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AK-Series and AP-Series Parts Manual

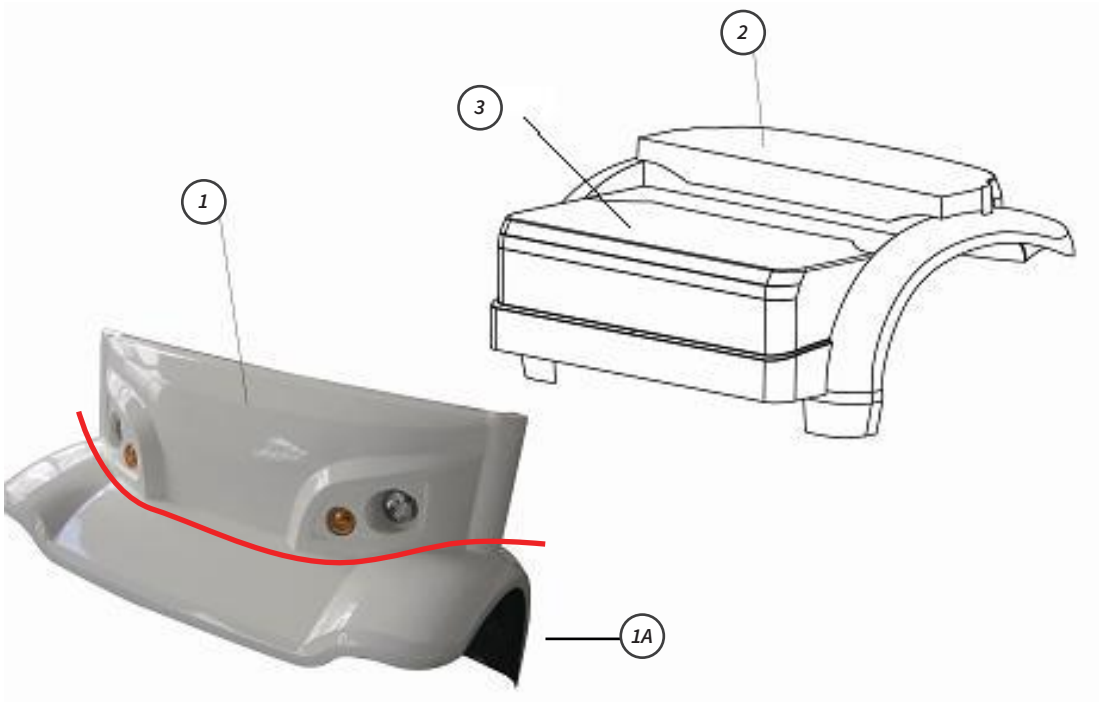
AP-Series: AP48-04-AC and AP48-06-AC

AK-Series: AK48-2-Std, AK48-2-Long, and AK48-4

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1-1 Front Body, Rear Body



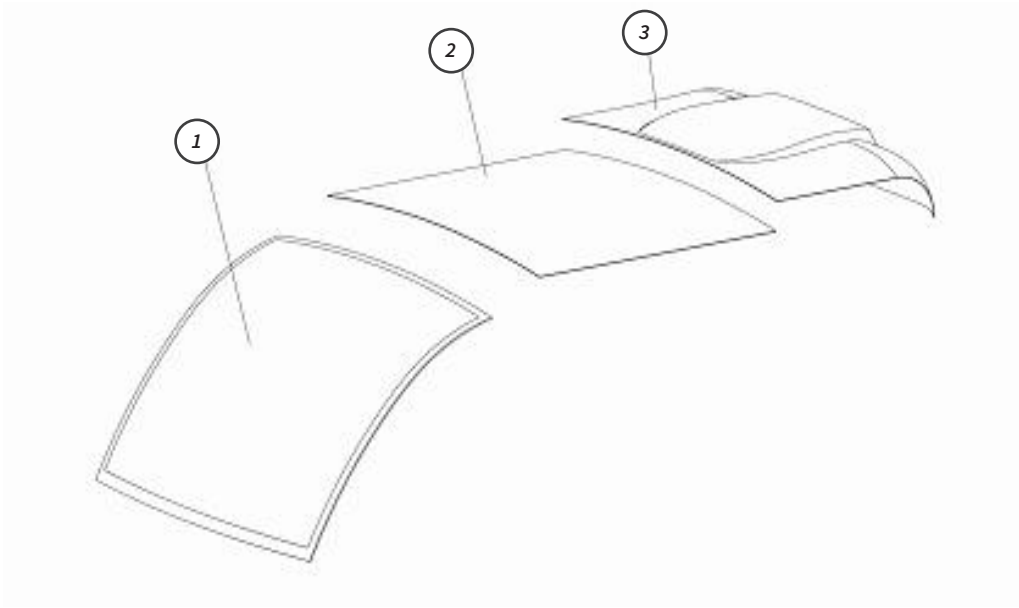
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2BO805	Front Body Plastic UPPER section (White)	AWI6042K-5101020A	1
1A	2BO806	Front Body Plastic LOWER section (White)	AW6042K-5101010A	1
2	2BY800	Rear body	AW6042K-5101020	1
3		Access plate for rear body	AW6042K-5101021	1

1-2 Dashboard



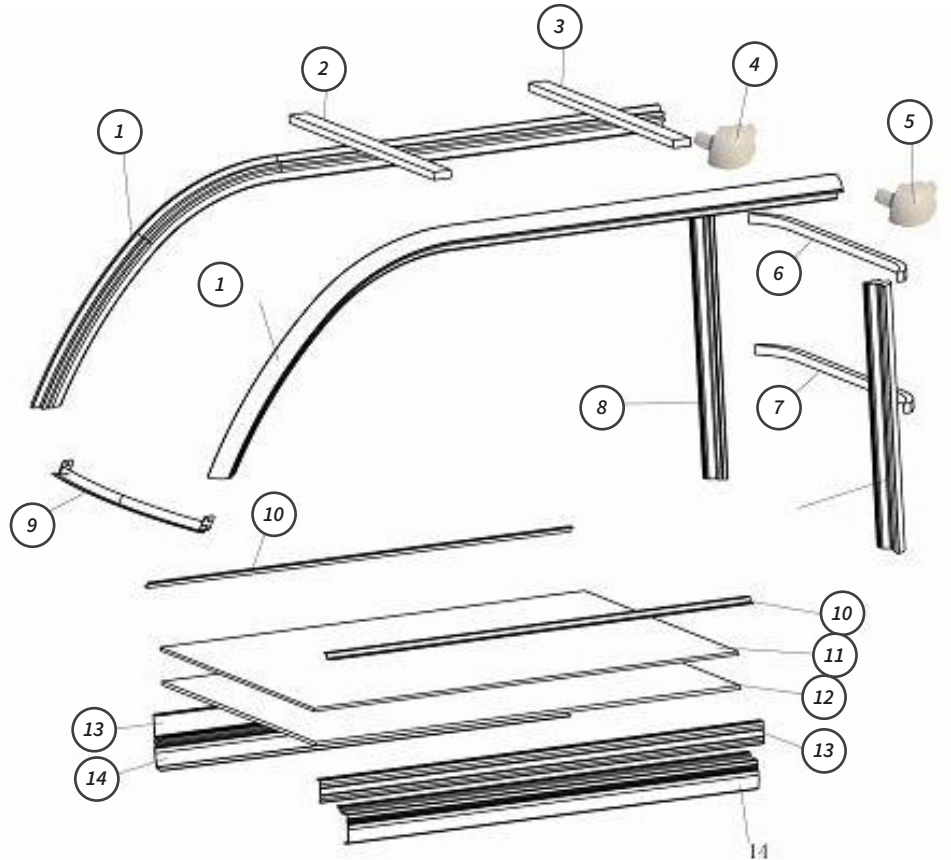
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2GV031	Storage box cover, Driver side	AW6042K-5101036	1
2	2GV032	Access handle	AW6042K-5101037	2
3	2GV033	Storage box, Driver side	AW6042K-5101038	1
3-1	2GV030	Storage box assembly	AW6042K-5101039	1
4	3GV041	Storage box cover RH	AW6042K-5101040	1
5	2GV043	Storage box RH	AW6042K-5101041	1
5-1	2GV040	Storage box assembly	AW6042K-5101035	1
6	2DB050	Dashboard	AW6042K-5101030	1
7	2DB850	Access panel on back of steering column	PL-001-002	1

1-3 Roof, Windshield



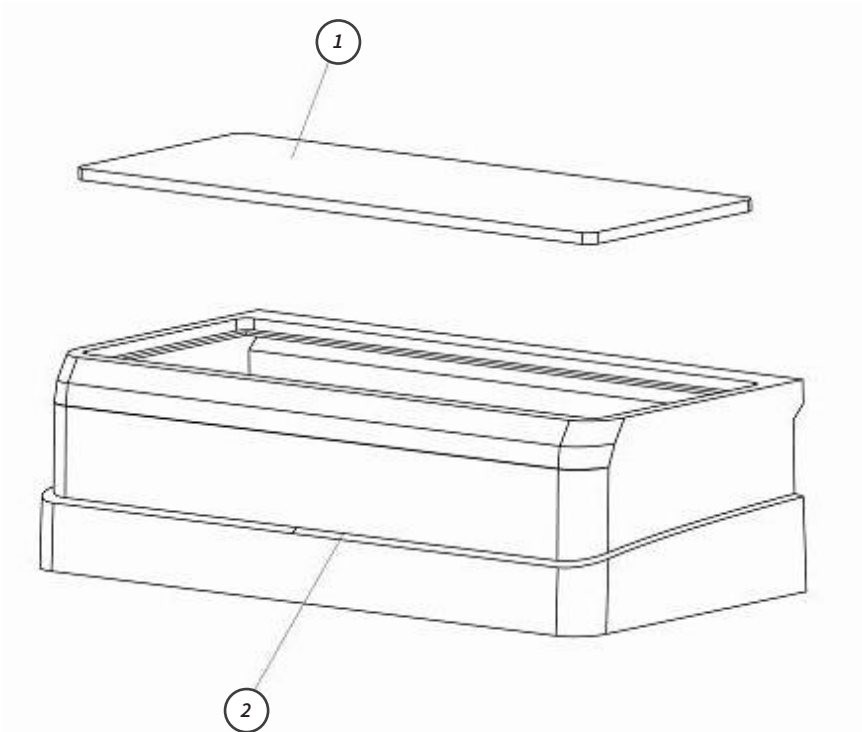
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2WS300	Front windshield	AW6042K-5101100	1
2		Fiber glass plate	AW6042K-5301060	1
3		Rear roof	AW6042K-5301070	1

1-4 Roof Support



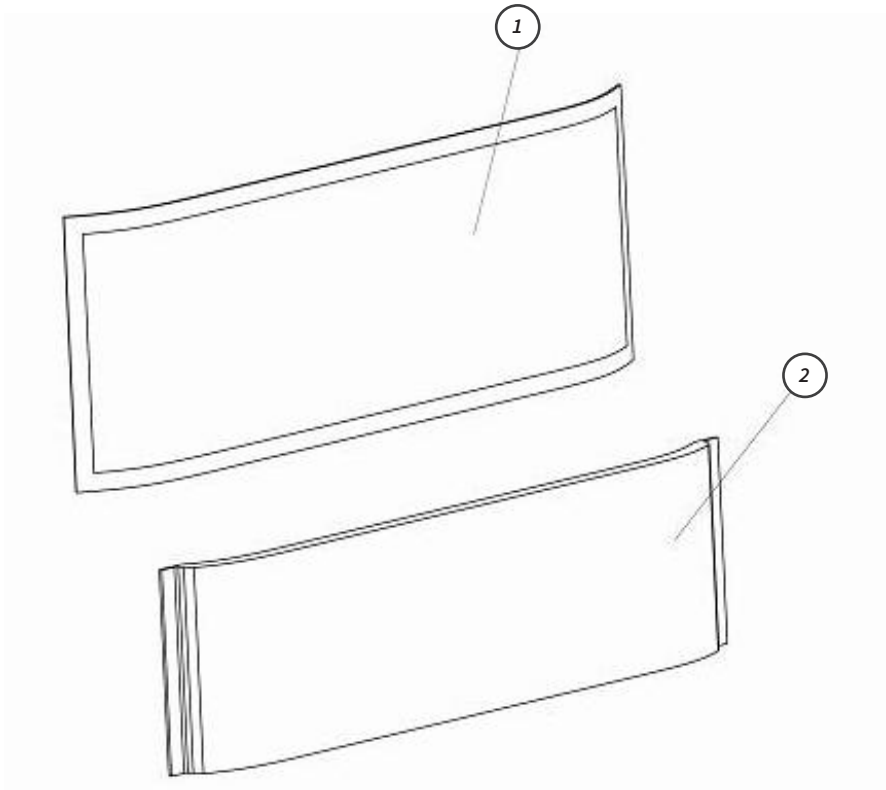
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Roof side beam, Driver side	AW6042K-5301010	1
1-1		Roof side beam (right)	AW6042K-5301020	1
2	2CD400	Roof connecting bar	AW6042K-5301030	1
3	2CD401	Roof connecting bar	AW6042K-5301031	1
4		Elbow, RH	AW6042K-5301032	1
5		Elbow, LH	AW6042K-5301033	1
6	2CD402	Rear connecting bar (upper)	AW6042K-5301034	1
7	2CD403	Rear connecting bar (lower)	AW6042K-5301035	1
8	2BK400	Rear roof support, Driver side or Passenger side	AW6042F-5500118	1
9		Front support	AW6042K-5301055	1
10		Side foot panel, Driver side	AW6042K-5401010	1
10-1		Side foot panel, Passenger side	AW6042K-5401011	1
11		Floor mat	AW6042K-5402010	1
12		Bamboo floor	AW6042K-5402050	1
14	2RP100	ROCKER PANEL-Driver or Passenger side AK & AP SHORT Series	AW60425502110-036	2
14	2RP101	ROCKER PANEL-Driver or Passenger side AK & AP LONG Series	AW60625502110-036	2
15		Aluminum connector	AW6142K-5301011	16
n/a	2RF330	Roof handle		

1-5 Seat Base



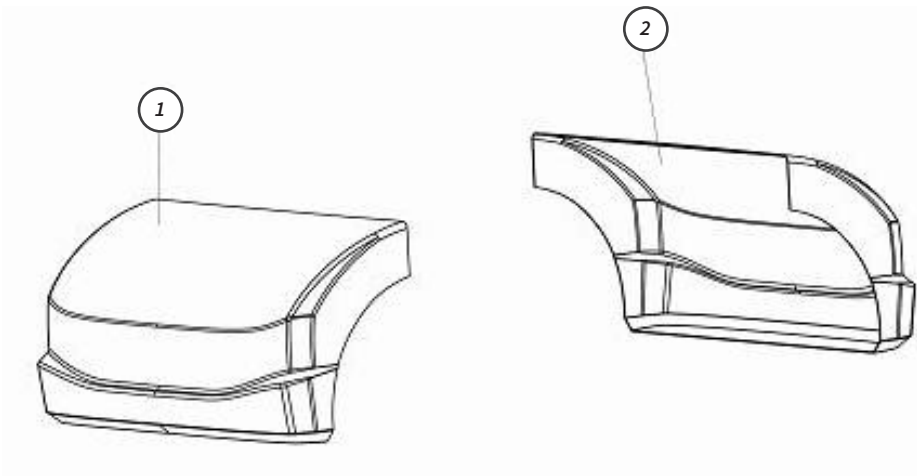
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2PS601	Access panel for front seat base	AW6042K-5201011	1
2	2PS600	Seat base	AW6042K-5201012	1

1-6 Rear Windshield



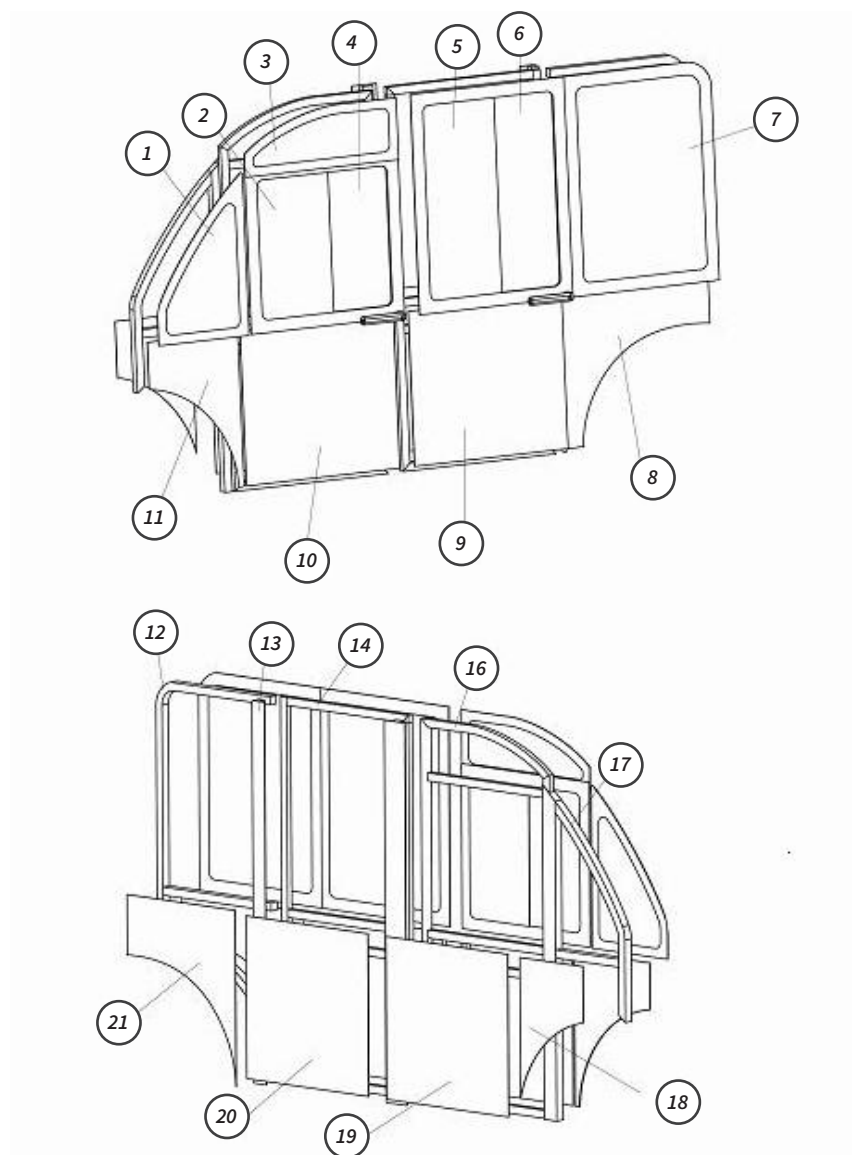
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2WD210	Rear windshield	AW6042K-5302010	1
2		Rear fiberglass panel	AW6042K-5302020	1

