



# AOPA Title Services

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 177**

<u>ATA Code</u>	<u>System/Component</u>	<u># of Reports</u>	<u>% of Total Reports</u>
2410	ALTERNATOR-GENERATOR DRIVE SYSTEM	1	3.45%
2710	AILERON CONTROL SYSTEM	3	10.34%
2810	FUEL STORAGE	1	3.45%
2820	FUEL DISTRIBUTION	1	3.45%
2823	FUEL SELECTOR/SHUTOFF VALVE	1	3.45%
5500	EMPENNAGE STRUCTURE	1	3.45%
5751	AILERONS	1	3.45%
6111	PROPELLER BLADE SECTION	1	3.45%
6114	PROPELLER HUB SECTION	5	17.24%
6120	PROPELLER CONTROLLING SYSTEM	1	3.45%
7160	AIR INTAKE	1	3.45%
7261	OIL SYSTEM	1	3.45%
7310	FUEL DISTRIBUTION	1	3.45%
7322	FUEL CONTROL/CARBURETOR	3	10.34%
7414	MAGNETO/DISTRIBUTOR	4	13.79%
7421	SPARK PLUGS/IGNITERS	1	3.45%
7603	POWER LEVER	1	3.45%
8530	ENGINE CYLINDER SECTION	1	3.45%

**Total Number of Report 29**

### Trend Summary by Series **CESSNA**

<u>ATA Code</u>	<u>System/Component</u>	<u># of Reports</u>	<u>% of Total Reports</u>
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**Total Number of Report**



