177RG	Part Number:	17330021
DISTORTED AND RUDDER HINGE	E SHOWS NO DAMAG	E. CAUSE OF CRACKS UNKNOWN.	LUSE TO .75 INCH ON I	BUTH SIDES.VERTICAL FIN NOT
Air Transport (ATA) code:	5540	RUDDER	Name of part:	ATTACH FITTING
Date: Details:	13-JAN-03	Aircraft Model Number: 177RG	Part Number:	-
FOUND LT RUDDER STOP RIDING SQUARELY, CAUSING HORN TO	G OVER HORN AREA. RIDE UP OR DOWN U	THIS CAUSED DEFLECTION OF HORN ATTACHMENT NDER STOP BOLT. ASSURE STOP BOLTS HIT HORN	AND CRACK. STOP BC	DLTS NOT HITTING HORN



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer	's series number: 177
Air Transport (ATA) code: Date:	5551 18-MAR-97	HORIZONTAL STAB ATTACH FITTING Aircraft Model Number: 177RG	Name of part: ARM Part Number: 17320311
(AUS) STABILATOR WEIGHT ARM	LH AND RH REAR MC	UNTING BRACKETS PNO1732031-1 AND PNO 173203	-2 CRACKED ALONG VERTICAL BENDS
<u> </u>			
Air Transport (ATA) code: Date: Details: OBSERVED THE CARRY THRU SF BE PICKED AT AND MOST OF THE PROBABLY FROM EXPOSURE TO	5711 11-OCT-02 PAR CORROSION WHE SURFACE AREA HAD OUTSIDE STORAGE.	SPAR (ON WING) Aircraft Model Number: 177RG EN LOOKING AT THE AIRCRAFT. THIS ITEM HAD SUR O WHITE DUSTING AND DISCOLORATION INDICATING	Name of part: SPAR Part Number: 17107036 FACE CORROSION THAT HAS BLISTERING THAT COULD CORROSION THAT REQUIRES TREATMENT. CAUSE IS
Air Transport (ATA) code: Date: Details: DURING THE INSTALLATION OF S AND SKINS. OWNER WAS ADVIS ASSEMBLIES ALSO HAD CORROS THIS PENDE TO PEACHING THIS S	5711 09-MAY-01 HOULDER HARNESS ED. FURTHER INSPEC SION PRESENT AS WE	SPAR (ON WING) Aircraft Model Number: 177RG KITS THE HEAD LINER WAS REMOVED. CORROSION CTION FOUND CORROSION PRESENT UNDER LEAD S ELL AS A CRACK IN THE LEFT HAND ROOT RIB. PROP	Name of part: SPAR Part Number: WAS PRESENT AT FORE AND AFT UPPER, SPAR CAPS HEETS IN THE SAME AREA. LEFT AND RIGHT ROOT RIB ERINSPECTION PROCEDURE SHOULD HAVE CAUGHT
THIS PRIOR TO REACHING THIS S	STAGE OF CORROSIO	N.	
Air Transport (ATA) code: Date: Details: FOUND ON ANNUAL INSPECTION CORROSION SUBMITTER STATE	5711 01-JUN-97 , INTERGRANULAR CO	SPAR (ON WING) Aircraft Model Number: 177B DRROSION ON CARRY-THROUGH SPAR. SOME SPOT	Name of part: SPAR Part Number: 17107036 S 2 INCHES AND .0625 INCH DEEP, PLUS OTHER
Air Transport (ATA) code: Date: Details: DURING THE INSTALLATION OF S AND SKIN WAS NOTICED. CORRE	5712 09-MAY-01 SHOULDER HARNESS DSION WAS ALSO PRI	RIBS/BULKHEADS (ON WING) Aircraft Model Number: 177RG KITS, THE HEADLINER WAS REMOVED. CORROSION ESENT AT LEFT AND RIGHT ROOT RIBS. LEFT ROOT	Name of part: RIB Part Number: ON CARRY THRU SPAR FORE AND AFTTOP SPAR CAPS RIB HAD SMALL CRACK. NO FURTHER ACTION TAKEN.
Air Transport (ATA) code: Date: Details: DURING AN ANNUAL INSP, RT WI MAY BE WATER SEEPING THROU CREATES RUST IN THE STEEL WI CORROSION PROCESS. IT IS RE	5730 12-MAY-05 NG IB L/E SKIN WAS F IGH THE AIR INLET HO IRE WOUND HOSE AN COMMENDED THAT C	PLATES/SKINS (ON WING) Aircraft Model Number: 177A OUND CORRODED THROUGH BENEATH STRINGER. DSE INSTALLED ABOVE THE AFFECTED AREA. THIS N ID DRIPS RUST CONTAMINATED WATER ON THE WIN I OSE ATTENTION BE PAID TO THAT PART OF THEWIN	Name of part: SKIN Part Number: 17220044 A POSSIBLE CAUSE FOR THE EXCESSIVE CORROSION WATER ENTERS THROUGH THE L/E AIR INLET AND G SURFACE BELOW WHICH MAY ACCELERATE THE NG AND TO THE CONDITION OF THE VENT HOSE
DIRECTLY ABOVE IT ESPECIALLY HELP SITUATION. (K) Air Transport (ATA) code:	5741	RE STORED OUTDOORS. APPLYINGCORROSION RE FUS (ATTACH FITTING ON WING)	Name of part: FITTING

Date: Details:

(AUS) INSPECTION OF WING FITTINGS REVEALED RELATIVE MOVEMENT BETWEEN FITTINGS AND SPAR. THE AIRCRAFT HAD BEEN TREATED WITH 'BOESHIELD' IN FEB 93. PART TC: 4,830.



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name	CESSNA	Aircraft manufacturer	's series number:	177
Air Transport (ATA) code: Date: Details: DURING ANNUAL INSPECTION, IT FUSELAGE. THE AMOUNT OF MC	5741 03-DEC-96 WAS DISCOVERED T VEMENT WAS .0035 I	FUS (ATTACH FITTING ON WING) Aircraft Model Number: 177B THAT THERE WAS MOVEMENT IN THE WING ATTACH F INCH BY MEASUREMENT.	Name of part: Part Number: FITTINGS WHERE ATTA	FITTING CH PIN ATTACHES WING TO
Air Transport (ATA) code: Date: Details: DURING A 100-HOUR INSPECTION FORWARD OF HINGE BEARING. IMPOSSIBLE) AND IT HAS NOT BE	5751 23-AUG-95 N, BOTH CENTER AILE THERE IS NO OTHER EN SUBJECTED TO H	AILERONS Aircraft Model Number: 177 ERON HINGES WERE FOUND BENT AND THE LEFT HIN APPARENT DAMAGE TO AILERON, WING, OR INBOAR HIGH WINDS.	Name of part: Part Number: IGE WAS CRACKED AP D AND OUTBOARD HIN	HINGE 12210897 PROXIMATELY 3INCHES GES (WHICH SEEMS
Air Transport (ATA) code: Date: Details: BEARING RACE CORRODED.	6110 01-JUL-96	PROPELLER ASSEMBLY Aircraft Model Number: 177B	Name of part: Part Number:	BEARING RACE C3411
Air Transport (ATA) code: Date: Details: (AU) PROPELLER RECEIVED FOR PROPELLER WAS LAST INSPECT	6111 12-APR-99 CORROSION INSPEC ED ON 7 NOVEMBER	PROPELLER BLADE SECTION Aircraft Model Number: 177B CTION. THE PROPELLER BLADES WERE FOUND CORR 1990.	Name of part: Part Number: ODED ON THE LEADIN	BLADE 82PA6 G EDGES AND THEBUTTS. THIS
Air Transport (ATA) code: Date: Details: BLADE, SN DF052, FOUND CORRO	6111 01-SEP-96 DDED.	PROPELLER BLADE SECTION Aircraft Model Number: 177RG	Name of part: Part Number:	BLADE G78TCA0
Air Transport (ATA) code: Date: Details: UPON INSPECTION, THE STEEL S THE SNAP RINGS AS THE PAINT (SERVICE 80.7 HOURS AIRCRAFT	6111 15-JUN-95 NAP RING AT THE BA ON BLADES WAS LOO	PROPELLER BLADE SECTION Aircraft Model Number: 177RG ASE OF THE BLADES WAS FOUND SEVERELY CORROI DISE AND WHITE POWDER WAS FOUND UNDER THE PR IN HANGAR SINCE PROPINISTALLATION	Name of part: Part Number: DED. THIS CONDITION EELED PAINT. THISPRO	SNAP RING INCLUDED THEBLADES NEXT TO OP WAS NEW AND HAD BEEN IN
Air Transport (ATA) code: Date: Details: BLADE, SN DF067, FOUND CORRO	6111 01-SEP-96 DDED.	PROPELLER BLADE SECTION Aircraft Model Number: 177RG	Name of part: Part Number:	BLADE G78TCA0
Air Transport (ATA) code: Date: Details:	6111 25-MAR-97	PROPELLER BLADE SECTION Aircraft Model Number: 177RG	Name of part: Part Number:	BLADE D5044

(CAN) STONE DAMAGE ON THE LEADING EDGE AND THE FACE OF THE PROPELLER BLADE. THE BLADE REQUIRED FILING AND GRINDING. THEPROPELLER HUB BREATHER SEALANT WAS MISSING.



