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Appendix 1

to

Response of

Kia Motors America, Inc.

To

Request for Information – Recall Query

NVS-212lhs

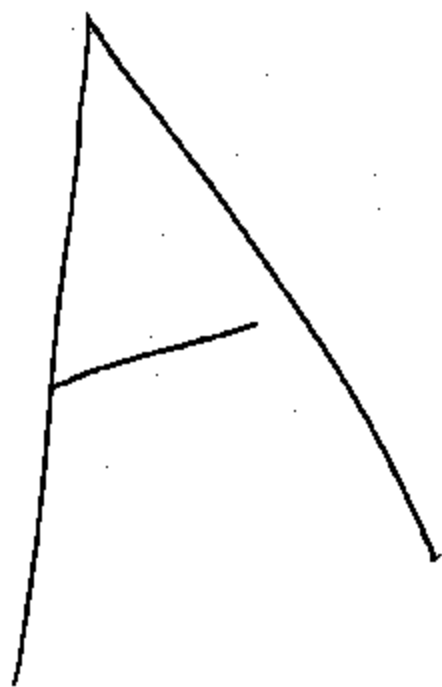
RQ03-007

February 9, 2004

**APPENDIX 1 TO RESPONSE OF KIA MOTORS AMERICA, INC. TO REQUEST FOR
INFORMATION - RECALL QUERY**

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F	Autoliv Buckle Locking/Unlocking Mechanism
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**Sephia/Sportage Warranty Returned Seatbelt
Buckle Analysis Result**

January 26,2004




Quality Assurance I Team

Cause Analysis Summary

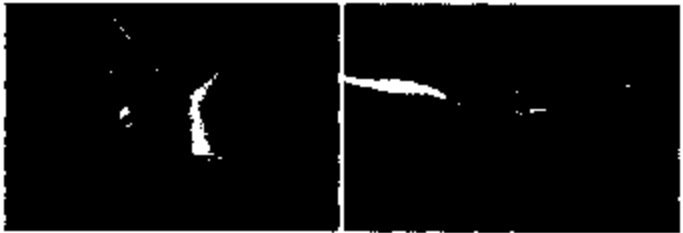

Claim Description	Cause Analysis Result	Duck Boo (A97)		Duck Boo (DB6)		Total
		99MY	00MY	01MY	02MY	
Inoperative	Operating Normal, No Trouble Found			8	6	14
	Foreign Material		3	1	5	9
	Wireharness Damage, Warning Light On			5	19	24
	Total	0	3	14	30	47

Warranty Returned Parts Analysis Result




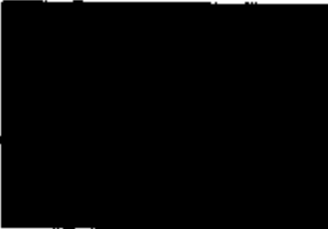


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1	Sportage(A97)	99.12/10	<p>▶ Foreign Material between Lock Plate and Latch moving path, Intermittent Locking problem : Potentially Oil or Beverage</p> <p>☞ After the foreign material removed, No more intermittent Locking Problem/ Working normally.</p>		03.11/11
2	Sportage(A97)	99.12/9	<p>▶ Foreign Material between Lock Plate and Latch moving path, Intermittent Locking problem : Potentially Coffee or Beverage</p> <p>☞ After the foreign material removed, No more Intermittent Locking Problem/ Working normally.</p>		03.12/30 (KNDJA7231Y5 657695)
3	Sportage(A97)	00.4/24	<p>▶ Sticky Foreign Material between Lock Plate and Latch moving path, Intermittent Locking problem</p> <p>☞ After the foreign material removed, No more intermittent Locking Problem/ Working normally.</p>		04.1/28 (KNDJB7233Y 5685642)





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4	Sportage(DB6)	00.08/13	▶ Working Normally No Problem Found		03.12/8 (KNDJB723215 706261)
5	Sportage (DB6)	00.12/01	▶ Buckle is working normally Wire Damaged, Warning Light On		03.12/8 (KNDJB623515 040961)
6	Sportage (DB6)	01.01/09	▶ Working Normally No Problem Found		03.12/8 (KNDJB723915 074259)
7	Sportage (DB6)	01.07/28	▶ Foreign Material(Coffee, Beverage), Button is not returning Intermittently.		03.12/8 (KNDJA723425 113327)

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8	Sportage (DB6)	01.8/30	▶ Buckle is working normally Wire Damaged, Warning Light On	 	03.12/30 (KNDJB723525 119232)
9	Sportage (DB6)	00.12/27	▶ Working Normally . No Problem Found		03.12/30 (KNCJA723715 069094)
10	Sportage (DB6)	02.1/17	▶ Buckle is working normally Wire Damaged, Warning Light On	 	03.12/30 (KNDJA723X25 150477)
11	Sportage (DB6)	02.1/17	▶ Foreign Material(Coffee, Beverage), Button is not returning Intermittently.	 	03.12/30 (KNDJA623815 089980)

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12	Sportage (DB6)	02.4/6	▶ Buckle is working normally Wire Damaged, Warning Light On		03.12/30 (KNDJA723025 162203)
13	Sportage (DB6)	02.3/12	▶ Buckle is working normally Wire Damaged, Warning Light On		03.12/30 (KNDJB723225 158490)
14	Sportage (DB6)	01.9/18	▶ Buckle is working normally Wire Damaged, Warning Light On		03.12/30 (KNDJA723025 124776)
15	Sportage (DB6)	01.10/6	▶ Buckle is working normally Wire Damaged, Warning Light On		03.12/30 (KNDJB723325 128575)



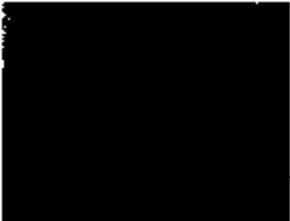

16	Sportage (DB6)	02.7/22	▶ Buckle is working normally Wire Damaged, Warning Light On		03.12/30 (KNDJB723725 172885)
17	Sportage (DB6)	02.7/22	▶ Buckle is working normally Wire Damaged, Warning Light On		03.12/30 (KNDJB723225 172406)
18	Sportage (DB6)	01.9/15	▶ Buckle is working normally Wire Damaged, Warning Light On		04.1/26 (KNDJB723625 124455)
19	Sportage (DB6)	01.7/28	▶ Foreign Material (Potentially Coffee or Beverage), Intermittent Button not returning Problem ☛ After the foreign material removed, No more intermittent Locking Problem/ Working normally.		04.1/26 (KNDJA723525 113191)