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### Model Specific Detail

<b>Aircraft manufacturer's name:</b> CESSNA		<b>Aircraft manufacturer's model number:</b> 177	
<b>Air Transport (ATA) code:</b> 2410	ALTERNATOR-GENERATOR DRIVE SYSTEM	<b>Name of part:</b> ALTERNATOR	
<b>Date:</b> 27-APR-01		<b>Part Number:</b> DOFF10300J	
<b>Details:</b> ALTERNATOR OVERHAULED, INSTALLED ON AC. FRONT BEARING BALL CAGE BROKE APART AND ALLOWED BALLS TO COLLECT ON ONE SIDE OF BEARING, LOCKING THE ALTERNATOR SHAFT. FAILURE OCCURRED ON 2/10/2001 AFTER 126 HOURS TSOH.			
<b>Air Transport (ATA) code:</b> 2710	AILERON CONTROL SYSTEM	<b>Name of part:</b> BEARING	
<b>Date:</b> 30-AUG-04		<b>Part Number:</b>	
<b>Details:</b> IN FLIGHT, NOTICED THAT LOSS OF AILERON CONTROL INPUT HAD OCCURRED, AND UPON ADDED FORCE TO CONTROL YOKE, DETERMINED THAT TOTAL SEIZURE OF THE AILERONS HAD OCCURRED. LANDED WITH RUDDER CONTROL ONLY. REMOVED TUBE ASSY FROM FIREWALL AND FOUND SHAFT AND BEARING TO BE SEVERELY WORN, APPARENT NEEDLE BEARING DISLODGING CAUSED INABILITY TO ROTATE YOKE FOR AILERON CONTROL INPUT.			
<b>Air Transport (ATA) code:</b> 2710	AILERON CONTROL SYSTEM	<b>Name of part:</b> CONTROL TUBE	
<b>Date:</b> 14-JAN-04		<b>Part Number:</b> 176703013	
<b>Details:</b> AILERON CONTROL SHAFT, WHERE IT MOUNTS TO FIREWALL BEARING WAS RUSTED AND GROVED BEYOND LIMITS, REPLACED LT AND RT SHAFTS AND BEARINGS. BEARING PN 0760633-1 END.			
<b>Air Transport (ATA) code:</b> 2710	AILERON CONTROL SYSTEM	<b>Name of part:</b> BEARING	
<b>Date:</b> 28-AUG-03		<b>Part Number:</b>	
<b>Details:</b> (CAN) SNAPPING NOISE HEARD WHEN AILERON MOVED. BEARING AREAS ON CONTROL TUBES FRONT OF FIREWALL FOUND SEVERELY BRINELLED.			
<b>Air Transport (ATA) code:</b> 2810	FUEL STORAGE	<b>Name of part:</b> NUT	
<b>Date:</b> 24-APR-99		<b>Part Number:</b>	
<b>Details:</b> SELF-LOCKING NUT ON FUEL CAP LOCKING MECHANISM COULD BE TURNED BY HAND. THE LOOSENING OF THE NUT ALLOWED THE LOCKING MECHANISM TO DISENGAGE FROM SHAFT. THIS ALLOWED THE FUEL CAP TO COME OUT OF TANK OPENING AND ALLOWED FUEL TO BE SIPHONED OUT OF THE TANK. THIS CAUSED A FUEL EXHAUSTION ACCIDENT.			
<b>Air Transport (ATA) code:</b> 2820	FUEL DISTRIBUTION	<b>Name of part:</b> PUMP	
<b>Date:</b> 08-MAR-00		<b>Part Number:</b> 154729606	
<b>Details:</b> NEW FUEL PUMP DOES NOT ATTAIN RATED FUEL PRESSURE/FUEL FLOW. THE HIGHEST PRESSURE ATTAINED WAS LESS THAN 2 PSIG AT IDLE AND 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)			
<b>Air Transport (ATA) code:</b> 2823	FUEL SELECTOR/SHUTOFF VALVE	<b>Name of part:</b> VALVE	
<b>Date:</b> 14-FEB-97		<b>Part Number:</b>	
<b>Details:</b> DURING ANNUAL INSPECTION IT WAS DETECTED THAT WHEN TESTING OR OPS CHECKING, THE FUEL SELECTOR VALVE TO DETERMINE DETENT OPERATION, MOVEMENT OF THE VALVE CAUSED FUEL TO LEAK OUT THE TOP OF VALVE AROUND THE SHAFT. THIS HAD BEEN IN PROCESS FOR SOME TIME BECAUSE THE BELLY WAS FUEL STAINED ALSO.			
<b>Air Transport (ATA) code:</b> 5500	EMPENNAGE STRUCTURE	<b>Name of part:</b> ARM	
<b>Date:</b> 21-APR-03		<b>Part Number:</b> 17320345	
<b>Details:</b> WITH GUST LOCK INSTALLED BALANCE ARM LOCKED ON DOWN STOP WHILE A/C WAS TIED DOWN IN GUSTY WIND CONDITIONS.			
<b>Air Transport (ATA) code:</b> 5751	AILERONS	<b>Name of part:</b> HINGE	
<b>Date:</b> 23-AUG-95		<b>Part Number:</b> 12210897	
<b>Details:</b> DURING A 100-HOUR INSPECTION, BOTH CENTER AILERON HINGES WERE FOUND BENT AND THE LEFT HINGE WAS CRACKED APPROXIMATELY 3 INCHES FORWARD OF HINGE BEARING. THERE IS NO OTHER APPARENT DAMAGE TO AILERON, WING, OR INBOARD AND OUTBOARD HINGES (WHICH SEEMS IMPOSSIBLE) AND IT HAS NOT BEEN SUBJECTED TO HIGH WINDS.			
<b>Air Transport (ATA) code:</b> 6111	PROPELLER BLADE SECTION	<b>Name of part:</b> BLADE	
<b>Date:</b> 11-APR-97		<b>Part Number:</b>	
<b>Details:</b> (CAN) PROPELLER RECEIVED FOR CORROSION INSPECTION. MANY GOUGES AND DENTS WERE FOUND. PROPELLER WAS LAST IN THE SHOP IN 1968. THE PROPELLER WAS OVERHAULED.			



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## Service Difficulty Report

