



SPECIAL INFORMATION LEAFLET No. 864A
(Superseding Special Information Leaflet No. 864)
SAFETY

ONE TIME ONLY ACTION

A. SHOULDER HARNESS HARLEY BUCKLES FOUND DETACHED FROM MAIN HARNESS

EFFECTIVITY:

B1. This SIL applies to all variants of the following Ejection Seats only.

SF14A	CH16C	AR10LM	BR10LY	RM4	IT10LA
TH10LN	SG16D	BR10LF	IT10LY	H4HA	YU10LB
Z10LH	SF10B	AU10LH	BR10LCX	PKOM6	10L(ME)
BRN10LH	SJU9A	GB10LN	BR10LAS	PRM6	IT10LK
IN10LH	SJU10A	CA10LH	F10M	F1RM6	X10LQ
BA10LH	BD10LZ	CA10LN	F10QA	SA10A	JD10LU
GB10LH	S10LS	F10LN	SA11A	E10CA	RU10LB
SA10LH	EP10LW	AU8LD	KA8LC	IT10F	PL16D
F16F	PK10LW	B10L	KT8LC	YU10J	CZ16H
16A	Z10LS	10B	CH10LH	B10N	US16E
KR16LF	PK10LZ	ZE10B	PL11B	F10Q	Z11A
IT16D	BD10LW	DU10B	IN11A	IL10P	DE17A
IL16D	G10A	AD10B	F8LC	Q10N	IT16Y
IN16G	IT10A	KT10B	IN9B	EP10N	
IN16S	X12J	SA10B	WY6A	CL10CA	
IN16U	CN10LW	CH11A	O6A	BR8LC	

The contents of this document include intellectual property of Martin-Baker Aircraft Company Limited or its affiliates (Martin-Baker). Copying or use of any part without the express written authorisation of Martin-Baker is strictly prohibited.

If disclosure of this document is requested under a Freedom of Information Act, the public authority must consult with Martin-Baker Aircraft Company Ltd as this document may contain information that is commercially or financially sensitive, or a trade secret and is therefore exempt from disclosure.

A Corporate Partner of



Registered No. 868042 (England)
Registered Office: Higher Denham, near Uxbridge, Middlesex UB9 5AJ

SPECIAL INFORMATION LEAFLET No. 864A

(Superseding Special Information Leaflet No. 864)

B2. This SIL applies to all variants of the following Crashworthy Seats only.

MBCS1065	MBCS3
MBCS8140	MBCS8140-1
MBCS8141	

- C1.** Martin-Baker have received reports from a Customer of an incident of an adjustable shoulder strap being found detached from the main harness assembly. It was found that one of the screws retaining the Harley type buckle assembly release bar was missing. Subsequently it was found that the other release bar retaining screw was loose and could be unscrewed by hand. See Figure 1 for a typical Harley type buckle for reference and Figures included in Annexe A below for details.
- C2.** Martin-Baker are not the Original Equipment Manufacturer (OEM) for the Harley type buckle assembly. Martin-Baker have instigated investigations into the reported occurrence following Customer reporting of the incident with the OEM for the subject Harley type buckle assembly.
- C3.** Investigations conducted by the OEM has determined that release bar retaining screws incorrectly peened during manufacture could have the capacity to come loose resulting in failure of the buckle assembly.
- C4.** The OEM have, as part of their investigations, determined that inadvertent failure of the Harley type buckle as reported represents a **Risk to Life** as well as a Foreign Object Damage (FOD) hazard.
- C5.** Separately, Martin-Baker have conducted a System Safety Risk Assessment (SSRA) in response to the reported incident. The outcome of Martin-Baker's SSRA indicates the reported occurrence to represent a serious risk.
- C6.** The purpose of this Special Information Leaflet is to notify Customers of this issue and advise inspections/remedial actions, in-line with OEM recommendations.

D1. Timing for the Embodiment of This Instruction

D1.1 Where the requirements of Special Information Leaflet (SIL) No. 864/IrvinGQ Service Bulletin IGQSB033 Issue 1 have **not** been fulfilled, in accordance with Annexe A below, it is recommended that this instruction is to be completed **BEFORE NEXT USE** for all identified Harley type buckle assemblies and harness assemblies installed in aircraft and held in store.

D1.1.1 Where the work required of Special Information Leaflet (SIL) No. 864/IrvinGQ Service Bulletin IGQSB033 Issue 1 has been fulfilled for all identified Harley type buckle assemblies and harness assemblies installed in aircraft and held in store; further back-off torque checks of the qty. 2 release bar retaining screws are **not** required.

Use, duplication or disclosure of data contained on this sheet is subject to the restrictions on the title page of this document.

SPECIAL INFORMATION LEAFLET No. 864A
(Superseding Special Information Leaflet No. 864)

D1.2 For **all** identified Harley type buckle assemblies and harness assemblies installed in aircraft and held in store where required work has found movement of either of the qty. 2 release bar retaining screws; rectification actions per Annexe A/paragraph D2.5 below shall be completed **BEFORE NEXT USE**.

D2. Work Required:

WARNING:

BEFORE YOU CARRY OUT MAINTENANCE ON AN ARMED EJECTION SEAT/AIRCRAFT ASSISTED ESCAPE SYSTEM, ENSURE THAT ALL SAFETY DEVICES ARE SET TO THE SAFE FOR MAINTENANCE POSITION IN ACCORDANCE WITH ALL RELEVANT TECHNICAL PUBLICATIONS OR DATA MODULES. INADVERTENT OPERATION CAN KILL OR CAUSE AN INJURY.