1-7 Bumper



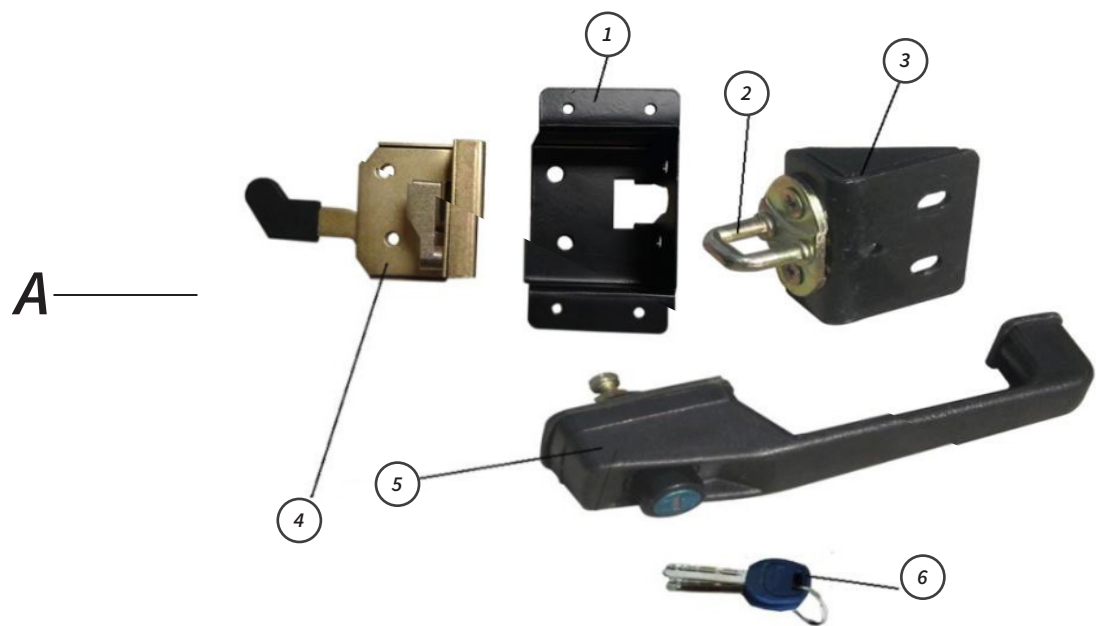
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2BU040	Front bumper	AW6042K-5101050	1
2	2BR570	Rear bumper	AW6042K-5101055	1
3	2BU041	Front bumper, steel	AW6042K-5101051	1
4	2BR571	Rear bumper, steel	AW6042K-5101056	1

1-8 Door



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2WD110	Triangle glass on front door, Driver side	AW6042F-5501011	1
	2WD120	Triangle glass on front door, Passenger side	AW6042F-5501012	1
2	2WD050	Glass of window on front door (front, Driver side)	AW6042F-5501013	1
	2WD060	Glass of window on front door (rear, Passenger side)	AW6042F-5501014	1
3	2WD130	Upper glass on front door, Driver side	AW6042F-5501019	1
4	2WD030	Glass of Window on front door (back, Driver side)	AW6042F-5501015	1
	2WD040	Glass of Window on front door (back, Passenger side)	AW6042F-5501016	1
4-1		Window assembly (Driver side) on front door	AW6042F-5501017	1
		Window assembly (Passenger side) on front door	AW6042F-5501018	1
5	2WD011	Glass of window on 2nd door (front, Driver side)	AW6042F-5501020	1
	2WD021	Glass of window on 2nd door (front, Passenger side)	AW6042F-5501021	1
5-1	2WD010	Window assembly (Driver side) on 2nd door	AW6042F-5501024	1
	2WD020	Window assembly (Passenger side) on 2nd door	AW6042F-5501025	1
6	2WD012	Glass of Window on 2nd door (back, Driver side)	AW6042F-5501022	1
	2WD022	Glass of Window on 2nd door (back, Passenger side)	AW6042F-5501023	1
7	2WD090	Fixed rear glass, Driver side	AW6042F-5501026	1
	2WD100	Fixed rear glass, Passenger side	AW6042F-5501027	1
8		Aluminum panel, Driver side	AW6042F-5501028	1
		Aluminum panel, Passenger side	AW6042F-5501029	1
9		Outer panel (Driver side) on 2nd door	AW6042F-5501030	1
		Outer panel (Passenger side) on 2nd door	AW6042F-5501031	1
10		Outer panel (Driver side) on front door	AW6042F-5501032	1
		Outer panel (Passenger side) on front door	AW6042F-5501033	1
11		Front triangle panel (Driver side)	AW6042F-5501034	1
		Front triangle panel (Passenger side)	AW6042F-5501035	1
12		Rear door frame (Driver side)	AW6042F-5501036	1
		Rear door frame (Passenger side)	AW6042F-5501037	1
17		Front door frame (Driver side)	AW6042F-5501038	1
		Front door frame (Passenger side)	AW6042F-5501039	1
18		Front inner triangle panel (Driver side)	AW6042F-5501040	1
		Front inner triangle panel (Passenger side)	AW6042F-5501041	1
19	2DO400	Inner panel (Driver or passenger side) on front door	AW6042F-5501042	2
20		Inner panel (Driver side) on 2nd door	AW6042F-5501044	1
		Inner panel (Passenger side) on 2nd door	AW6042F-5501045	1
21		Rear inner panel (Driver side)	AW6042F-5501046	1
		Rear inner panel (Passenger side)	AW6042F-5501047	1
n/a	2RF940	Roof Handle	AK6042K-5301012	
22	2WD131	Glass panel (Driver side) closest to rear windshield (AK)	AW6042F-5501026A	1
	2WD132	Glass panel (Passenger side) closest to rear windshield (AK)	AW6042F-5501027B	1

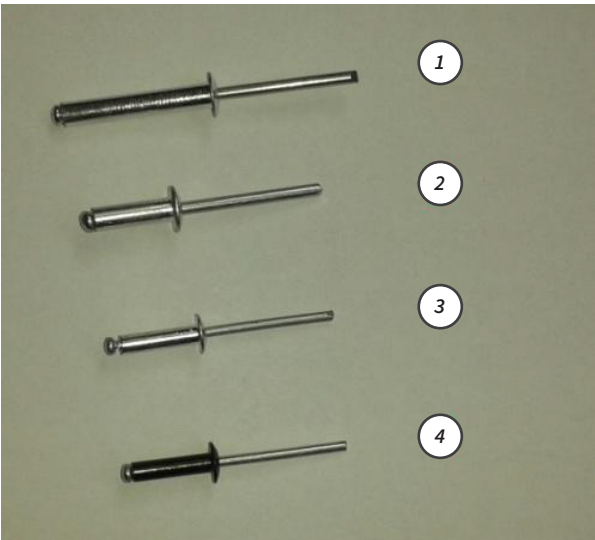
1-9 Door Lock



Assembly	STAR EV Part No.	Description	Qty
A	2DO025	Items 1-6	1

Item No.	STAR EV Part No.	Description	MPN	Qty
1	2DO090	Lock housing (Driver side)	AW6042F-5500114	1-3
	2DO100	Lock housing (Passenger side)	AW6042F-5500115	1-3
2	2DO030	Lock bolt	AW6042F-5500116	2-6
3	2DO020	Lock bracket	AW6042F-5500117	2-6
4	2DO060	Inside door handle (Driver side)	AW6042F-5500118	1-3
	2DO061	Inside door handle (Passenger side)	AW6042F-5500118	1-3
5	2DO022	Outside door handle (Driver or Passenger side)	AW6042F-5500121	1-3
6	2KY011	Key	AW6042F-5500120	1

1-9-1 Rivet



Item No.	STAR EV Part No.	Description	MPN	Qty
1		Rivet 5 x 30	AW6042F-5-30	1
2		Rivet 5 x 16	AW6042K-5-16	1
3		Rivet 4 x 16	AW6042K-4-16	1
4	2HD100	Rivet 4 x 16, black	AW6042K-4-16B	1

1-10 Seat and Bracket



Item No.	STAR EV Part No.	Description	MPN	Qty
1-1	2CS370	Front seat (including 1, 2,3,4)	AW6042K-6801000	1
1	2CS371	Headrest	AW6042K-6801010	4
2	2CS372	Armrest (Driver side)	AW6042K-6801015	2
	2CS373	Armrest (Passenger side)	AW6042K-6801016	2
3	2CS374	Seat bracket	AW6042K-6801020	2
4	2CS369	Seat bottom	AW6042K-6801030	4
5	2CP050	Rear cup holder	AW6042K-5001048	1
6	2CS375	Second seat assembly (including 1, 2, 3,4), this is also for 3rd seat of AP48-06	AW6042K-6802000	1
7	2CS376	Single seat (Driver side) for 2nd and 3rd seat of AP48-04-AC-L-ambulance. Armrest on the left side.	AW6142K-6101000LH	1
8	2CS377	Single seat (Passenger side) for 2nd and 3rd seat of AP48-04-AC-L-ambulance. Armrest on the right side.	AW6142K-6101000RH	1
9	2SB200	2-point seat belt	AW6042K-6801051	
10	2SB210	3-point seat belt	AW6042K-6801052	

1-11 Side Mirror



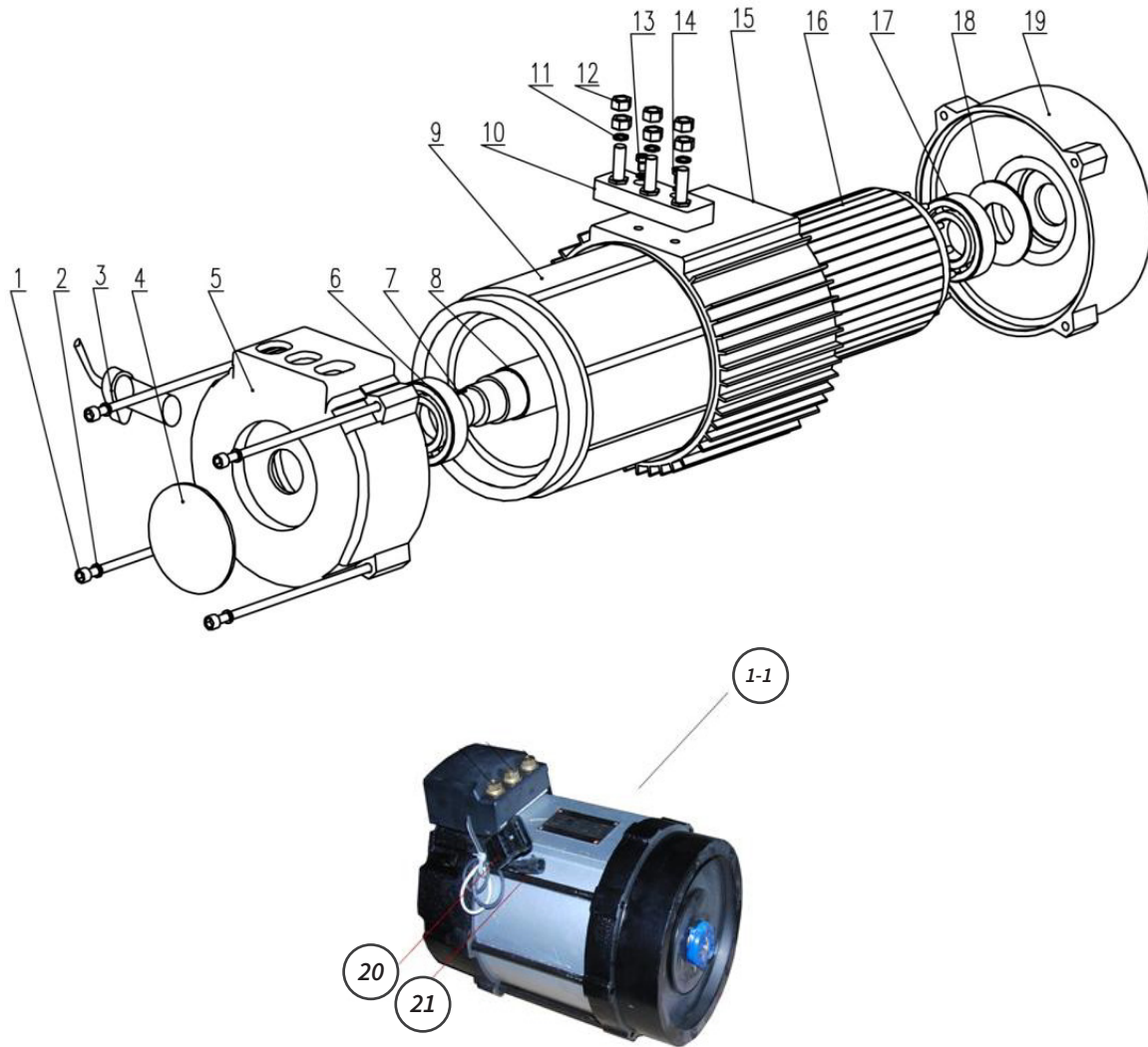
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Glass (Driver side)	AW6142-8202011	1
		Glass (Passenger side)	AW6142-8202012	1
2		Plastic housing	AW6142-8202013	2
4		Mounting bracket (Driver side)	AW6142-8202015	1
		Mounting bracket (Passenger side)	AW6142-8202016	1
5	2MR510	Mirror - OEM (Driver) for AK/AP Series	AW6142-8202010	1
	2MR515	Mirror - OEM (Passenger) Side AK/AP Series	AW6142-8202020	1
		Mount of rear view mirror (Driver side)	AW6142K-8101011A	1
		Mount of rear view mirror (Passenger side)	AW6142K-8101010A	1

1-12 Rear Trunk



Item No.	STAR EV Part No.	Description	MPN	Qty
1		Trunk cap	AW6042K-5001043	1
2		Rear Trunk body	AW6042K-5001042	1
	2TK123	Trunk lock	AW6042K-5001044	1
	2KY012	Key for trunk	AK6042K-5001045	1
		Hinge for trunk	AW6042K-5001015	2
	2TK120	Trunk assembly	AW6042K-5001010	1

2-1 Motor Assembly



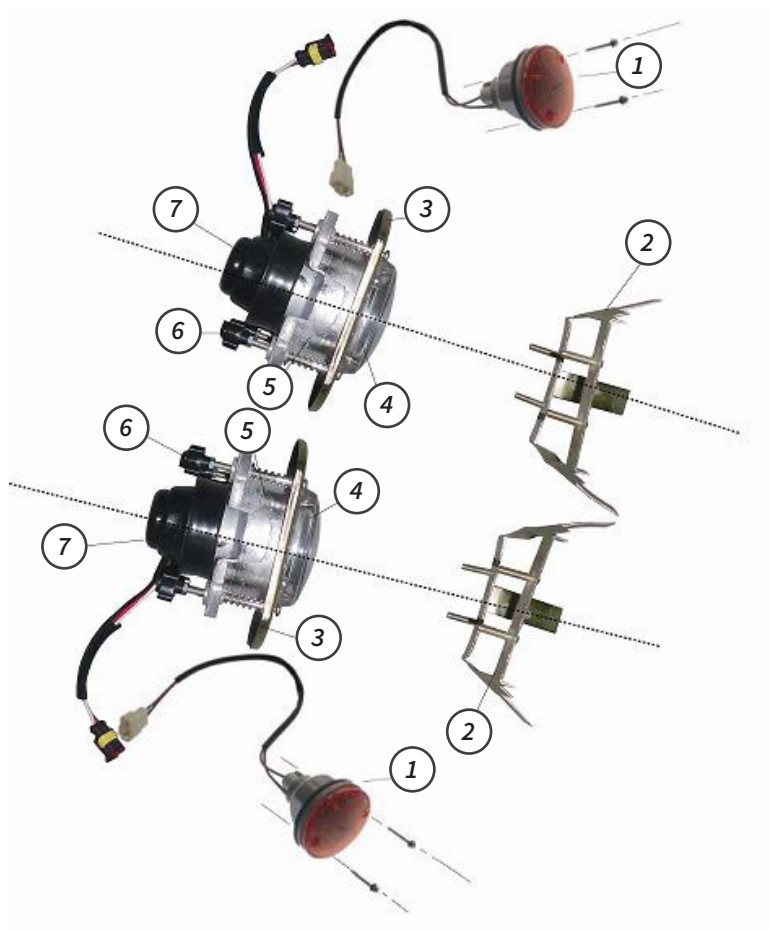
Item No.	STAR EV Part No.	Description	MPN	Qty
A.1	2MO390	48 V Motor, AC 5 kW, used on 2RE210	AW6042K-3706100	1
A.2	2MO340	72 V Motor, AC 7 kW, used on 2RE215	AW6142K-3706100	
1		Bolt		4
2		Washer		1
3	2MO301	Encoder (speed sensor), outside*	AW6042K-3706110	1
4		End cover	AW6042K-3706121	1
5		End housing	AW6042K-3706122	1
6		Bearing		1
6	2MO300	Bearing-type speed sensor (inside motor)**	AW6042K-3706110A	1
7		Flat key		1
8		Shaft	AW6042K-3706131	1
9		Stator	AW6042K-3706132	1
10		Terminal	AW6042K-3706133	1
11		Washer		1
12		Nut		1
13		Washer		1

14		Bolt		1
15		Aluminum housing	AW6042K-3706120	1
16		Aluminum rotor	AW6042K-3706134	1
17		Bearing		1
18		Spring washer	AW6042K-3706123	1
19		Front housing	AW6042K-3706124	1
20		Speed encoder port	AW6042K-3706111	1
21		Temperature sensor port	AW6042K-3706111	1

*All vehicles manufactured after June 2014.

