



A LEAR SIEGLER COMPANY

Piper Aircraft Corporation

Vero Beach, Florida, U.S.A.

SERVICE BULLETIN ^{No. 836A}

* PIPER CONSIDERS *
* COMPLIANCE MANDATORY *

FAA Approved

Date August 26, 1986

S/M

(Service Bulletin No. 836A supersedes and voids Service Bulletin No. 836, dated May 21, 1986)

SUBJECT:

Aluminum Wire Inspection/Replacement

REASON FOR REVISION:

To correct Serial Numbers Affected and Revise Instructions.

MODELS AFFECTED:

SERIAL NUMBERS AFFECTED:

E-2/J-2 Series Cub
 J-3, NE-1, L-4 Series Cub
 J-4 Series Coupe
 J-5, J-5C, L-14, AE-1, HE-1 Series
 Cub Cruiser
 PA-11 Cub Special
 PA-12 Super Cruiser
 PA-14 Family Cruiser
 PA-15 Vagabond
 PA-16 Clipper
 PA-17 Vagabond
 PA-18 Super Cub
 PA-19 Pacer
 PA-20 Pacer
 PA-22 Tripacer/Colt
 PA-23-150/160 Apache
 PA-23-235 Aztec
 PA-23-250 Aztec
 PA-24-180/250 Comanche
 PA-24-260 Comanche
 PA-24-400 Comanche
 PA-25-150 Pawnee
 PA-25-235 Pawnee
 PA-25-260 Pawnee
 PA-28-140 Cherokee
 PA-28-150/160 Cherokee
 PA-28-151 Warrior
 PA-28-161 Warrior II
 PA-28-180 Cherokee
 PA-28R-180 Arrow
 PA-28-181 Archer II

All
 All
 All
 5-01 through 5-1389
 11-01 through 11-1678
 12-01 through 12-4036
 14-01 through 14-523
 15-01 through 15-388
 16-01 through 16-736
 17-01 through 17-215
 18-01 through 18-8309025
 19-01 through 19-03
 20-01 through 20-1121
 22-01 through 22-9848
 23-01 through 23-2046
 27-505 through 27-622
 27-01 through 27-7954121
 24-01 through 24-3687
 24-3642 through 24-6000
 26-01 through 26-148
 25-01 through 25-731
 25-2000 through 25-8056038
 25-4415 through 25-8156024
 28-20001 through 28-7725290
 28-01 through 28-4377
 28-7415001 through 28-7715314
 28-7716001 through 28-8216226
 28-671 through 28-7505259 and 28-E13
 28R-30001 through 28R-7130013
 28-7690001 through 28-8290061

(over)
ATA: 2400

MODELS AFFECTED: (Cont'd)

PA-28R-200 Arrow/Arrow II
 PA-28R-201 Arrow III
 PA-28-201T Turbo Dakota
 PA-28R-201T Turbo Arrow III
 PA-28RT-201 Arrow IV
 PA-28RT-201T Turbo Arrow IV
 PA-28-235 Cherokee
 PA-28-236 Dakota
 PA-30 Comanche
 PA-31-300 Navajo
 PA-31-310 Navajo
 PA-31-325 Navajo
 PA-31-350 Navajo Chieftain
 PA-31P Pressurized Navajo
 PA-31T Cheyenne/Cheyenne II
 PA-31T1 Cheyenne I
 PA-32-301T Turbo Saratoga
 PA-34-200 Seneca I
 PA-34-200T Seneca II
 PA-34-220T Seneca III
 PA-36-285 Brave
 PA-36-300 Brave
 PA-36-375 Brave
 PA-38-112 Tomahawk
 PA-39 Twin Comanche
 PA-44-180 Seminole
 PA-44-180T Turbo Seminole

SERIAL NUMBERS AFFECTED: (Cont'd)

28R-35001 through 28R-7635545
 28R-7737001 through 28R-7837317
 28-7921001 through 28-7921091
 28R-7703001 through 28R-7803372
 28R-7918001 through 28R-8118082
 28R-7931001 through 28R-8131192
 28-10001 through 28-7710089 and 28-E11
 28-7911001 through 28-8211013
 30-02 through 30-2000
 31-228 through 31-511
 31-05 through 31-8012070
 31-7400990 through 31-8012070
 31-5001 through 31-8052153
 31P-03 through 31P-7730012
 31-7400001 through 31-7920094
 31-7804002 through 31-7904057
 32-8024001 only
 34-7250001 through 34-7450220
 34-7570001 through 34-8170092
 34-8133001 through 34-8233205
 36-7360001 through 36-7660135
 36-7760001 through 36-7960078
 36-7802001 through 36-7902051
 38-78A0001 through 38-82A0122
 39-01 through 39-155
 44-7995001 through 44-8195026
 44-8107001 through 44-8207020

COMPLIANCE TIME: At the next regularly scheduled inspection event, but not to exceed fifty (50) hours of operation.

PURPOSE: Field reports have been received of corrosion between the aluminum terminal and aluminum wire at the battery positive post, resulting in overheating of the wire due to high electrical resistance. If this condition exists and is left uncorrected, excessive heat build-up could result in an electrical fire. Corrosion and resulting high resistance can also occur in the battery to ground, battery to master relay, master relay to starter solenoid, starter solenoid to starter and engine return ground cables.

INSTRUCTIONS:

1. On each affected aircraft, locate and identify the following cables:
 - A. Battery to ground
 - B. Battery to master relay
 - C. Master relay to starter solenoid
 - D. Starter solenoid to starter
 - E. Engine return ground cable (engine to airframe)