WARNING:

FOLLOW ALL APPLICABLE WARNINGS AND CAUTIONS IN THE RELEVANT MARTIN-BAKER TECHNICAL MANUAL WHEN UNDERTAKING WORK DEFINED IN THIS SPECIAL INFORMATION LEAFLET.

D2.1 With reference to seat types identified at B1 and B2 above; locate all Harley type buckle assemblies and harness assemblies identified in Tables 1 and 2 below both installed in aircraft and in store.

D2.2 With reference to Annexe A below; complete work required in accordance with timeframe per paragraph D1.1 to D1.2 inclusive above.

D2.3 Where **no movement** of the qty. 2 release bar retaining screws is found: in accordance with OEM instruction in Annexe A below, **no further action is necessary**. Subject Harley type buckle assemblies and harness assemblies can remain in service/in store as applicable.

D2.4 Where **movement is found** of either of the qty. 2 release bar retaining screw: the subject Harley type buckle assembly and/or harness assembly is to be **removed from service/store and quarantined**.

D2.4.1 It is requested details of harness assemblies including serial number and clear photographs of failed buckle assemblies are forwarded to Martin-Baker at the email address below.

D2.5 Harness assemblies incorporating Harley type buckle assemblies found to exhibit movement of either of the qty. 2 release bar retaining screws as per Annexe A below/paragraph D2.4 above may be recovered to operational use in accordance with procedures at Annexe A below.

NOTE: OEM rectification procedures in Annexe A below have not been subject to validation by Martin-Baker. Operators are advised to satisfy themselves that adequate access to the inboard face of the buckle assemblies on the harness assembly can be achieved in order to accomplish rectification procedures at Annexe A.

Use, duplication or disclosure of data contained on this sheet is subject to the restrictions on the title page of this document.

SPECIAL INFORMATION LEAFLET No. 864A **(Superseding Special Information Leaflet No. 864)**

D2.5.1 Harness assemblies subject to repair of Harley type buckle assemblies in accordance with Annexe A below shall be removed from the ejection seat in accordance with the applicable Martin-Baker technical manual and transferred to a suitable maintenance facility. Disassembly shall be only to the extent necessary to complete rectification actions.

D2.5.2 Where repair of harness assemblies is accomplished by replacement of lower level harness sub-assemblies in accordance with procedures in the applicable Martin-Baker technical manual: **Only replacement items/harness sub-assemblies held in store having met the success criteria at paragraph D2.3 above following completion of work required or rectification actions at Annexe A shall be used to accomplish repair.** Disassembly shall be only to the extent necessary to replace the highest sparing level assembly incorporating the Harley type buckle assembly.

D2.5.3 Where discrepant Harley type buckle assemblies are found on harness assemblies and operators are unable to recover in accordance with rectification actions at Annexe A below or paragraph D2.5 above; it is requested that Martin-Baker are contacted, at email address below, in the first instance for remedial actions.

D2.6 Complete all other actions necessary to return the subject ejection/crashworthy seat to operational use.

D2.7 Record completion of this Special Information Leaflet in all applicable engineering documentation.



Figure 1 – Typical Harley Type Buckle Assembly

Use, duplication or disclosure of data contained on this sheet is subject to the restrictions on the title page of this document.

SPECIAL INFORMATION LEAFLET No. 864A

(Superseding Special Information Leaflet No. 864)

Martin-Baker Part Number	Description	NSN
P34524	BUCKLE HARLEY AL2872 SHT 1	5340-99-244-0612
P31020	BUCKLE HARLEY 33175 SHT 1	1680-99-715-5644
P40197	BUCKLE ASE 03639	N/A

Table 1 – Details of Buckle Assemblies Subject to Special Information Leaflet (SIL) No. 864A

MBCS1239	MBEU114444-1	MBEU11874PA	MBEU123060	MBEU187970-3	MBEU75183
MBCS6	MBEU114502	MBEU118786	MBEU123160	MBEU188167	MBEU8335PA
MBCS8089	MBEU11462PA	MBEU118819	MBEU123260	MBEU190568	MBEU93394
MBCS8294	MBEU11526PA	MBEU11890PA	MBEU12583PA	MBEU203291	MBEU93598
MBEU95455	MBEU115715	MBEU119144-1	MBEU12662PA	MBEU215217	MBEU95530
MBEU100930	MBEU11604PA-1	MBEU11976PA	MBEU12787PA	MBEU215241-1	MBEU96950
MBEU10849PA	MBEU116913	MBEU121011	MBEU153017-1	MBEU250700-20	MBEU98196
MBEU114313	MBEU117864	MBEU12188PA	MBEU170607-1	MBEU3062PA	MBEU98304
MBEU11436PA	MBEU118242	MBEU122450	MBEU186189	MBEU3233PA	MBEU98307
MBEU98869	MBEU99274	MBEU99797	MBEU250700-5	MBEU250700-7	

Table 2 – Harness Assembly Part Numbers Subject to Special Information Leaflet (SIL) No. 864A

PSD/864A
9th December 2020

Customer enquiries are to be sent to SILenquiries@martin-baker.co.uk

Use, duplication or disclosure of data contained on this sheet is subject to the restrictions on the title page of this document.

SPECIAL INFORMATION LEAFLET No. 864A
(Superseding Special Information Leaflet No. 864)

ANNEXE A

IRVINGQ SERVICE BULLETIN – IGQSB033 ISSUE 2

Use, duplication or disclosure of data contained on this sheet is subject to the restrictions on the title page of this document.