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Service Difficulty Report

Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer's se	eries number:	177
Air Transport (ATA) code: Date:	6111 02-JUN-98	PROPELLER BLADE SECTION Aircraft Model Number: 177B	Name of part: Part Number:	BLADE 82PCAC
(CAN) PROPELLER RECEIVED FOR	R CORROSION INSPECTION	. PROPELLER BLADE FOUND DAMAGED. BLADE R	EPAIRED AND BLA	ADE ANODIZED.
Air Transport (ATA) code: Date: Dataile:	6111 11-APR-97	PROPELLER BLADE SECTION Aircraft Model Number: 177	Name of part: Part Number:	BLADE
(CAN) PROPELLER RECEIVED FOR PROPELLER WAS OVERHAULED.	R CORROSION INSPECTION	. MANY GOUGES AND DENTS WERE FOUND. PROP	ELLER WAS LAST	IN THE SHOP IN 1968. THE
Air Transport (ATA) code: Date:	6111 04-MAY-98	PROPELLER BLADE SECTION Aircraft Model Number: 177B	Name of part: Part Number:	BLADE G82PCA6
Details: (CAN) PROPELLER RECEIVED FOR BEEN REPAIRED PER THE MCCAL	R CORROSION INSPECTION	. THE LEADING EDGES OF THE PROPELLER BLADE	S WERE FOUND N	IICKED. THE BLADES HAD NOT
Air Transport (ATA) code: Date:	6114 10-OCT-02	PROPELLER HUB SECTION Aircraft Model Number: 177	Name of part: Part Number:	HUB D5044
RETIRED HUB DUE TO SURFACE	CORROSION ON EXTERIOR	, HUB NOT PAINTED.		
Air Transport (ATA) code: Date: Details: CORROSION FOUND ON HUB.	6114 01-JUN-96	PROPELLER HUB SECTION Aircraft Model Number: 177	Name of part: Part Number:	HUB D4326C207
Air Transport (ATA) code: Date: Details: HUB GREASE FITTING HOLE DAM	6114 01-MAR-96 AGED	PROPELLER HUB SECTION Aircraft Model Number: 177	Name of part: Part Number:	HUB 220117
Air Transport (ATA) code: Date: Details: HUB FOUND CORRODED.	6114 01-JUL-96	PROPELLER HUB SECTION Aircraft Model Number: 177	Name of part: Part Number:	HUB D4326C211
Air Transport (ATA) code: Date: Details: EXTERIOR SURFACE OF HUB COF	6114 25-MAY-00 RRODED BEYOND LIMITS.	PROPELLER HUB SECTION Aircraft Model Number: 177	Name of part: Part Number:	HUB D4326C211
Air Transport (ATA) code: Date: Details: HUB FOUND CORRODED.	6114 01-OCT-96	PROPELLER HUB SECTION Aircraft Model Number: 177B	Name of part: Part Number:	HUB C208



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Service Difficulty Report

Aircraft manufacturer's name:	CESSNA	Aircra	ft manufacturer's se	ries number:	177
Air Transport (ATA) code: Date: Details: (CAN) PROPELLER CYLINDER WOR	6114 15-JAN-99 RN BEYOND MANUFACTUR	PROPELLER HUB SECTIOn Aircraft Model Number: ER'S LIMITS.	DN 177B	Name of part: Part Number:	CYLINDER C4645
Air Transport (ATA) code: Date: Details: WHILE RELOCATING THIS AIRCRA PROPELLER CONTROL WAS VERY COWLING TO INVESTIGATE, MECH WOULD NOT ALLOW FULL TRAVEL TROUBLE. THIS AIRCRAFT HAD BI CONNECTING BOLT. AIRCRAFT TO	6120 28-JUL-97 FT FOLLOWING AN ANNUA SENSITIVE AND COULD OF IANIC NOTED THE PROPEL THE CABLE WAS DISCOP EEN SIGNED OFF WITH A F DTAL TIME BEING 1,169.5 H	PROPELLER CONTROLL Aircraft Model Number: L INSPECTION, THE AIRCRAF NLY GET 1,900 RPM MAX FRC LER GOVERNOR CABLE WAS INECTED AND RECONNECTE RESH ANNUAL BY AN APPRO OURS.	ING SYSTEM 177 T WAS TAXIED TO THE M THE ENGINE. AFTEF CONNECTED TO THE D IN THE PROPER HOL PRIATELY RATED IA. T	Name of part: Part Number: RUN-UP AREA FOR SHUTTING DOW PROPELLER GOV E. ENGINE PERF HE CABLE WAS D	CONTROL CABLE 2995060105 DR A RUN-UP.PILOT NOTICED /N AND REMOVING ENGINE 'ERNOR LEVER IN A HOLE THAT ORMED WITHOUT FURTHER DISCONNECTED TO REPLACE THE
Air Transport (ATA) code: Date: Details: THE CESSNA SM AND LYC ENGINE MCCAULEY GOVERNOR ON LYC 4 REINSTALLATION OF THE ENGINE	6122 06-JAN-97 OVERHAUL DO NOT CONT OR 6 CYLINDER ENGINE W AND THE ACFT MADE A FC	PROPELLER GOVERNOF Aircraft Model Number: TAIN THE REQUIREMENT TO I ITH REAR MOUNTED DUEL M PRCED LANDING DUE TO LOS	177RG JSE A PROPELLER GO' AG INSTALLATIONS. TH S OF ENGINE OIL THRO	Name of part: Part Number: V PAD PLATE, PN HIS PLATE WAS L DUGH THE GOVEI	PROP GOVERNOR C290D3KT12 LW-12347, WHENINSTALLING A EFT OUT DURING RNOR ADAPTER PLATE SCREW.
Air Transport (ATA) code: Date: Details: DURING TROUBLESHOOTING FOR FILTER. REMOVED ELEMENT AND THICK. IT APPEARS THE FACE OF INGESTION IN THE CARBURETOR PROBLEM AND REPRESENTS A LA INSPECTION WAS SIGNED OFF IN	7160 05-OCT-04 EXCESSIVE MAGNETO DR FOUND THAT ELEMENT W. THE FOAM WAS PAINTED E COULD HAVE CAUSED A LO CK OF REGARD FOR SAFE AUGUST OF 2004.	AIR INTAKE Aircraft Model Number: OP, FOUND FACE OF AIR FIL AS AN UNAPPROVED PART. T BLACK SO AS TO LOOK LIKE A DSS OF ENGINE POWER WITH TY. NO LOGBOOK ENTRYCO	177 TER ELEMENT DETERIO HE (FILTER) WAS HANI GENUINE BRACKETT 1 POTENTIAL FATAL RE ULD BE FOUND FOR RE	Name of part: Part Number: DRATED. THE INS D CUT FROM A PI FILTER. HAD THE SULTS. THIS PRE ECENT INSTALLA	AIR FILTER BA5710 TALLATION IS FOR A BRACKETT ECE OF GREEN FOAM .6250 INCH FILTER DETERIORATED, ESENTS A SERIOUS SAFETY TION OF FILTER. ANNUAL
Air Transport (ATA) code: Date: Details: DURING ROUTINE OIL CHANGE, OI BRACKETS HAD BROKEN/SHEARE BODY/ASSY. SUBMITTER STATED BE MORE SUITABLE.	7160 07-MAY-96 BSERVED AIR INDUCTION F D FROM THE INDUCTION F METHOD OF ATTACHMENT	AIR INTAKE Aircraft Model Number: FILTER 'LAYING' IN ENGINE BA ILTER BODY. SUSPECT CAUS FAPPEARS TO BE 'SPOT WEL	177RG NFFLE. UPON FURTHEI SE, INADEQUATE METH DS'. PERHAPS RIVETII	Name of part: Part Number: R INVETSIGATION IOD OF ATTACHN NG OF THE BRAC	AIR FILTER AM107635FP I, FOUND BOTH MOUNTING IENTOF BRACKETS TO FILTER KETS TO THE FILTER ASSY MAY
Air Transport (ATA) code: Date: Details: AIR FILTER WAS REMOVED DURIN NEOPRENE GASKET WAS LOOSE	7160 14-JUN-95 G AN ANNUAL INSPECTION AND SUCKING INTO THE IN	AIR INTAKE Aircraft Model Number: N, ONE MOUNT TAB (WHICH W IDUCTION SYSTEM.	177B /AS SPOT WELDED TO	Name of part: Part Number: THE FRAME) WA	AIR FILTER AM107635FP S BROKEN OFF.ALSO, THE
Air Transport (ATA) code: Date: Details: AIR FILTER GASKET HAS TURNED REPLACED.	7160 16-APR-97 TO MUSH FROM THE OIL T	AIR INTAKE Aircraft Model Number: HEY USE IN THE AIR FILTER,	177RG MAYBE A NEW TYPE O	Name of part: Part Number: F GASKET IS CAL	AIR FILTER BA5710 LED FOR.PART HAS BEEN