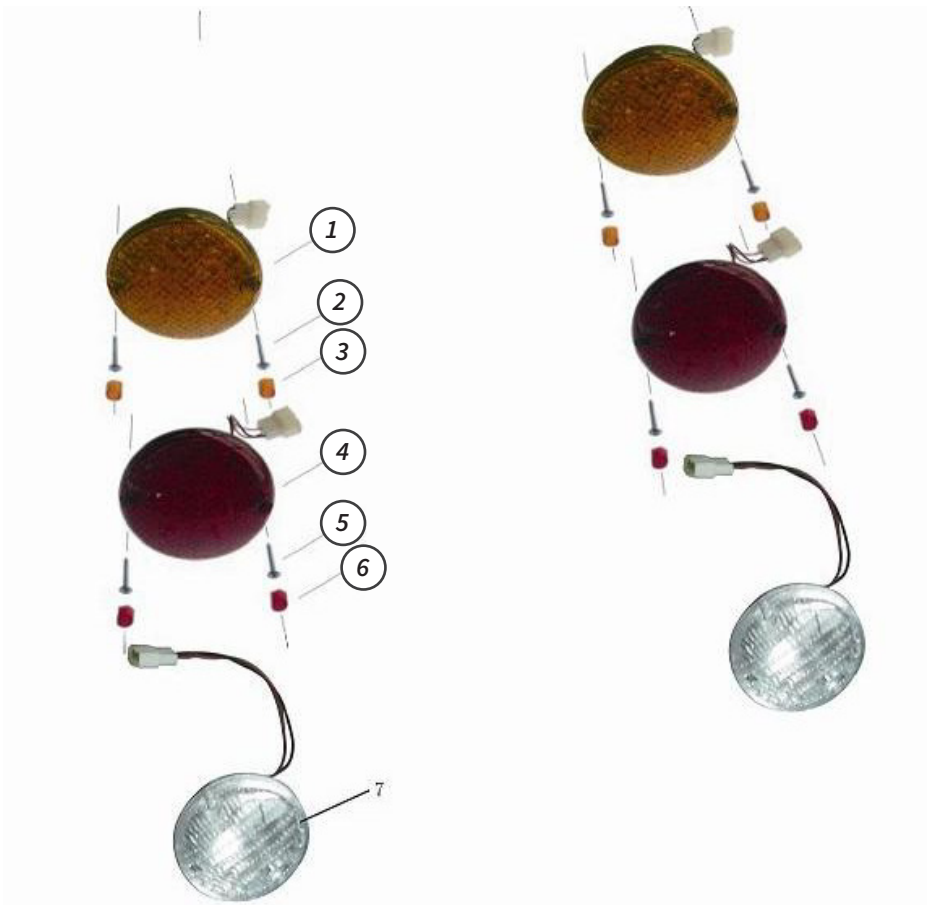
**All vehicles manufactured before June 2014.

2-2 Turn Signal Light, Headlight



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2LT220	Front Turn signal assembly	AW6042K-3701010	2
2		Headlight bracket (mounted onto the front body)	AW6042K-371022	2
3		Headlight bracket (mounted onto the headlight)	AW6042K-371021	2
4		Light lens	AW6042K-3701023	1
5		Light body	AW6042K-3701024	1
6		Adjusting handle	AW6042K-3701025	4
6		Rear protection cover	AW6042K-3701026	1
7	2LT215	Headlight assembly (including 3-7)	AW6042K-3701020	2
	2LB151	Bulb of headlight	AW6042K-3701027	2
	2LB152	Bulb of front turn signal	AW6042K-3701028	2

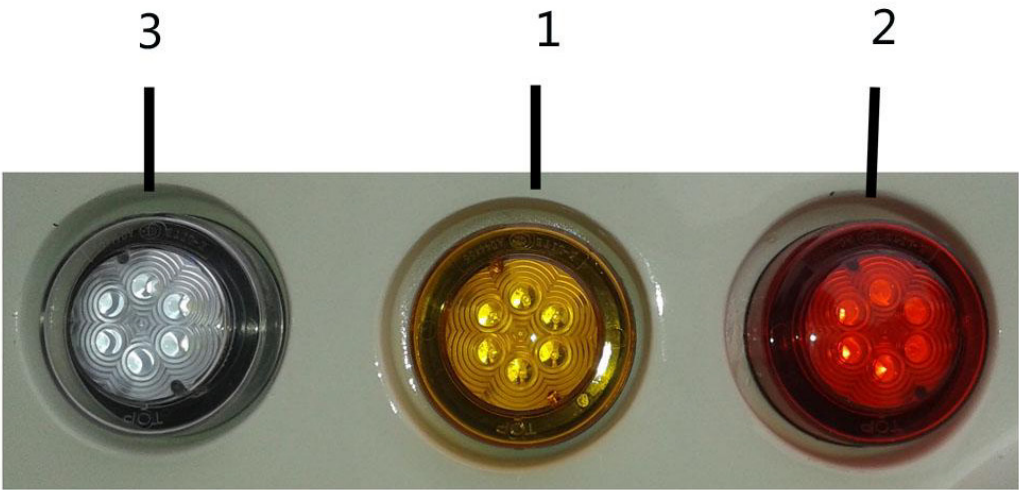
2-3a Rear Turn Signal Light, Taillight (Normal Bulb)**



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2LT221	Rear turn signal light (orange)	AW6142K-3701030	2
4	2LT205	Rear brake light (red)	AW6142K-3701040	2
7	2LT210	Rear reverse light (clear)	AW6142K-3701050	2
	2LB160	Bulb for rear turn signal light	AW6142K-3701030A	2
	2LB130	Bulb for rear brake light	AW6142K-3701040A	2
	2LB140	Bulb for rear reverse light	AW6142K-3701050A	2

**All models before mid-2014.

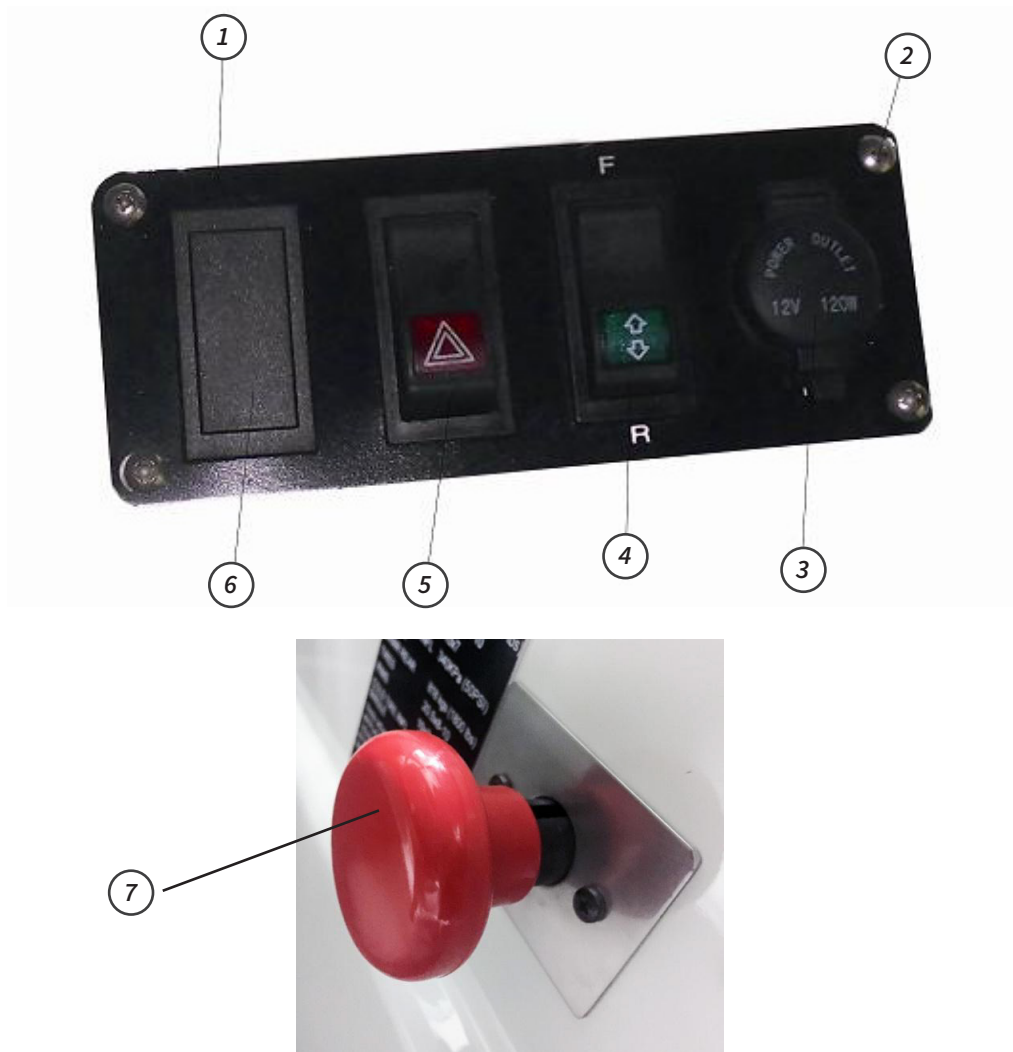
2-3b Rear Turn Signal Light, Taillight (LED)**



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2LT222	Rear turn signal light, LED (orange)	AW6142K-3701031	2
2	2LT204	Rear brake light, LED (red)	AW6142K-3701041	2
3	2LT209	Rear reverse light, LED (clear)	AW6142K-3701051	2

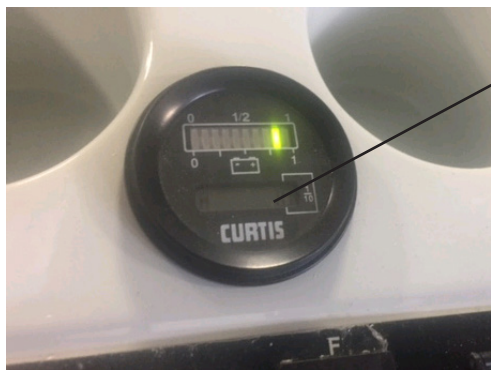
**All models after mid-2014.

2-4 Switch Panel



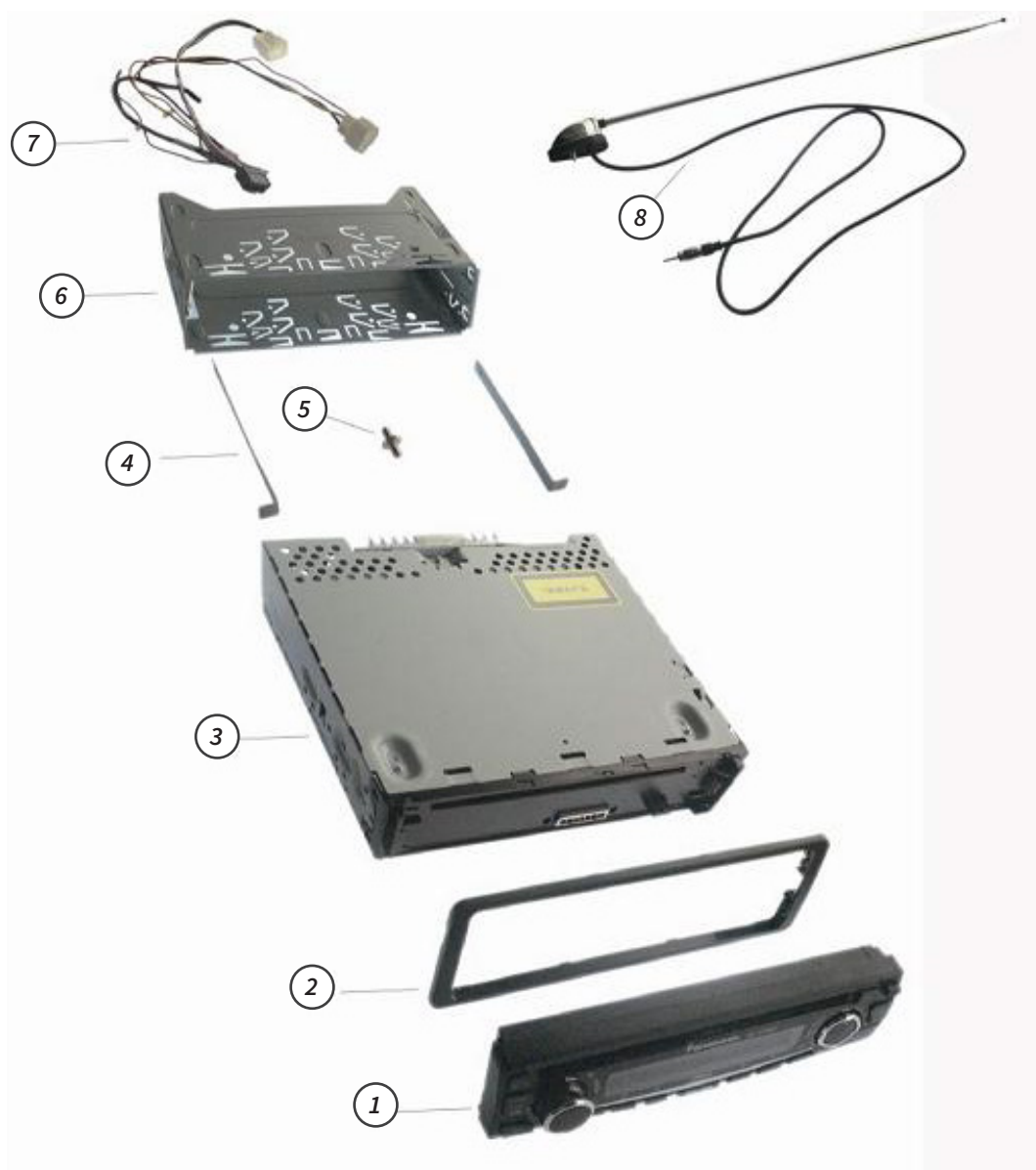
Item No.	SPN	Description	MPN	Qty
1	2DC115	Switch panel	AW6142K-3702010	1
2		Screw		4
3	2RC010	12V plug	AW6142K-3702015	1
4	2SW440	Forwards/Reverse switch	AW6142K-3702020	1
5	2SW180	Emergency switch	AW6142-3702025	1
6		Spare place for more switches	AW6142K-3702030	1
7	2SW181	Emergency stop button/knob	AK6142K-3702031	1

2-5 Meter



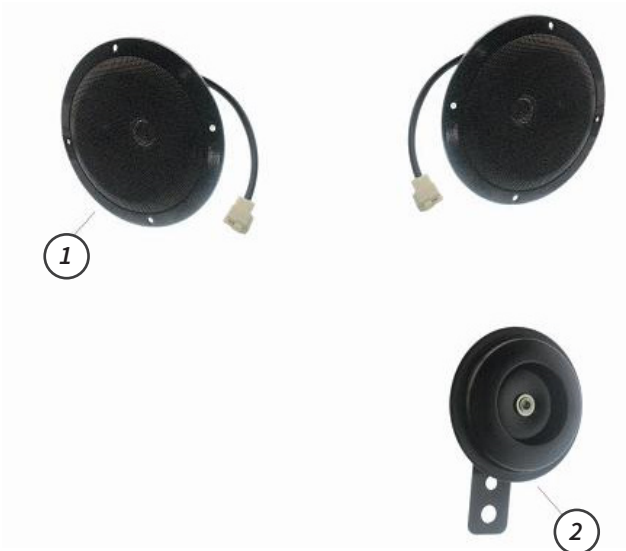
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Digital meter (48 V), mph (Obsolete: replacement 2MT420, item 2-B compatible)		1
2-A	2MT421	Digital meter (48 V), km/h	AW6042-3702042	1
2-B	2MT420	Digital meter (48 V), mph	AW6042-3702042	1
3	2MT401	Hour meter	AW6042-3702041	1

2-6 CD Player / Radio



Item No.	STAR EV Part No.	Description	MPN	Qty
1		Control panel	AW6142K-3702051	1
2		Decoration trim	AW6142K-3702052	1
3		Body of CD	AW6142K-3702053	1
4		Strip	AW6142K-3702054	2
5		Threaded rod	AW6142K-3702055	1
6		Installation frame	AW6142K-3702056	1
7		Import /export wire	AW6142K-3702057	1
8	2RD051	Wire antenna	AW6142K-3702058	1
9	2RD010	CD assembly	AW6142K-3702050	1