### Model Specific Detail

Aircraft manufacturer's name:		Aircraft manufacturer's model number:	
CESSNA		177	
Air Transport (ATA) code:	6114	PROPELLER HUB SECTION	Name of part: HUB
Date:	10-OCT-02		Part Number: D5044
Details: RETIRED HUB DUE TO SURFACE CORROSION ON EXTERIOR, HUB NOT PAINTED.			
Air Transport (ATA) code:	6114	PROPELLER HUB SECTION	Name of part: HUB
Date:	25-MAY-00		Part Number: D4326C211
Details: EXTERIOR SURFACE OF HUB CORRODED BEYOND LIMITS.			
Air Transport (ATA) code:	6114	PROPELLER HUB SECTION	Name of part: HUB
Date:	01-JUN-96		Part Number: D4326C207
Details: CORROSION FOUND ON HUB.			
Air Transport (ATA) code:	6114	PROPELLER HUB SECTION	Name of part: HUB
Date:	01-MAR-96		Part Number: 220117
Details: HUB GREASE FITTING HOLE DAMAGED			
Air Transport (ATA) code:	6114	PROPELLER HUB SECTION	Name of part: HUB
Date:	01-JUL-96		Part Number: D4326C211
Details: HUB FOUND CORRODED.			
Air Transport (ATA) code:	6120	PROPELLER CONTROLLING SYSTEM	Name of part: CONTROL CABLE
Date:	28-JUL-97		Part Number: 2995060105
Details: WHILE RELOCATING THIS AIRCRAFT FOLLOWING AN ANNUAL INSPECTION, THE AIRCRAFT WAS TAXIED TO THE RUN-UP AREA FOR A RUN-UP. PILOT NOTICED PROPELLER CONTROL WAS VERY SENSITIVE AND COULD ONLY GET 1,900 RPM MAX FROM THE ENGINE. AFTER SHUTTING DOWN AND REMOVING ENGINE COWLING TO INVESTIGATE, MECHANIC NOTED THE PROPELLER GOVERNOR CABLE WAS CONNECTED TO THE PROPELLER GOVERNOR LEVER IN A HOLE THAT WOULD NOT ALLOW FULL TRAVEL. THE CABLE WAS DISCONNECTED AND RECONNECTED IN THE PROPER HOLE. ENGINE PERFORMED WITHOUT FURTHER TROUBLE. THIS AIRCRAFT HAD BEEN SIGNED OFF WITH A FRESH ANNUAL BY AN APPROPRIATELY RATED IA. THE CABLE WAS DISCONNECTED TO REPLACE THE CONNECTING BOLT. AIRCRAFT TOTAL TIME BEING 1,169.5 HOURS.			
Air Transport (ATA) code:	7160	AIR INTAKE	Name of part: AIR FILTER
Date:	05-OCT-04		Part Number: BA5710
Details: DURING TROUBLESHOOTING FOR EXCESSIVE MAGNETO DROP, FOUND FACE OF AIR FILTER ELEMENT DETERIORATED. THE INSTALLATION IS FOR A BRACKETT FILTER. REMOVED ELEMENT AND FOUND THAT ELEMENT WAS AN UNAPPROVED PART. THE (FILTER) WAS HAND CUT FROM A PIECE OF GREEN FOAM .6250 INCH THICK. IT APPEARS THE FACE OF THE FOAM WAS PAINTED BLACK SO AS TO LOOK LIKE A GENUINE BRACKETT FILTER. HAD THE FILTER DETERIORATED, INGESTION IN THE CARBURETOR COULD HAVE CAUSED A LOSS OF ENGINE POWER WITH POTENTIAL FATAL RESULTS. THIS PRESENTS A SERIOUS SAFETY PROBLEM AND REPRESENTS A LACK OF REGARD FOR SAFETY. NO LOGBOOK ENTRY COULD BE FOUND FOR RECENT INSTALLATION OF FILTER. ANNUAL INSPECTION WAS SIGNED OFF IN AUGUST OF 2004.			
Air Transport (ATA) code:	7261	OIL SYSTEM	Name of part: CONNECTOR
Date:	09-AUG-05		Part Number: 69675
Details: (CAN) OIL LEAK DISCOVERED. UPON LANDING, THE PILOT NOTICED THAT THERE WAS OIL IN THE WHEEL PAN. THE PILOT CARRIED OUT ONE MORE FLIGHT AND THE LEAK WAS REPAIRED AT A FACILITY. VERIFICATION REVEALED THAT THE CONNECTOR ASSEMBLY TO THE HSG COOLER INLET HOSE WAS CRACKED, AND ONCE IT WAS REMOVED, IT EMPTIED ALL ITS OIL. REPLACED THE CONNECTOR (P/N 69675) AND THE ANNULAR GASKET (P/N STD 294).			
Air Transport (ATA) code:	7310	FUEL DISTRIBUTION	Name of part: HOSE
Date:	25-OCT-96		Part Number: 883410000600094
Details: NOTICED FUEL STAIN ON STEEL BRAID HOSE. REMOVED AND TESTED. FOUND SEEP HOLE. NOTIFIED SUPPLIER AND SENT FOR FACTORY INSPECTION. (SEEP WAS DETECTABLE WITH SHOP AIR AND SOAPY WATER.)			
Air Transport (ATA) code:	7322	FUEL CONTROL/CARBURETOR	Name of part: CARBURETOR
Date:	28-JUN-05		Part Number: 272
Details: CUSTOMER REPORTS THAT ENGINE QUIT ON FINAL. ON THE GROUND PILOT WITNESSED GAS POURING OUT FROM BOTTOM OF COWL. (K)			