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Service Difficulty Report

Aircraft manufacturer's name:	CESSNA	Aircra	ft manufactu	irer's series number:	177
Air Transport (ATA) code: Date: Details: ALTERNATE AIR DOOR CAME LOC	7160 05-JUL-02 DSE FROM PLENUM CH	AIR INTAKE Aircraft Model Number: IAMBER. DOOR WENT INTO FUEL	177RG SERVO INLET	Name of part: Part Number: , CAUSING ENGINE TO QU	DOOR IT.
Air Transport (ATA) code: Date: Details: THE RUBBER SEAL AROUND THE	7160 01-DEC-98 EDGE OF THE VALVE F	AIR INTAKE Aircraft Model Number: RIPPED AND LOOKED LIKE IT WOU	177B ILD HAVE BEE	Name of part: Part Number: N SUCKED INTO THE ENG	SEAL 17520789 INE IN A COUPLE OR MORE
HOURS. SUBMITTER STATED THE	E RUBBER SEAL LOOKE	ED LIKE IT WAS MADE FROM THE	WRONG MATE	RIAL . TT ON PART, 8 HOU	JRS.
Air Transport (ATA) code: Date: Details:	7160 21-OCT-98	AIR INTAKE Aircraft Model Number:	177RG	Name of part: Part Number:	AIR DOOR 16500196
OWNER OF AIRCRAFT SAID FUEL MISSING FROM THROTTLE CABLE THROTTLE CABLE MOUNT AND IN INSPECTION). NEEDS INSPECTIO	FLOW WAS LOW. RAN MOUNT ON BOTTOM (ISTALLED NEW ALTER! N OF AIR BOX ASSY AN	I UP, OPS CHECKED FUEL FLOW A OF ENGINE AND ALTERNATE AIR E NATE AIR DOOR AND HINGE AND S ND ALTERNATE AIR DOOR ASSY ('	AT 14 PSI AT FI DOOR LAYING SPRING IN AIR VISUALINSPEC	ULL POWER. INSPECTED IN THE AIRBOX ASSY. INS BOX ASSY. (ACFT HAS 10 CTION).	ACFT AND FOUND TWO BOLTS STALLED TWO NEW BOLTS IN) HRS FROM LAST ANNUAL
Air Transport (ATA) code: Date: Detaile:	7160 05-JAN-04	AIR INTAKE Aircraft Model Number:	177B	Name of part: Part Number:	AIR FILTER AM107635FP
FACTORY NEW PART- SCREEN AT TABS WORK LOOSE. HAVE FOUN BETTER WELDS.	TTACH TABS ARE BENT D THIS CONDITION 3 T	90, AND SPOT WELDED ON TO SU IMES. SOME HAVE BEEN REPAIRI	CREEN FRAME ED WITH SHEE	E. WELDS DO NOT PENET ET METAL SCREWS. TABS	RATE BASE MATERIAL. ATTACH SHOULD BE RIVETED ON OR,
Air Transport (ATA) code:	7261	OIL SYSTEM		Name of part:	CONNECTOR
Date:	09-AUG-05	Aircraft Model Number:	177	Part Number:	69675
(CAN) OIL LEAK DISCOVERED. UF THE LEAK WAS REPAIRED AT A F. ONCE IT WAS REMOVED, IT EMPT	PON LANDING, THE PIL ACILITY. VERIFICATION IED ALL ITS OIL. REPL	OT NOTICED THAT THERE WAS OI N REVEALED THAT THE CONNECT ACED THE CONNECTOR (P/N 696	L IN THE WHE OR ASSEMBL` 75) ANDTHE A	EL PAN. THE PILOT CARR Y TO THE HSG COOLER IN NNULAR GASKET (P/N STI	RIED OUTONE MORE FLIGHT AND LET HOSE WAS CRACKED, AND D 294).
Air Transport (ATA) code: Date: Details:	7310 03-JUL-97	FUEL DISTRIBUTION Aircraft Model Number:	177B	Name of part: Part Number:	HOSE 38B0100006D0210
DURING ANNUAL INSPECTION, FU HOSE IN A STEADY STREAM. HOS NOT AGITATED BY THE PREVENT	IEL WAS SHUT OFF FO SE WAS LOCATED ON L ATIVE MAINTENANCE.	R CLEANING CARBURETOR, DRAI LOW PRESSURE SIDE FEEDING EN SUBMITTER STATED THIS IS THE	N, AND GASCU NGINE DRIVEN SECOND DEU	JLATOR. UPON TURNING I PUMP. HOSE WAS ALSO TSCH HOSE FAILURE ON	FUEL ON, FUELLEAKED FROM IN A LOCATION WHERE IT WAS THIS AIRCRAFT WITH LOW TIME.
Air Transport (ATA) code: Date:	7310 24-OCT-96	FUEL DISTRIBUTION Aircraft Model Number:	177B	Name of part: Part Number:	HOSE 60100030092
Details: PILOT REPORTED A FUEL LEAK F AFROQUIP SB AA135 THIS HOSE	ROM THE ENGINE COM	IPARTMENT. FOUND THE FUEL PI	RESSURE HOS 236-3-0092	SE LEAKING. THIS PROBLI	EM HAS BEEN ADDRESSED BY