20	Sportage (DB6)	00.11/30	<p>▶ Foreign Material (Potentially Coffee or Beverage), Intermittent Button not returning Problem</p> <p>➤ After the foreign material removed, No more intermittent Locking Problem/ Working normally.</p>	 	 	<p>04.1/26 (KNDJA723X15 056615)</p>
21	Sportage (DB6)	00.11/30	<p>▶ Working Normally No Problem Found</p>			<p>04.1/26 (KNDJB723315 048288)</p>
22	Sportage (DB6)	01.12/4	<p>▶ Working Normally No Problem Found</p>			<p>04.1/26 (KNDJA723925 143309)</p>
23	Sportage (DB6)	00.8/25	<p>▶ Working Normally No Problem Found</p>			<p>04.1/26 (KNDJA723315 013587)</p>



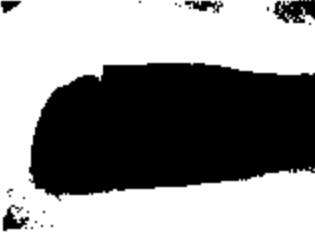










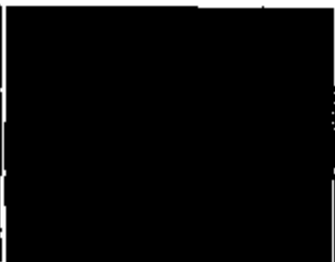




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24	Sportage (DB6)	01.7/27	▶ Working Normally No Problem Found			04.1/26 (KNDJA623825 112238)
25	Sportage (DB6)	01.7/27	▶ Working Normally No Problem Found			04.1/26 (KNDJA723615 704421)

Warranty Returned Parts Analysis Result

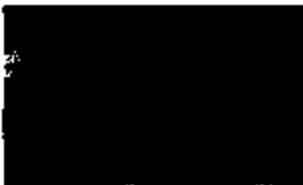





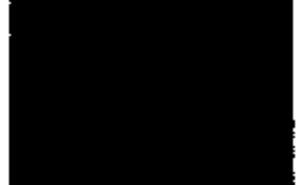

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26	Sportage (DB6)	02.8/16	▶ Buckle is working normally Wire Damaged, Warning Light On			03.12/30 (KNDJA723425 116020)
27	Sportage (DB6)	00.12/28	▶ Working Normally No Problem Found			03.12/30 (KNDJB723215 070716)
28	Sportage (DB6)	00.12/28	▶ Working Normally No Problem Found			03.12/30 (KNDJA72315 047358)
29	Sportage (DB6)	00.9/15	▶ Working Normally No Problem Found			03.12/30 (KNDJA723215 017839)



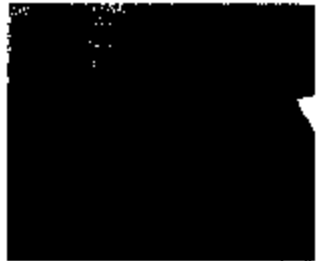
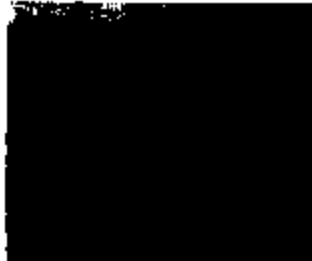
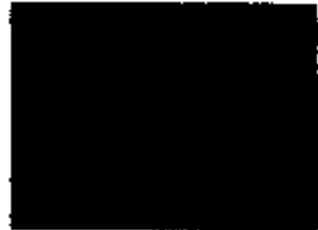



30	Sportage (DB6)	01.9/22	▶ Foreign Material(Coffee, Beverage), Button is not returning Intermittently.			03.12/30 (KNDJB723325 126342)
31	Sportage (DB6)	01.8/24	▶ Buckle is working normally Wire Damaged, Warning Light On			03.12/30 (KNDJB723825 118205)
32	Sportage (DB6)	01.11/19	▶ Buckle is working normally Wire Damaged, Warning Light On			03.12/30 (KNDJA723725 139687)
33	Sportage (DB6)	02.7/9	▶ Buckle is working normally Wire Damaged, Warning Light On			03.12/30 (KNDJB723025 172601)

34	Sportage (DB6)	01.1/11	▶ Working Normally No Problem Found		03.12/30 (KNDJB723715 074695)
35	Sportage (DB6)	01.11/15	▶ Buckle is working normally Wire Damaged, Warning Light On		03.12/30 (KNDJA723025 139939)
36	Sportage (DB6)	01.1/11	▶ Working Normally No Problem Found		03.12/30 (KNDJB723925 136745)
37	Sportage (DB6)	00.5/24	▶ Foreign Material(Coffee, Beverage), Button is not returning Intermittently.		03.12/30 (KNDJA723215 690713)


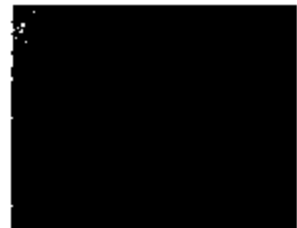




38	Sportage (DB6)	02.6/19	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJB723625 124455)
39	Sportage (DB6) _	02.4/9	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJA723X25 162418)
40	Sportage (DB6)	00.9/6	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJB723615 016707)
41	Sportage (DB6)	01.9/1	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJA723925 120158)



42	Sportage (DB6)	01.9/7	▶ Working Normally No Problem Found			04.1/26 (KNDJA723925 121729)
43	Sportage (DB6)	02.6/21	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJB723825 171258)
44	Sportage (DB6)	00.8/9	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJA723315 013587)
45	Sportage (DB6)	01.11/22	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJA723425 140981)



46	Sportage (DB6)	01.1/18	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJB723815 077783)
47	Sportage (DB6)	01.10/22	▶ Buckle is working normally Wire Damaged, Warning Light On			04.1/26 (KNDJB623825 135094)

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세피아/스포티지 버클 고품 조사 결과

2004. 1. 26




품질보증1팀



시트벨트 고품 조사결과 요약




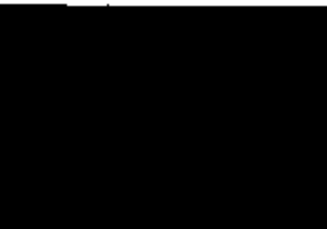


클레임 현상	원인 조사 결과	역부 (A97)		역부 (DB6)		계
		99MY	00MY	01MY	02MY	
작동불량	정상 작동			8	6	14
	이물질 유입		3	1	5	9
	W/H 손상으로 경고등 점등			5	19	24
	Total	0	3	14	30	47