SAFETY ALERT

SERVICE BULLETIN – IGQSB033 Issue 2

Self-Locking Buckles, Harley Type

1. Introduction

This Service Bulletin has been up-issued by IrvinGQ to include:

- (1) Amendments to list of individual Self-Locking Buckles, Harley Type affected by this Service Bulletin.
- (2) Addition of Buckle Assembly (33175/SHT1) to the List of IrvinGQ Manufactured Assemblies Affected by this Service Bulletin.
- (3) Addition of in-service rectification actions (including amendment to torque settings for the release bar retention screws).
- (4) Major amendment to the List of IrvinGQ Manufactured Assemblies Affected by this Service Bulletin¹.
- (5) Removal of Tether, Crewman Restraint (ASE05416) and Para Assembly AT/S (MF172-700210) from the List of IrvinGQ Manufactured Assemblies Affected by this Service Bulletin.

2. Planning Information.

A. Effectivity

The individual Self Locking Buckles, Harley Type detailed below and any IrvinGQ Limited manufactured assemblies to which they are fitted to are affected by this Service Bulletin.

Part Number	Item	NSN
21175/SHT1	Buckle Assembly	5340-99-417-7267
24200/SHT2	2" Harley Nylon Grip	Not available
33175/SHT1	Buckle Assembly	1680-99-715-5644
47175/SHT1	Harley Buckle	Not available
AL2740/SHT1	Buckle Assembly	Not available
AL2872/SHT1	Buckle Assembly (1¾ in Harley Buckle Assembly)	5340-99-244-0612
AML16790	Harley Buckle Removable Webbing	Not available
ASE02660	Buckle	5340-99-410-5226
ASE03639	Buckle Assembly	Not available
ASE05369	Buckle Assembly	Not available
GQD40648	Harley Buckle Removable Webbing	Not available
H4050/SHT1	1 in Harley Buckle	Not available
H4080/SHT1	Buckle Assembly	Not available
H4144/SHT1	Buckle Assembly	Not available

¹ Including both Sub-Assemblies and Top Level Assemblies.

B. Reason

- (1) IrvinGQ Limited has been notified of an incident whereby the adjustable shoulder strap of the harness MBEU170607-1² was found to be unattached to the main harness. Subsequent investigation concluded that one of the two release bar retaining screws located on AL2872/SHT1, Buckle Assembly (1 $\frac{3}{4}$ in Harley Buckle Assembly)³ was missing and the other one loose that could be unscrewed by hand (Figures 1 and 2).



Figure 1 – Customer notification (missing and loose screws)



Figure 2 – Customer notification (shoulder straps and axis unattached)

² Martin Baker Aircraft Limited assembly.

³ Manufactured by IrvinGQ Limited.

- (2) IrvinGQ Limited confirms that all release bar retaining screws used on the Self-Locking Buckles, Harley Type listed above are staked/peened as part of IrvinGQ's manufacturing process.
- (3) If the release bar retaining screws are not correctly staked/peened, they have the capacity to come loose and result in a failure of the product and/or assembly to which they are fitted.
- (4) This inadvertent failure presents a Risk to Life (RtL) to operators of any equipment/assembly to which these buckles are fitted, as well as a Foreign Object Damage (FOD) hazard within the specific operating environment in which they are used.
- (5) This Service Bulletin requires all users of the equipment detailed at Para 2A and Pages 9 – 15 (incl) to inspect all listed Self-locking Buckles, Harley Type (both fitted to IrvinGQ Limited manufactured products and those not) prior to next use to confirm that the release bar retaining screws are secured in place in accordance with the instructions contained within this Service Bulletin.

C. Description

- (1) IrvinGQ Limited confirm that all Self-Locking Buckles, Harley Type and IrvinGQ manufactured sub-assemblies and top level assemblies listed at Para 2A and Pages 9 -15 (incl) with a Date of Manufacture (DoM) before 12/20 may be affected by this reported fault and should be checked in accordance with this Service Bulletin.
- (2) This Service Bulletin gives information on the necessary action(s) to be taken before next use of the buckles/assemblies listed at Para 2A and Pages 9 – 15 (incl) respectively.

D. Approval

This Service Bulletin has been reviewed by IrvinGQ Limited and the actions herein comply with the applicable Aviation Regulations and are **APPROVED** for the listed assemblies.

Author: L Dadgostar (Project Safety Engineer)

Reviewed by: P Jones (Quality and Compliance Manager)

The technical accuracy of this Service Bulletin has been verified and is certified as correct.

Certified by: A Jones (Design Assurance Signatory)

This document is electronically approved in accordance with the requirements of the IrvinGQ Limited accredited Business Management System and is valid without signatures; evidence is retained within the document record.

E. Manpower

The action detailed within this Service Bulletin at Page 5, Para C(1) (initial inspection/torque check) will take approximately 0.10 man-hours per buckle to complete.

The action detailed within this Service Bulletin at Page 5, Para C(2) (rectification actions) will take approximately 0.10 man-hours per buckle to complete.

F. Material

Not applicable.

G. Tooling

Table 1 details the tools required to complete the actions detailed within this Service Bulletin.

TABLE 1 - LIST OF SPECIAL TOOLS AND MATERIALS

Nomenclature	Part No	Qty	Remarks
Flat blade torque setting screwdriver	Local supply	1	Range 0 – 20lbf in
Staking/Peening Tool (Fig 3)	Local manufacture	1	Silver steel/D2 tool steel (or equivalent) Tip hardened to 56 – 60 Hardness Rockwell C Scale
Light hammer	Local supply	1	
Small flat blade screwdriver	Local supply	1	

H. Weight

Not applicable.

I. Electrical Load Data

Not applicable.

J. Software Accomplishment Summary

Not applicable.

K. References

DAP108D-0150-12 (Self-Locking Buckle Harley Type).

L. Other Publications Affected

Publications affected by this Service Bulletin are detailed on Page 7.

M. Family Tree Charts of Modification Relationships

Not applicable.