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraf	t manufacturer's ser	es number:	177
Air Transport (ATA) code: Date: Details:	7310 03-SEP-96	FUEL DISTRIBUTION Aircraft Model Number:	177RG	Name of part: Part Number:	HOSE S1236C30420
PILOT REPORTED A TOTAL DROP FROM FIREWALL TO FLOW DIVIDE 8-93 AND INSTALLED. THE METAL HOSES WHICH AT PRESENT IS CO	IN FUEL PRESSURE DURIN R LEAKING PROFUSELY WI IDENTIFICATION BAND HAI NTRARY TO THE HOSE MA	G CLIMB-OUT LANDING WITHO HERE THE RE-USABLE SOCKE D AN ASSEMBLY DATE OF 4-85 NUFACTURER. SUBMITTER ST	OUT INCIDENT. UPON I T THREADS TO HOSE. . RECOMMEND CESSI ATED THIS SITUATION	NSPECTION, FOU THIS HOSE WAS JA REVIEW THEIF COULD HAVE BE	IND FUEL PRESSURE HOSE B PURCHASED FROM CESSNA ON R POLICY ON SHELF LIFE OF EEN CATASTROPHIC.
Air Transport (ATA) code: Date: Details:	7310 25-OCT-96	FUEL DISTRIBUTION Aircraft Model Number:	177	Name of part: Part Number:	HOSE 883410000600094
NOTICED FUEL STAIN ON STEEL B WAS DETECTABLE WITH SHOP AIR	RAID HOSE. REMOVED AN AND SOAPY WATER.)	D TESTED. FOUND SEEP HOL	E. NOTIFIED SUPPLIEF	R AND SENT FOR	FACTORY INSPECTION. (SEEP
Air Transport (ATA) code: Date:	7314 25-APR-05	FUEL PUMP Aircraft Model Number:	177RG	Name of part: Part Number:	CAPACITOR ES10382807
THE MAGNETO WAS OVERHAULED PMA'D.	0 70 HOURS AGO, THE CAP	ACITORS WERE SUPPLIED BY	OVERHAULER. THE O	VERHAUL WAS D	OONE AND CAPACITORS ARE FAA
Air Transport (ATA) code: Date: Details:	7322 28-JUN-05	FUEL CONTROL/CARBUR Aircraft Model Number:	ETOR 177	Name of part: Part Number:	CARBURETOR 272
CUSTOMER REPORTS THAT ENGI	NE QUIT ON FINAL. ON THE	GROUND PILOT WITNESSED	GAS POURING OUT FR	OM BOTTOM OF	COWL. (K)
Air Transport (ATA) code: Date:	7322 23-JAN-96	FUEL CONTROL/CARBUR Aircraft Model Number:	ETOR 177	Name of part: Part Number:	FLOAT BRACKET 13662
Defails: ENGINE LOST POWER IN CRUISE F BROKEN IN BEND RADIUS ALLOWI APPEARED TO BE 90 DEGREES. S OF BREAKAGE.	FLIGHT. AFTER SAFE LAND NG EXCESS FUEL TO ENTE UBMITTER STATED LARGE	DING AT NEARBY AIRPORT, RE ER CARBURETOR WHEN FLOA R BEND RADIUS MIGHT PREV	MOVED CARBURETOR T VALVE COULD NOT S ENT UNUSUAL STRESS	AND DISASSEM EAT. BEND RAD ES IN THE META	BLED. FOUNDFLOAT BRACKET IUS OF FLOAT BRACKET L REDUCING THE POSSIBILITY
Air Transport (ATA) code: Date:	7322 26-JUN-95	FUEL CONTROL/CARBUR Aircraft Model Number:	ETOR 177	Name of part: Part Number:	CONTROL BOLT
AT ABOUT 700 FEET ALTITUDE AF CONNECTING THROTTLE CONTRO ROAD AND WITH CHP PERMISSION MANY TIMES IN PAST. SUBMITTER	TER DEPARTURE, ENGINE 1 L TO CARBURETOR WERE N, RETURNED TO AIRPORT. SUGGESTS REPLACING A	WENT TO IDLE. AFTER A SUC FOUND MISSING. INSTALLED SUBMITTER STATED BOLT A T OVERHAUL AND DO NOT OV	CESSFUL OFF AIRPOR NEW BOLT, NUT, SPAC ND CASTELLATED NUT 'ERTORQUE.	F LANDING WAS CER, AND WASHE HADPROBABLY	MADE, BOLTAND HARDWARE FRS. AIRCRAFT TOWED TO A BEEN OVERTORQUED. MAYBE
Air Transport (ATA) code: Date: Details:	7414 05-OCT-04	MAGNETO/DISTRIBUTOR Aircraft Model Number:	177	Name of part: Part Number:	GEAR 10357586

LOST POWER ON TAKEOFF. VERIFIED PROBLEM OF LT MAGNETO INOPERATIVE. INSPECTED AND FOUND MAGNETO DISTRIBUTOR GEAR MISSINGSEVERAL TEETH. GEAR WAS LOOSE ON SHAFT WHICH PROBABLY CONTRIBUTED TO BREAKAGE. SUSPECT CAUSE WAS LACK OF PROPER MAINTENANCE OVER LIFE OF MAGNETO. ANNUAL INSPECTION WAS SIGNED OFF IN AUGUST 2004.



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraft manufa	cturer's series number: 177	
Air Transport (ATA) code: Date: Details: ROUGH ENGINE, LEFT MAG DEAD UPON EXAMINATION OF BUSHING 163049 INSTALLED REF. TCM SE	7414 30-MAY-97 ON RUN-UP. REMO 6, DETERMINED IT W/ 556C OR AD 74-26-0	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177A VED LEFT MAG AND FOUND SHOULDERED MAY AS THE OLD STYLE, SINTERED IRON PN 10-516 9.	Name of part: BUSHING Part Number: 1051659 GNETO DRIVESHAFT BUSHING WITH SHOULDER MISSIN 59. IT SHOULD HAVE HAD AMACHINED STEEL BUSHING	IG. 9 PN 10-
Air Transport (ATA) code: Date: Details:	7414 11-APR-96	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177RG	Name of part: IMPULSE SPRING Part Number: 1051324	
(CAN)ON CLIMBOUT, ENGINE RPN WITH.	I DROPPED TO IDLE.	EXAMINATION REVEALED THE DUAL MAGNET	DIMPULSE SPRING BROKEN. AWD 78-09-07NOT COMPL	IED
Air Transport (ATA) code: Date: Details:	7414 05-APR-95	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177	Name of part: COIL Part Number:	
THE MAGNETO COIL CRACKED CA TIME A DUAL MAG FAILURE OCCU INPSECTION, BUT IT WOULD BE H	AUSING MAG TO FAIL IRRED ON LANDING I IIGHLY RECOMMEND	THIS REPORT IS IN CONJUNCTION WITH AN ROLL OUT. INSPECTIONS ON THE NAGNETOS ABLE TO DO SO. SHOP HAS NOW FOUND 4 CF	ADDITIONAL REPORT ON THE SAME AIRPLANE AT THE S DO NOT REQUIRE REMOVAL OF COIL TO SATISFY ACKED SLICK COILS.	SAME
Air Transport (ATA) code:	7414	MAGNETO/DISTRIBUTOR	Name of part: COIL	
Date: Details: THE MAGNETO COIL CRACKED IT FAILED BY CRACKING ALSO, AND SUBMITTER RECOMMENDS ACTU BOTTOM OF THE COILS.	US-APR-95 S OUTER CASING. TI , IT ONLY HAD 180 HO ALLY REMOVING CO	AIRCRAFT MODEL NUMBER: 177 HERE DID NOT SEEM TO BE ANY EVIDENCE OF DURS TIME IN SERVICE, AN ADDITIONAL MALFU ILS FROM THE MAGNETOS DURING ANY 100-H	Part NUMBER: ABUSE, BUT THE LEFT MAGNETO ON THESAME ENGIN INCTION AND DEFECT REPORT WILL BE FILED FOR IT. DUR OR ANNUALINSPECTION TO DETECT CRACKS ON T	E THE
Air Transport (ATA) code: Date: Detaile:	7414 22-JUL-96	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177RG	Name of part: IMPULSE CAM Part Number: 103493576	
INSPECTED MAGNETO RIVETED (CHANGED OUT TO THE SNAP RIN	CAM ASSY AND FOUN G STYLE AT 500 HOU	ND WORN BEYOND 'X' PLUS .014 INCH. SUBMIT IRS. NEW STYLE FOR THIS APPLICATION IS 10	TER STATES THESE EARLY RIVETED UNITSSHOULD BE 400167-9.	
Air Transport (ATA) code: Date: Dataile:	7414 16-NOV-98	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177	Name of part: BEARING Part Number: 1081806	
PILOT REPORTED NORMAL MAG (MOUNTING EAR BROKEN OFF AN HOLDING IT TOGETHER. REMOVI SEVERAL PIECES AND LOWER MO BROKEN. ELECTROSYSTEMS BE	CHECK PRIOR TO 10- D MAG PULLED AWA ED MOUNTING NUTS DUNTING STUD BENT LIEVES BEARING FAI	MINUTE FLIGHT. AFTER LANDING NOTICED OF Y FROM ACCESSORY CASE. THE MAGNETO C. AND FOUND A SMALL PIECE BROKEN FROM U F. MAG DISSASSEMBLY FOUND DRIVE END BE LURE MAY HAVE BEEN INITIAL CAUSE OF FAIL	L DRIPPING FROM COWL. FOUND LT MAGNETO WITH L SE WAS GAPPED OPEN AND ONLY 2 SCREWS REMAIN PPER MOUNTING EAR.LW12706 ADAPTER BROKEN IN ARING DESTROYED, SHAFT BENT, AND DISTRIBUTOR G JRE. COMPONENT P/N S4LN-2110-51360-37.	OWER ED EAR
Air Transport (ATA) code: Date: Details:	7414 26-NOV-02	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177RG	Name of part: MAGNETO Part Number: 1038255511	
ON OCT 12, 2002 AT APPROX. 203	0, AIRCRAFT WAS SU		N ENGINE OUT, GEAR UP, FORCED LANDING, NEAR SO	UTH