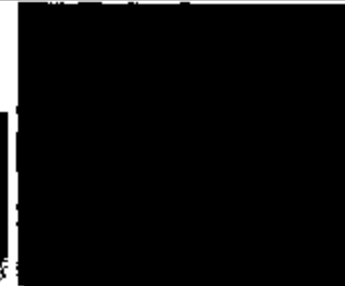
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1	스포티지 (A97 버클)	99.12/10	<p>▶ LOCK PLATE와 LATCH 승동부애 이물질 유입으로 간헐적 LOCKING 불량 발생 : 오일, 물로수등으로 추정됨</p> <p>☞ 이물질 제거후 정상작동</p>		03.11/11
2	스포티지 (A97 버클)	99.12/9	<p>▶ LOCK PLATE와 LATCH 승동부애 이물질 유입으로 간헐적 LOCKING 불량 발생 : 커피, 꿀라등으로 추정됨</p> <p>☞ 이물질 제거후 정상작동</p>		03.12/30 (KNDJA7231Y5 657695)
3	스포티지 (A97 버클)	00.4/24	<p>▶ 끈적 끈적한 이물질로 인한 간헐적 LOCKING 불량 발생</p> <p>☞ 이물질 제거후 정상작동</p>		04.1/26 (KNDJB7233Y 5685642)





4	스포티지 (DB6 버클)	00.08/13	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		03.12/8 (KNDJB723215 706261)
5	스포티지 (DB6 버클)	00.12/01	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상		03.12/8 (KNDJB623515 040961)
6	스포티지 (DB6 버클)	01.01/09	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		03.12/8 (KNDJB723915 074259)
7	스포티지 (DB6 버클)	01.07/28	▶ 이물질(커피, 음료수) 유입으로 버튼 간헐적 리턴 불량		03.12/8 (KNDJA723425 113827)

8	스포티지 (DB6 버클)	01.8/30	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			03.12/30 (KNDJB723525 119232)
9	스포티지 (DB6 버클)	00.12/27	▶ 버클 정상 작동 통전시험, 외관검사 이상없음			03.12/30 (KNDJA723715 069094)
10	스포티지 (DB6 버클)	02.1/17	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			03.12/30 (KNDJA723X25 150477)
11	스포티지 (DB6 버클)	02.1/17	▶ 이물질(커피, 음료수) 유입으로 버튼 간헐적 리턴 불량			03.12/30 (KNDJA623815 089980)





12	스포티지 (DB6 버클)	02.4/6	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상	 	03.12/30 (KNDJA723025 162203)
13	스포티지 (DB6 버클)	02.3/12	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상	 	03.12/30 (KNDJB723225 158490)
14	스포티지 (DB6 버클)	01.9/18	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상	 	03.12/30 (KNDJA723025 124776)
15	스포티지 (DB6 버클)	01.10/6	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상	 	03.12/30 (KNDJB723325 128575)

16	스포티지 (DB6 버클)	02.7/22	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상		03.12/30 (KNDJB723725 172885)
17	스포티지 (DB6 버클)	02.7/22	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상		03.12/30 (KNDJB723225 172406)
18	스포티지 (DB6 버클)	01.9/15	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상		04.1/26 (KNDJB723625 124455)
19	스포티지 (DB6 버클)	01.7/28	▶ 이물질(커피, 음료수) 유입으로 버튼 간헐적 리턴 불량 ☞ 이물질 제거후 정상작동		04.1/26 (KNDJA723525 113191)







20	스포티지 (DB6 버클)	00.11/30	▶ 이물질(커피, 음료수) 유입으로 버튼 간헐적 리턴 불량 ▶ 이물질 제거후 정상작동		04.1/26 (KNDJA723X15 056615)
21	스포티지 (DB6 버클)	00.11/30	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		04.1/26 (KNDJB723315 048286)
22	스포티지 (DB6 버클)	01.12/4	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		04.1/26 (KNDJA723925 143309)
23	스포티지 (DB6 버클)	00.8/25	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		04.1/26 (KNDJA723315 013587)




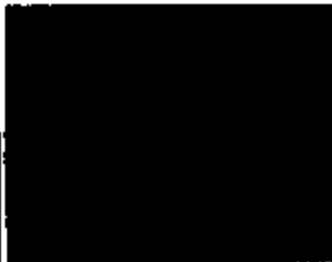










24	스포티지 (DB6 버클)	01.7/27	▶ 버클 정상 작동 통전시험, 외관검사 이상없음			04.1/26 (KNDJA623825 112238)
25	스포티지 (DB6 버클)	01.7/27	▶ 버클 정상 작동 통전시험, 외관검사 이상없음			04.1/26 (KNDJA723615 704421)

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26	스포티지 (DB6 버클)	02.8/16	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상		03.12/30 (KNDJA723425 116020)
27	스포티지 (DB6 버클)	00.12/28	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		03.12/30 (KNDJB723215 070716)
28	스포티지 (DB6 버클)	00.12/28	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		03.12/30 (KNDJA72315 047358)
29	스포티지 (DB6 버클)	00.9/15	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		03.12/30 (KNDJA723215 017839)








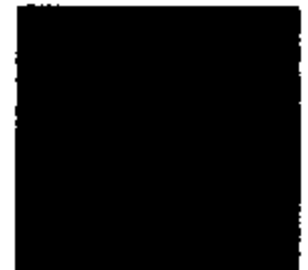
30	스포티지 (DB6 버클)	01.9/22	▶ 이물질 유입으로 버클 간헐적 리턴 불량			03.12/30 (KNDJB723325 126342)
31	스포티지 (DB6 버클)	01.8/24	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			03.12/30 (KNDJB723825 118205)
32	스포티지 (DB6 버클)	01.11/19	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			03.12/30 (KNDJA723725 139887)
33	스포티지 (DB6 버클)	02.7/9	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			03.12/30 (KNDJB723025 172601)

34	스포티지 (DB6 버클)	01.1/11	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		03.12/30 (KNDJB723715 074695)
35	스포티지 (DB6 버클)	01.11/15	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상		03.12/30 (KNDJA723025 139939)
36	스포티지 (DB6 버클)	01.1/11	▶ 버클 정상 작동 통전시험, 외관검사 이상없음		03.12/30 (KNDJB723925 136745)
37	스포티지 (DB6 버클)	00.5/24	▶ 이물질 유입으로 버튼 간헐적 리턴 불량		03.12/30 (KNDJA723215 690713)