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<b>Aircraft manufacturer's name:</b> CESSNA		<b>Aircraft manufacturer's model number:</b> 177	
<b>Air Transport (ATA) code:</b> 7322	FUEL CONTROL/CARBURETOR	<b>Name of part:</b> CONTROL BOLT	
<b>Date:</b> 26-JUN-95		<b>Part Number:</b>	
<b>Details:</b> AT ABOUT 700 FEET ALTITUDE AFTER DEPARTURE, ENGINE WENT TO IDLE. AFTER A SUCCESSFUL OFF AIRPORT LANDING WAS MADE, BOLT AND HARDWARE CONNECTING THROTTLE CONTROL TO CARBURETOR WERE FOUND MISSING. INSTALLED NEW BOLT, NUT, SPACER, AND WASHERS. AIRCRAFT TOWED TO A ROAD AND WITH CHP PERMISSION, RETURNED TO AIRPORT. SUBMITTER STATED BOLT AND CASTELLATED NUT HAD PROBABLY BEEN OVERTORQUED. MAYBE MANY TIMES IN PAST. SUBMITTER SUGGESTS REPLACING AT OVERHAUL AND DO NOT OVERTORQUE.			
<b>Air Transport (ATA) code:</b> 7322	FUEL CONTROL/CARBURETOR	<b>Name of part:</b> FLOAT BRACKET	
<b>Date:</b> 23-JAN-96		<b>Part Number:</b> 13662	
<b>Details:</b> ENGINE LOST POWER IN CRUISE FLIGHT. AFTER SAFE LANDING AT NEARBY AIRPORT, REMOVED CARBURETOR AND DISASSEMBLED. FOUND FLOAT BRACKET BROKEN IN BEND RADIUS ALLOWING EXCESS FUEL TO ENTER CARBURETOR WHEN FLOAT VALVE COULD NOT SEAT. BEND RADIUS OF FLOAT BRACKET APPEARED TO BE 90 DEGREES. SUBMITTER STATED LARGER BEND RADIUS MIGHT PREVENT UNUSUAL STRESSES IN THE METAL REDUCING THE POSSIBILITY OF BREAKAGE.			
<b>Air Transport (ATA) code:</b> 7414	MAGNETO/DISTRIBUTOR	<b>Name of part:</b> GEAR	
<b>Date:</b> 05-OCT-04		<b>Part Number:</b> 10357586	
<b>Details:</b> LOST POWER ON TAKEOFF. VERIFIED PROBLEM OF LT MAGNETO INOPERATIVE. INSPECTED AND FOUND MAGNETO DISTRIBUTOR GEAR MISSING SEVERAL 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.			
<b>Air Transport (ATA) code:</b> 7414	MAGNETO/DISTRIBUTOR	<b>Name of part:</b> BEARING	
<b>Date:</b> 16-NOV-98		<b>Part Number:</b> 1081806	
<b>Details:</b> PILOT REPORTED NORMAL MAG CHECK PRIOR TO 10-MINUTE FLIGHT. AFTER LANDING NOTICED OIL DRIPPING FROM COWL. FOUND LT MAGNETO WITH LOWER MOUNTING EAR BROKEN OFF AND MAG PULLED AWAY FROM ACCESSORY CASE. THE MAGNETO CASE WAS GAPPED OPEN AND ONLY 2 SCREWS REMAINED HOLDING IT TOGETHER. REMOVED MOUNTING NUTS AND FOUND A SMALL PIECE BROKEN FROM UPPER MOUNTING EAR. LW12706 ADAPTER BROKEN IN SEVERAL PIECES AND LOWER MOUNTING STUD BENT. MAG DISASSEMBLY FOUND DRIVE END BEARING DESTROYED, SHAFT BENT, AND DISTRIBUTOR GEAR BROKEN. ELECTROSYSTEMS BELIEVES BEARING FAILURE MAY HAVE BEEN INITIAL CAUSE OF FAILURE. COMPONENT P/N S4LN-2110-51360-37.			
<b>Air Transport (ATA) code:</b> 7414	MAGNETO/DISTRIBUTOR	<b>Name of part:</b> COIL	
