



SAFETY NOTICE

1/92

INFORMATION HAS BEEN RECEIVED FROM A NUMBER OF MANUFACTURERS WITH REGARD TO THE USE OF TYPE 17 (MINI 1") MAIN RISERS WITH RESERVE STATIC LINE (RSL) ATTACHED.

THE USE OF ALL TYPE 17 (MINI 1") RISERS WITH RESERVE STATIC LINE (RSL) ATTACHED ARE SUSPENDED (GROUNDED) UNTIL THE MATTER IS DISCUSSED AT THE NEXT RIGGER AND STC MEETINGS ON 9TH JULY 1992.

SOME INFORMATION RECEIVED FROM MANUFACTURERS IS INCLUDED WITH THIS SAFETY NOTICE.

FOR FURTHER INFORMATION CONTACT THE BPA OFFICE.

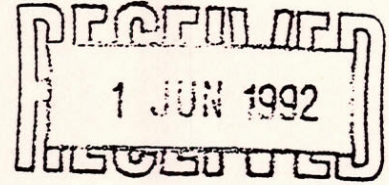
JOHN HITCHEN
NATIONAL COACH & SAFETY OFFICER

3RD JUNE 1992

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PRODUCT RECALL



ISSUE DATE: 21 May 1992

SERVICE BULLETIN #010592

SUBJECT: This bulletin affects all Type 17 (Mini 1") main risers with reserve static lines (RSL) attached which were manufactured by Relative Workshop of DeLand, Florida, USA.

STATUS: MANDATORY

BACKGROUND: Type 17 (Mini 1") risers have been in use for more than six years. Recently, however, the shock loading these risers are being subjected to has become much greater due to one or all of the following reasons:

- 1) Jumpers are falling faster due to tighter jumpsuits, and are jumping smaller canopies which, because of their smaller square footage and/or zero porosity fabric, open faster. (Faster fallrate plus faster opening equals greater opening shock.)
- 2) Microline, unlike Dacron, will not stretch. Consequently, much more of the opening shock is now transmitted directly to the risers instead of being absorbed by the suspension lines.
- 3) Microline, due to its small bulk, may not always be held securely by standard rubber bands or Tube Stoes. (This condition may be aggravated by too small a line bight.) This may cause out-of-sequence deployments, hard openings and uneven riser loading.
- 4) The new generation of collapsible, zero porosity pilot chutes may cause accelerated bag-snatch and line-dump which also result in out-of-sequence deployments, hard openings and uneven riser loading.
- 5) The practice of rolling all of the nose in the same direction will often cause one side of the canopy to inflate before the other, which again results in uneven riser loading.

These Type 17 (Mini 1") risers are designed to withstand loads up to 2500 pounds. It is apparent that newly designed canopies with Microline used by heavier jumpers occasionally exceed this design limit. These risers, on average, appear to be stronger than the canopies they are attached to. Scores of canopies have blown up during this period without damaging Type 17 (Mini 1") risers. While a main canopy breaking may be unsettling, breaking a Type 17 (Mini 1") riser with a reserve static line (RSL) may be fatal. It may deploy the reserve canopy into the now malfunctioning main canopy.

REQUIRED ACTION: Immediately disconnect the reserve static line (RSL) from the Type 17 (Mini 1") main riser. Have a currently rated parachute rigger cut the reserve static line (RSL) attachment ring off the riser. Then attach the snap shackle end of the reserve static line (RSL) around either the adjacent short or long cutaway housing. You may continue to jump the system set up this way until you install replacement Type 8 (1-3/4") risers set-up for reserve static line (RSL). These are much stronger and have never broken in use. Contact Relative Workshop or your dealer with the serial number of your system and we will supply you with Type 8 (1-3/4") risers at no cost, if your reserve static line (RSL) was installed by Relative Workshop.

(If your reserve static line (RSL) is an after-market installation, we will supply you with the recommended Type 8 (1-3/4") risers at a reasonable cost.)

REMEMBER: This bulletin only affects those Type 17 (Mini 1") main risers with reserve static lines (RSL) attached which were manufactured by Relative Workshop. It does not affect Type 17 (Mini 1") main risers without reserve static lines.

COMPLIANCE DATE: Immediately, prior to the next jump.

DISTRIBUTION: Skydiving publications worldwide. USPA, PIA, Relative Workshop dealers.

Mailing Address:
P.O. BOX 896
PERRIS, CA 92572 U.S.A.

Shipping Address:
236-C EAST THIRD ST.
PERRIS, CA 92570



TELEPHONE: (714) 657-1769
FAX: (714) 657-0547
TELEX: 6503116494 (Via WUI)

SERVICE BULLETIN

DATE: May 27, 1992

SERVICE BULLETIN #: 1519

SUBJECT: Type 17 main risers with RSL ring configuration.

STATUS: MANDATORY

IDENTIFICATION: No identifying marks on the risers. However the risers are stamped with an R & L respectively on the back of the right and left risers. Also, the riser ends are manufactured using 3 ea 1.5" bartacks. RI is the only company using this construction method.

BACKGROUND: On May 21, 1992, a Product Recall was issued by the Relative Workshop on their TY-17 main risers with the RSL ring installation after a pair of their risers failed in the field.

Because of similarities in construction techniques and materials of Rigging Innovations TY-17 main risers and those of the Relative Workshop, Rigging Innovations feels that it is prudent to take action on our products. However, unlike the Relative Workshop, we wish to conduct further tests of alternative riser materials and construction techniques. Past experience with TY-8 and similar width webbings and mini 3-ring configurations have highlighted other problems inherent in those designs. Consequently, we are issuing the following Service Bulletin.