VIENNA, OHIO. PILOT AND PASSENGER WERE SERIOUSLY INJURED. ACCORDING TO THE PILOT, HE WAS CRUISING AT 2500FT, WHEN HE NOTICED AN UNUSUAL ODOR AND SHORTLY AFTER THAT, THE ENGINE QUIT. AFTER ATTEMPT TO RESTART THE ENGINE, MADEA FORCED LANDING. AIRCRAFT TOUCHED DOWN HARD, BREAKING THE LT WING SPAR AND WRINKLING THE FUSELAGE, EMPENNAGE, FIREWALLAND DAMAGING THE PROPELLER. EXAMINATION BY AN FAA SAFETY INSPECTOR, REVEALED THAT THE MOUNTING HARDWARE FOR THE SINGLE MOUNTED, DUAL MAGNETO WAS MISSING AND THE MAGNETO HAD WORKED LOOSE AND WAS LAYING IN THE ACCESSORY SECTION.



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraft ma	nufacturer's series number:	177
Air Transport (ATA) code: Date: Details: THE AIRCRAFT MADE AN EMERGE BURNED AND THE CONDENSER W AND THE MAGNETO REINSTALLEE	7414 11-JUL-00 NCY LANDING IN A FIELD A VERE PART OF A NEWLY IN AND RETURNED TO ENGL	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177 AFTER A LOSS OF ENGINE POWER. STALLED FACTORY REMANUFACTO NE. ENGINE PERFORMED SATISFA	B Name of part: Part Number: INSPECTION BY A MECHANIC REV URED MAGNETO. THE POINTS AND ACTORILY. (X)	CONDENSER ES10349276 /EALED THE POINTS WERE O CONDENSER WERE REPLACED,
Air Transport (ATA) code: Date: Details: DURING 100-HOUR ANNUAL INSPE CHECK. MAGNETO REFITTING WI DRIVE. THE ENGINE STOPPED IN- TO AIRCRAFT OR PERSONNEL.	7414 15-MAR-99 CTION, MAGNETO TYPE BI TH LYCOMING GASKET P/N FLIGHT AND THE AIRCRAF	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177 ENDIX D2000 SERIES REMOVED FC 62224 INSTEAD OF LW-12681. THE T WAS FORCED TO LAND ON A NE/	RG Name of part: Part Number: PR CONTACT BREAKER REPLACEM MAGNETO BECAME LOOSE AND B ARBY AIRFIELD. THERE WAS NO D	GASKET ENT AND INTERNALTIMING BACKED OFF FROM THE ENGINE AMAGE OR INJURY SUSTAINED
Air Transport (ATA) code: Date: Details: (CAN) ACCELERATED WEAR OF PO	7414 02-AUG-99 DINTS IN MAGNETO SUSPE	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177 CTED BY OPERATOR.	Name of part: B Part Number:	POINTS 10382585
Air Transport (ATA) code: Date: Details: (CAN) MAGNETO FAILED ON LT PC EVIDENT. AS THE PART ONLY HAI REPAIR, I BENCH TESTED IT AND I DISCOVERED THAT THE MAGNET GEARS, RETESTED ON THE BENC	7414 14-APR-03 ORTION (DUAL MAG) ON RU D 72.5 HOURS SINCE ENGIN DISCOVERED THAT THE SF D ROTOR WAS NOT TIMED H AND NOW THE MAGNET	MAGNETO/DISTRIBUTOR Aircraft Model Number: 177 N UP. MAGNETO WAS REMOVED A NE WAS OVERHAULED. REPAIRED ARK WAS WEAK AND NOT OCCUR CORRECTLY TO THE DISTRIBUTOR D FUNCTIONS PROPERLY.	B Name of part: Part Number: AND EXAMINED, BUT NO OBVIOUS THE MAGNETO. WHEN I RECEIVED RING AT THE PROPER TIME. UPON R GEARS. I RETIMED THE MAGNETO	MAGNETO ES1068255511 DAMAGE OR FAILURE WAS THE MAGNETO BACK AFTER FURTHER INVESTIGATION I D ROTOR TO THE DISTRIBUTOR
Air Transport (ATA) code: Date: Details: ENGINE RPM DROPPED TO APPRO FEET OF CLIMB OUT. INSPECTION COMBUSTION END. EACH INSULA	7421 08-OCT-97 DXIMATELY 2,000 RPM ON 0 I OF INDUCTION, FUEL AND TOR WAS IN TWO PIECES	SPARK PLUGS/IGNITERS Aircraft Model Number: 177 CLIMB-OUT. GROUND RUN-UP WAS DIGNITION SYSTEMS, REVEALED T BROKEN LENGTHWISE WITH CENT	Name of part: Part Number: S NORMAL BEFORE AND AFTER FLI WO AUBURN SR-87 AC PLUGS WIT ER ELECTRODE.CAUSE OF BROKE	SPARK PLUG SR87 GHT AND DURINGFIRST 200 H BROKEN INSULATORS ON THE N INSULATORS UNDETERMINED.
Air Transport (ATA) code: Date: Details: DURING PRE-BUY INSPECTION, FO BEEN MODIFIED PER AD 93-05-06 CREATED A HAZARDOUS SITUATION MAINTENANCE/INSPECTION COUL	7430 19-MAR-96 DUND IGNITION KEY COULD BY INSTALLING ACS/GERDI DN AS KEY COULD BE REM D HAVE CAUSED SERIOUS	SWITCHING Aircraft Model Number: 177 D BE REMOVED FROM SWITCH IN A ES KIT A-3600. THIS MODIFICATION IOVED WITH MAGS STILL HOT. SUS S INJURY.	RG Name of part: Part Number: NY POSITION. DURING LOG BOOK N WAS DONE AT LAST ANNUAL (8/9: SPECT CAUSE WAS HIGH TOTAL TI	SWITCH C12925010105 REVIEW, FOUND SWITCH HAD 5) 58 HOURS PREVIOUSLY. THIS ME. LACK OF PROPER
Air Transport (ATA) code: Date: Details:	7602 25-JAN-01	MIXTURE CONTROL Aircraft Model Number: 177	Name of part: B Part Number:	LEVER S12345

MIXTURE CONTROL BROKE ON GROUND RUN UP. BREAK APPEARS TO BE DEFECT IN MATERIAL.



