

# Service Bulletin

Starair Aircraft Co., Ltd.

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Ver.: 01

Date: October 27, 2023

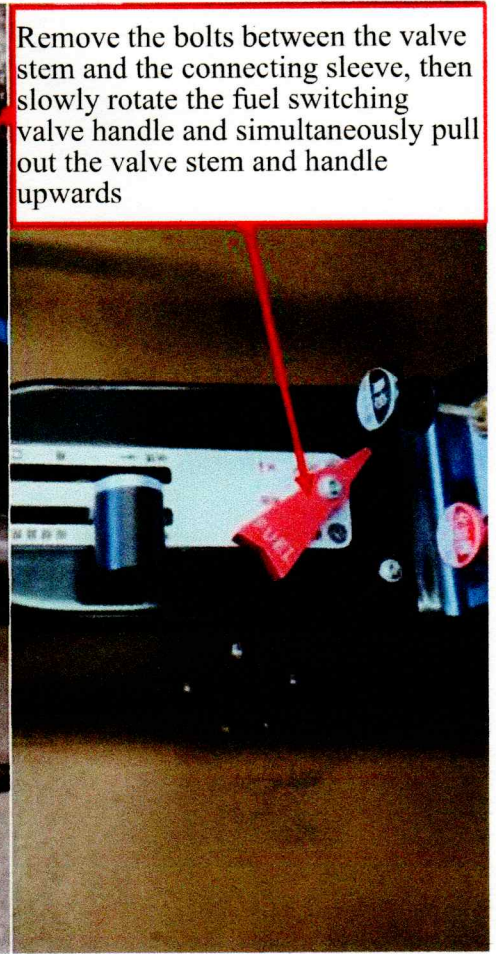
Subject	<b>Operation training and optimization of fuel switching valve</b>
Category	Important
Applicability	This bulletin applies to the Aurora SA60L light sport aircraft listed in Attached Table 1.
Finish Time	Aircraft within the scope of application must be done the work required by this service bulletin completely before December 31, 2024.
Reason	<p>There are significant differences between the indications of the Aurora SA60L aircraft's fuel switching valve switching to the left, right, and close position. However, there have been recent incidents of pilots mistakenly switching the fuel switching valve to the close position, resulting in unsafe engine stoping in the air. In order to further improve flight safety and fault tolerance, aircraft operators are required to organize training on the operation of the fuel switching valve, At the same time, according to the required actions of this bulletin, replacement the fuel switching valve for aircraft within the scope of application (free).</p> <p>Issue Date: October 27, 2023      Effective Date: October 27, 2023</p>
Required Action(s)	<p>A. Training requirements for the operation of fuel switching valves</p> <p>After receiving this service bulletin, the operators of the Aurora SA60L aircraft should provide training to pilots, flight trainees, and maintenance personnel in accordance with Chapter 7.6.2 "Aurora SA60L Fuel Switching Valve" of the "Aurora SA60L&amp;Aurora SA60L-iS Flight Manual" (8168AAFJ0001, A0 Edition) released on September 12, 2023 before the next flight.</p> <p>B. Disassembly and assembly steps for replacing the fuel switching valve</p>

1. Remove the interior components such as the seat, seat belt, and floor, and place them in a place where they will not be worn or scratched. At the same time, place the removed screws and other fasteners in a container to avoid loss;