2-7 Speaker



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2RD050	Loudspeaker	AW6142K-3702060	2
2	2SW220	Electric horn	AW6142K-3702070	1

2-8 Steering Column



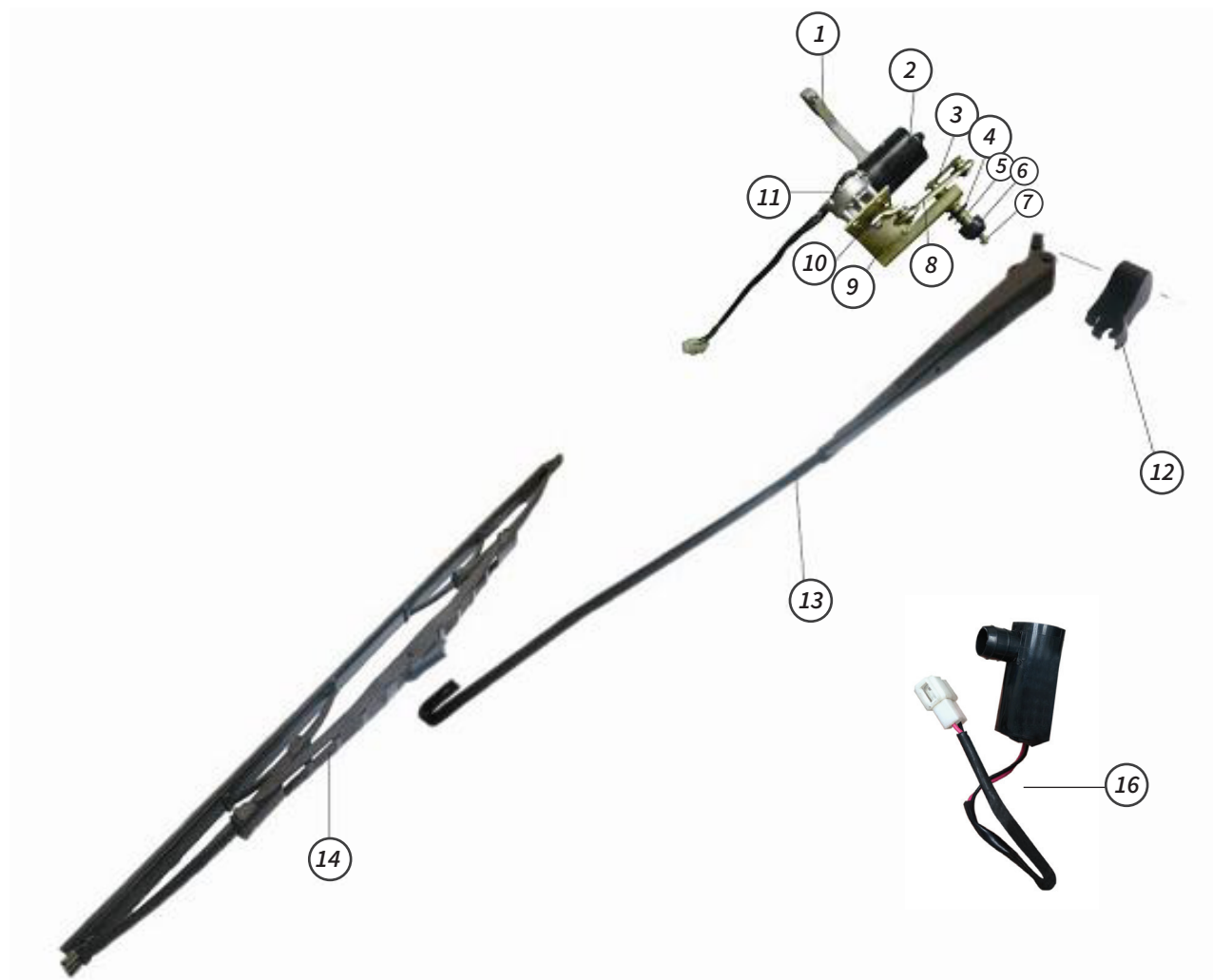
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Adjustment handle	AW6142K-3404011	1
2		Sleeve of steering column	AW6142K-3404012	1
3		Bolt		1
4		Adjustment link	AW6142K-3404014	1
5		Upper cam shaft	AW6142K-3404015	1
6		Washer	AW6142K-3404016	1
7		Fixing bracket	AW6142K-3404017	1
8		Lower cam shaft	AW6142K-3404018	1
9		Washer		1
10		Nut		1
11		Spring washer		1
12		Flat washer		1
13	2ST254	Steering column	AW6142K-3404023	1
14		Sleeve of Steering column	AW6142K-3404024	1
16		Fixation bracket	AW6142K-3404026	1
17		Connecting body	AW6142K-3404027	1
20	2ST255	Lower steering shaft	AW6042K-3404030	1
21	2SW270	Power key	AW6142K-3404031	1
22		Plastic sleeve	AW6142K-3404032	1
23	2KY010	Key for ignition	AW6142K-3404033	1

2-9 Combination Switch



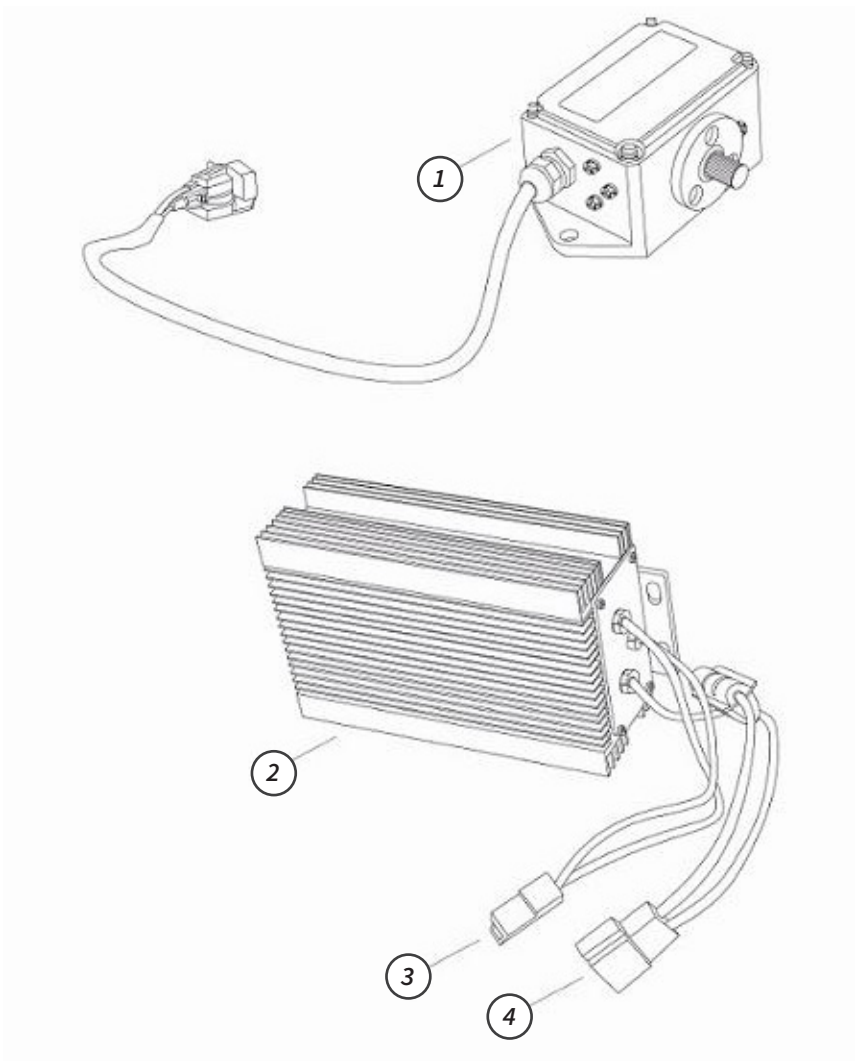
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Switch handle for wiper and electric horn	AW6142K-3703101	1
2		Switch handle for light	AW6142K-2703105	1
3	2SW360	Switch assembly	AW6142K-3703100	1

2-10 Wiper Assembly



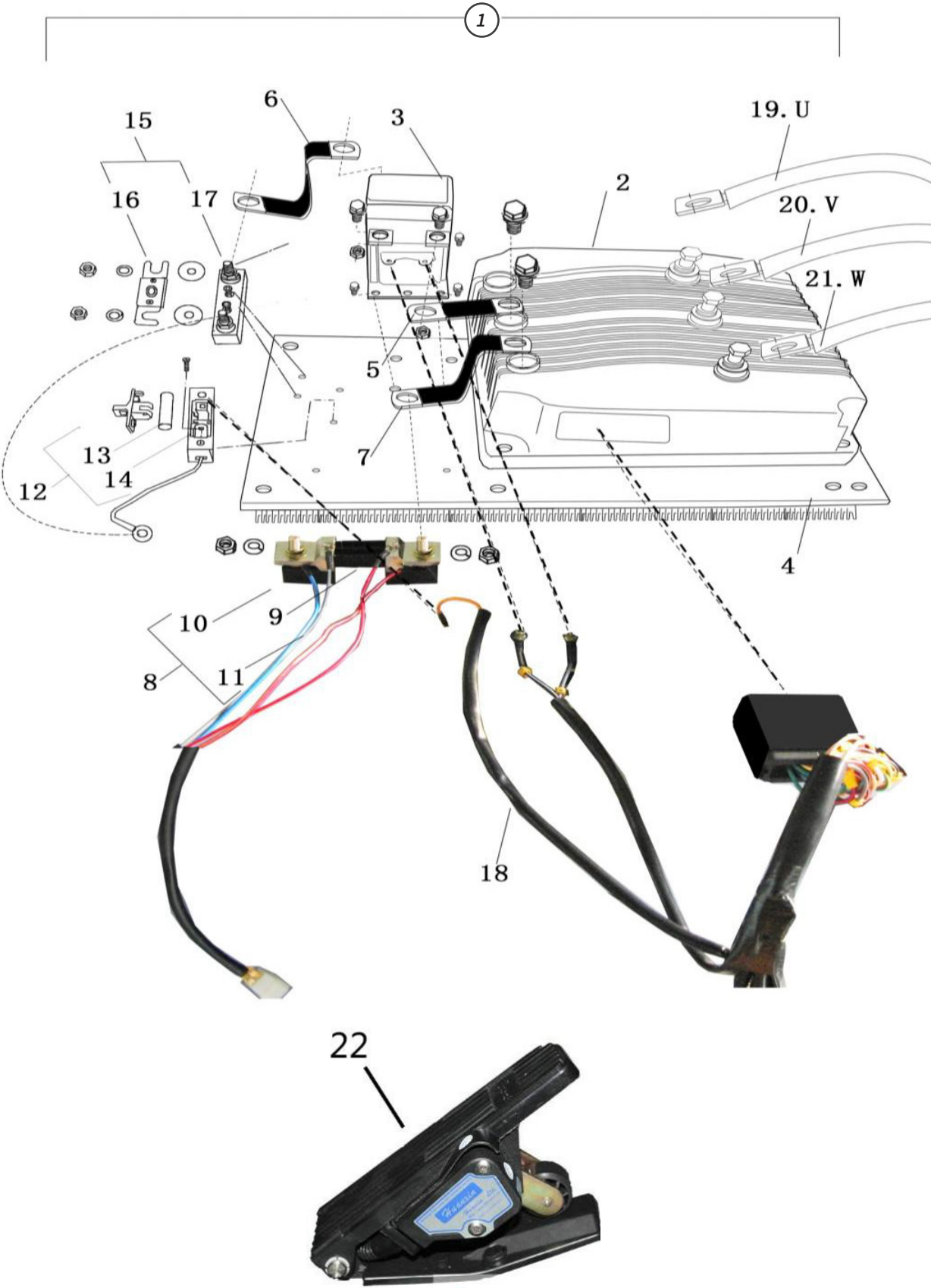
Item No.	STAR EV Part No.	Description	MPN	Qty
2	2WP040	Wiper motor	AW6042K-3703201	1
3		Swing arm	AW6042K-3703202	1
4		Washer	AW6042K-3703203	1
5		Sleeve	AW6042K-3703204	1
6		Protection sleeve	AW6042K-3703205	1
7		Nut		1
8		Linkage	AW6042K-3703207	1
9		Bracket of wiper motor	AW6042K-3703208	1
10		Swing arm of motor	AW6042K-3703209	1
11		Cover	AW6042K-3703210	1
12	2WP044	Outer cover	AW6042K-3703211	1
13	2WP033	Wiper arm	AW6042K-3703212	1
14	2WP031	Wiper brush	AW6042K-3703213	1
15	2WP030	Wiper Assembly (including 1-14)	AW6042K-3703200	1
16	2WP035	Wiper Fluid Spray MOTOR- Wiper for AK & AP	AW6042K-3703214	1

2-11 DC-DC Converter, Accelerator



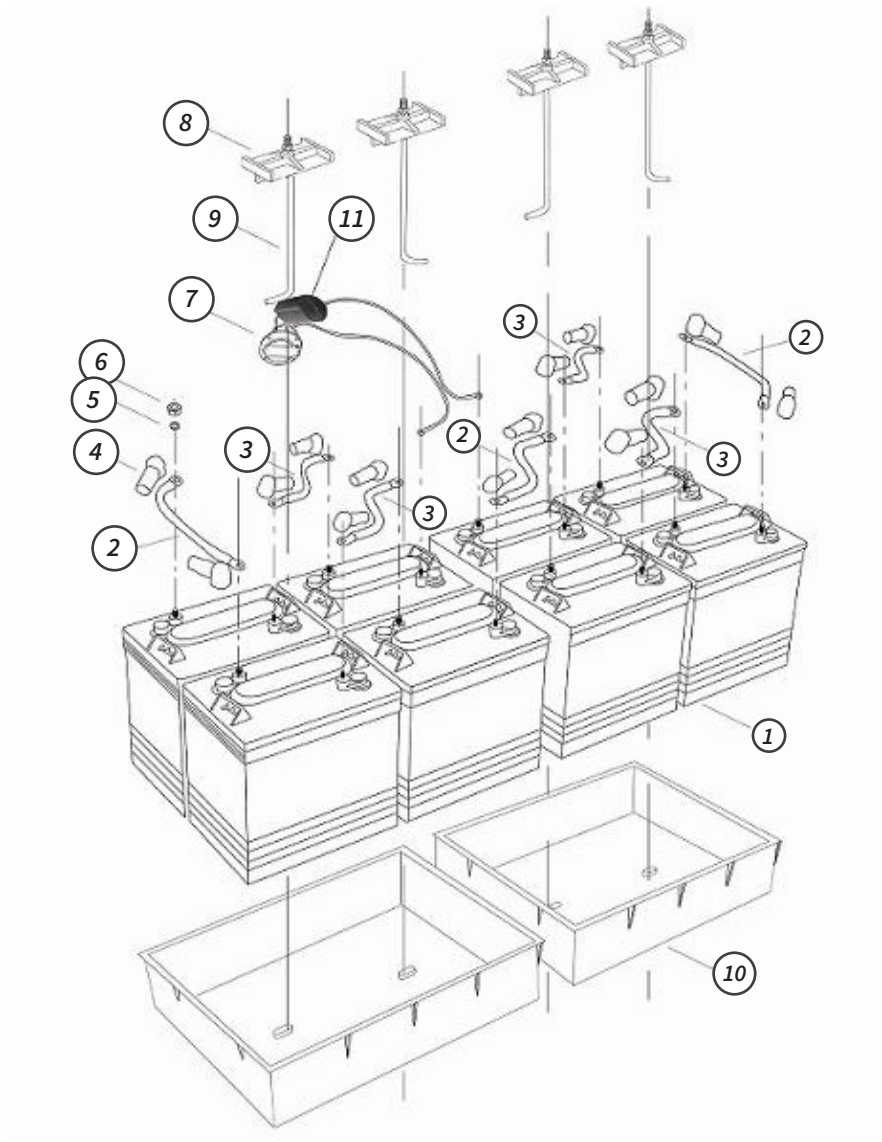
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Accelerator for DC system	AW6142K-3704100	1
2	2CV120	DC-DC converter	TDC-4812EA	1
3		To 48V in	AW6142K-3704101	1
4		To 12V out	AW6142K-3704102	1

2-12 1236 Controller



Item No.	STAR EV Part No.	Description	MPN	Note	Qty
1		Controller Assembly	AW6042K-3707300		1
2	2CN190	Controller	AW6042K-3707301	1236-5401 450A	1
3	2SO110	Main Contactor	AW6042K-3707309	48 V	1
4	2CN951	Aluminum Panel	AW6042K-3707302	With heat sink	1
5	2CN977	Converging Line 1	AW6042K-3707311	Controller B+ to Main Contactor	1
6	2CN978	Converging Line 2	AW6042K-3707311	Main Contactor to Main Fuse	1
7	2CN979	Converging Line 3	AW6042K-3707311	Controller B- to Shunt	1
8		Shunt Assembly	AW6042K-3707320		1
9	2RL045	Shunt	AW6042K-3707321	FL-2/300A	1
10	2CL046	Shunt Base	AW6042K-3707322		1
11 (and 18)	2CN995	Shunt Harness (comes assembled: includes No. 18)	AW6042K-3707323	11 and 18 assembly	1
12	2FU121	Fuse Assembly (items 13 + 14)	F26-RT14		1
13	2FU150	Fuse	1005410-001S	10A	1
14		Fuse Base	AW6042K-3707332		1
15	2FU404	Main Fuse Assembly (items 16 + 17)	AW6042K-3707333		1
16	2FU170	Main Fuse	2102601010000	400A	1
17	2FU174	Main Fuse Base	AW6042K-3707335		1
18 (and 11)	2CN995	Controller Transfer Wire Harness (comes assembled: includes No. 11)	AW6042K-3707315	11 and 18 assembly	1
19		Motor Cable-U			1
20		Motor Cable-V			1
21		Motor Cable-W			1
22	2AC100	Accelerator for AC system	AW6142K-3704100AC		1