38	스포티지 (DB6 버클)	02.6/19	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJB723625 124455)
39	스포티지 (DB6 버클)	02.4/9	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJA723X25 162418)
40	스포티지 (DB6 버클)	00.9/6	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJB723615 016707)
41	스포티지 (DB6 버클)	01.9/1	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJA723925 120158)



42	스포티지 (DB6 버클)	01.9/7	▶ 버클 정상 작동 통전시험, 외관검사 이상없음			04.1/26 (KNDJA723925 121729)
43	스포티지 (DB6 버클)	02.6/21	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJB723825 171258)
44	스포티지 (DB6 버클)	00.8/9	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJA723315 013587)
45	스포티지 (DB6 버클)	01.11/22	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJA723425 140981)



46	스포티지 (DB6 버클)	01.1/18	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJB723815 077783)
47	스포티자 (DB6 버클)	01.10/22	▶ 버클 정상 작동, 시트벨트 경고등 W/H 손상			04.1/26 (KNDJB623825 135094)

B

Sephia/ Sportage Seatbelt Buckle Countermeasure

Quality Assurance 1 Team

1. During inserting latch, Lock Plate is stuck intermittently by interference with buckle embossing guide so that locking is not done properly. → Buckle Base Embo. Shape Change (Aug. 19, 1996)



2. During Inserting latch, angle of the buckle cover guide for the latch is not enough so that the latch moves upward and locking is not done properly. → Angle change (Dec.23, 1996)



3. When Lock Plate is moving down for locking, Intermittent interference by buckle base embossing plate → Lock Plate shape change (Jan.30,1997)



세피아/스포티지 시트벨트 개선내용

- 1. Tongue 삽입시 간헐적 Lock Plate가 Buckle Embo. 면에 걸림
→ Buckle Base Embo. 면 형상 변경 (96.8.19)



- 2. Buckle Cover에 Tongue 삽입부 각도가 작아 Tongue 삽입시 Latch 를 상방향으로 밀어 올려 Lock 방해 → Tongue 삽입부 커버 형상 개선 (96.12.23)









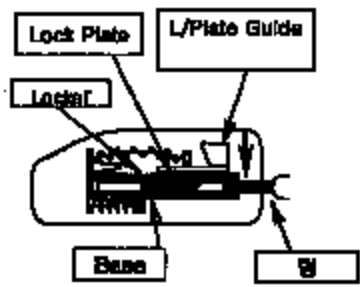
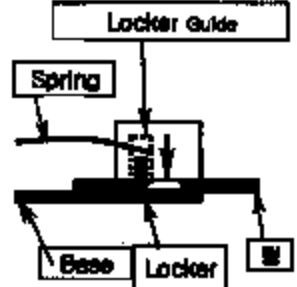
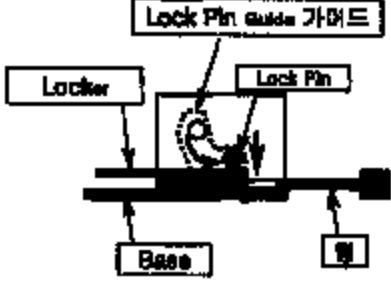
- 3. Buckle 작동시 Lock Plate 작동시 "R" 미흡으로 인해 Buckle Base Embo.면에 걸림
→ Lock Plate 작동부 형상 변경 (97.1.30)



C

◆ **Seat Belt Buckle Specification for Sephia and Sportage**







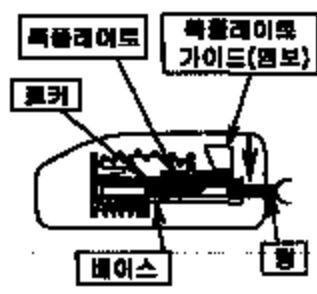
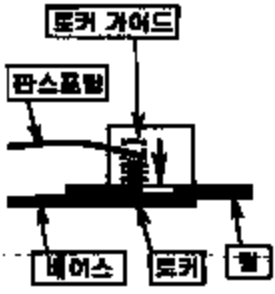
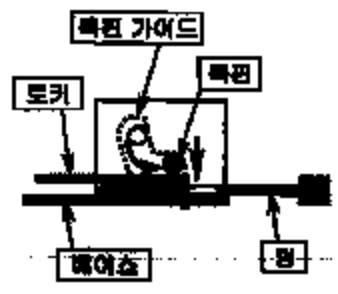
Naamang R & D Center / December 17, 2006

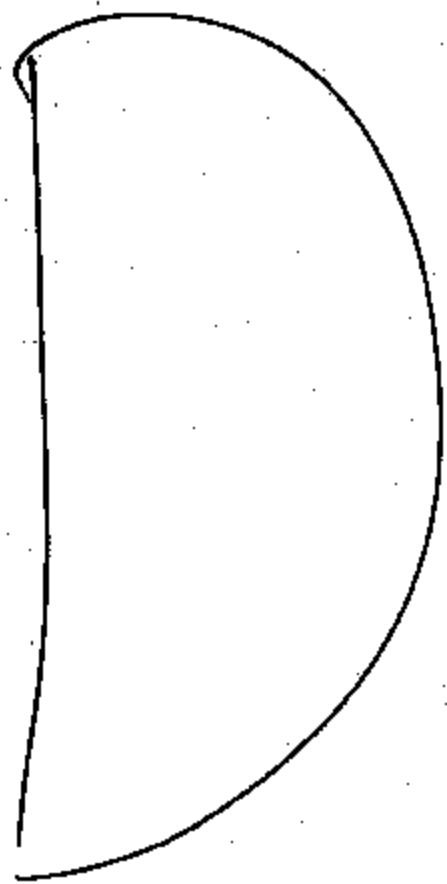
A97 Type	DB6 Type	-
95MY-00MY Sephia/ Spectra 95MY-00MY Sportage	01MY-02MY Sportage	01MY- Sephia and Spectra
		
		
		

◆ Seat Belt Buckle 사양 비교

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남양 연구소 / 2009년 12월 17일

AG7 Type	DB6 Type	-
세피아 : 95~00MY 스포티지 : 95~00MY	스포티지 : 01MY~	세피아 : 01MY~
		
		
 <p> 록클리어드 록클리어드 가이드(영보) 로키 베이스 링 </p>	 <p> 로키 가이드 판스프링 베이스 로키 링 </p>	 <p> 록핀 가이드 로키 록핀 베이스 링 </p>