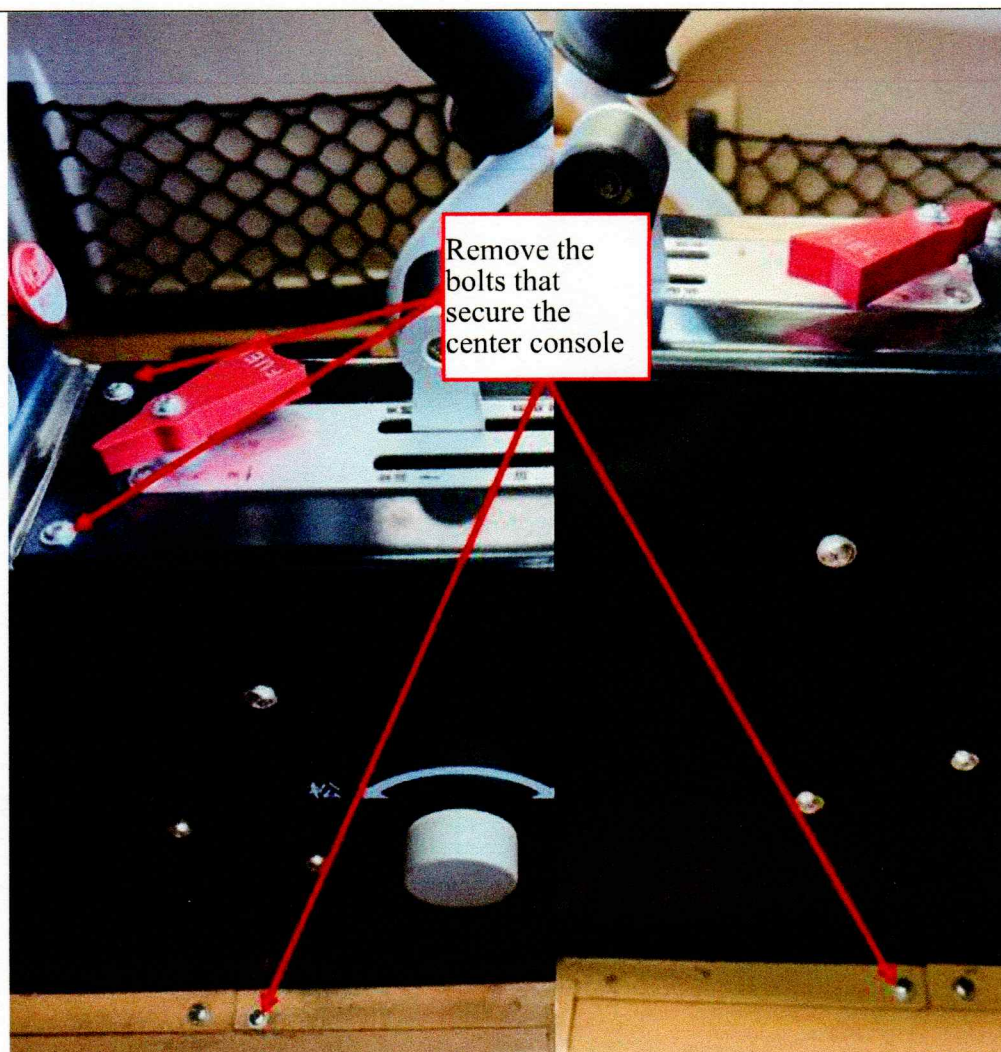
2. Remove the bolts between the valve stem and the connecting sleeve, then slowly rotate the fuel switching valve handle and simultaneously pull out the valve stem and handle upwards;





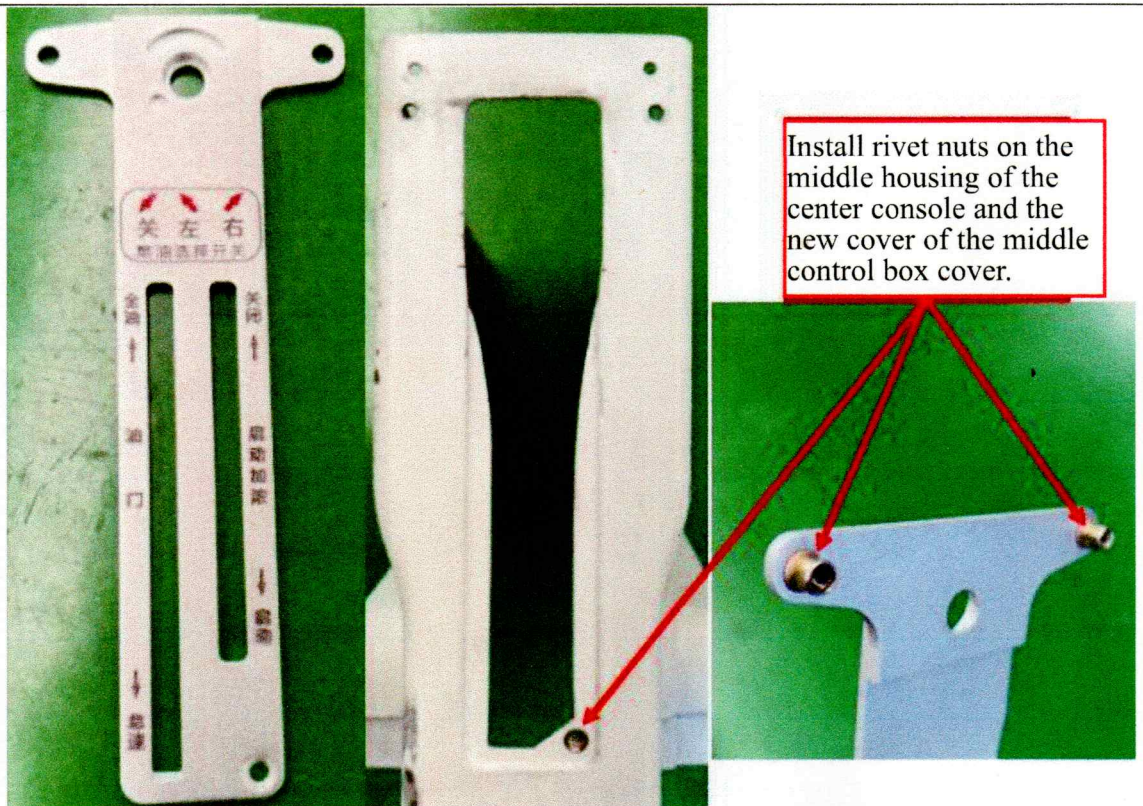
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- Remove the bolts from the throttle handle
- Remove the bolts that secure the throttle control mechanism assembly
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4. According to the size of the new cover of middle control box, repair the installation hole on the removed middle housing of the center console and install the rivet nuts.