2-13 Battery



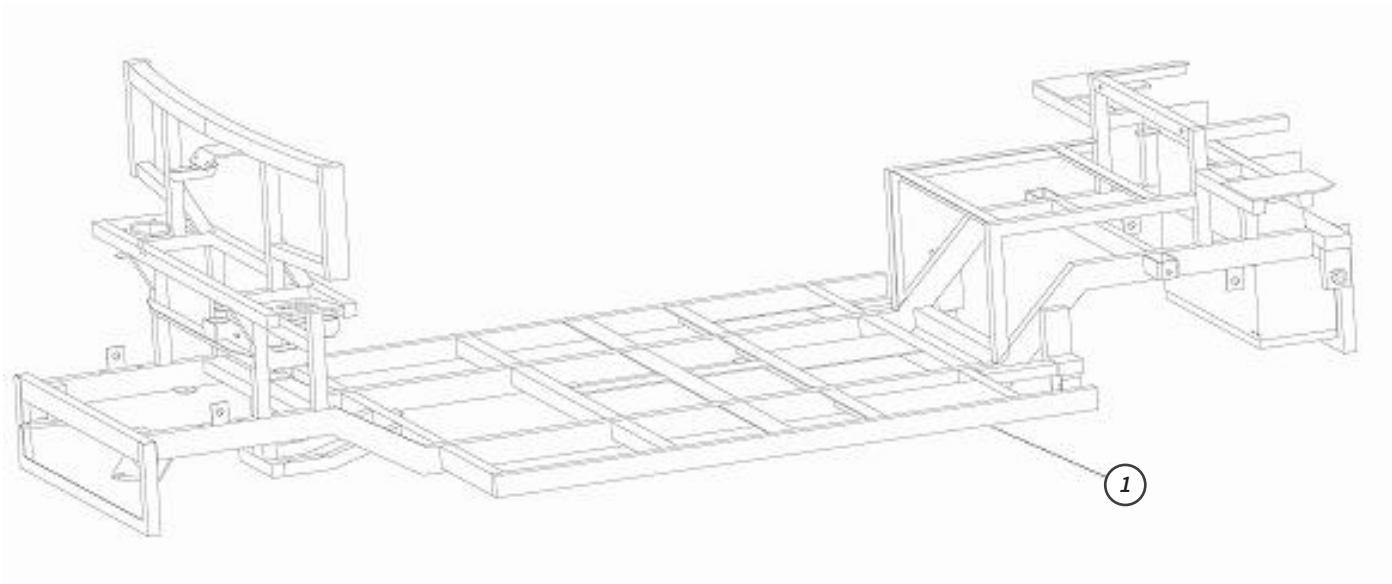
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Battery	AW6142K-3704300	8
2		Connect wire	AW6042K-3701050	2
3		Connect wire	AW6042K-3701055	6
4		Binding post jacket	AW6142K-3701056	12
5		Gasket spring M8		16
6		British system nut 5/16-8		16
7	2RC060	Charger harness assembly	AW6042K-3701100	1
8	2BT024	Battery impact block	AW6142K-3704057	4
9	2BT043	Battery dead lever	AW6142K-3704058	2
10	2BT340	Battery box	AW6142K-3704059	2

2-14 Alarm Lamp, Electric Siren



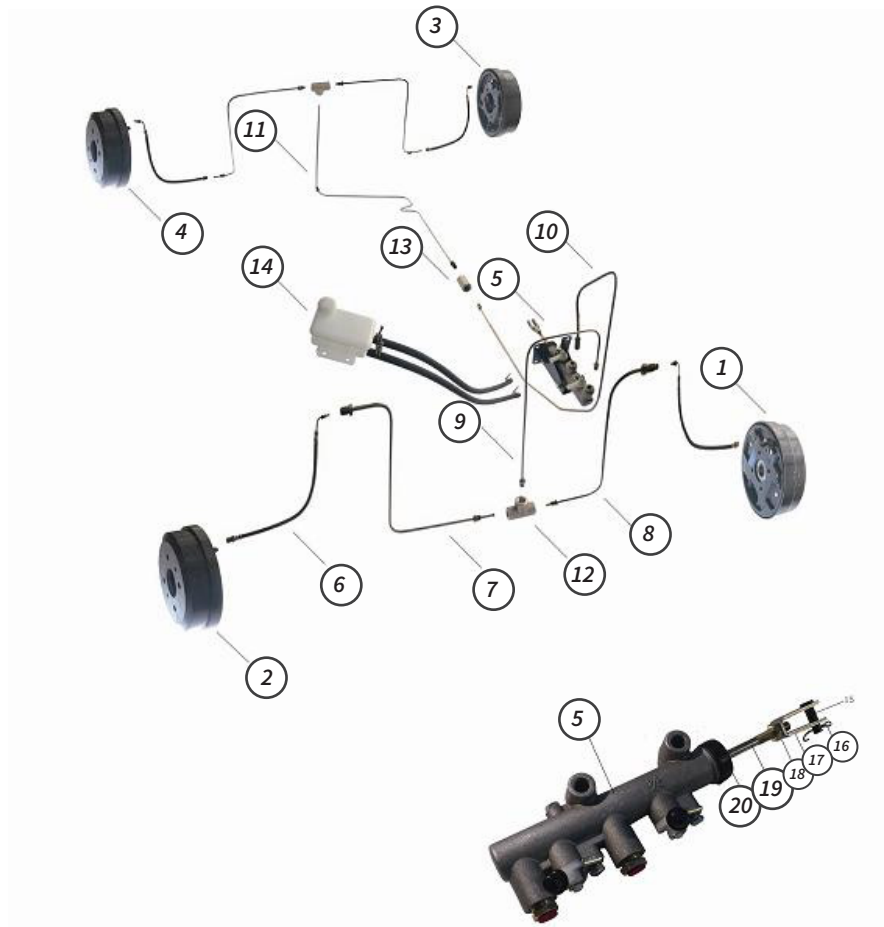
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2LT200	Alarm Lamp	AW6042K-3701200	1
2		Self-tapping screw		4
3	2RD030	Control panel of alarm lamp	AW6042K-3701202	1
4	2RD000	Microphone	AW6042K-3701203	1
5		Hook	AW6042K-3701204	1
6		Self-tapping screw		2

3-1 Frame Assembly



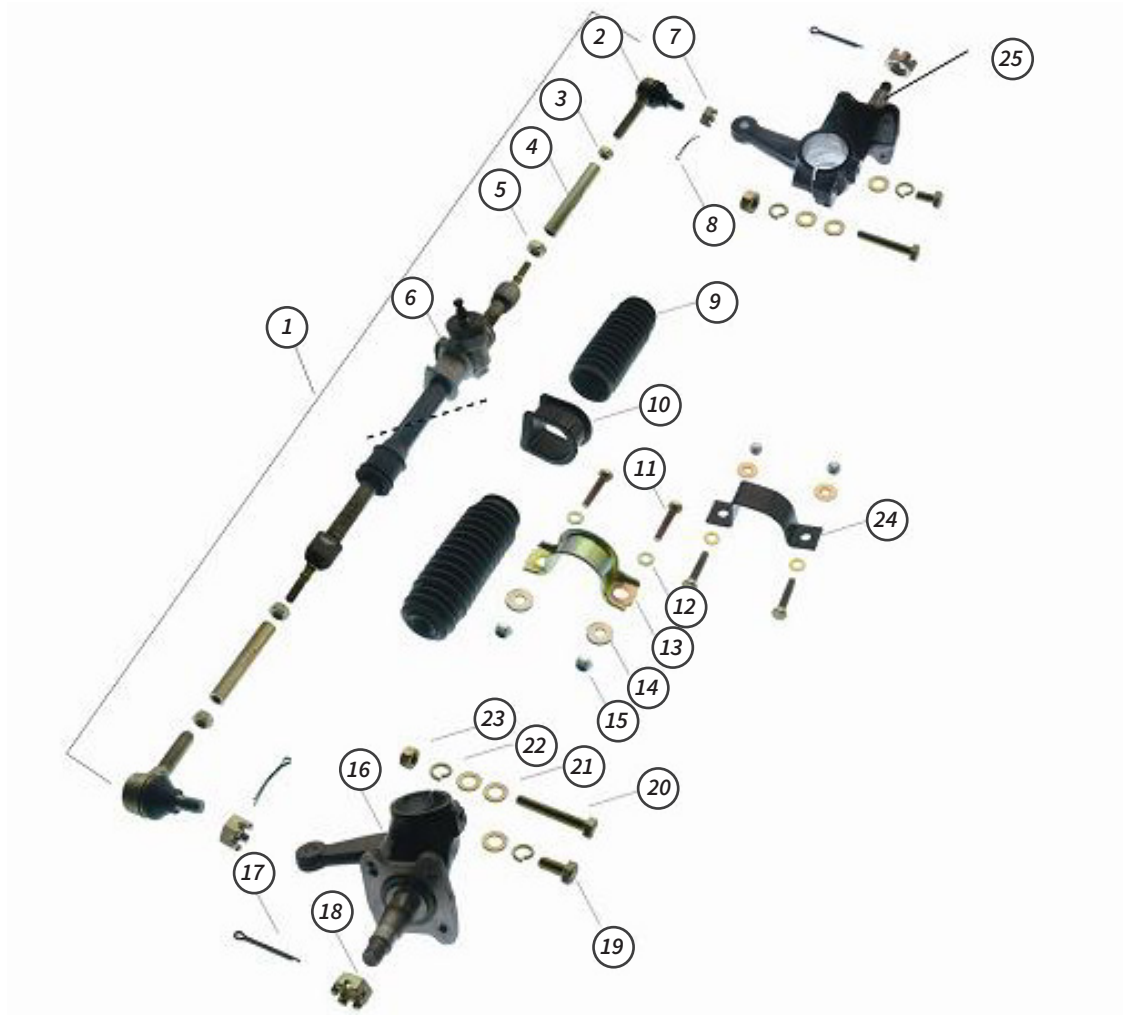
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Frame assembly	AW6042K-2800000 AW6042K-2800000	1

3-2 Master Cylinder and Brake Pipe



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2DR40	Front drum	2801310-005	1
	2BP026	Front driver side backing plate assembly	2801100-005	1
2	2DR040	Front drum	2801310-005	1
	2BP027	Front passenger side backing plate assembly	2801200-005	1
3	2DM130	Rear drum	WJ110-3502A110	1
	2BP028	Rear driver side backing plate assembly	HX8020-3502300	1
4	2DM130	Rear drum	WJ110-3502A110	1
	2BP029	Rear passenger side backing plate assembly	HX8020-3502400	1
5	2MC030	Master cylinder with piston	AW6142K-3501010	1
6	2TB100	Brake pipe, 600 mm flexible hose	AW6142K-3506035	2
7		Brake pipe	AW6142K-3506036	2
8		Brake pipe	AW6142K-3506037	2
9		Brake pipe	AW6142K-3506038	1
10		Brake pipe	AW6142K-3506039	1
11		Brake pipe	AW6142K-3506040	1
12	2TB080	Three-way valve	AW6142K-3506070	2
13	2TB070	2-way valve	AW6142K-3506080	1
14	2TB150	Tank for brake liquid Assembly	AW6142K-3506010	1

3-3 Redirector Assembly



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2ST530	Redirector assembly	AW6042K-3401200	1
2	2ST625	Ball joint / connector for redirector on AK&AP Series	AW6042K-3401201	2
3		Nut M14		2
4	2ST626	Rods for redirector on AK & AP Series	AW6042K-3401202	2
5		Nut M12		2
6		Steering gear housing	AW6042K-3401210	1
7		Slotted nut M12		2
8		Split pin 2.5×20		2
9		Dustproof cover	AW6042K-3401203	2
10		Left bracket bush	AW6042K-3401204	1
11		Bolt M8×40		4
12		Gasket M8		4
13		Right bracket of redirector	AW6042K-3401205	1
14		Big gasket M8		4
15		Self-lock nut M8		4
16	2SP210	Left knuckle	AW6142K-3402010	2
17		Split pin 4×40		2

18		Slotted nut M16		2
19		Bolt M10×20		2
20		Bolt M10×60		2
21		Gasket M10		6
22		Gasket spring M10		4
23		Nut M10		2
24		Left bracket of redirector	AW6042K-3401206	1
25	2SP211	Right knuckle	AW6142K-3402020	1

3-4 Steering Wheel Assembly



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2SL040	Steering wheel assembly	AW6142K-3404010	1
2			AW6142K-3404011	1
3		Steering horn cap	AW6142K-3404012	1
4			AW6142K-3404013	1

3-5 Steering Column Housing



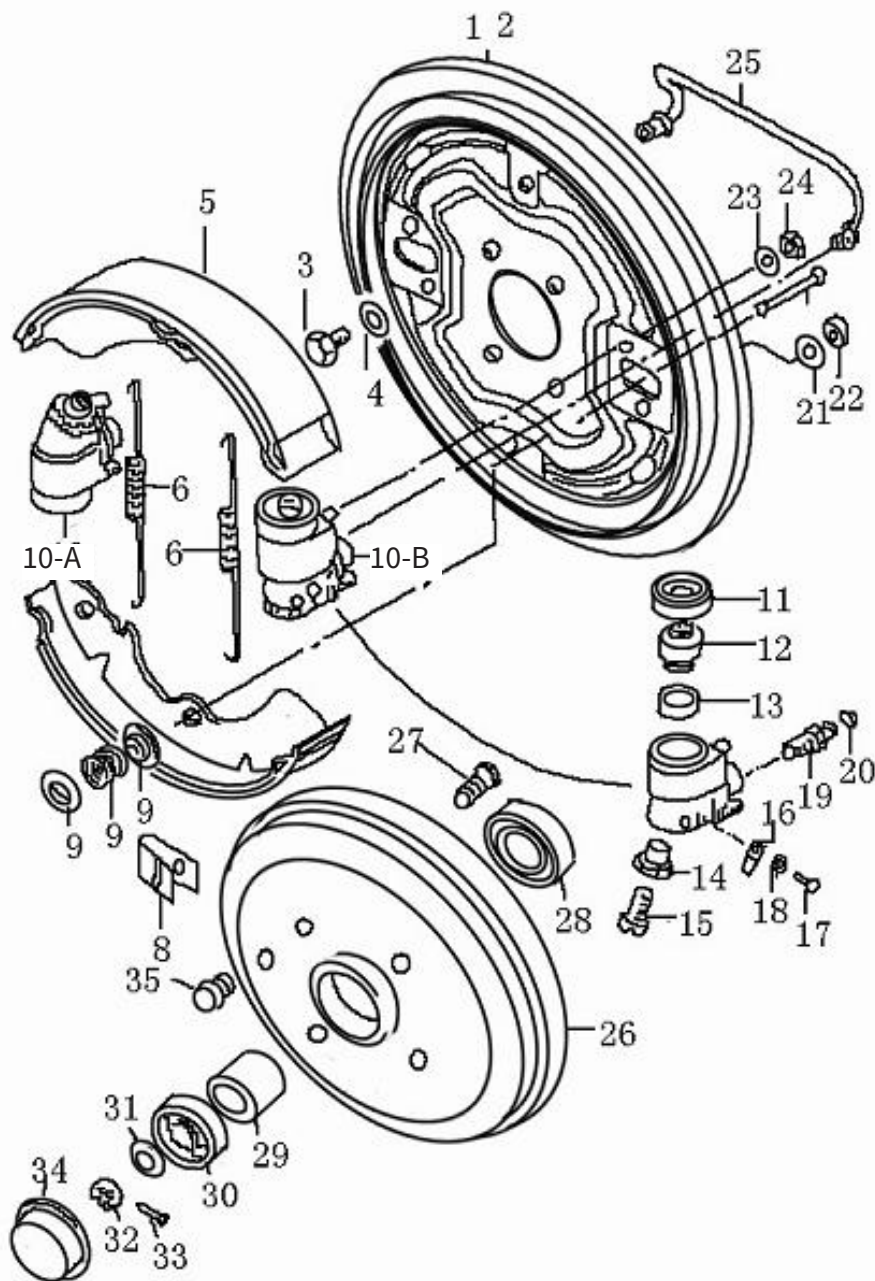
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2DB514	Upper steering column COVER for AK & AP Series or Enclosed Bus	AW6142K-3404011	1
2	2DB515	Lower steering column COVER for AK & AP Series or Enclosed Bus	AW6142K-3404012	1

3-6 Accelerate and Brake Pedal



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2PD080	Brake pedal assembly	AW6042K-3508030	1
1-1	2PD081	Return Spring of Brake Pedal	AW6042K-3508031	1
2	2PD210	Accelerating pedal	AW6042K-2151105	1
3	2PD050	Pedal mat	AW6042K-3504025	2

