

Ultra Electronics

# SERVICE INFORMATION LETTER

## SERVICE INFORMATION LETTER LG 03/03

(Issue 1, June '03)

### LANDING GEAR CONTROL AND INTERFACE UNITS 6647 SERIES

(Used on A318, A319, A320 and A321 Aircraft)

#### NOTICE OF POSSIBLE RELIABILITY ISSUE

1. Description

This Service Information Letter is applicable to all versions of the LGCIU **Pt. No. 664700500A4X**. It contains a list of Output PCBs (P/N 001-LG-01-0350) and their corresponding LGCIUs that may have been affected by a manufacturing issue at our board supplier's facility, and are thus at risk of open circuit failures.

Ultra Electronics Controls Division has experienced a small number of open circuit failures on returned Output PCBs. Further investigation has revealed the problem relates to particular batches of PCBs.

Ultra has taken the pro-active action to provide operators with a list of serial numbers of the other Output PCBs manufactured in the same batches.

Most returns to date have been single open-circuit track failures, though it is possible that multiple open-circuits could occur. The risk of a combination of open-circuit failure modes on the output board leading to inadvertent or out-of-sequence operations is considered to be acceptably low (less than  $0.5 \times 10^{-8}$  per hour of flight).

Due to the low risk associated with the occurrence of open circuits on the Output PCB, this issue will be dealt with on an attrition basis.

## 2. Implementation

Attached is a list of serial numbers of Output PCBs that may be affected, and the serial number of the LGCIU they were installed into. (In order, by LGCIU S/N)

The following only applies to LGCIUs that have (or are thought to have) any of the listed Output PCBs fitted to them.

If an LGCIU were to fail and record a fault code in the NVM related to the Output PCB (any fault code beginning with a 'B', e.g. B057) the LGCIU or Output PCB should be returned to Ultra for investigation.

If the failure is found to be due to open circuit tracks on the Output Board, the S/N of the board is on the attached list and if the PCB is within its warranty period, it will be exchanged free of charge.

In the occasion that the LGCIU is out of warranty, free replacement of Output PCBs **in the event of an open circuit track** will be available for an extended period – 5 years from the date of entry into service, or until 30 October, 2006 (whichever is sooner). However, standard repair charges will still apply.

All queries relating to the information contained in this Service Information Letter should be addressed to: -

**Customer Support**  
**Ultra Electronics**  
Controls Division  
417 Bridport Road, Greenford,  
Middlesex, UB6 8UE, England  
Telephone +44 (0)208 813 4444 Fax +44 (0)208 813 4351

LGCIU S/N	O/P PCB S/N
843	3680
2232	3554
3187	3267
3195	3262
3198	3276
3201	3261
3202	3272
3205	3275
3206	3300
3207	3301
3208	3302
3209	3304
3211	3284
3213	3278
3214	3290
3215	3303
3217	3288
3219	3285
3221	3294
3222	3292
3223	3287
3224	3293
3225	3291
3226	3325
3227	3305
3228	3306
3229	3307
3230	3308
3231	3297
3232	3298
3233	3295
3234	3299
3235	3296
3236	3323
3237	3309
3238	3324
3239	3314
3240	3330
3241	3326

LGCIU S/N	O/P PCB S/N
3243	3331
3244	3327
3245	3328
3246	3332
3247	3329
3248	3322
3249	3315
3250	3316
3251	3321
3252	3320
3254	3318
3255	3319
3256	3311
3257	3312
3258	3340
3259	3338
3261	3310
3262	3351
3263	3339
3264	3334
3266	3337
3267	3333
3268	3336
3269	3335
3270	3353
3271	3354
3272	3344
3273	3343
3274	3345
3275	3346
3276	3349
3277	3347
3278	3352
3279	3313
3280	3350
3281	3348
3291	3342
3323	3410
3324	3411

LGCIU S/N	O/P PCB S/N
3325	3412
3326	3413
3334	3420
3335	3416
3336	3424
3337	3415
3338	3421
3339	3418
3340	3422
3341	3417
3342	3423
3343	3414
3344	3419
3345	3430
3346	3431
3347	3429
3348	3427
3349	3426
3350	3435
3351	3425
3352	3434
3353	3432
3355	3448
3356	3436
3357	3444
3358	3446
3359	3445
3360	3447
3361	3442
3362	3428
3363	3441
3364	3437
3365	3438
3366	3440
3367	3439
3368	3443
3369	3457
3370	3456
3371	3460

LGCIU S/N	O/P PCB S/N
3372	3688
3373	3461
3374	3450
3375	3463
3376	3464
3377	3466
3378	3465
3380	3470
3381	3469
3382	3471
3383	3481
3384	3480
3385	3479
3386	3478
3387	3474
3388	3477
3389	3472
3390	3476
3391	3475
3392	3467
3393	3467
3394	3490
3395	3491
3396	3494
3397	3495
3398	3496
3399	3492
3400	3493
3401	3483
3402	3486
3403	3484
3404	3488
3405	3487
3406	3482
3407	3489
3408	3501
3409	3502
3410	3503
3411	3500

LGCIU S/N	O/P PCB S/N
3412	3499
3413	3504
3414	3506
3415	3507
3416	3498
3417	3508
3418	3509
3419	3497
3420	3552
3421	3551
3422	3550
3423	3535
3424	3532
3425	3531
3426	3530
3427	3529
3428	3485
3429	3513
3430	3553
3431	3557
3432	3559
3433	3555
3434	3556
3436	3528
3437	3510
3438	3549
3439	3558
3440	3526
3441	3511
3442	3533
3444	3512
3445	3415
3446	3534
3447	3537
3448	3538
3449	3536
3450	3517
3452	3519

LGCIU S/N	O/P PCB S/N
3453	3545
3454	3548
3455	3546
3456	3547
3457	3520
3458	3541
3459	3542
3460	3543
3461	3544
3462	3540
3463	3595
3464	3527
3465	3525
3466	3591
3467	3514
3468	3516
3469	3521
3470	3522
3471	3524
3472	3600
3473	3599
3474	3607
3475	3604
3475	3664
3476	3606
3478	3591
3480	3568
3481	3586
3482	3588
3483	3564
3484	3603
3485	3597
3486	3602
3488	3590
3489	3609
3490	3598
3491	3562
3492	3579

LGCIU S/N	O/P PCB S/N
3493	3580
3494	3578
3495	3589
3496	3587
3497	3608
3498	3594
3499	3605
3500	3593
3501	3566
3502	3570
3503	3569
3504	3560
3505	3565
3506	3563
3507	3567
3508	3582
3509	3573
3510	3583
3511	3581
3512	3571
3513	3575
3514	3585
3515	3561
3516	3505
3518	3572
3520	3577
3521	3473
3570	3663
3571	3660
3575	3672
3576	3671
3577	3674
3578	3673
3579	3669
3580	3668
3581	3667
3582	3666
3584	3670

LGCIU S/N	O/P PCB S/N
3585	3676
3586	3675
3587	3677
3588	3679
3589	3678
3590	3693
3591	3699
3592	3696
3593	3697
3595	3683
3596	3682
3597	3681
3598	3684
3599	3687
3600	3704
3601	3709
3602	3692
3603	3689
3604	3690
3605	3701
3606	3700
3607	3698
3608	3702
3609	3694
3610	3695
3611	3708
3612	3685
3613	3703
3614	3706
3615	3705
3616	3691
3617	3686
3618	3707