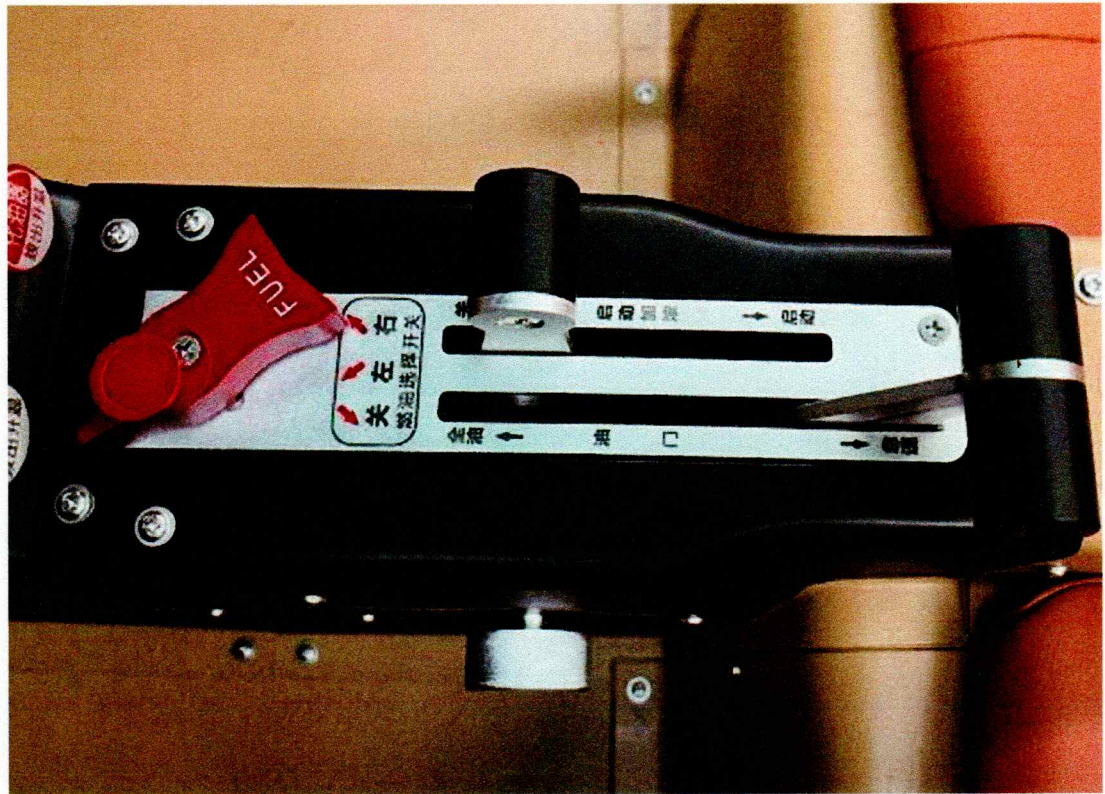


5. Assemble the optimized fuel switching valve handle and valve stem, as shown in the following figure.

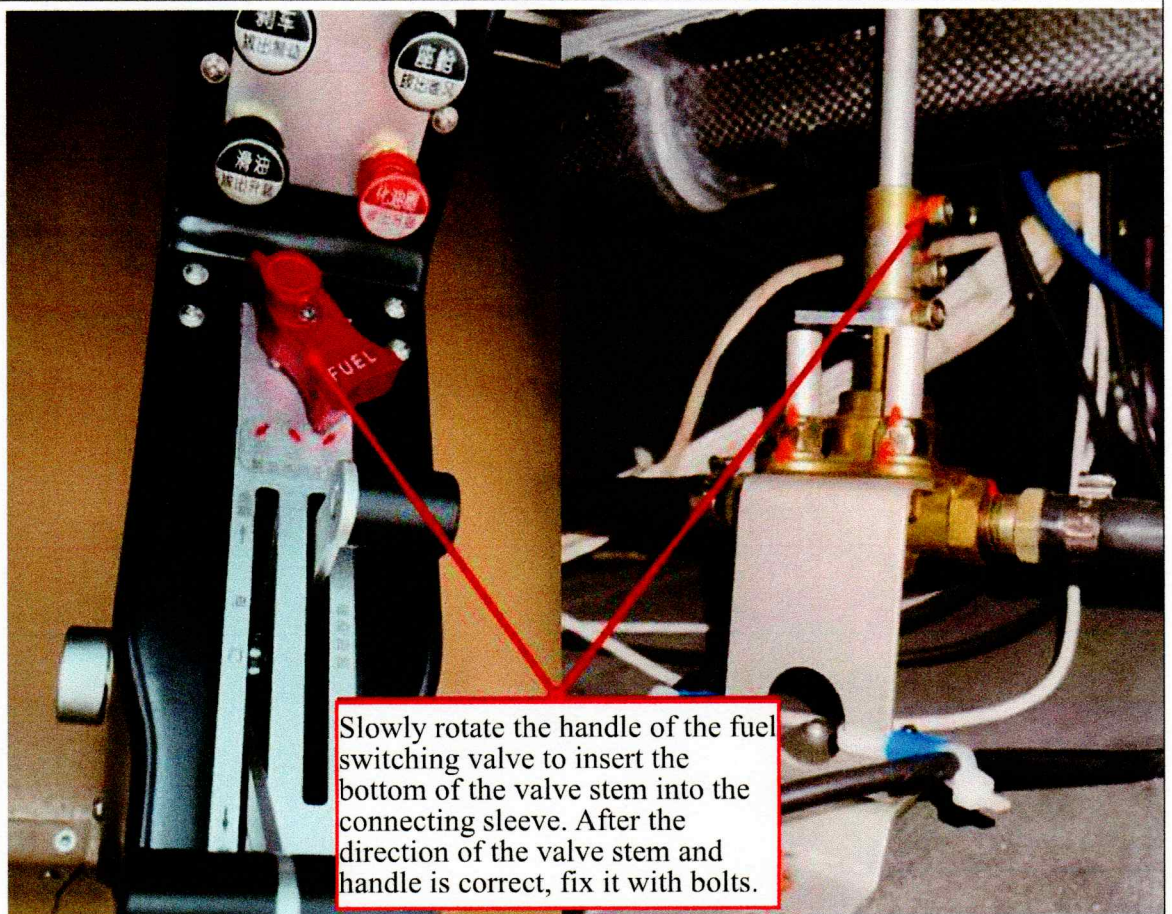


6. Assemble the optimized middle control box cover with the center console middle housing that has been repaired with the installation hole, then insert the handle and valve stem assembled in step 5 into the installation hole of middle control box cover and install them together on the aircraft. Finally install the throttle assembly and other fasteners, as shown in the following figure.