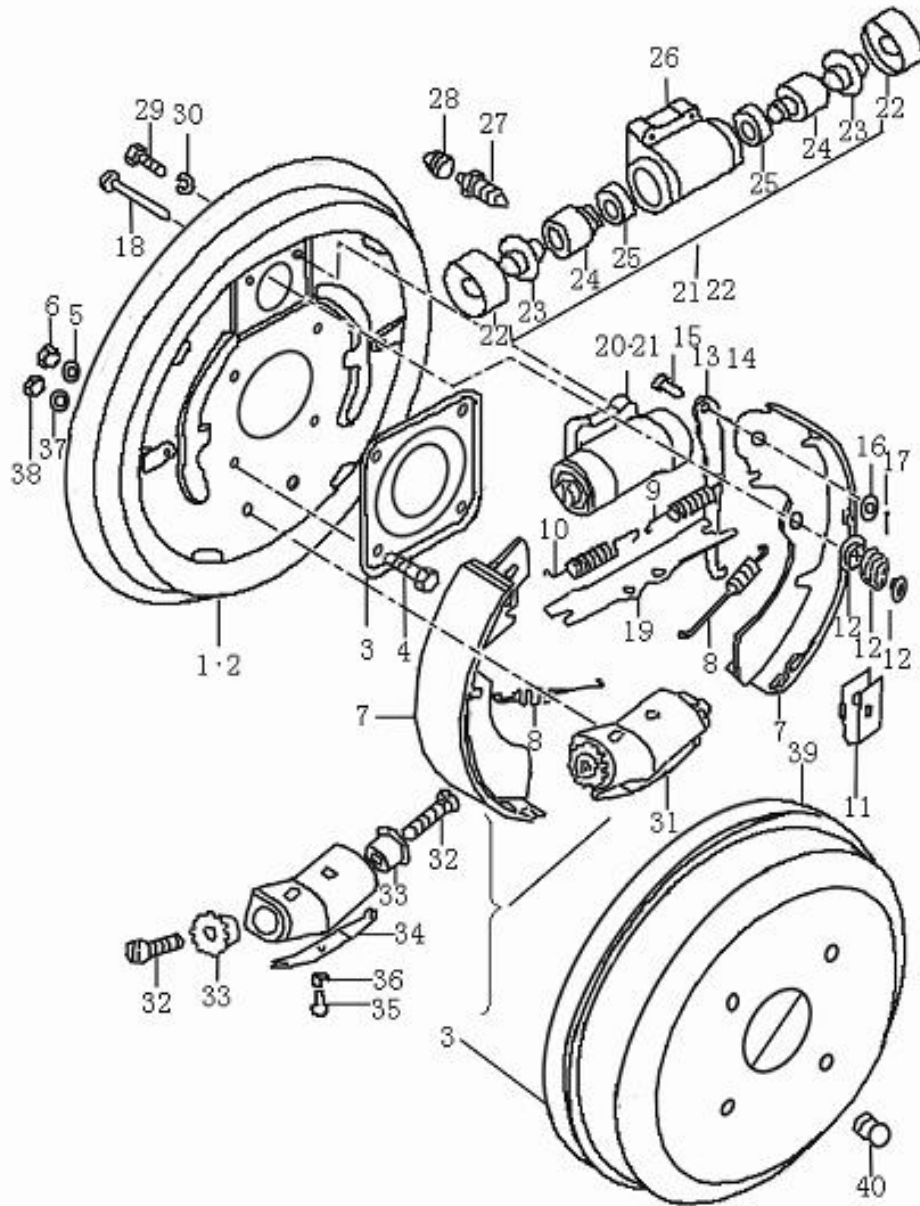
3-7 Front Drum Brake Assembly



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2BP027	Brake assembly front (passenger)	2801200-005	1
2	2BP026	Brake assembly front (driver)	2801100-005	1
3		Bolt washer assembled		8
4		Spring washer		8
5	2SH020	Brake shoe assembly	6082-2801080	4
6		Spring		4
7		Flat head screw		4
8		Flat spring	AW6042K-3502012	4
9		Spring washer		4 (8)

10-A	2CY200	Lower wheel cylinder (driver)	2801230-005	1
	2CY202	Lower wheel cylinder (passenger)	2801130-005	1
10-B	2CY201	Upper wheel cylinder with bleeder (driver)	2801220-005	1
	2CY203	Upper wheel cylinder with bleeder (passenger)	2801120-005	1
11		Dust boot	AW6042K-3502017	4
12		Piston	AW6042K-3502018	4
13		Bowl plug	AW6042K-3502019	4
14		Adjusting key	AW6042K-3502021	4
15		Adjusting screw	AW6042K-3502022	4
16		Flat spring	AW6042K-3502023	4
17		Screw		4
18		Spring washer		4
19		Bleed plug	AW6042K-3502024	2
20		Rubber cap	AW6042K-3502025	2
21		Spring washer		2
22		Small Hex-head nut		2
23		Spring washer		2
24		Hex-head nut		2
25		Brake pipe	AW6042K-3502026	2
26	2DR040	Front drum brake	2801310-005	2
27		Blot		8
28	2BE003	Inner bearing: 6205	AW6042K-3502028A	2
29	2BS105	Bush	AW6042K-3502028	2
30	2BE002	Outer bearing: 6204	AW6042K-3502028B	2
31		Washer		2
32		Nut		2
33		Split pin		2
34		Shaft dust boot	AW6042K-3502029	2
35		Rubber plug	AW6042K-3502031	2

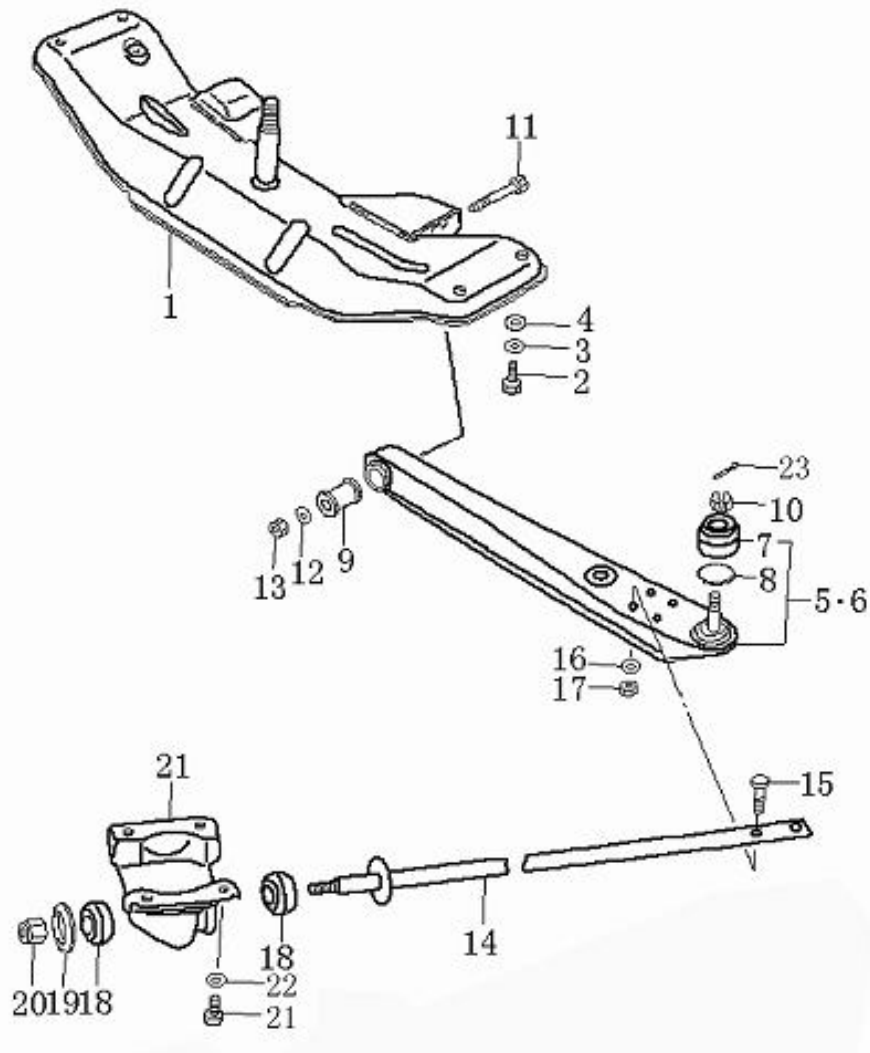
3-8 Rear Drum Brake Assembly



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2BP062	Brake assembly rear, Driver side	AW6042K-3503100	1
2	2BP028	Brake assembly rear, Passenger side	HX8020-3502300	1
3	2DM130	Rear Brake Drum	WJ110-3502A110	2
4		Retainer strut blot		8
5		Spring washer		8
6		Retainer strut nut		8
7	2SH030	Rear leading shoe	1030-28021011	4
	2SH031	Rear trailing shoe	1030-02801011	4
8		Rear brake shoe return spring	AW6042K-3503104	4
9		Rear brake shoe return spring, Driver side	AW6042K-3503105	2
10		Rear brake shoe return spring, Passenger side	AW6042K-3503106	2
11		Brake shoe stationary spring	AW6042K-3503107	4

12		Spring, washer	AW6042K-3503108	4 (8)
13		Right parking brake lever	AW6042K-3503109	1
14		Left parking brake lever	AW6042K-3503110	1
15		Parking brake shoe pin	AW6042K-3503111	2
16		Brake shoe pin shim	AW6042K-3503112	2
17		Split pin		2
18		Hold-down pin		4
19		Parking brake strut	AW6042K-3503113	2
20	2CY204	Rear wheel cylinder	EG8180-3502510	2
21				
22		Rear wheel cylinder boot	AW6042K-3503116	4
23		Rear wheel cylinder strut	AW6042K-3503117	4
24		Rear wheel cylinder piston	AW6042K-3503118	4
25		Rear wheel cylinder cup	AW6042K-3503119	4
26		Rear wheel cylinder housing	AW6042K-3503120	2
27		Bleed plug	AW6042K-3503121	1
28		Rubber cap	AW6042K-3503122	1
29		Bolt Hex-head castle		4
30		Spring washer		4
31		Fixed wheel cylinder	AW6042K-3503123	2
32		Adjusting screw	AW6042K-3503124	4
33		Adjusting piece	AW6042K-3503125	4
34		Lock flat spring	AW6042K-3503126	2
35		Cross slot screw		2
36		Spring washer		2
37		Spring washer		4
38		Small nut hex-head castle		4
39		Rear brake hub assembly	AW6042K-3503034	2
40		Rubber plug	AW6042K-3503035	2

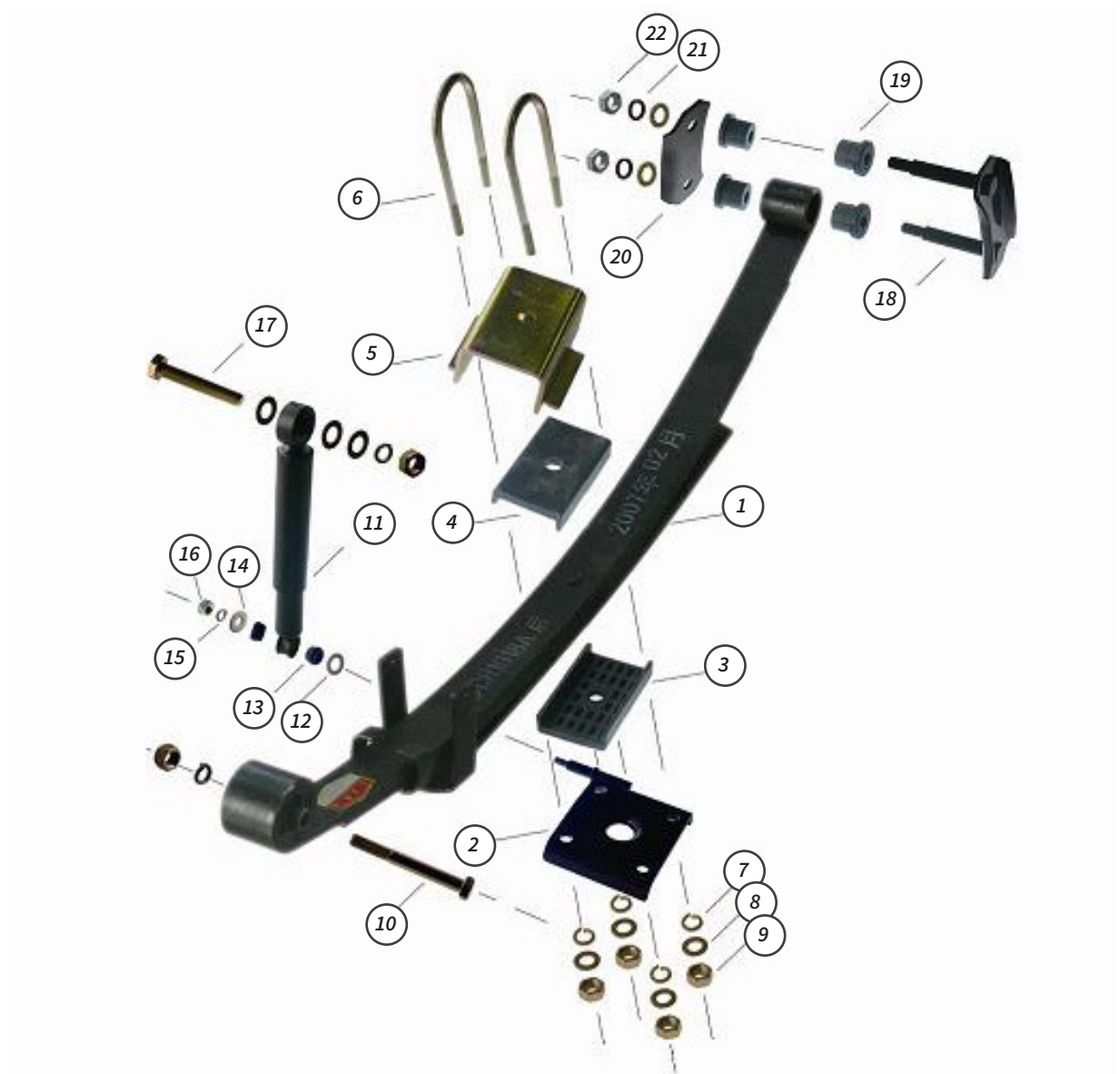
3-9 Front Suspension Frame



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2SC160	Front suspension frame	AW6142K-2901100	1
2		Bolt		4
3		Spring washer		4
4		Washer		4
5	2SC050	Front suspension arm assembly, Driver or Passenger side	AW6142K-2901010, AW6142K-2901020	2
6		Boot assembly	AW6142K-2901011	2
7		Clip	AW6142K-2901012	2
8		Bush	AW6142K-2901013	2
9		Nut	AW6142K-2901014	2
10		Bolt		2
11		Spring washer		2
12		Nut		2
13	2SC170	Tension rod assembly	AW6042K-2906010	2
14		Bolt	AW6142K-2906012	2
15		Spring washer		4

16		Nut		4
17		Tension rod bush		4
18	2BS530	Tension rod bushing	45341-77A00	4
19		Tension rod nut		2
20		Tension rod plank		2
21		Tension rod plank Bolt	AW6142K-2906015	8
22		Tension rod plank spring washer		8
23		Tension rod bush		2

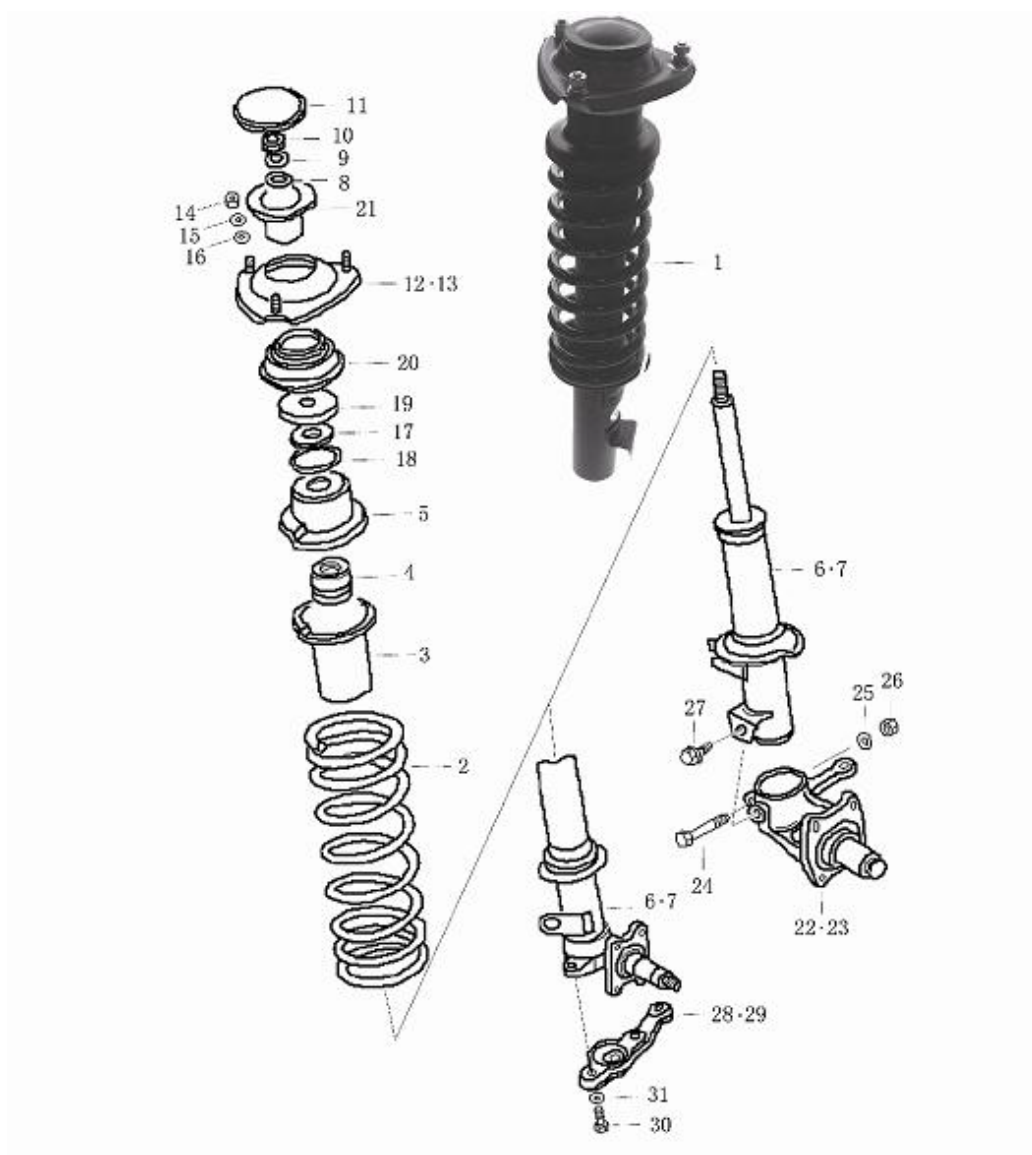
3-10 Rear Suspension



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2LF040	Rear leaf spring assembly	AW6042K-2912010	2
2		Leaf spring lower press plate, Passenger side	AW6142K-2912030	1
		Leaf spring lower press plate, Driver side	AW6142K-2912031	1
3		Lower pad	AW6142K-2912036	2
4		Upper pad	AW6142K-2912035	2
5				
6		Leaf spring U bolt	AW6042K-2912012	4
7		Gasket Spring M12		10
8		Gasket M12		18
9		Nut M12		10
10		Bolt M12×100		2
11	2SK260	Rear shock absorber assembly	AW6142K-2915100	2