N. Interchangeability or Intermixability of Parts

Not applicable.

3. Accomplishment Instructions:

For all subject equipment, carry out the actions detailed below;

BEFORE NEXT USE OF LISTED SELF-LOCKING BUCKLES, HARLEY TYPE AND ASSOCIATED IRVINGQ MANUFACTURED ASSEMBLIES

A. Actions:

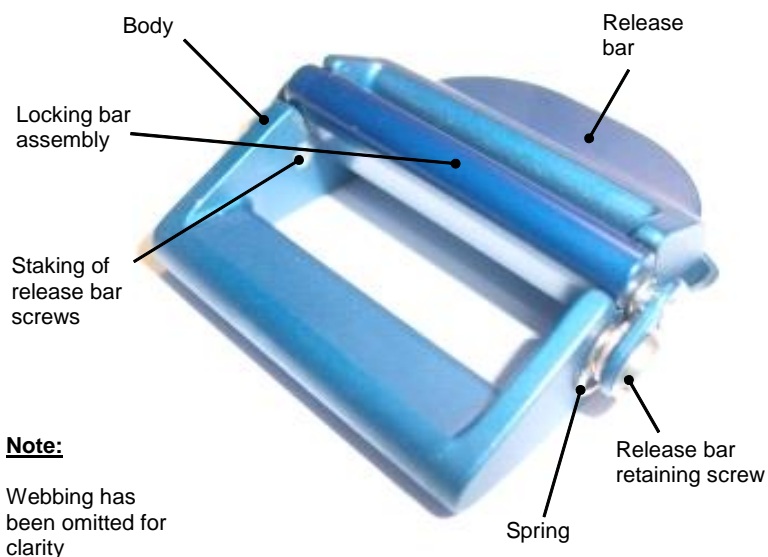
User/Maintainer to inspect each buckle and ensure that both of the release bar retaining screws are secured in place and **cannot** move. Following inspection, if the release bar retaining screws are found to move, the User/Maintainer is to complete the rectification procedures detailed below.

B. Comment:

- (1) The purpose of this procedure is to prevent the possibility of the release bar retaining screws inadvertently vibrating loose which could result in a RtL.
- (2) The above actions ensure that the release bar retaining screws on the listed buckles/IrvinGQ Limited manufactured assemblies detailed at Para 2A and Pages 9 – 15 (incl) are correctly secured in place.

C. Procedures:

- (1) Procedures to inspect the listed buckled/associated IrvinGQ Limited manufactured assemblies before next use:
 - (a) Identify the two release bar retaining screws, one each side of the buckle (Fig 1).



Note:

Webbing has been omitted for clarity

Fig 1 - Self Locking Buckle, Harley Type

- (b) Using a flat blade torque-setting screwdriver set to **9lbf.in (1.02Nm)**, attempt to remove each release bar retaining screw in turn by rotating in an anti-clockwise direction. If no movement occurs, no further action is required.

NOTE: The original torque setting of 12lbf.in (1.36Nm) detailed within IGQSB033 Issue 1 has been reviewed by IrvinGQ and reduced to **9lbf.in (1.02Nm)**.

IrvinGQ confirm that previous inspections/checks completed to 12lbf.in (1.36Nm) remain valid and **DO NOT** require to be repeated.

- (2) If following completion of the above procedure, movement of either of the release bar retaining screws occurs, **stop immediately**. The following rectification action is then to be completed:
- (c) Using a flat blade torque-setting screwdriver, set to **6lbf.in (0.68Nm)**, tighten each of the loose release bar screw(s), ensuring that the spring is retained in its correct position (Fig 2).

Note: The use of a small flat blade screwdriver may be required to assist with holding the spring correctly in place on the locking bar pivot pin (Fig 3).

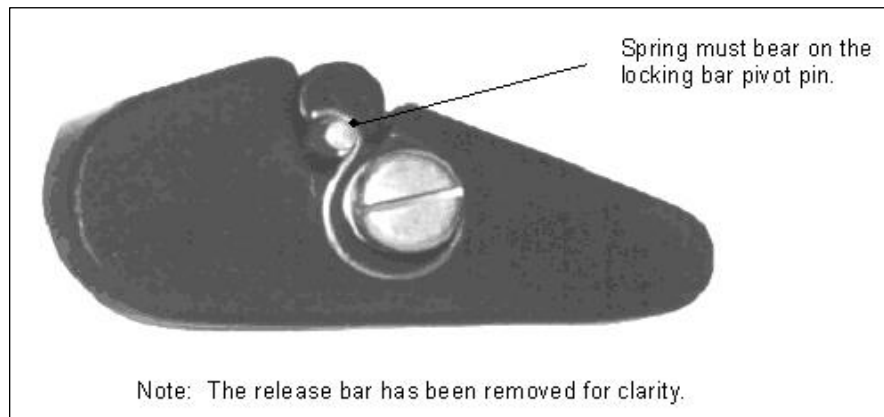


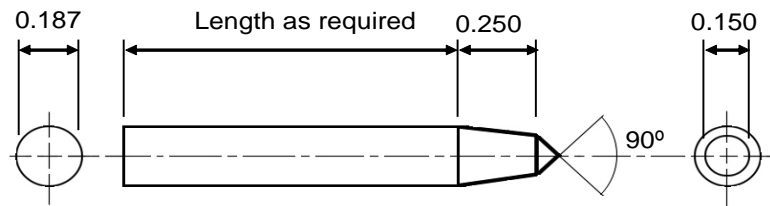
Fig 2 – Spring in correct position



Fig 3 – Use of small flat blade screwdriver to hold spring in place

- (d) Place the head of the screw on a smooth steel plate. Expose the end of the screw thread on the inside face of the buckle body by loosening any webbing and moving the locking bar clear of the screw thread.
- (e) Using a locally manufactured staking/peening tool (See Table 1/Fig 4) and a light hammer, lock the screw and the buckle body together by staking/peening at two points, diametrically opposite each other and at 90° to any original staking/peening marks.