Buckle Locking/Unlocking Mechanism- A97 Type

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Unlock Condition

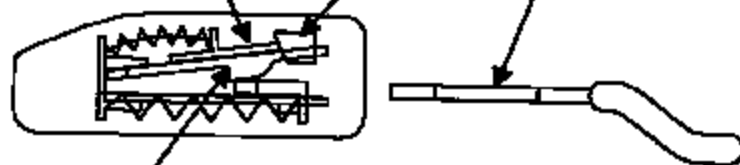


LOCK PLATE

BASE
EMBOSS

TONGUE

LATCH



Lock Condition

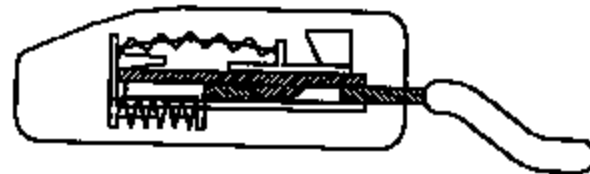


Locking Mechanism

1. Latch pushes Ejector
2. Lock Plate moves to Latch side and down side by following the base embossing guide.
3. Lock Plate holds the Latch and Locking is done.
4. Lock Plate is at between Base Embossing Guide and Latch.

Unlocking Mechanism

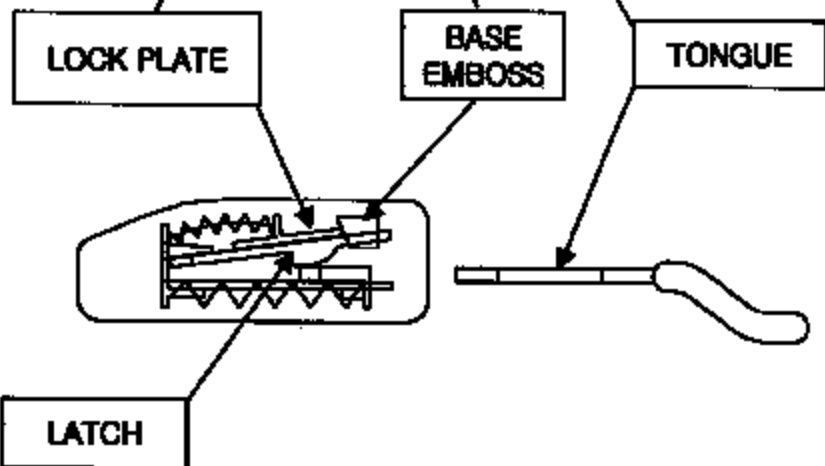
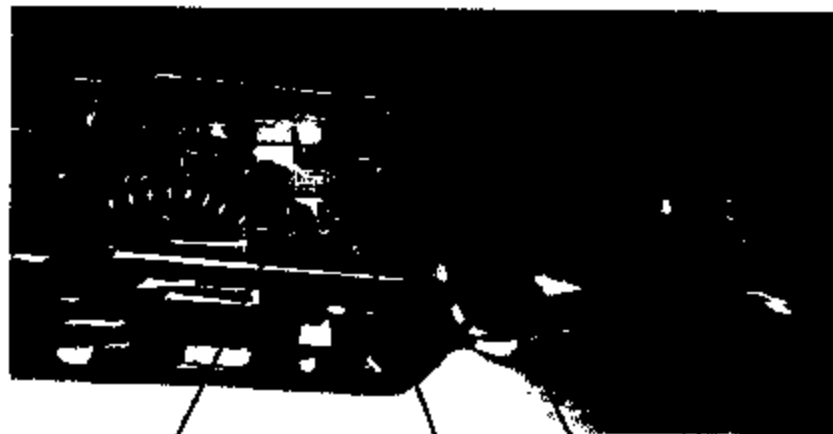
1. When Button is pressed, Lock Plate moves backward(LH side)
2. Lock Plate moves to upward thru the base embossing guide path.
3. Ejector moves forward by the spring force and Latch moves upward so that the Latch is unlocked.



■ A97 BUCKLE 작동 원리

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미체결 상태



체결 상태



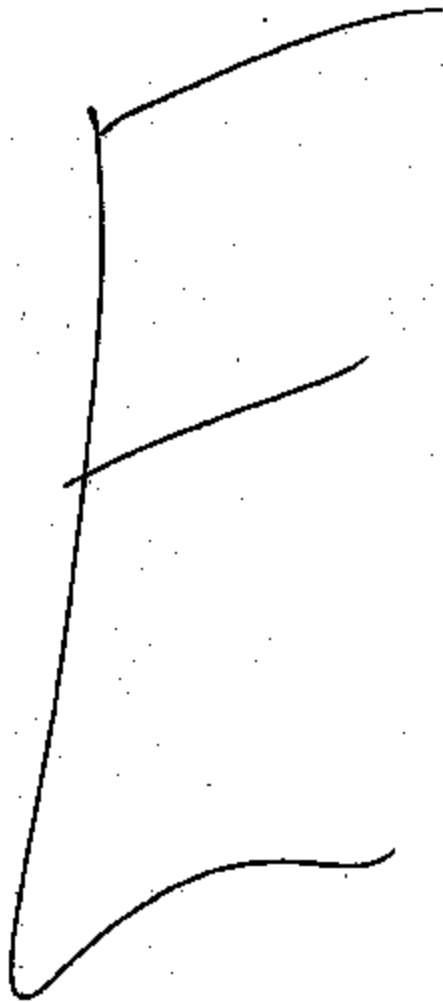
■ 체결

1. TONGUE이 EJECTOR를 밀면서 삽입됨
2. LATCH SPRING 힘에 의해 LOCK PLATE가 앞으로 밀리면서 BASE EMBOSS 면을 따라 내려옴
3. LOCK PLATE에 의해 LATCH가 하측으로 내려오며 TONGUE과 체결됨
4. LOCK PLATE는 BASE EMBOSS와 LATCH 사이에 위치함

■ 해리

1. PRESS BUTTON을 누르면 BUTTON이 LOCK PLATE를 뒤로 밀어냄
2. LOCK PLATE가 BASE EMBOSS면을 타고 상측으로 이동함
3. EJECTOR SPRING에 의해 EJECTOR가 앞측으로 이동하며 LATCH는 상측으로 이동하여 TONGUE과 분리되어 TONGUE이 뒤로 밀리면서 해리됨