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Service Difficulty Report

		A ¹	()		477
Aircraft manufacturer's name:	CESSNA	Aircra	it manufacturer's se	ries number:	177
Air Transport (ATA) code: Date: Details: (CAN) DURING APPROACH ENGIN SUBSEQUENT APPROACH AND LA EXAMINATION OF THROTTLE CNT ARM. SUBMITTER SUGGESTS TH	7603 09-FEB-00 E POWER INCREASED. I ANDING, PILOT USED MIX 'L FOUND THREADED EN IS HAPPENED BECAUSE	POWER LEVER Aircraft Model Number: PILOT COULD NOT CNTL ENGINI (TURE CNTL TO SHUT DOWN EN ID OF CNTL HAD SEPARATED FR ROTATION OF CNTL KNOB ON T	177B E WITH THROTTLE CNT IGINE PRIOR TO TOUCI ROM ROD END WHICH \ HIS CABLEASSY TRAN	Name of part: Part Number: L AND CARRIED HDOWN. A/C HAE WASSTILL ATTAC SMITTED A ROTA	CABLE 565549013 OUT A MISSED APPROACH. ON A DTO BE TOWED FROM RUNWAY. HED TO CARBURETOR THROTTLE ITIONAL FORCE TO OTHER END
OF THE CNTL CABLE WHICH MAY	HAVE LOOSENED JAM N	IUT AND ALLOWED CABLE END	TO BACK OUT OF ROD	END.	
Air Transport (ATA) code: Date: Details: PILOT REDUCED POWER TO LANK	7603 23-FEB-96 D WITH NO RESPONSE T	POWER LEVER Aircraft Model Number: O ENGINE. LANDED UNEVENTF	177RG ULLY. THROTTLE CON	Name of part: Part Number: TROL CABLE BR(CONTROL CABLE C299500401 DKEN.
Air Transport (ATA) code: Date:	7603 13-JUL-95	POWER LEVER Aircraft Model Number:	177	Name of part: Part Number:	CONTROL CABLE S122219
DURING A SCHEDULED INSPECTION ATTACHES TO THE CABLE. IT API REPLACED WHICH IS VERY COST	ON, FOUND THROTTLE C PEARED WHEN THE THR LY.	CABLE BENT AND CRACKED AT 1 OTTLE HIT ITS STOP, THE THRC	HE BEND LOCATED AT	THE THREADED ED TO BE PUSHE	END WHERE THE ROD END D. THE CABLE HAD TO BE
Air Transport (ATA) code: Date: Details:	7810 16-JUN-03	COLLECTOR/NOZZLE Aircraft Model Number:	177B	Name of part: Part Number:	SHROUD 17500115
COMING LOOSE AND LETTING SC	REEN VIBRATE AND COM	ME APART. THIS WOULD LET PI	ECES OF THE SCREEN	GO INTO ENGINE	WHENCARB HEAT IS ON.
Air Transport (ATA) code: Date:	7810 18-JUL-96	COLLECTOR/NOZZLE Aircraft Model Number:	177B	Name of part: Part Number:	STACK
EXIT STACK OF MUFFLER SEPARA WELD. THIS WAS AN FAA/PMA PA CARBURETOR AREA.	ATED FROM THE MUFFLE IRT. ENGINE SHOWED N	ER. APPEARS WELDS MAY NOT IO SIGNS OF VIBRATION. EXHAU	HAVE BEEN 'NORMALI. JST EXITED THE MUFF	ZED' CAUSING A I LER INTO COWLII	BRITTLE AREA AROUND THE NG, GASCOLATOR, AND
Air Transport (ATA) code: Date:	7810 15-JUL-96	COLLECTOR/NOZZLE Aircraft Model Number:	177B	Name of part: Part Number:	MUFFLER
Details: EXIT STACK OF MUFFLER SEPARATED FROM THE MUFFLER. SUBMITTER STATED APPEARS WELDS MAY NOT HAVE BEEN 'NORMALIZED' CAUSINGA BRITTLE AREA AROUND THE WELD. THIS WAS AN FAA-PMA PART. ENGINE SHOWED NO SIGNS OF VIBRATION. EXHAUST EXITED THE MUFFLER INTO COWLING, GASCOLATOR, AND CARBURETOR AREA.					
Air Transport (ATA) code: Date:	7910 07-JUN-99	OIL STORAGE (AIRFRAM Aircraft Model Number:	E FURNISH) 177RG	Name of part: Part Number:	TUBE 20500111
Details: AFTER 15 MINUTES FLIGHT TIME OF ACCOMPLISHED SUCCESSFUL PA COVERED WITH OIL, NO OIL SHOW ATTACHED OIL DRAIN TUBE, PN 2 OIL DRAIN TUBE BECAME LOOSE FORCED OPEN ALLOWING ALL OI	OF 1ST FLT AFTER ANNU IRTIAL POWER, DOWNW WED ON THE DIPSTICK. 1050011-1, HAD A DENT O UNDER VIBRATION AND L TO VENT OVERBOARD	JAL, PILOT NOTICED PROP OVEF IND, EMERG LANDING. ENG STU NO LEAKS FOUND. DRAIN VALV IN LOWER END AND THE NOSE (AIR LOAD, FOULEDNOSE GEAR	REPEDING AND ENG C OPPED WHEN ACFT HA 'E FUNCTIONED PROPE GEAR TRUNNION HAD I R TRUNNION. WITH NO	JIL PRESS DROP D CLEARED RUN ERLY. WHILE CHI FRESHLY CHIPPE SE GEAR FULLY F	PING TO ZERO. PILOT IWAY. ENGCOMPT AND BELLY ECKING OIL QUICK DRAIN, NOTED ID PAINT ON UPPER LT PORTION. RETRACTED, OIL QUICK DRAIN



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Service Difficulty Report

Aircraft manufacturer's name:	CESSNA	Aircraft manufacturer's se	ries number:	177
Air Transport (ATA) code:	7920	ENG OIL DIST (AIRFRAME FURN)	Name of part:	HOSE
Date:	26-SEP-95	Aircraft Model Number: 177B	Part Number:	
Details:				
DURING ANNUAL INSPECTION, FO	UND ALL FUEL AND OIL HO	DSES IN ENGINE COMPARTMENT TO BE ORIGINAL -	18 YEARS OLD. S	UBMITTER SUGGESTS THE
MECHANICS AND I.A.'S IN THE FIEL	_D NEED MANDATORY TIM	E CHANGE REQUIREMENTS FOR FLEXIBLE HOSES.		
Air Trononort (ATA) and a	7021		Nome of ports	
Air Transport (ATA) code:		COULER	Name of part:	COOLER 8406 L
Date:	06-APR-97	Aircraft Model Number: 177RG	Part Number:	8406J
INTERNAL FAILURE LOSS OF SUB	STANTIAL OIL SUBMITTE	R STATED ENGINE FAILURE WOLLD HAVE BEEN IM	MINANT OUTSIDE	ETEMP 58 DEGREES
Air Transport (ATA) code:	7921	COOLER	Name of part	COOLER
Date:	11-APR-96	Aircraft Model Number: 177RG	Part Number:	8406F
Details:				0.002
OIL COOLER WAS REMOVED DUE	TO LEAKING. THERE WAS	NO APPARENT REASON FOR THE LEAK SUCH AS E	XTERNAL DAMAC	SE.
Air Transport (ATA) code:	7922	TEMPERATURE REGULATOR	Name of part:	VALVE
Date:	17-OCT-97	Aircraft Model Number: 177RG	Part Number:	75944
Details:				
(AUS) ENGINE OIL COOLER BYPAS	S VALVE (VERNATHERM)	FACE BADLY SCORED FROM CONTACT WITH VALVE	SEAT WHICH WA	AS ALSO DAMAGED.FOUND
DURING INSPECTION IAW AD/LYC/	78 AMDT5 WHICH WAS OV	ERDUE BY SEVERAL HUNDRED HOURS. PERSONN	AL/MAINTENANCE	ERROR.
Air Transport (ATA) code:	7922	TEMPERATURE REGULATOR	Name of part:	VALVE
Date:	06-JUN-95	Aircraft Model Number: 177B	Part Number:	75944
Details:				
C/W SB 518C (LYC) CHECKED VER	NATHERM NUT, FOUND LC	DOSE, NOT CRIMPED CORRECTLY. NEW PART ON C	RDER. PREVIOU	SLY FOUND 3 OTHER AIRCRAFT
OUT OF 5 AIRCRAFT CHECKED WI	TH VERNATHERM NUTS LC	JOSE, AND THEY WERE REPLACED WITH NEW VER	NATHERM VALVE	SAFTER INSPECTION TO C/W SB
5166.				
Air Transport (ATA) code	7922	TEMPERATURE REGULATOR	Name of part	VALVE
Date:	09-MAY-95	Aircraft Model Number: 177B	Part Number:	75944
Details:				10011
DURING AN OIL CHANGE. THE THE	ERMOSTATIC BYPASS VAL	VE WAS REMOVED FROM INSPECTION PER LYCOM	NG MANDATORY	SB 518A. THE CRIMP NUT ON
VALVE WAS FOUND LOOSE AND V	ALVE SEAT WORN. WHILE	INSPECTING A BEECH SPORT, PIPER CHEROKEE	80 AND AN ENST	ORM280F HELICOPTER, IT WAS
FOUND THEIR VALVES HAD LOOS	E CRIMP NUT AND WORN	ALVE SEAT. THE DEFECTIVE VALVES WERE ALL R	EPLACED WITH S	UPERIOR AIR PARTS SL 53E19600
WHICH HAS DRILLED NUT AND RC	ILL PIN.			
Air Transport (ATA) code:	7922	TEMPERATURE REGULATOR	Name of part:	VALVE
Date:	04-MAY-95	Aircraft Model Number: 177B	Part Number:	53E19600
Details:				
PER AIRCRAFT ANNUAL INSPECTI	ON, CHECKED THERMOST	ATIC VALVE CONDITION. FOUND THE SERIAL NUME	3ER OF THIS VAL	/E IS NOT SUBJECT TO INITIAL
INSPECTION, BUT FOUND THIS TH	ERMOSTATIC VALVE TO H	AVE A LOOSE CRIMP NUT. ALL THERMOSTATIC VA	LVES NEED TOBE	CHECKED OR A NEW DESIGN OF
SAFETING CRIMP NUTS.				
Air Trononort (ATA) and	7000		Nome of series	
All Transport (ATA) Code:		Aircraft Medel Number: 477DC	Name of part:	
Date:	00-APK-90	AIRCRAFT MODEL NUMBER: 177KG	Part Numper:	33E 19000
DOMINIC COMILIANCE WITH LICC	MILLO OD OTOR DRIED Z-0-	33, THE OKIMI NOT ON THE THERINOUTATIO DIFAC		