NOTE: A series of light blows/taps of the light hammer is recommended (opposed to a single heavy blow).



Dimensions in inches

Fig 4 – Staking/Peening Tool

(Refer to remarks within Table 1 – List of Special Tools and Materials)

- (f) Using a flat blade torque-setting screwdriver, set to **9lbf. In (1.02Nm)**, attempt to remove each release bar retaining screw in turn by rotating in an anti-clockwise direction. If no movement occurs, no further action is required.

NOTE: The original torque setting of 12lbf.in (1.36Nm) detailed within IGQSB033 Issue 1 has been reviewed by IrvinGQ and reduced to **9lbf.in (1.02Nm)**.

IrvinGQ confirm that previous inspections/checks completed to 12lbf.in (1.36Nm) remain valid and **DO NOT** require to be repeated.

- (g) If movement occurs, a second attempt to stake/peen the release bar retention screws may be made.
- (h) If following the second attempt, movement still occurs, reject the buckle.
- (i) Check the buckle for correct operation.

D. Check:

If following completion of the above procedures, movement still occurs, the buckle and/or associated IrvinGQ Limited assembly to which it is fitted is to be deemed unserviceable and removed from use immediately.

E. Recording:

- (1) Record the procedure (IGQSB033 Issue 1 or 2) on the relevant equipment log card, or
- (2) On the equipment label using a fine, black permanent marker, (STAEDTLER, Lumocolor, Permanent, Size S or similar).
- (3) Local procedures are to be followed for buckles not fitted to assemblies.

F. Reporting:

If the Users/Maintainers do not have the ability to generate the necessary tooling or experience to complete the actions detailed within this Service Bulletin and/or having completed the actions, deem the subject buckles and/or associated IrvinGQ Limited manufactured assemblies unserviceable, then they are to report all incidents and requests to return any equipment to IrvinGQ Limited via the contact below (Ref IGQSB033):

Paul Jones
Quality and Compliance Manager
IrvinGQ Limited
Bettws Road
Llangeinor
Bridgend
CF32 8PL

PJones@irvingq.com

G. Follow Up Action:

- (1) All applicable publications are to be formally amended to comply with this Service Bulletin.
- (2) IrvinGQ will complete the necessary actions to formally amend any associated Commercial Manuals to comply with this Service Bulletin.
- (3) Having made contact with IrvinGQ Limited, any buckles and/or IrvinGQ Limited manufactured assemblies that require to be returned are to be sent to the address/contact below (Ref IGQSB033):

Customer Service Centre
IrvinGQ Limited
Bettws Road
Llangeinor
Bridgend
CF32 8PL

- (4) Queries or requests for information relating to this Service Bulletin may be made to:

Paul Jones
Quality and Compliance Manager
IrvinGQ Limited
Bettws Road
Llangeinor
Bridgend
CF32 8PL

PJones@irvingq.com

IRVINGQ MANUFACTURED ASSEMBLIES AFFECTED BY THIS SERVICE BULLETIN

MRI/ Part Number	Description	NSN	DAP	Commercial Manual
33175/SHT1	Buckle Assembly	1680-99-715-5644	DAP108D-0150-12	Not available
AL2872/SHT1	Buckle Assembly	5340-99-244-0612	DAP108D-0150-12	Not available
IGQ02366	Despatcher Parachute Assembly	1670-99-666-9108	AP108C-0169-12	M990
GQD41524	Shoulder Strap Fixed Lynx K7484 Part A	Not available	DAP108D-0113-12	M577
GQD42135	Tail Unit	1670-99-488-6131	DAP108D-0201-12	Not available
MRIASE2313	Despatcher Belt	1670-99-351-4247	DAP108D-0201-12	M630, M726
MRIASE2314	Armour Capable Life Preserver Tail Assembly - Puma	1680-99-752-4309	DAP108D-0201-12	Not available
MRIASE2377	Mk3 Stretcher Harness	6530-99-613-6376	DAP108D-0301-12	Not available
MRIASE2407	Despatcher Parachute (Taiwan)	Not available	Not available	M1043, M1044
MRIASE2410	Gazelle Helicopter Restraint High Back	1680-99-159-1934	DAP108D-0115-12	Not available
MRIASE2411	Gazelle Helicopter Restraint Armoured Seat	1680-99-668-2843	DAP108D-0115-12	Not available
MRIASE2412	Gazelle Helicopter Restraint Standard	1680-99-815-5144	DAP108D-0115-12	Not available
MRIASE2416	Restraint Harness Aircrew RH-F Mk3	1680-99-856-4528	DAP108D-0113-12	Not available
MRIASE2452	RH-F Mk1 cw Op unit D31494/4 Restraint Harness	1680-99-153-5487	DAP108D-0113-12	Not available
MRIASE2453	RH-F Mk2 cw Op unit D31494/4 Restraint Harness	1680-99-880-3769	DAP108D-0113-12	Not available
MRIASE2454	Restraint Harness A/C Type RH-F Mk 3 c/w	Not available	DAP108D-0113-13	Not available
MRIGQ0266	Lap Strap Type Z	1680-99-106-0523	DAP108D-0101-12	Not available
MRIGQ0308	Safety Harness Type ZI	1680-99-105-7554	DAP108D-0101-12	Not available
MRIGQ0310	Safety Harness Type ZK	1680-99-105-7556	DAP108D-0101-12	Not available
MRIGQ0315	Stretcher Harness Mk2	6530-99-129-6828	DAP108D-0301-12	M1066
MRIGQ0619/A	Restraint Harness Sea King Armoured Seat with QRF	1680-99-021-8969	DAP108D-0117-12	N/A
MRIGQ0729	Restraint Harness RH-A Rear	Not available	Not available	M577
MRIGQ0741	Sea King Restraint Harness / No QRF	1680-99-136-7953	DAP108D-0117-12	M577
MRIGQ0741/A	Restraint Harness Sea King	1680-99-136-7953	DAP108D-0117-12	N/A
MRIGQ0802	Harness Aircrew Type RH-C	Not available	Not available	M577
MRIGQ0811	RF-H Mk1 Restraint Harness	1680-99-138-0721	DAP108D-0113-12	M577