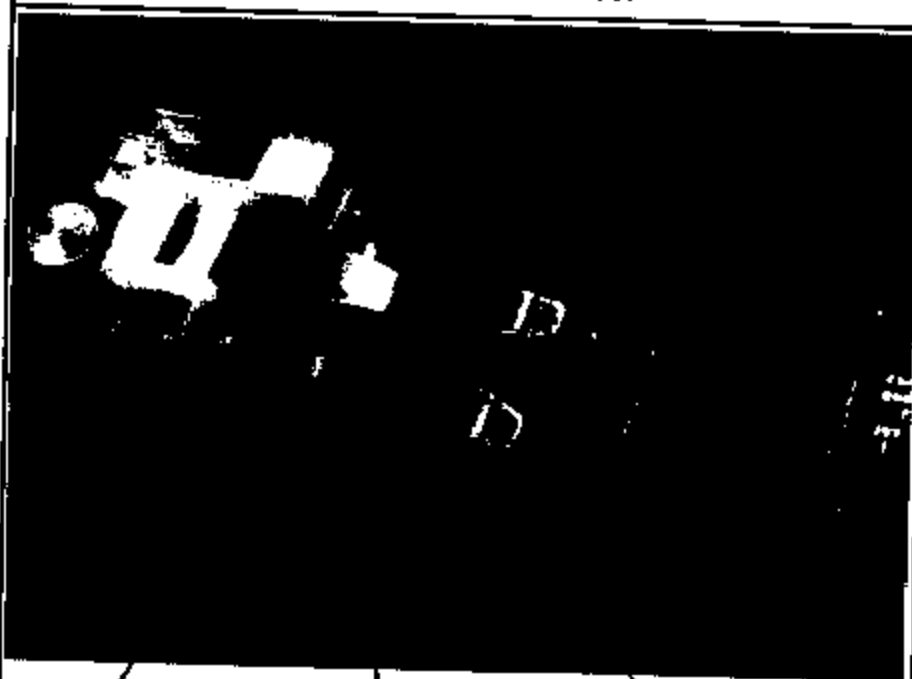




Buckle Locking/Unlocking Mechanism- DB6 Type

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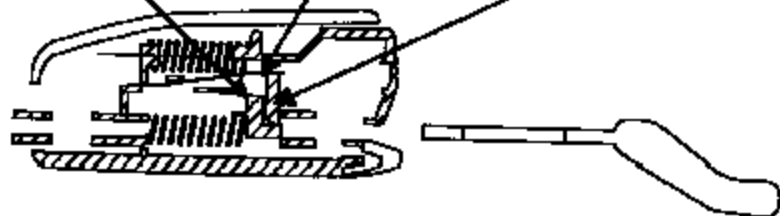
Unlock Condition



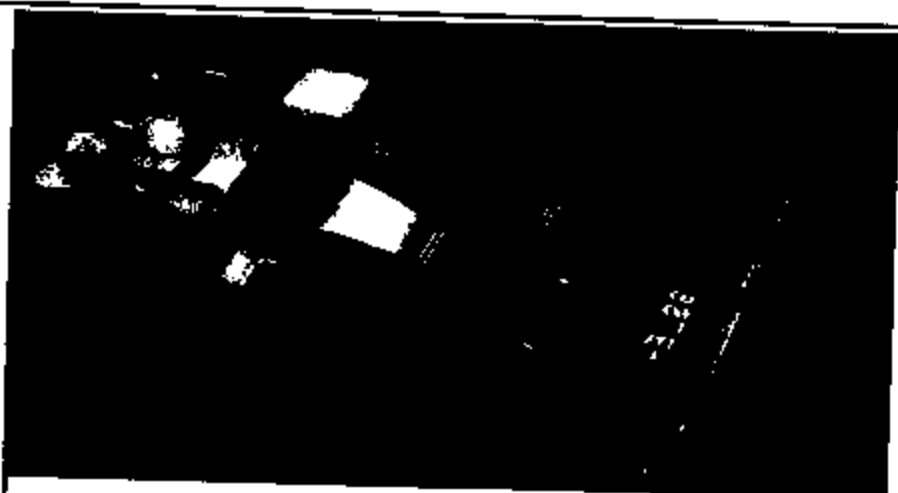
EJECTOR

LOCK BAR
SPRING

LOCK BAR



Lock Condition

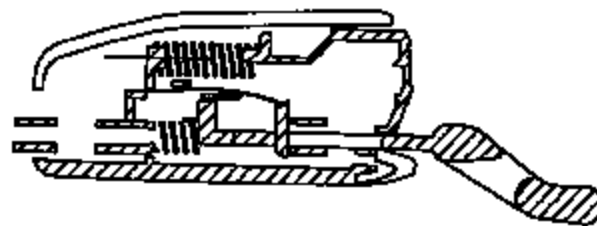


Locking Mechanism

1. Latch is inserted by pushing Ejector
2. Lock Bar located above of Ejector moves downward by spring force and holds the latch.

Unlocking Mechanism

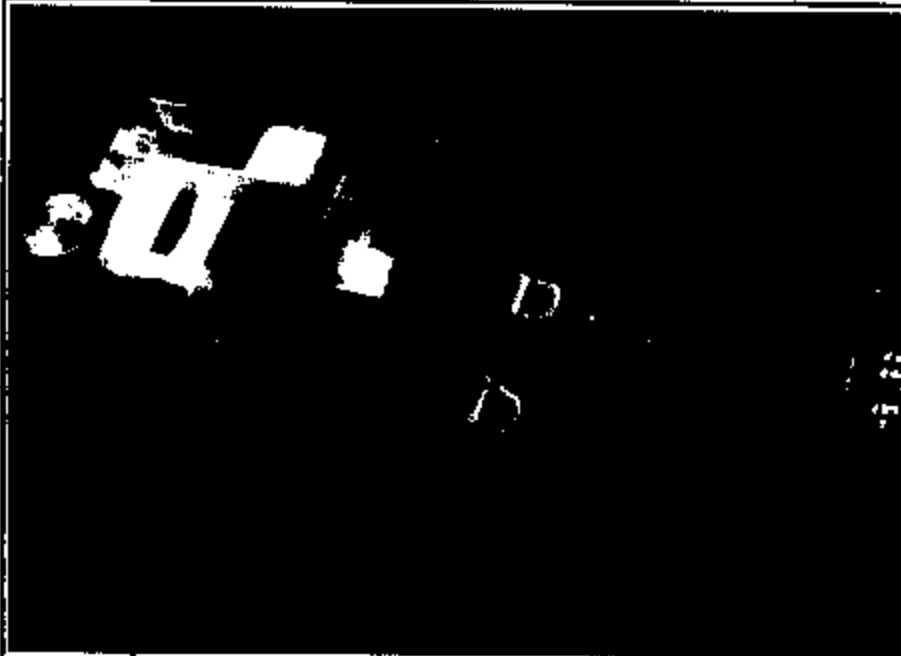
1. When Button is pressed, Button moves to backward and lock bar moves to upward.
2. Latch then is unlocked and Ejector pushes Latch backward.