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Service Difficulty Report

Aircraft manufacturer's name:	CESSNA	Aircraft	manufacturer's ser	ies number:	177
Air Transport (ATA) code: Date: Details:	8010 11-AUG-98	CRANKING Aircraft Model Number:	177RG	Name of part: Part Number:	DIODE 07707192
AUXILIARY POWER WAS PLUGGE	D IN AND PROPELLER STA	ARTED SPINNING. FOUND DIODE	ON BUSS RELAY SHO	DRTED.	
Air Transport (ATA) code: Date:	8500 11-NOV-98	ENGINE (RECIPROCATING Aircraft Model Number:	6) 177RG	Name of part: Part Number:	ENGINE 61510
Details: MISISNG OIL RESTRICTOR ORFICE PRESSURE AFTER INSTALLATION. DISCOVERED THE OIL RESTRICTO WAS RED LINED AND WOULD NOT SUBMITTER RECOMMENDED COM	E AND LOW OIL PRESSUR PROPELLER WOULD NC IR ORFICE WAS NOT INST COME DOWN. HAD WRC PARING NEW ENGINE TO	E. FACTORY OVERHAULED ENG T RESPOND TO PITCH CHANGES ALLED IN THE NEW REPLACEME NG OIL PRESSURE REGULATOR OLD ENGINE BEFORE INSTALLA	INE FROM AVCO-LYCO S. AFTER SENDING PI ENT ENGINE. AFTER T SPRING INSTALLED / TION.	DMING WOULD N ROPELLER AND (HE PLUG WAS IN ALSO. ONE FOR	IOT MAKE PROPEROIL GOVERNOR TOPROP SHOP, ISTALLED, THE OIL PRESSURE FIXED PITCH PROP ENGINE.
Air Transport (ATA) code: Date: Details:	8520 17-SEP-03	ENGINE POWER SECTION Aircraft Model Number:	177RG	Name of part: Part Number:	BEARING SL13212A
NR 2 CYLINDER CONNECTING ROI VALVE OPENED IN FLIGHT AND DE	D FAILED AT THE CRANKS PLETED ENGINE OIL SUF	SHAFT DUE TO OIL STARVATION PPLY.	AOF THE CONNECTIN	G ROD BEARING	. POSSIBLE OIL QUICK DRAIN
Air Transport (ATA) code: Date: Deteile:	8520 26-JAN-01	ENGINE POWER SECTION	177A	Name of part: Part Number:	SHAFT SL13790A
ROUGH GRIND FINISH CAUSED AL ROCKER SHAFTS WERE DEFECTIV	MOST ALL 8 ROCKER ARI /E FROM WEAR AND WEF	M BUSHINGS TO WEAR AND CON RE REPLACED.	ITAMINATE OIL WITH I	BRASS, METAL P	ARTICLES. BUSHINGS AND
Air Transport (ATA) code: Date:	8520 04-SEP-98	ENGINE POWER SECTION	177RG	Name of part: Part Number:	CAMSHAFT SL18840
CAN) THE ENGINE WAS REMOVED THE LIFTER BODY FACE AND OF T AND GALLING AND OF THE AFFEC FACE. ALL DEFECTIVE PARTS WE	D DUE TO METAL CONTAN HE INTAKE AND EXHAUS TED CAMSHAFT LOBES. 1 RE REPLACED AND THE I	MINATION IN THE OIL. DURING D T VALVES OF NR 1 CYLINDER; OI THE FOUR PISTONS HAD SCRAT(ENGINE WAS REPAIRED.	ISASSEMBLY OF THE THE INTAKE VALVE (CHES AND MANY MET,	ENGINE, PREMA DF NR 3 CYLINDE AL PARTICLES IN	TURE WEAR WAS NOTICED OF IR IN THE FORM OF SPALLING IPREGNATED IN THE PISTON
Air Transport (ATA) code:	8520	ENGINE POWER SECTION		Name of part:	CRANKCASE
Date: Details:	10-APR-98		177RG	Part Number:	
CYLINDER AND FOLLOWED ENTIR FORWARD LEFT SIDE OF COWLIN	E BOTTOM CIRCUMFERE G AND STREAKING UNDE	NCE OF CYLINDER, CRACK WAS R AIRCRAFT BELLY.	B DISCOVERED AFTER	PILOT REPORT	OF A LARGE OIL LEAK FROM
Air Transport (ATA) code: Date: Details:	8520 11-JUL-96	ENGINE POWER SECTION Aircraft Model Number:	177B	Name of part: Part Number:	CRACKCASE LW12372
(CAN) CRACK DETECTED VISUALL CRACK APPEARED TO ORIGINATE	Y ON CRANKCASE AT UP IN THE AREA OF A PREV	PER LEFT HAND FORWARD OF # IOUS WELDED REPAIR.	2 CYLINDER MOUNT S	TUD. NO OIL LEA	AK WAS EVIDENT, HOWEVER THE