MRI/ Part Number	Description	NSN	DAP	Commercial Manual
MRIGQ0845/A	Gazelle Helicopter AK Mk 1 Harness High Back Seat	1680-99-137-7687	DAP108D-0115-12	M577
MRIGQ0845/B	Gazelle Helicopter AK Mk1 Harness Armoured Seat	1680-99-825-7066	DAP108D-0115-12	M577
MRIGQ0853	Restraint Harness RH-G Mk1	1680-99-645-8206	DAP108D-0116-12	M577
MRIGQ0853	Restraint Harness RH-G Mk1 Commercial	Not available	Not available	M577
MRIGQ1031	Safety Harness PC-7	Not available	Not available	M677, M596
MRIGQ1090	Despatcher Belt (RN)	1680-99-754-3581	DAP108D-0201-12	M630 , M726
MRIGQ1091	Despatcher Belt (RAF)	1680-99-754-3582	DAP108D-0201-12	M630 , M726
MRIGQ1094	Mechanic Safety Belt	4240-99-957-5043	Not available	M630, M726
MRIGQ1121	PC7 Harness	1680-99-257-9547	Not available	M677
MRIGQ1327	Belt Safety Despatcher (Commercial)	1680-99-750-2704	DAP108D-0201-12	M630, M726
MRIGQ1327	Despatcher Safety Belt	1680-99-750-2704	DAP108D-0201-12	M630, M726
MRIGQ1421	Lynx 4 Point Restraint Harness	1680-99-194-6916	DAP108D-0113-12	N/A
MRIGQ1619	Sea King Restraint Harness Armoured Seat	1680-99-021-8969	DAP108D-017-12	M577
MRIGQ1730	Shoulder Strap Fixed Lynx K7484 QRF	1680-99-772-7672	DAP108D-0113-12	M577
MRIGQ1799	SAAB Parachute Assembly SK60 Gen 4	Not available	Not available	M765, M898
MRIGQ1881	RH-F Mk2 Aircrew Restraint Harness	1680-99-801-4567	DAP108D-0113-12	M577
MRIGQ1882/A	RH-D Mk2 Restraint Harness (Commercial)	1680-99-902-7018	DAP108D-0117-12	M577
MRIIGQ0716	Restraint Harness RH-B Front	Not available	Not available	M577
MRIIGQ2036	Dispatcher Safety Belt, Commercial	1680-99-666-3108	Not available	M630, M726
MRIIGQ2036	Despatcher Safety Belt	1680-99-666-3108	DAP108D-0201-12	M630, M726
MRIIGQ0263	ZB Safety Harness	1680-99-105-7312	DAP108D-0101-12	N/A
MRIIGQ2084	RH-Y Mk1 Restraint Harness	1680-99-476-5891	DAP108D-0117-12	Not available
MRIIGQ2084/A	Restraint Harness Type RH-Y MK 1	1680-99-476-5891	DAP108D-0117-12	Not available
MRIIGQ2201	S Mk23	1670-99-666-7386	DAP108C-0168-12	Not available
MRIIGQ2102	Sea King Armoured Crew Restraint Harness	1680-99-759-9913	DAP108D-0117-12	M577
MRIIGQ2220	SH56/3 Despatcher Harness	1680-99-238-9255	Not available	M983
MRIIGQ2230	Despatcher Parachute	Not available	AP108C-0169-12	M990
MRIIGQ2118	Towing Strop	1670-99-179-5193	DAP108A-0202-12	Not available
MRIIGQ2102/A	Restraint Harness Sea King Armoured Seat	1680-99-759-9913	DAP108D-0117-12	Not available
MRIIGQ2055	HAPES Mk2	1670-99-147-8376	DAP108D-0702-12	Not available
MRIIGQ2060	Harness Viking Restraint Type AH33/3	1680-99-215-3296	DAP108D-0145-12	Not available

MRI/ Part Number	Description	NSN	DAP	Commercial Manual
MRIIGQ2064	Restraint Harness	Not available	Not available	M941
MRIIGQ2064	Restraint Harness Aircrew with QRF	Not available	Not available	M941
MRIIRV877	Para Assembly, Type B Mk72	1670-99-629-5432	DAP108C-0160-12	M987, M967