<b>Date:</b> 05-APR-95		<b>Part Number:</b>	
<b>Details:</b> THE MAGNETO COIL CRACKED ITS OUTER CASING. THERE DID NOT SEEM TO BE ANY EVIDENCE OF ABUSE, BUT THE LEFT MAGNETO ON THE SAME ENGINE FAILED BY CRACKING ALSO, AND, IT ONLY HAD 180 HOURS TIME IN SERVICE, AN ADDITIONAL MALFUNCTION AND DEFECT REPORT WILL BE FILED FOR IT. SUBMITTER RECOMMENDS ACTUALLY REMOVING COILS FROM THE MAGNETOS DURING ANY 100-HOUR OR ANNUAL INSPECTION TO DETECT CRACKS ON THE BOTTOM OF THE COILS.			
<b>Air Transport (ATA) code:</b> 7414	MAGNETO/DISTRIBUTOR	<b>Name of part:</b> COIL	
<b>Date:</b> 05-APR-95		<b>Part Number:</b>	
<b>Details:</b> THE MAGNETO COIL CRACKED CAUSING MAG TO FAIL. THIS REPORT IS IN CONJUNCTION WITH AN ADDITIONAL REPORT ON THE SAME AIRPLANE AT THE SAME TIME A DUAL MAG FAILURE OCCURRED ON LANDING ROLL OUT. INSPECTIONS ON THE MAGNETOS DO NOT REQUIRE REMOVAL OF COIL TO SATISFY INSPECTION, BUT IT WOULD BE HIGHLY RECOMMENDABLE TO DO SO. SHOP HAS NOW FOUND 4 CRACKED SLICK COILS.			
<b>Air Transport (ATA) code:</b> 7421	SPARK PLUGS/IGNITERS	<b>Name of part:</b> SPARK PLUG	
<b>Date:</b> 08-OCT-97		<b>Part Number:</b> SR87	
<b>Details:</b> ENGINE RPM DROPPED TO APPROXIMATELY 2,000 RPM ON CLIMB-OUT. GROUND RUN-UP WAS NORMAL BEFORE AND AFTER FLIGHT AND DURING FIRST 200 FEET OF CLIMB OUT. INSPECTION OF INDUCTION, FUEL AND IGNITION SYSTEMS, REVEALED TWO AUBURN SR-87 AC PLUGS WITH BROKEN INSULATORS ON THE COMBUSTION END. EACH INSULATOR WAS IN TWO PIECES BROKEN LENGTHWISE WITH CENTER ELECTRODE. CAUSE OF BROKEN INSULATORS UNDETERMINED.			
<b>Air Transport (ATA) code:</b> 7603	POWER LEVER	<b>Name of part:</b> CONTROL CABLE	
<b>Date:</b> 13-JUL-95		<b>Part Number:</b> S122219	
<b>Details:</b> DURING A SCHEDULED INSPECTION, FOUND THROTTLE CABLE BENT AND CRACKED AT THE BEND LOCATED AT THE THREADED END WHERE THE ROD END ATTACHES TO THE CABLE. IT APPEARED WHEN THE THROTTLE HIT ITS STOP, THE THROTTLE CABLE CONTINUED TO BE PUSHED. THE CABLE HAD TO BE REPLACED WHICH IS VERY COSTLY.			



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### Model Specific Detail

<b>Aircraft manufacturer's name:</b> CESSNA		<b>Aircraft manufacturer's model number:</b> 177	
<b>Air Transport (ATA) code:</b> 8530	ENGINE CYLINDER SECTION	<b>Name of part:</b> ROCKER SHAFT	
<b>Date:</b> 17-JUL-95		<b>Part Number:</b> 60401	
<b>Details:</b> DURING THE CHANGING OF THE PUSHROD HOUSING TUBE SEALS WHICH INVOLVES REMOVING THE ROCKER BOXES, FOUND THE VALVE ROCKER SHAFT ON THE EXHAUST SIDE OF CYLINDER NR 3 CRACKED ABOUT ONE-HALF THE WAY AROUND AND .25 INCH FROM THE END.			