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraft manufacture	r's series number: 177
Air Transport (ATA) code: Date: Details: (CAN) PILOT REPORTED HEARING AND AIRCRAFT RETURN FOR AN OUT OF BOTTOM SPARK PLUG H	8530 01-JUN-03 3 A BANG DURING CLI UNEVENTFUL LANDIN OLE AREA. FURTHER	ENGINE CYLINDER SECTION Aircraft Model Number: 177RG IMB, FOLLOWING BY PARTIAL POWER LOSS AND VI IG. INITIAL INVESTIGATION REVEALED NR 3 CYLINE DETAIL WILL BE SUBMITTED UPON ENGINE TEARDO	Name of part: VALVE Part Number: BRATION WAS FELT. AN EMERGENCYWAS DECLARED DER HAS A VALVE HEAD SEPARATED AND IS STICKING DWN.
Air Transport (ATA) code: Date: Details: THE PUSH ROD TUBE RETAINER A DENT IN THE VALVE COVER OF	8530 30-OCT-00 CLIPS, PN SL14995, IN NR 2 CYLINDER. SUE	ENGINE CYLINDER SECTION Aircraft Model Number: 177B NR 2, NR 3, AND NR 4 VALVE COVERS WERE BROP BMITTER STATED IT APPEARED TO BE A MATERIAL	Name of part: CYLINDER Part Number: SL3600WA20P EN OFF AT THE BOLT HEADS. DETECTION WAS DUE T DEFECT.(X)
Air Transport (ATA) code: Date: Details: THE PUSH ROD TUBE RETAINER A DENT IN THE VALVE COVER OF	8530 30-OCT-00 CLIPS, PN SL14995, IN NR 2 CYLINDER. SUE	ENGINE CYLINDER SECTION Aircraft Model Number: 177B N NR 2, NR 3, AND NR 4 VALVE COVERS WERE BROP BMITTER STATED IT APPEARED TO BE A MATERIAL	Name of part: CYLINDER Part Number: SL3600WR20P EN OFF AT THE BOLT HEADS. DETECTION WAS DUE T DEFECT.(X)
Air Transport (ATA) code: Date: Details: THE PUSH ROD TUBE RETAINER DENT IN THE VALVE COVER OF N	8530 30-OCT-00 CLIPS, SL 14995, IN NI IR 2 CYLINDER. SUBM	ENGINE CYLINDER SECTION Aircraft Model Number: 177B R 2, NR 3, AND NR 4 VALVE COVERS WERE BROKEN AITTER STATED IT APPEARED TO BE A MATERIAL DI	Name of part: CYLINDER Part Number: SL3600WA20P I OFF AT THE BOLT HEADS. DETECTION WAS DUE TO EFECT. (X)
Air Transport (ATA) code: Date: Details: NR 2 CYLINDER DEVELOPED AN 0 REMOVING THE CYLINDER FOR E THE FACTORY. THE OTHER 3 CY	8530 11-JUN-99 DIL LEAK DIAGNOSED EXCHANGE UNDER WA LINDERS WERE CHEC	ENGINE CYLINDER SECTION Aircraft Model Number: 177B AS A CRACK THROUGH THE CYLINDER CASTING IN ARRANTY, THE EXHAUST AND INTAKE ROCKER ARI CKED, AND THE ROCKER ARMS WERE IN THE CORR	Name of part: CYLINDER Part Number: I THE AREA OF THE INTAKE VALVE SEAT. UPON IS WERE DISCOVERED SWAPPEDAS DELIVERED FRO ECT PLACES ON THOSE CYINDERS.
Air Transport (ATA) code: Date: Details: PILOT REPORTED FAILURE OCCL OIL COVERING W/S FOLLOWED E COWLING AND ACFT COVERED V SMOH WITH CERMICROME CYL. ABOUT HALF-WAY AROUND CYL I SUSPECT CAUSE TO BE MFG OR	8530 26-AUG-98 JRRED AFTER TAKEO Y A LOSS IN OIL PRES VITH OIL FROM ENG. A COMP TEST, 20 HRS BARREL FOR SOME T CYL O/H PROCESS.	ENGINE CYLINDER SECTION Aircraft Model Number: 177RG FF WHILE TURNING DOWN WIND AT 1,100 FEET AGI SSURE. ENG SHUT DOWN, UNEVENTFUL DEAD STI REMOVED TOP COWLING TO FIND NR 1 CYL HEAD S S BEFORE FAILURE OCCURRED, WAS72/80. NO IND IME. FAILURE OCCURRED WHERE CYL HEAD THRE	Name of part: HEAD Part Number: LW12993 A LOUD BAG HEARD FROM THE ENGWITH SMOKE A CK LANDING MADE INVEST REVEALED A HOLE IN THE SEPARATED FROM CYL BARREL. ENG HAS 894.0 HRS ICATION OF LEAKAGE; CYL HEAD APPEARED CRACKE ADS ON TO BARREL. RECOMMEND FAA INVESTIGATE
Air Transport (ATA) code: Date:	8530 26-AUG-98	ENGINE CYLINDER SECTION Aircraft Model Number: 177RG	Name of part: CYLINDER Part Number: LW12993

Date: Details:

PILOT REPORTED FAILURE OCCURRED AFTER TAKEOFF WHILE TURNING DOWN WIND AT 1,100 FEET AGL. A LOUD BANG WAS HEARD FROM THEENGINE WITH SMOKE AND OIL COVERING WINDSHIELD FOLLOWED BY A LOSS IN OIL PRESSURE. ENG SHUT DOWN AND UNEVENTFUL DEAD STICK LANDING MADE. INVEST REVEALED A HOLE IN THE COWLING AND ACFT COVERED WITH OIL FROM ENG. REMOVED TOP COWLING TO FIND NR 1 CYL HEAD SEPARATED FROM CYL BARREL. ENG HAS 894.0 HRS SINCE MAJOR O/H WITH CERMICROME CYLINDERS. A COMPRESSIONTEST 20 HRS BEFORE FAILURE OCCURRED WAS 72/80. THERE WAS NO INDICATION OF LEAKAGE FROM CYL. HOWEVER, CYL HEAD APPEAREDCRACKED ABOUT HALF WAY AROUND CYL BARREL FOR SOME TIME. FAILURE OCCURRED WHERE CYL HEAD TREADS ONTO THE BARREL.



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Service Difficulty Report

Aircraft Series Detail

Aircraft manufacturer's name:	CESSNA	Aircraft manufact	urer's series number: 177
Air Transport (ATA) code: Date: Details: (CAN) ENGINE WAS OVERHAULED REMOVED, REPAIRED AND REINS	8530 26-SEP-96 15 AUGUST 1994. A TALLED UNDER WAI	ENGINE CYLINDER SECTION Aircraft Model Number: 177RG NNUAL 100 HOUR INSPECTION JULY 1995 FOUNE RRANTY BY OVERHAULER. NEXT 103.3 HOUR ANI	Name of part: CAP VALVE STEM Part Number: 62388 #1 CYLINDER COMPRESSION LOW (50 PSI), CYLINDER WAS NUAL INSPECTION FOUND FOUR (4) ROCKER BOX COVERS
LEAKING, #1 CYLINDER INTAKE CA	AP VALVE STEM MIS	SING AND METAL CONTAMINATION IN THE OIL FI	.TER.
Air Transport (ATA) code: Date: Details: DURING THE CHANGING OF THE P	8530 17-JUL-95 PUSHROD HOUSING	ENGINE CYLINDER SECTION Aircraft Model Number: 177 TUBE SEALS WHICH INVOLVES REMOVING THE F	Name of part: ROCKER SHAFT Part Number: 60401 ROCKER BOXES, FOUND THE VALVE ROCKER SHAFT ON
THE EXHAUST SIDE OF CYLINDER	NR 3 CRACKED ABO	OUT ONE-HALF THE WAY AROUND AND .25 INCH	FROM THE END.
Air Transport (ATA) code: Date:	8550 06-JUL-99	ENGINE OIL SYSTEM Aircraft Model Number: 177RG	Name of part: ENGINE Part Number:
Details: APPROXIMATELY ONE HOUR OPE OVERHAULED PROP AND PROP G SEIZED. CAUSE UNKNOWN.	RATION AFTER CON OVERNOR, THE ENC	IING OUT OF MAINTENANCE WHICH INCLUDED O GINE OIL PRESSURE DROPPED, ENGINE OIL PRES	L AND OIL FILTER CHANGE AND REINSTALLING AN SSURE DROPPED, ENGINE OIL EXITED, AND THE ENGINE
Air Transport (ATA) code: Date:	8550 23-AUG-96	ENGINE OIL SYSTEM Aircraft Model Number: 177RG	Name of part: TUBE DRAIN Part Number: LW11847
Details: (CAN) OIL LEAK WAS NOTED ON #. CIRCUMFERENCE.	2 CYLINDER ON INS	PECTION. FLARE ON OIL RETURN TUBE FOUND T	O BE CRACKED APPROXIMATELY 2/3 AROUND ITS
Air Transport (ATA) code: Date: Details:	8550 07-FEB-96	ENGINE OIL SYSTEM Aircraft Model Number: 177RG	Name of part: ELBOW Part Number: MS208234D

(CAN) SLIGHT OIL LEAK NOTED AT #1 CYLINDER. FOUND OIL RETURN FITTING ON CYLINDER HEAD CRACKED AROUND 90 PERCENT OF THE CIRCUMFERENCE AT PIPE THREADS FLUSH WITH BOSS.