Additional IrvinGQ Manufactured Assemblies affected over and above IGQSB033 Issue 1				
74343	Harness Assembly LH (890/SHT1)	Not available	Not available	Not available
74344	Harness Assembly RH (890 SHT1)	Not available	Not available	Not available
81609	Lap Strap LH (890 SHT4)	Not available	Not available	Not available
81610	Lap Assembly RH Strap (890)/SHT3	1680-99-428-9877	Not available	Not available
112509	Lap Strap and Release Box Assy LH (890 SHT 4)	Not available	Not available	Not available
112510	Lap Strap and Release Box Assy RH (890 SHT 4)	Not available	Not available	Not available
179061	Harness Assembly	Not available	Not available	Not available
179064	Harness Assembly	Not available	Not available	Not available
AL2964/SHT1	Aircrew Harness	Not available	Not available	Not available
AL2982 SHT1	Tank Seat Harness	2540-99-817-8875	Not available	Not available
AML16790	Harley Buckle Removable Webbing	Not available	Not available	Not available
ASE03639	Buckle Assembly	Not available	Not available	Not available
B74247/3/Mk	Harness Assembly	Not available	Not available	Not available
GQ02287	Yoke, S/A F111K Harness	Not available	Not available	Not available
GQ20257	Shoulder Fixed ZB Strap	1680-99-105-7681	DAP108D-0101-12	Not available
GQ20258	Lap RH C/W Pad Waist Strap	1680-99-105-7666	DAP108D-0101-12	Not available
GQ20259	Lap LH C/W Pad Waist Strap	1680-99-105-7676	DAP108D-0101-12	Not available
GQ20265	Shoulder Fixed Type ZC Strap	1680-99-105-7679	DAP108D-0101-12	Not available
GQ20279	Fixed Lap Strap	1680-99-106-0615	DAP108D-0101-12 DAP108D-0117-12	Not available
GQ21451	Securing Strap	1015-99-810-7994	Not available	Not available
GQD01903	Shoulder Fixed Strap	Not available	DAP108D-0117-12	M577
GQD05423	Shoulder Fixed Assembly Strap	1680-99-640-2032	DAP108D-0113-12 DAP108E-0519-12	M577
GQD09097	Shoulder Fixed Strap	1680-99-753-7465	Not available	Not available
GQD10340	Lap Fixed Strap	1680-99-753-7471	DAP108D-0113-12	N/A
GQD18634	RHF C/W QRF Fitting Aircrew Restraint Harness	1680-99-774-9815	Not available	Not available
GQD30713	Shoulder Strap Fixed	Not available	Not available	Not available
GQD31838	Shoulder Fixed Strap	1680-99-450-2775	DAP108D-0113-12	Not available
GQD41527	Fixed Shoulder Assembly Strap Lynx K7484	Not available	DAP108D-0113-12	M577
GQD43053	Tail Unit	1680-99-968-5837	Not available	Not available

MRI/ Part Number	Description	NSN	DAP	Commercial Manual
GQD05314	Shoulder Fixed Assembly Strap	Not available	DAP108D-0115-12	M577
GQD40054	Lap Fixed Strap	1680-99-349-5325	Not available	Not available
IACD14655	Pack and Harness Assembly B Mk72	1670-99-513-4565	DAP108C-0160-12	M987, M967
IACTE17008	Assembly Strap	1670-99-764-0383	Not available	Not available
IGQ00388	Tail Unit	1670-99-299-8707	Not available	Not available
IGQ00963	Negative G Strap	1680-99-348-4091	DAP108D-0145-12	Not available
IGQ01135	Load Strap HAPES	1670-99-361-2809	DAP108D-0702-12	Not available
IGQ01301	Boat End Towing Strop	1670-99-811-8634	DAP108A-0202-12	Not available
MD346/10	Shoulder Strap	1680-99-117-2672	Not available	Not available
MD365/10	Harness Shoulder	Not available	Not available	Not available
MD/366/11	Fixing Strap	Not available	Not available	Not available
MD/366/12	Fixing Strap	Not available	Not available	Not available
MRIGQ1035	Shoulder Strap Fixed S/Assembly	1680-99-753-7465	Not available	Not available
MRIGQ1081	PSP Type BA Mk 2	4220-99-8071764	DAP108E-0519-12	Not available
MRIGQ1257	Para Assy Type 360	1670-99-7004792	N/A	Not available
MRIGQ1882	Harness Restraint Aircrew RH-D Mk2	1680-99-902-7018	DAP108D-0117-12	Not available
MRIIGQ2022	Container and Harness Assembly Type B Mk73	1670-99-131-9926	Not available	Not available
MRIIGQ2049	Parachute B Mk73 Assembly	1670-99-679-8282	Not available	Not available
MRIIGQ2228	Harness Type SMk23	Not found	DAP108C-0168-12	Not available
MRIIRV972	Fixture Packing Assembly	1670-99-967-9074	Not available	Not available

179062	Lap Strap Assembly LH and Release Box	8465-99-743-0939	Not available	Not available
179063	Lap Strap Assembly, RH	2940-01-146-1995	Not available	Not available
179065	Lap Strap Assembly RH and Release Box	8465-99-998-6358	Not available	Not available
179066	Lap Strap Assembly, LH	8465-99-512-2875	Not available	Not available
179380	Assembly Harness (Stitched Vee)	Not available	Not available	Not available
GQ10849	Strap, Shoulder Assy Type Z	1680-99-427-7668	DAP108D-0101-12	M104 (manual copy not held by IrvinGQ)
GQ20256	Strap, Shoulder Fixed ZA	1680-99-105-7680	DAP108D-0101-12	M104 (manual copy not held by IrvinGQ)

MRI/ Part Number	Description	NSN	DAP	Commercial Manual
GQD14082	Strap, Shoulder Fixed Assembly	Not available	Not available	M677
GQD14354	Strap, Fixed Neg G C/W Comfort Pad	Not available	Not available	M677
GQD02669	Strap, Shoulder Fixed	6F/1680-99-1368519	Not available	M577
MRIGQ1515	GQ Stabiliser Parachute System, SAAB Aircraft 37 Gen 4	Not available	Not available	Not available
MRIGQ1879	Pack & Harness, Type 360 Low Level	1670-99-976-2043	Not available	Not available