DB6 BUCKLE 작동 원리

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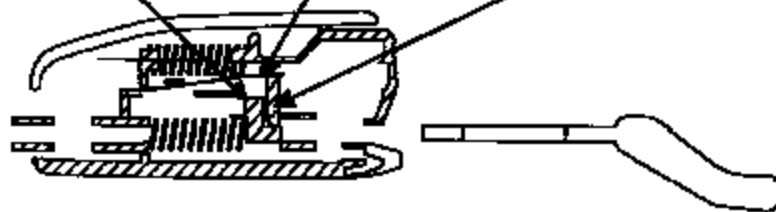
미체결 상태



EJECTOR

LOCK BAR
SPRING

LOCK BAR



체결 상태

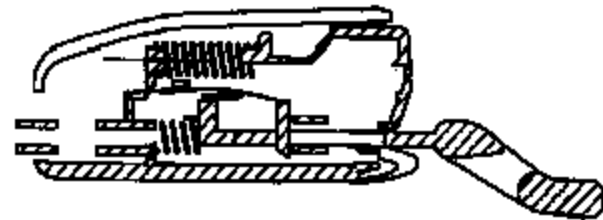


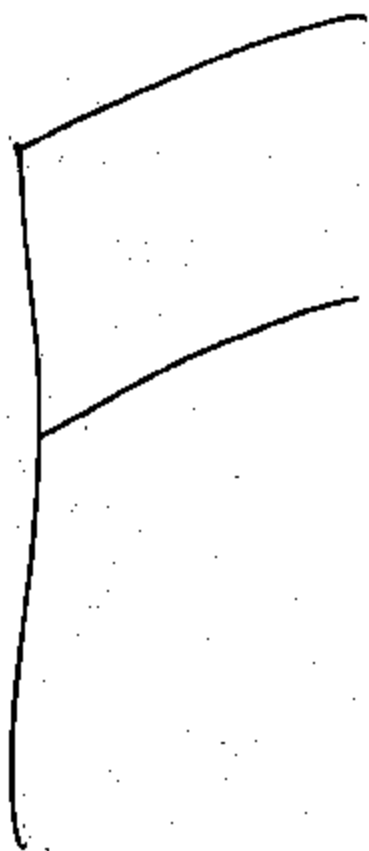
■ 체결

1. TONGUE이 EJECTOR를 밀면서 삽입됨
2. EJECTOR의 상측에 위치한 LOCK BAR는 LOCK BAR SPRING의 힘에 의해 하측으로 내려와 TONGUE과 체결됨

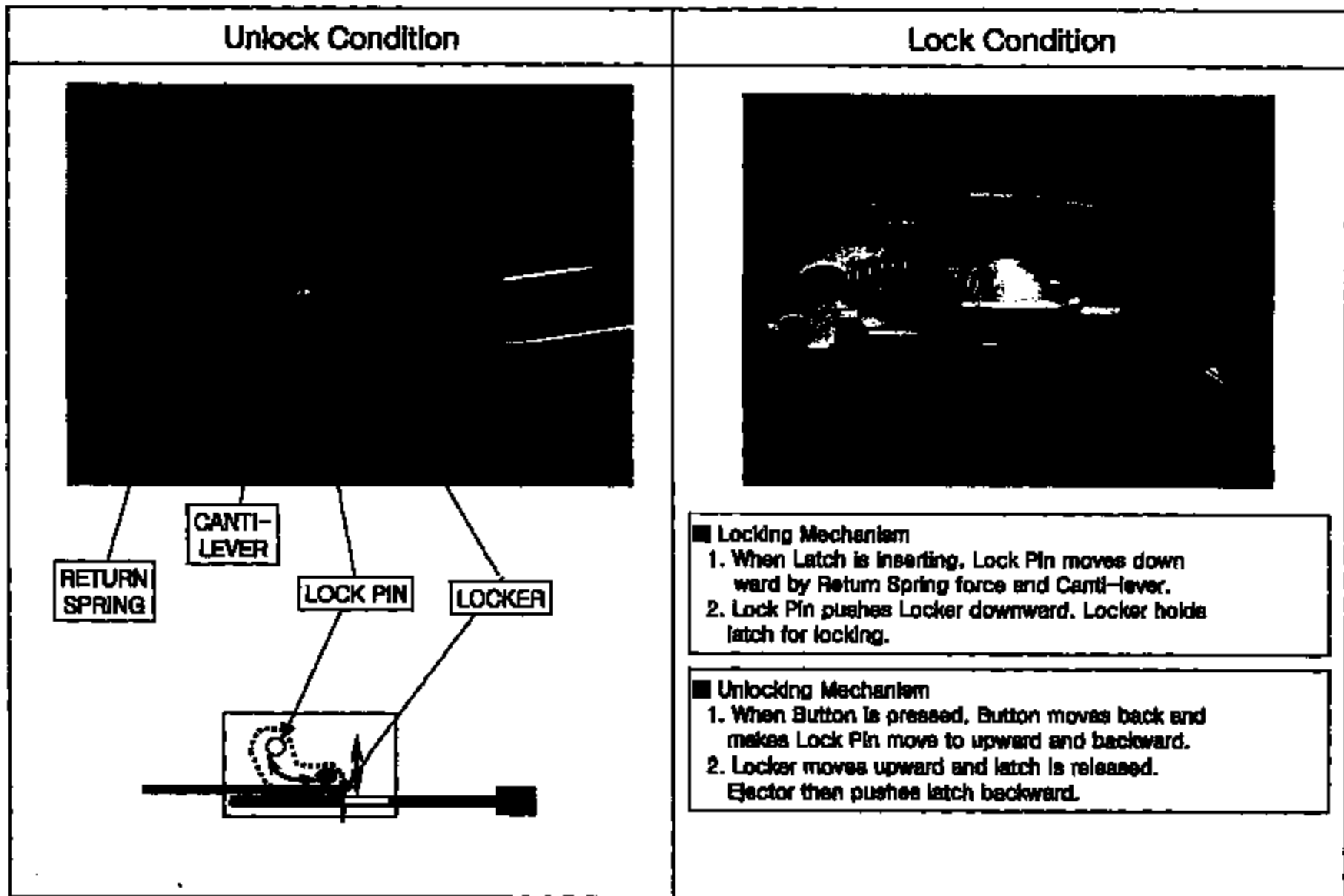
■ 해리

1. PRESS BUTTON을 누르면 BUTTON이 뒤쪽으로 이동하며 LOCK BAR를 상측으로 이동시킴
2. LOCK BAR가 상측으로 이동되면 TONGUE과 분리되고 EJECTOR가 TONGUE을 앞쪽으로 밀어내 해리됨.