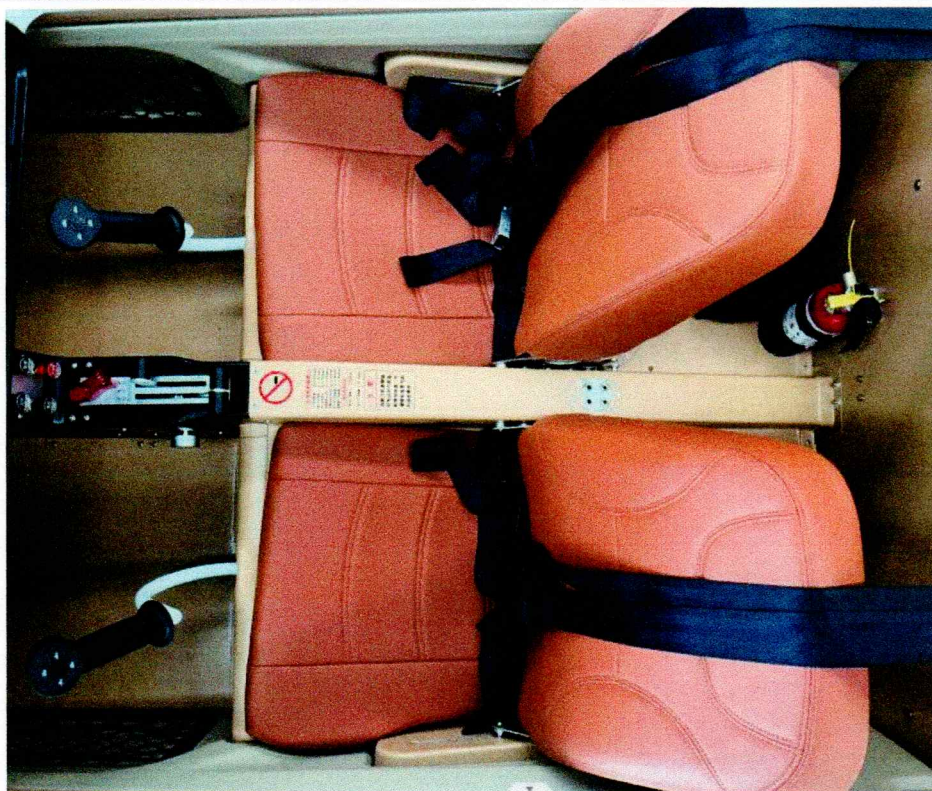


7. After adjusting the length and rotation direction of the valve stem, use screws to install and fix the bottom of the valve stem with the connecting sleeve, as shown in the following figure.



8. Check the tightness of all fasteners, and after confirming that there are no problems, apply paint seal and reinstall the interior components such as the floor, seats, and seat belts, as shown in the following figure.





C. Materials required to implement this service bulletin:

No.	Material No.	Name	quantity
1	3168000023	Fuel swithching valve handle	1
2	3168000022	valve stem	1
3	3168000064	Circular truncated cone	1
4	3168000065	Limit shaft	1
5	7140000004	304 stainless spring 0.5X6X15 GB/T 2089-2009	1
6	701310004011	Bolt M4X12-ZnD GB/T 819.1	1
7	701708004003	Pin 4X10-A1 GB/T 119.1	1
8	3168000063	bush	1
9	3168000021	Middle control box cover	1
10	701329004001	Bolt M4X10-A2-70 GB/T 819.2	2
11	751104000037	Cross pan head screw with gasket M4X12	2
12	751103000059	Small head rivet nut LGB/T.SM4R	3

Reference Documents	None
Tools	cross screwdriver、allen key、file、Loctite 243 thread tightening adhesive, etc
Weight and Balance	None



Impact			
Special tools and equipment	None		
Contact Information	contacts: Peng Liang	phone number: 4006635288	mail address: safety@sunward.cc
Approval	This service bulletin has been approved by the airworthiness management department of Civil Aviation Administration of China.		