MRIASE247	Harness Crew Restraint aircrew RH-F Mk1	Not available	Not available	Not available
MRIGQ0121	Safety Harness Webbing Assembly Type ZF	Not available	DAP 108D-0101-12	Not available
MRIGQ0262	Safety Harness Type ZA	Not available	Not available	M104
MRIGQ0264	Safety Harness Type ZC	Not available	Not available	M104, M161
MRIGQ0268	Safety Harness Type ZH	Not available	DAP 108D-0101-12	Not available
MRIGQ0309	Safety Harness Type ZL	Not available	DAP 108D-0101-12	M104
MRIGQ0414	Safety Harness Type ZM	Not available	Not available	Not available
MRIGQ0439	Safety Harness Type ZR	Not available	Not available	Not available
MRIGQ0767	Harness Combined SAAB J35 XD	Not available	Not available	Not available
MRIGQ0813	Harness Type B Mk 55 Parachute Assembly Back	Not available	Not available	Not available
MRIGQ0845/C	Gazelle Helicopter AH Mk 1 Restraint Harness, Standard Seat	1680-99-618-6780	Not available	Not available
MRIGQ0854	Harness Restraint , Aircrew, Type RH-H, (Wessex Pilot), Mk1	Not available	Not available	Not available
MRIGQ0868	Harness Restraint , Aircrew, Type RH-J, (Wessex Radar Operator) Mk1	Not available	Not available	Not available
MRIGQ0876	Harness Restraint , Aircrew, Type RH-J, (Wessex Co Pilot) Mk1	Not available	Not available	Not available
MRIGQ0877	Harness Restraint , Aircrew, Type RH-J, (Sonar), Mk1	Not available	Not available	Not available
MRIGQ0994	Combined Parachute & Safety Harness SAAB Scania J35 Ejection Seat	Not available	Not available	Not available

MRI/ Part Number	Description	NSN	DAP	Commercial Manual
MRIGQ1011	Harness Restraint , Aircrew, Type RH-M Mk1	1680-99-139-2568	Not available	Not available
MRIIGQ1065	Combined Parachute & Restraint Harness SAAB Aircraft 37	Not available	Not available	Not available
MRIGQ1096	Harness, Safety, Swallow Glider	Not available	Not available	Not available
MRIGQ1401/ 1 & 2	Harness Restraint Aircrew Type RH - Bravo Aircraft	Not available	Not available	Not available
MRIGQ1412	Pack, Personnel Parachute, Troop Back	1670-99-701-3481	Not available	Not available
MRIGQ1418	Harness SK60	Not available	Not available	M898, M1050
MRIGQ1426	Safety Harness Type ZB Commercial (with Z Type Release Box)	Not available	DAP 108D-0101-12	M627, M104, M115
MRIGQ1446	Pack, Personnel Parachute, Back	1670-99-257-8084	Not available	Not available
MRIGQ1487	Pack, Personnel Parachute, Troop Back	1670-99-810-2420	Not available	Not available
MRIGQ1497	Harness Set, Aircraft Safety	1680-99-051-8521	Not available	Not available
MRIGQ1520	Harness Restraint Augusta Aircrew Forward Facing	1680-99-836-2050	Not available	Not available
MRIGQ1520	Harness Restraint Augusta Aircrew Rear Facing	1680-99-836-2050	Not available	Not available
MRIGQ1559	Pack & Harness Assy Type 360SV Main on Main Static Line	Not available	Not available	Not available
MRIGQ1609	Harness SAAB 32 Lanser	Not available	Not available	M835, 842
MRIGQ1759	Harness Vigilant Aircraft	Not available	Not available	Not available
MRIGQ1765	Armour Capable Life Preserver (Garment Strap Tail Assembly)	1670-99-512-1265	Not available	Not available
MRIGQ1779	Harness Restraint , Aircrew, Four Point Merlin	Not available	Not available	Not available
MRIGQ1835	Strop, Webbing (Armour Capable Life Preserver Mk 60 Tail Unit)	8475-99-768-5849	Not available	Not available
MRIGQ1856	Harness SAAB SK60 Gen 4	Not available	Not available	M898
MRIGQ1875	Pack & Harness Type H103 Mk2 Freefall Complete with Military Cypres	Not available	Not available	Not available
MRIIGQ2024	Garment Strop Tail Assembly-Cougar	Not available	Not available	Not available
MRIIGQ2036	Belt, Aircraft Safety	1680-99-666-3108	DAP108D-0201-12	M630, M726
MRIIGQ2040	Harness, Aircraft Safety, Shoulder	1680-99-724-8100	Not available	Not available
MRIIGQ2090	Container & Harness Assembly Type B Mk73 Drill Harness (Wet Drill)	Not available	Not available	Not available

MRI/ Part Number	Description	NSN	DAP	Commercial Manual
MRIIGQ2091	Container & Harness Assembly Type B Mk73 (Dry Drill)	Not available	Not available	Not available
MRIIGQ2092	Container & Harness Assembly Type B Mk73 Pool Drill (Wet Drill)	Not available	Not available	Not available
MRIIGQ2219	Belt, Safety Despatcher (Maritime Sniper)	Not available	Not available	Not available
MRIIGQ2224	Despatcher Harness Type SH59/2	Not available	Not available	Not available
MRIASE2414	Harness Set, Aircraft Safety	1680-99-815-5150	DAP108D-0117-12	Not available
MRIASE2415	Harness Set, Aircraft Safety	1680-99-397-4670	not found	Not available
MRIASE2505	Restraint Harness Type ZS	Not available	DAP 108D-0101-12	Not available
MRIASE2506	Restraint Harness Type ZT	Not available	DAP 108D-0101-12	Not available