SERVICE BULLETIN: Pending further test data availability, Rigging Innovations is placing a weight limitation on TY-17 main risers with the RSL option in use, of 175# (80kg) body weight or 200# (90kg) gross weight. Those individuals who exceed this weight must disconnect the RSL release shackle. It is recommended that a licensed rigger remove the lanyard entirely until further data is available. It is not necessary to have the reserve repacked to remove the lanyard. Removal of the lanyard may be accomplished, the reserve resealed, and an appropriate note made on the packing data card by an appropriately rated and licensed rigger.



COMPLIANCE DATE: IMMEDIATELY, BEFORE THE NEXT JUMP.

AUTHORITY: SANDY R. REID, PRESIDENT
Rigging Innovations Inc.
236 East 3rd St
Perris CA 92570 USA
Tel: 714-657-1769
FAX: 714-657-0547

DISTRIBUTION:

1. All registered owners affected by the Service Bulletin.
2. All Rigging Innovations Dealers.
3. All Parachuting Publications.
4. National Aero Clubs, Parachuting Section.
5. Military Parachute Organizations.

COMMENT:

This Service Bulletin does not affect TY-17 main risers that DO NOT have an RSI installation configuration.

THOMAS

Sports
Equipment
Limited

LOOMY'S LODGE - BRIDGEMAN LANE - BRIDGEMAN - NORTH HUMBERSIDE - YO16 7XS

Telephone: 0262 - 678299

PRODUCT RECAL

ISSUE DATE 1-06-92

SAFETY NOTICE #0004

SUBJECT: This Safety notice affects all type 17 (mini 1") main risers with reserve static line (RSL) attached, which were manufactured by Thomas Sports Equipment Ltd. Enclosed with this safety notice are all the serial numbers of rigs affected by this safety notice. If you have one of these rigs please contact us if you have not already been contacted by us. We will replace these risers with type 8 risers at no cost.

THIS IS A MANDATORY MODIFICATION.

REQUIRED ACTION: You may still use your equipment with the 1" risers as long as the RSL is disconnected from the main riser.

TO DISCONNECT THE (RSL) SHACKLE:

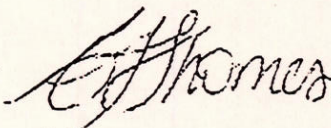
THE TEAR DROP AND THE CHASER:

Immediately disconnect the reserve static line (RSL) from the Type 17 (Mini 1") main riser at the snap shackle end. Then put under the 3 ring cover so that it does not interfere with the large 3 ring. You may continue to jump the system set up this way until you receive your replacement Type 8 (1 1/4") risers set up for reserve static line (RSL).

THE ZEROX:

Immediately disconnect the reserve static line (RSL) from the Type 17 (Mini 1") main riser at the shackle end. Then attach the snap shackle end of the reserve static line (RSL) around the adjacent long cutaway housing. You may continue to jump the system set up this way until you receive your replacement Type 8 (1 1/4") risers set up for reserve static line (RSL).

Yours faithfully



C.J. Thomas
Managing Director

THOMAS SPORTS EQUIPMENT MANUFACTURED RIGS WITH STEVENSON
 LANDYARDS ON TYPE 17 1" RISERS: MANDATORY MOD 2-6-92

#3667 TD	#3273 TD	#1390 Z
#3658 TD	#3264 TD	#1389 Z
#3653 TD	#3261 TD	#1384 Z
#3652 TD	#3225 TD	#1383 Z
#3645 TD	#3222 TD	#1382 Z
#3642 TD	#3221 TD	#1381 Z
#3635 TD	#3220 CH	#1357 Z
#3627 TD	#3217 TD	#1337 Z
#3607 TD	#3199 TD	#1333 Z
#3602 TD	#3185 TD	#1327 Z
#3592 TD	#3184 TD	#1307 Z
#3593 TD	#3177 TD	#1306 Z
#3590 TD	#3173 TD	#1303 Z
#3589 TD	#3170 TD	#1302 Z
#3585 TD	#3158 TD	#1252 Z
#3581 TD	#3156 TD	#1247 Z
#3571 TD	#3145 TD	#1219 Z
#3569 TD	#3126 TD	#1173 Z
#3559 TD	#3122 TD	#1172 Z
#3546 TD	#3120 TD	#1163 Z
#3544 TD	#3118 TD	#1162 Z
#3542 TD	#3110 TD	#1161 Z
#3527 TD	#3099 TD	#1132 Z
#3526 TD	#3091 TD	#1131 Z
#3520 TD	#3061 TD	#1117 Z
#3512 TD	#3011 CH	#1055 Z
#3508 TD	#2995 TD	#1052 Z
#3507 TD	#2955 TD	#1049 Z
#3498 TD	#2902 TD	#1047 Z
#3483 TD	#2901 TD	#1045 Z
#3482 TD	#2894 TD	#1015 Z
#3476 TD	#2887 TD	#1014 Z
#3475 TD	#2880 TD	
#3465 TD		
#3456 TD	#1521 Z	
#3441 TD	#1520 Z	
#3443 TD	#1519 Z	
#3432 TD	#1518 Z	
#3427 TD	#1517 Z	
#3400 TD	#1505 Z	
#3394 TD	#1481 Z	
#3390 TD	#1422 Z	
#3385 TD	#1421 Z	
#3369 TD	#1420 Z	
#3357 TD	#1419 Z	
#3354 TD	#1418 Z	
#3341 TD	#1417 Z	
#3327 TD	#1416 Z	
#3313 TD	#1415 Z	
#3308 TD	#1414 Z	
#3300 TD	#1413 Z	
#3288 TD	#1412 Z	
#3286 TD	#1410 Z	
#3285 TD	#1407 Z	
#3276 TD	#1401 Z	

TD = TEAR DROP
 CH = CHASER
 Z = ZEROX