**Attached Table1: Aircraft with the Serial Number listed below are affected**

No.	S/N	No.	S/N	No.	S/N
1	SA60LS00103	35	SA60LS00143	69	SA60LS00197
2	SA60LS00104	36	SA60LS00148	70	SA60LS00198
3	SA60LS00105	37	SA60LS00149	71	SA60LS00199
4	SA60LS00106	38	SA60LS00150	72	SA60LS00200
5	SA60LS00107	39	SA60LS00151	73	SA60LS00201
6	SA60LS00108	40	SA60LS00152	74	SA60LS00202
7	SA60LS00109	41	SA60LS00153	75	SA60LS00206
8	SA60LS00110	42	SA60LS00154	76	SA60LS00207
9	SA60LS00111	43	SA60LS00156	77	SA60LS00208
10	SA60LS00112	44	SA60LS00157	78	SA60LS00209
11	SA60LS00114	45	SA60LS00160	79	SA60LS00210
12	SA60LS00115	46	SA60LS00161	80	SA60LS00212
13	SA60LS00116	47	SA60LS00164	81	SA60LS00213
14	SA60LS00117	48	SA60LS00167	82	SA60LS00215
15	SA60LS00118	49	SA60LS00168	83	SA60LS00216
16	SA60LS00119	50	SA60LS00169	84	SA60LS00217
17	SA60LS00120	51	SA60LS00173	85	SA60LS00218
18	SA60LS00121	52	SA60LS00174	86	SA60LS00219
19	SA60LS00122	53	SA60LS00176	87	SA60LS00220
20	SA60LS00123	54	SA60LS00177	88	SA60LS00221
21	SA60LS00125	55	SA60LS00178	89	SA60LS00222
22	SA60LS00126	56	SA60LS00179	90	SA60LS00223
23	SA60LS00128	57	SA60LS00180	91	SA60LS00225
24	SA60LS00130	58	SA60LS00182	92	SA60LS00226
25	SA60LS00131	59	SA60LS00185	93	SA60LS00227
26	SA60LS00133	60	SA60LS00186	94	SA60LS00228
27	SA60LS00134	61	SA60LS00187	95	SA60LS00230
28	SA60LS00135	62	SA60LS00188	96	SA60LS00231
29	SA60LS00136	63	SA60LS00189	97	SA60LS00232
30	SA60LS00137	64	SA60LS00190	98	SA60LS00233
31	SA60LS00138	65	SA60LS00191	99	SA60LS00235
32	SA60LS00139	66	SA60LS00192	100	SA60LS00236
33	SA60LS00140	67	SA60LS00193	101	SA60LS00237
34	SA60LS00142	68	SA60LS00195	102	SA60LS00238



No.	S/N	No.	S/N	No.	S/N
103	SA60LS00239	133	SA60LS00277	163	SA60LS00315
104	SA60LS00240	134	SA60LS00281	164	SA60LS00317
105	SA60LS00241	135	SA60LS00282	165	SA60LS00318
106	SA60LS00242	136	SA60LS00283	166	SA60LS00319
107	SA60LS00243	137	SA60LS00285	167	SA60LS00320
108	SA60LS00245	138	SA60LS00286	168	SA60LS00321
109	SA60LS00246	139	SA60LS00287	169	SA60LS00322
110	SA60LS00247	140	SA60LS00288	170	SA60LS00323
111	SA60LS00248	141	SA60LS00290	171	SA60LS00325
112	SA60LS00249	142	SA60LS00291	172	SA60LS00326
113	SA60LS00251	143	SA60LS00292	173	SA60LS00327
114	SA60LS00252	144	SA60LS00293	174	SA60LS00328
115	SA60LS00255	145	SA60LS00295	175	SA60LS00329
116	SA60LS00257	146	SA60LS00296	176	SA60LS00330
117	SA60LS00258	147	SA60LS00297	177	SA60LS00331
118	SA60LS00259	148	SA60LS00298	178	SA60LS00333
119	SA60LS00260	149	SA60LS00299	179	SA60LS00335
120	SA60LS00261	150	SA60LS00300	180	SA60LS00336
121	SA60LS00262	151	SA60LS00301	181	SA60LS00337
122	SA60LS00263	152	SA60LS00302		----- END -----
123	SA60LS00265	153	SA60LS00303		
124	SA60LS00267	154	SA60LS00305		
125	SA60LS00268	155	SA60LS00306		
126	SA60LS00269	156	SA60LS00307		
127	SA60LS00270	157	SA60LS00308		
128	SA60LS00271	158	SA60LS00309		
129	SA60LS00272	159	SA60LS00310		
130	SA60LS00273	160	SA60LS00311		
131	SA60LS00275	161	SA60LS00312		
132	SA60LS00276	162	SA60LS00313		