12		Gasket M8		
13		Bush	AW6142K-2915102	4
14		Big gasket M8		
15		Gasket spring M8		
16		Nut M8		
17		Bolt M10×60		2
18	2LF041	Shackle inner plate	AW6042K-2912015	2
19	2BS210	Bush	AW6142K-2912020	8
20	2LF042	Shackle outer plate	AW6042K-2912016	2
21		Gasket spring M10		4
22		Nut M10		4

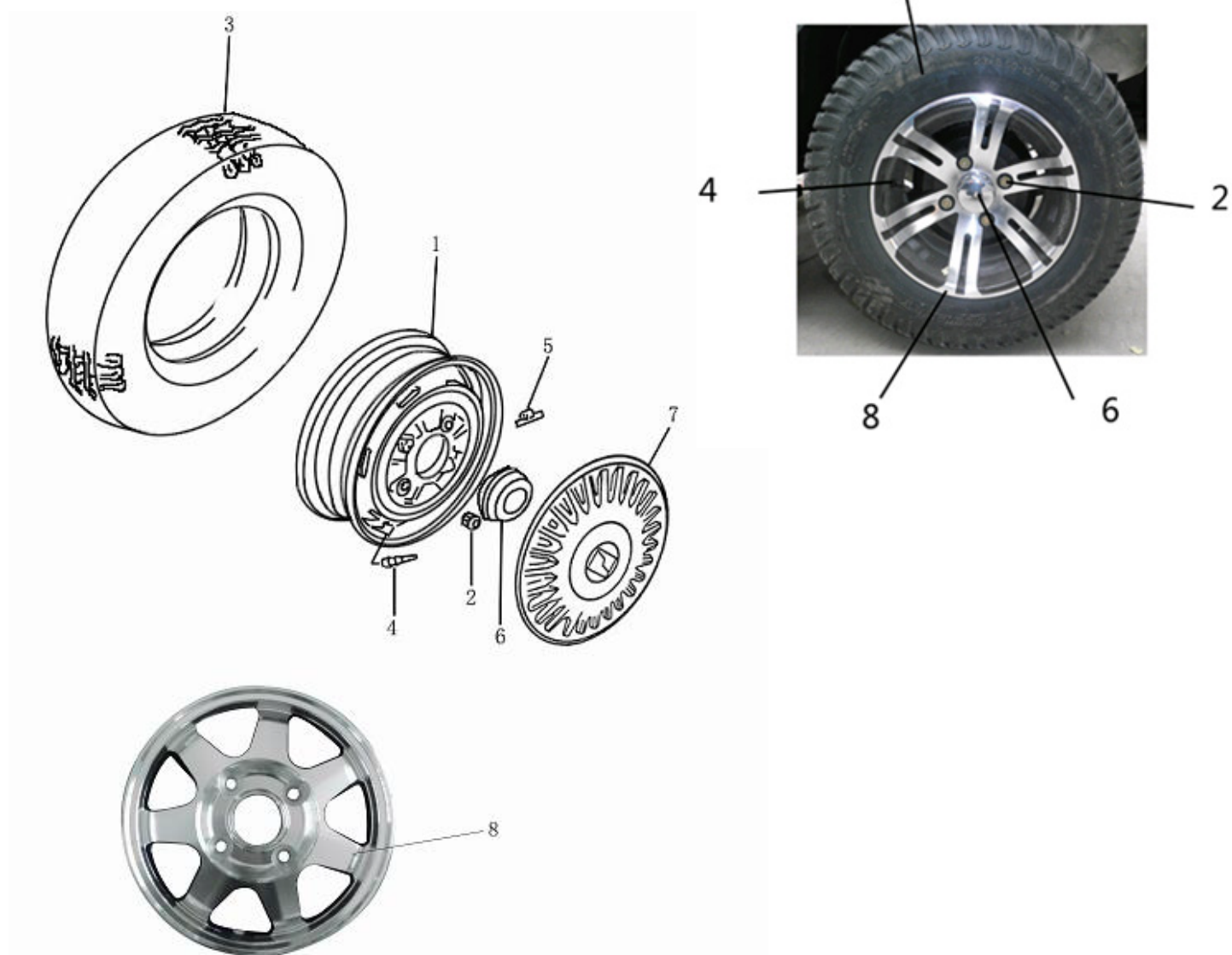
3-11 Front Suspension



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2SC100	Front shock absorber, Passenger side	AW6042K-2905020	1
	2SC090	Front shock absorber, Driver side	AW6042K-2905010	1
2		Front coil spring	AW6042K-2905011	2
3		Front coil spring seat	AW6042K-2905012	2
4		Spring bumper	AW6042K-2905013	2
5		Upper spring seat	AW6042K-2905014	2
6		Strut assembly, Passenger side	AW6042K-2905015	1
7		Strut assembly, Driver side	AW6042K-2905016	1
8		Washer		2
9		Spring washer		2
10		Hex-head nut		2
11	2SC100	Front strut support cap	AW6042K-2905020	2
12		Front strut support, Passenger side	AW6042K-2905021	1
13		Front strut support, Driver side	AW6042K-2905022	1

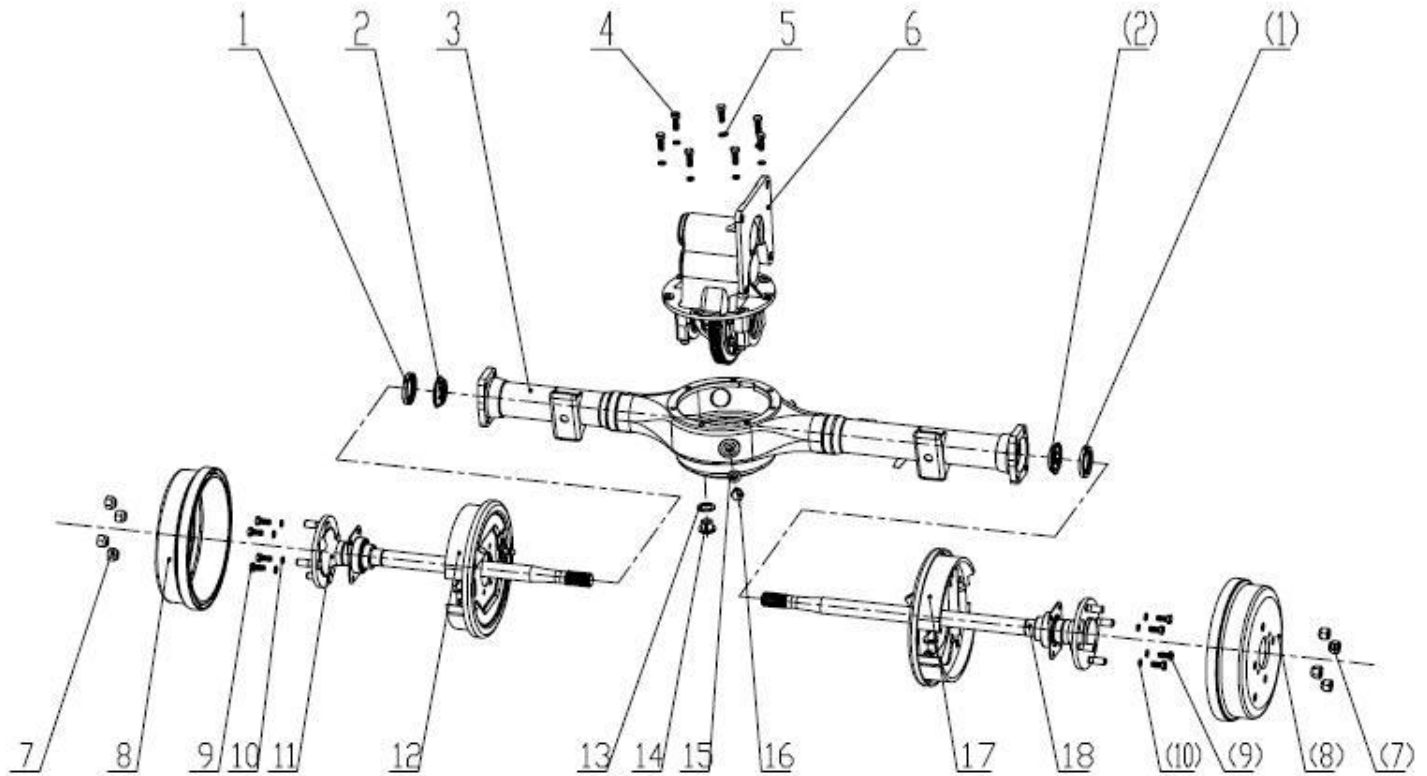
14		Nut	AW6042K-2905023	6
15		Spring washer	AW6042K-2905024	6
16		Washer	AW6042K-2905025	6
17		Strut thrust bearing	AW6042K-2905026	2
18		Dust stall strut bearing	AW6042K-2905027	2
19		Bearing seat	AW6042K-2905028	2
20		Front strut rubber support	AW6042K-2905029	2
21		Thrust rebound Stopper	AW6042K-2905030	2
22	2SP211	Steering knuckle, Passenger side	AW6142K-3402020	1
23	2SP210	Steering knuckle, Driver side	AW6142K-3402010	1
24		Steering knuckle bolt		2
25		Steering knuckle spring washer		2
26		Steering knuckle nut		2
27		Steering knuckle nut		2
28		Steering knuckle arm, Passenger side		1
29		Steering knuckle arm, Driver side		1
30		Hex-head bolt		4
31		Spring washer		4

4-1 Wheel and Tire



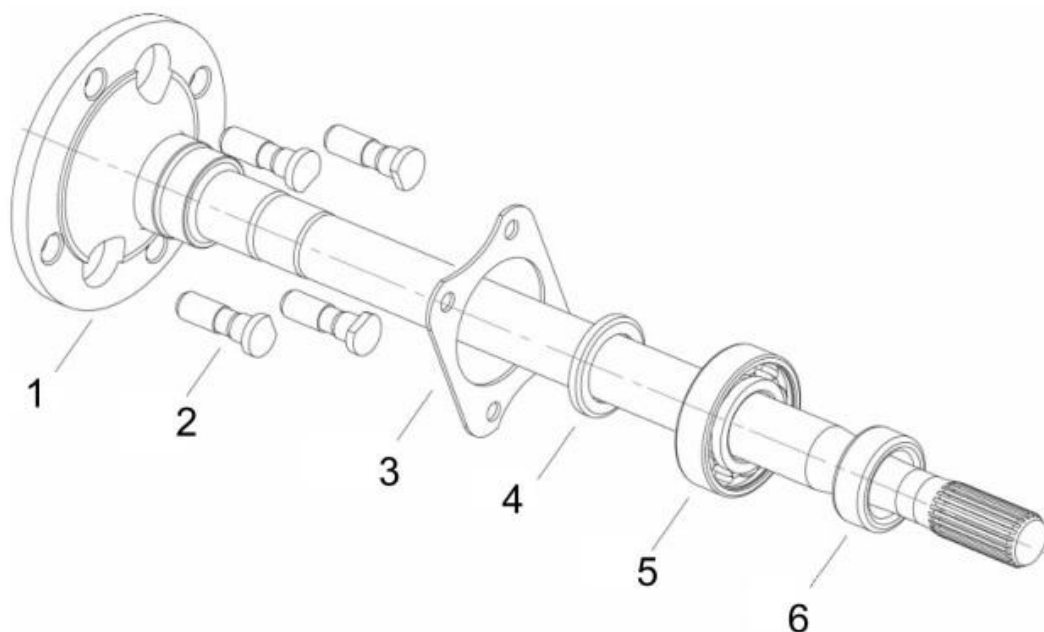
Item No.	STAR EV Part No.	Description	MPN	Qty
1		Steel Rim	AW6142K-3104010	4
2	2LN350	Lug nut nut	AW6042K-3104021	16
3	2TR252	Tire 23 x 8 x 12, May 2015 through October 2017	AW6142K-3106101	4
	2TR250	Tire 155R12C, before May 2015 (obsolete: use 2TR251)	AW6142K-3106100	
	2TR251	Tire 225/55-R12 (KR334) radial tire, current default	AW6042K-3106112	
4	2TR902	Tire valve	AW6042K-3106120	4
5		Balance patch		
6	2CC235	Center cap, wheel	AW6042K-3001020	4
7		Hubcap (for steel rim only)	AW6142K-3102100	4
8	2RM905	Aluminum rim assembly 12 inch, current default	AW6142K-3106100	4
	2RM915	Aluminum rim assembly 12 inch, before May 2015	AW6142K-3104050	

5-1 Rear Axle



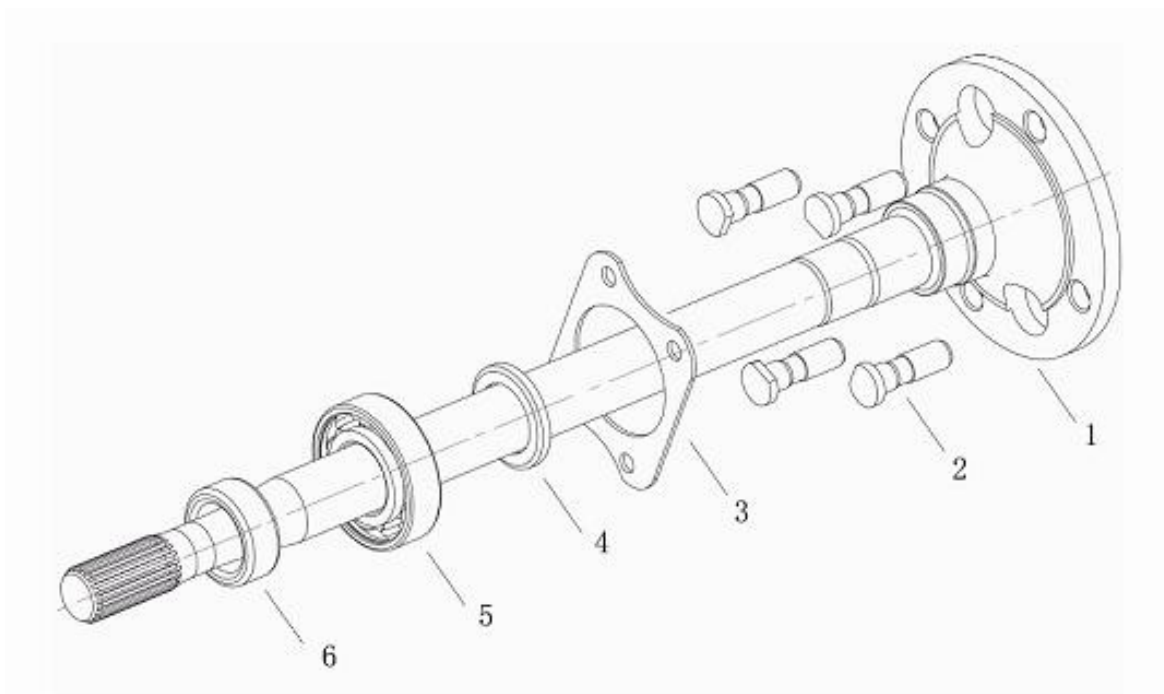
Item No.	STAR EV Part No.	Description	MPN	Qty
A.1	2RE210	48 V Rear end assembly (parts 1-18), uses 2MO370	AW6042K-2401000	1
A.2	2RE215	72 V Rear end assembly (parts 1-18), uses 2MO340	AW6042K-2401001-T	
1	2OL040	Rear axle oil seal assembly (42*55*8)	AW6042K-2401001	1
2	2OL041	Protective sleeve seals	AW6042K-2401002	1
3	2OL092	Axle housing	AW6042K-2401003	1
4		Bolt		5
5		Nut		5
6	2RR240	Reduction gear housing	AW6042K-2403000	1
7		Nut		8
8	2DM130	Brake drum	WJ110-3502A110	2
9	2LN300	Wheel Bolt/stud	AW6042K-2402012	8
10		Washer		8
11	2AX301	Passenger side half-axle assembly (short)	AW6042K-2402020	2
12	2BP063	Brake shoe assembly (Rear pass. side backing plate assembly)	AW6042K-3503200	1
13		Washer		1
14		Rear axle housing oil collimator plug	AW6042K-2401004	1
15		Grease outlet gasket	AW6042K-2401005	1
16		Rear axle housing oil drain plug	AW6042K-2401006	1
17	2BP062	Brake shoe assembly (Rear driver side backing plate assembly)	AW6042K-3503100	1
18	2AX300	Driver side half-axle assembly (long)	AW6042K-2402010	1