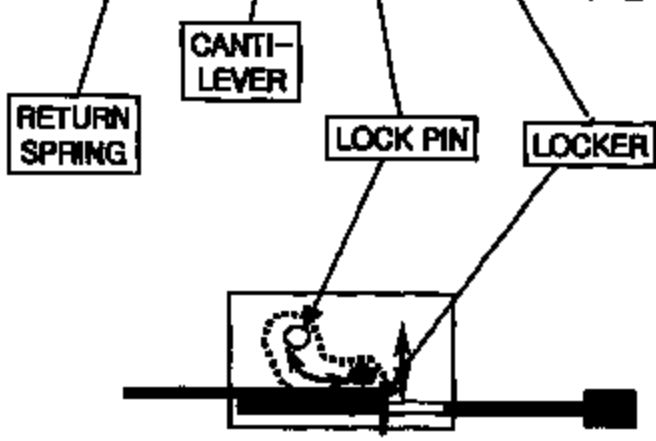
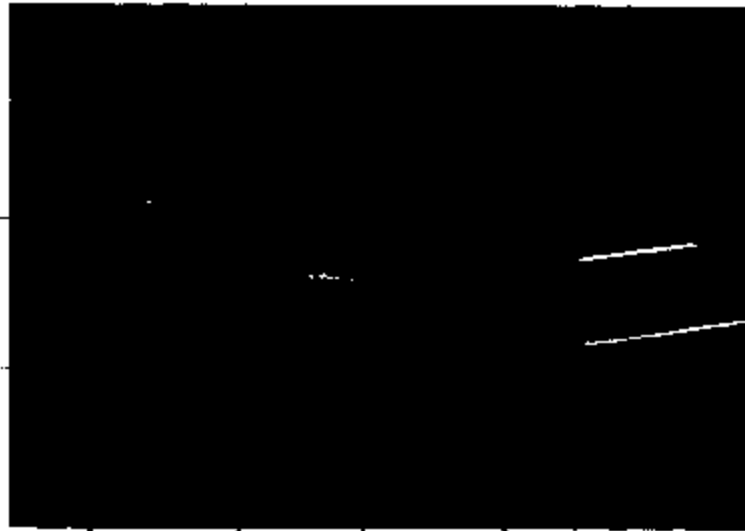
Autoliv Buckle Locking/Unlocking Mechanism



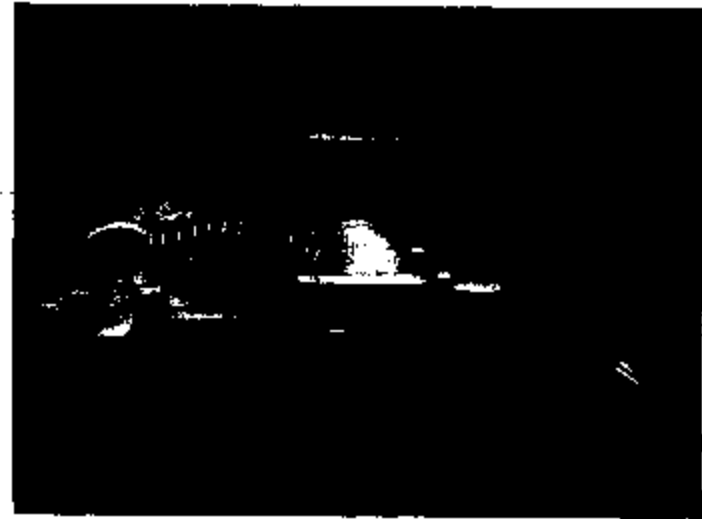
■ AUTOLIV BUCKLE 작동 원리

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미체결 상태



체결 상태



■ 체결

1. TONGUE 삽입시 RETURN SPRING과 CANTILEVER에 의해 LOCK PIN을 아래로 움직임
2. LOCK PIN이 LOCKER를 하단으로 밀어 TONGUE과 체결됨

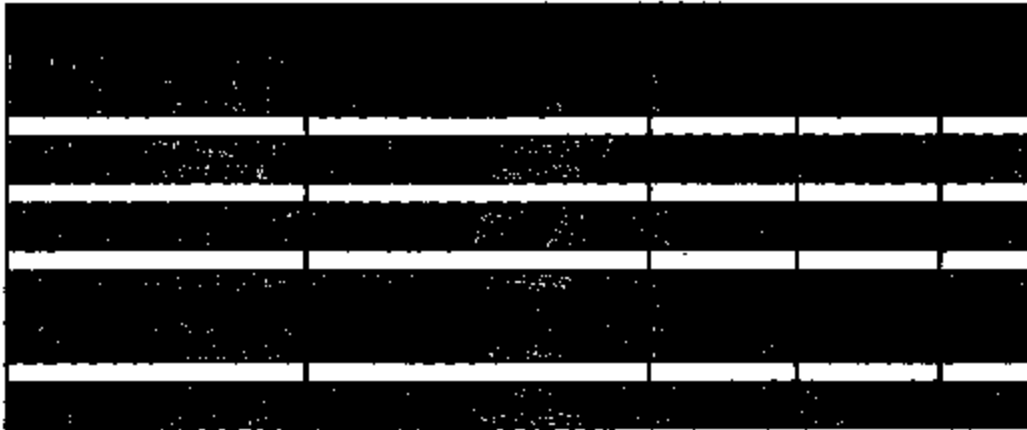
■ 해리

1. PRESS BUTTON을 누르면 BUTTON이 뒤쪽으로 이동하며 LOCK PIN을 뒤로 이동시킴
2. LOCKER가 상측으로 이동되면 TONGUE과 분리되고 EJECTOR가 TONGUE을 앞쪽으로 밀어내 해리됨.

6

Part 96 Information
January 1, 2001 through December 31, 2001

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