5-2 Half-axle (Driver side) of Direct Drive Axle



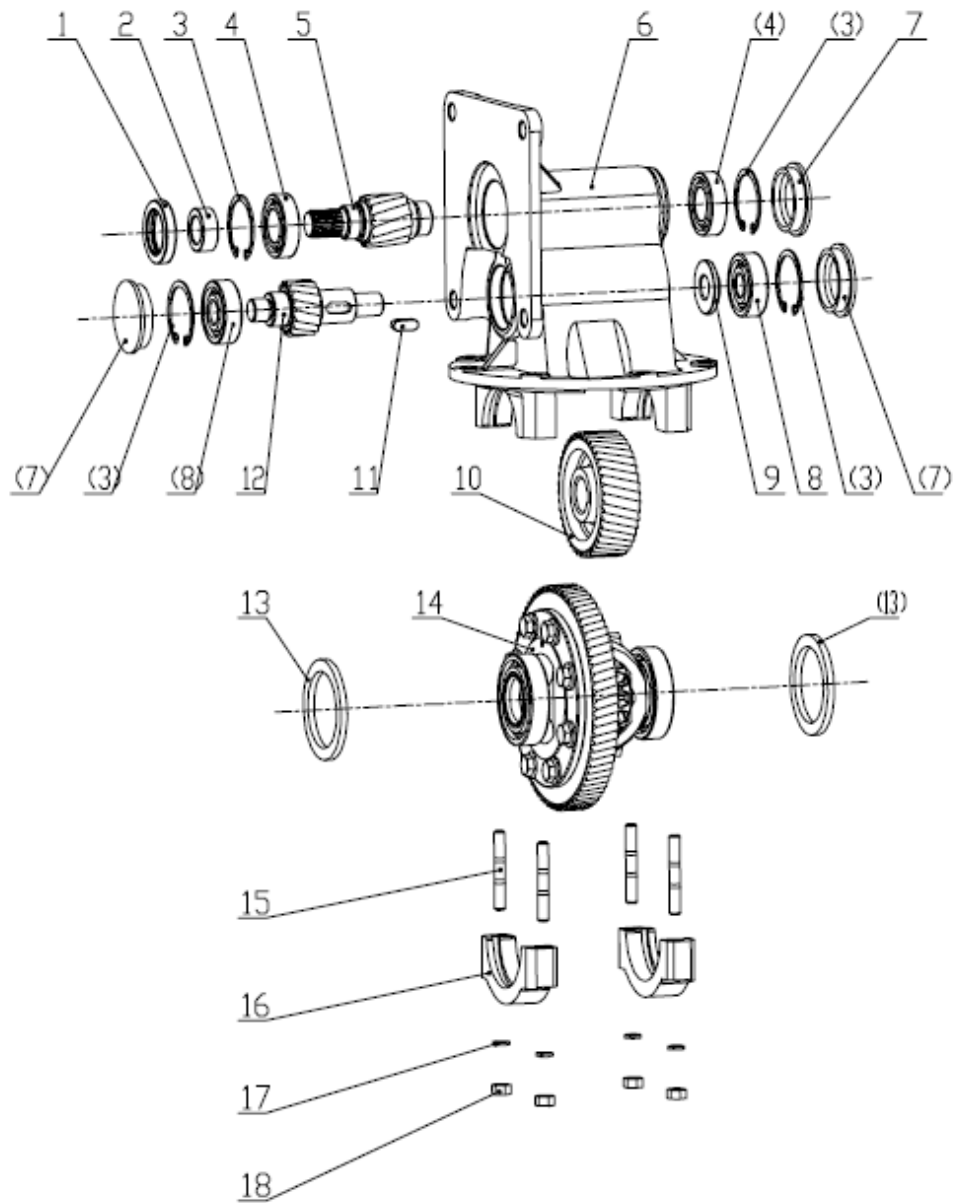
Item No.	STAR EV Part No.	Description	MPN	Qty
1	2AX300	Driver side half-axle assembly (Part #1-6)	AW6042K-2402010	1
2	2LN300	Wheel Bolt	AW6042K-2402012	4
3	2AX504	Bearing gland	AW6042K-2402013	1
4	2OL080	Within the retaining ring	AW6042K-2402014	1
5	2BE005	Bearing 6206 RZ	AW6042K-2402015	1
6	2OL032	Outer retaining ring	AW6042K-2402016	1

5-3 Half-axle (Passenger side) of Direct Drive Axle



Item No.	STAR EV Part No.	Description	MPN	Qty
1	2AX301	Passenger half-axle assembly (Part #1-6)	AW6042K-2402020	1
2	2LN300	Wheel Bolt	AW6042K-2402012	4
3		Bearing gland	AW6042K-2402013	1
4		Within the retaining ring	AW6042K-2402014	1
5		Bearing	AW6042K-2402015	1
6		Outer retaining ring	AW6042K-2402016	1

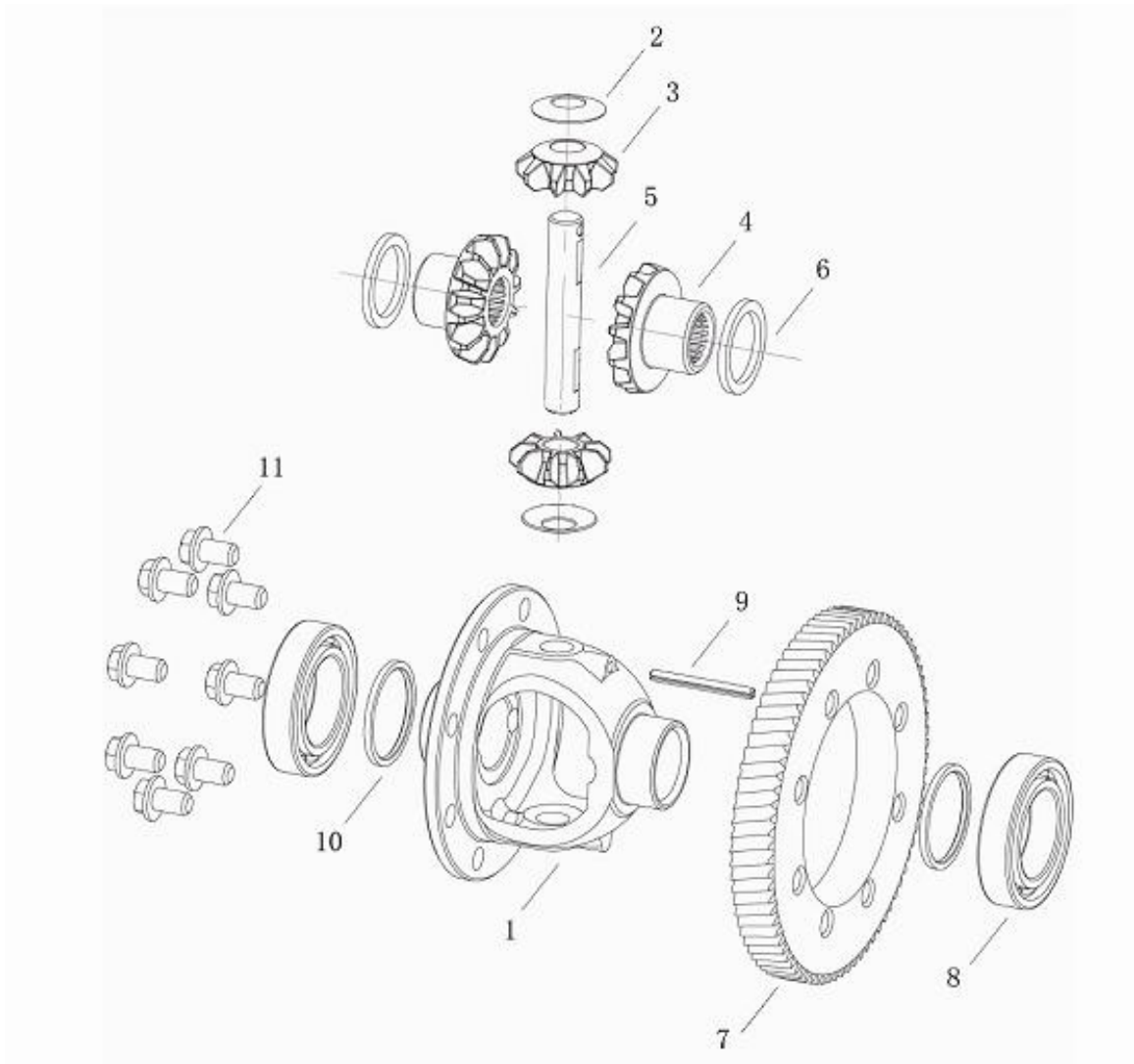
5-4 Automatic Drive Main Reducer Assembly



Item No.	STAR EV Part No.	Description	MPN	Qty
A	2RR240	Main reducer assembly	AW6042K-2403000	1
1	2OL081	Oil seal (30 x 47 x 8)	AW6042K-2403011	1
2		Bush	AW6042K-2403012	1
3		Retaining ring	AW6042K-2403013	4
4	2BE010	6005 Bearing	9010006-6005RZ-000	2
5		Gear shaft 1	AW6042K-2403015	1
6		Reducer shell	AW6042K-2403016	1
7	2RR159	Plug	AW6042K-2403017	3
8		Bearing	AW6042K-2403018	2
9		Spacer	AW6042K-2403019	1
10		2nd gear	AW6042K-2403020	1
11		Key	AW6042K-2403021	1

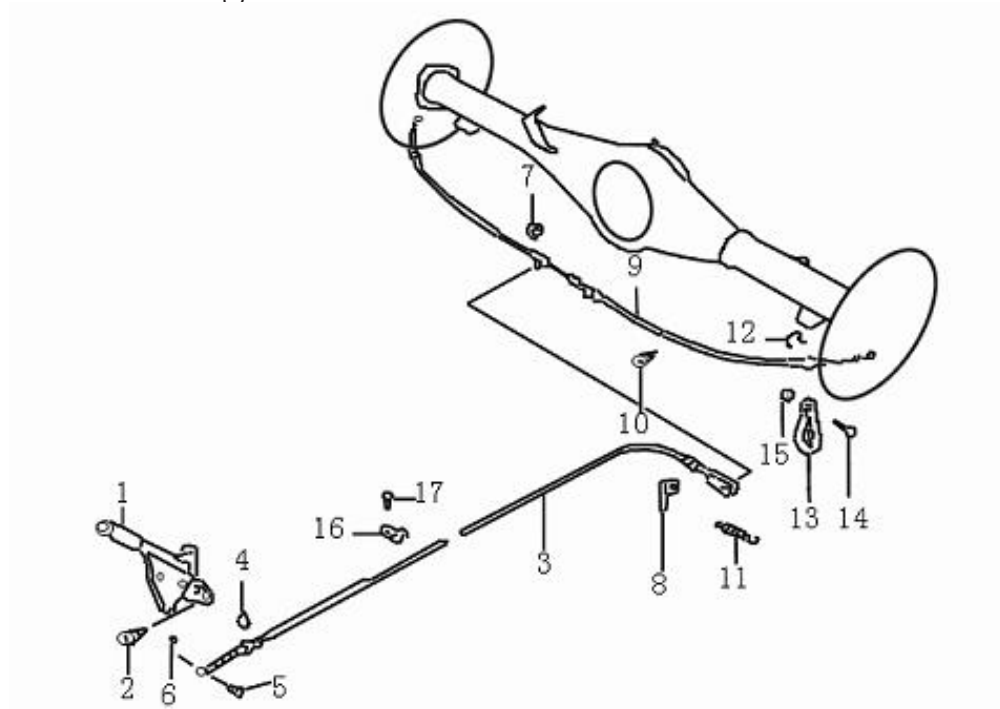
12		Gear shaft 2	AW6042K-2403022	1
13		Retaining ring	AW6042K-2403023	2
14		Differential assembly	AW6042K-2403024	1
15		Stud	AW6042K-2403025	4
16		Differential carrier bearing cap	AW6042K-2403026	2
17		Washer		4
18		Screw nut		4

5-5 Differential Assembly



Item No.	STAR EV Part No.	Description	MPN	Qty
1		Differential housing	AW6042K-2403011	1
2		Spheroidal thrust washer	AW6042K-2403012	1
3		Planetary gear	AW6042K-2403013	2
4		Axle shaft gear	AW6042K-2403014	2
5		Planetary gear shaft	AW6042K-2403015	1
6		Adjusting gasket	AW6042K-2403016	2
7		Large gear	AW6042K-2403017	1
8		Bearing 6008	AW6042K-2403018	2
9		Pin 5×45	AW6042K-2403019	1
10		Washer	AW6042K-2403020	2
11		Driving bevel gear screw	AW6042K-2403021	8
12		Differential Assembly (include items 1-11)	AW6042K-2403010	1

5-6 Parking Brake



1-A

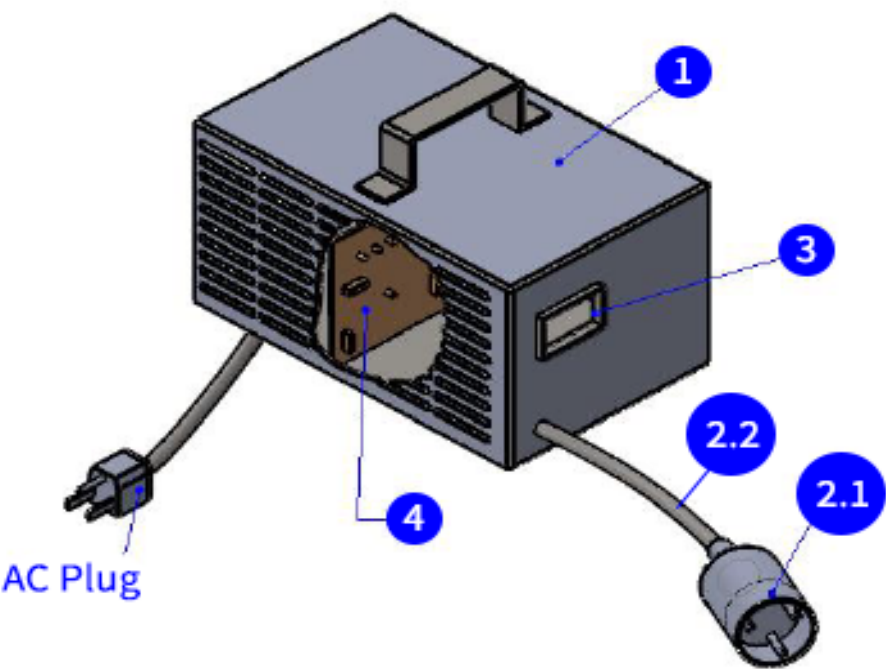


1-B

Item No.	STAR EV Part No.	Description	MPN	Qty
1	2PB131	Parking brake handle (old version: June 2016 and earlier)	AW6142K-3508010-A	1
1-B	2PB130	Parking brake handle (current version: June 2016 and later)	AW6142K-3508010	
2		Parking brake lever bolt		2
3	2CB206	Parking brake cable assembly 1 for 4 passenger AK/ AP (old version: June 2016 and earlier), 57.08" cable housing rim to rim	AW6042K-3504010-A	1
	2CB207	Parking brake cable assembly 1 for 6 passenger AK/ AP (old version: June 2016 and earlier), 76.77" cable housing rim to rim	AW6042K-3504011-A	
	2CB200	Parking brake cable assembly 1 for 4 passenger AK/ AP (current version: June 2016 and later), 53.14" cable housing rim to rim	AW6042K-3504010	
	2CB208	Parking brake cable assembly 1 for 6 passenger AK/ AP (current version: June 2016 and later), 84.65" cable housing rim to rim	AW6042K-3504016	
4		Cable split retaining ring 1		1
5		Cable clutch pin 1		1
6		Cable clutch pin 1		1
7		Cable grommet 1	AW6042K-3504011	1
8		Cable stopper	AW6042K-3504012	1
9	2CB205	Parking brake cable assembly 2, 61.42" cable housing rim to rim	AW6142K-3507050	1
10		Cable bracket bolt		2
11		Cable return spring	AW6142K-3507035	1
12	2CB085	Parking brake cable clip 2	AW6042K-3504013	2

13	2CB086	Cable flying rings	AW6042K-3504014	2
14		Cable flying rings bolt		2
15		Cable flying rings nut		2
16	2CB087	Cable pin	AW6042K-3504015	1

5-7 DPI Charger



Item No.	Star EV Part No.	Description	Remark	Qty
1	2CH048	DPI 48 V charger, 120 V		1
	2CH481	DPI 48 V charger, 220 V	220 V, 50 Hz	
2.1	2PG148	DPI male plug ONLY, black, Gen. IV		1
2.1 + 2.2	2CR048	9 ft DC 48 V output cord with black plug, Gen. IV		1
	2CR480	9 ft DC 48 V output cord with black plug, Gen. III and earlier		
3	2MT240	DPI charger AMP meter		1
4	2BI480	DPI control board, 48 V, 110 V	110 V, 60 Hz	1
	2BI481	DPI control board, 48 V, 220 V	220 V, 50 Hz	
	2BI148	DPI board kit for 48 V charger, no relay, Gen. IV		
AC Plug	2CR120	120 V AC input cord for Gen. IV charger	IPCJ0038-L001830	1
	2CR230	230 V AC input cord for Gen. IV charger	IPCJ0039-L001830	