

REAR END SHEET METAL REPAIRS

– 90 [G2722858]

SPECIFICATIONS

NOTES:

- Breakstem Fastener (BSF) installation involves using the Jaguar Land Rover (JLR) approved BSF installation tool and requires a hole diameter of 6.5 mm.
- Self Piercing Rivet (SPR) installation requires using the JLR approved SPR tool.
- Make sure the JLR approved Self Piercing Rivets (SPRs), die type and load are used during installation.
- Flow Form Rivet (FFR) installation requires using the JLR approved FFR installation tool.

Required Fixings - Rear End Sheet Metal Repairs.

Quarter Panel

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 14	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 3	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 3	W780579 SJ90
Self Piercing Rivet	SPR L16AS	Shallow	50 kN	LR099825	x 11	W780565 SJ91
Self Piercing Rivet	SPR L16FS	Shallow	45 kN	LR099825	x 1	W780565 SJ91
Self Piercing Rivet	SPR L21KS	Shallow	45 kN	LR099826	x 1	W780566 SJ91
Flow Form Rivet	FFR S1	N/A	55 kN	LR146792	x 28	W585441 SJ50
Flow Form Rivet	FFR S2	N/A	55 kN	LR146794	x 14	W585442 SJ50
Flow Form Rivet	FFR S3	N/A	55 kN	LR146795	x 11	W585443 SJ50

Quarter Panel Assembly - With Roof Opening Panel

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 14	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 4	W781047 SJ90

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 3	W780579 SJ90
Self Piercing Rivet	SPR L5K	Pip	50 kN	LR043553	x 6	W708716 S900
Self Piercing Rivet	SPR L13DS	Shallow	45 kN	LR043559	x 1	W710246 S900
Self Piercing Rivet	SPR L16AS	Shallow	50 kN	LR099825	x 11	W780565 SJ91
Self Piercing Rivet	SPR L16FS	Shallow	45 kN	LR099825	x 1	W780565 SJ91
Self Piercing Rivet	SPR L16G	Pip	45 kN	LR099830	3	W780648 SJ91
Self Piercing Rivet	SPR L21KS	Shallow	45 kN	LR099826	x 2	W780566 SJ91
Flow Form Rivet	FFR S1	N/A	55 kN	LR146792	x 29	W585441 SJ50
Flow Form Rivet	FFR S2	N/A	55 kN	LR146794	x 26	W585442 SJ50
Flow Form Rivet	FFR S3	N/A	55 kN	LR146795	x 14	W585443 SJ50

Quarter Panel Assembly - Without Roof Opening Panel

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 14	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 3	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 3	W780579 SJ90
Self Piercing Rivet	SPR L5K	Pip	50 kN	LR043553	x 2	W708716 S900
Self Piercing Rivet	SPR L16AS	Shallow	50 kN	LR099825	x 11	W780565 SJ91
Self Piercing Rivet	SPR L16FS	Shallow	45 kN	LR099825	x 1	W780565 SJ91
Self Piercing Rivet	SPR L16G	Pip	45 kN	LR099830	3	W780648 SJ91
Self Piercing Rivet	SPR L21KS	Shallow	45 kN	LR099826	x 2	W780566 SJ91
Flow Form Rivet	FFR S1	N/A	55 kN	LR146792	x 29	W585441 SJ50
Flow Form Rivet	FFR S2	N/A	55 kN	LR146794	x 26	W585442 SJ50
Flow Form Rivet	FFR S3	N/A	55 kN	LR146795	x 14	W585443 SJ50

Outer Tail Lamp Outer Panel Right Side

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 5	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 2	W780579 SJ90
Self Piercing Rivet	SPR L10	Flat	40 kN	LR099821	x 11	W709935 S900

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Flow Form Rivet	CFFR CS3	N/A	55 kN	LR146800	x 1	W585448 SJ50
Flow Form Rivet	CFFR CS4	N/A	55 kN	LR146801	x 3	W585449 SJ50
Friction Drilling Screw	M6 FDS	N/A	N/A	T4K7064	x 6	W781565 SJ50

Outer Tail Lamp Outer Panel Left Side

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 6	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 1	W780579 SJ90
Self Piercing Rivet	SPR L10	Flat	40 kN	LR099821	x 12	W709935 S900
Flow Form Rivet	CFFR CS3	N/A	55 kN	LR146800	x 3	W585448 SJ50
Flow Form Rivet	CFFR CS4	N/A	55 kN	LR146801	x 2	W585449 SJ50
Friction Drilling Screw	M6 FDS	N/A	N/A	T4K7064	x 4	W781565 SJ50

Outer Tail Lamp Outer Panel Section Right Side

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 4	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 2	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 4	W780579 SJ90
Self Piercing Rivet	SPR L10	Flat	40 kN	LR099821	x 3	W709935 S900
Self Piercing Rivet	SPR L14DS	Shallow	45 kN	LR099827	x 6	W780567 SJ91
Flow Form Rivet	CFFR CS3	N/A	55 kN	LR146800	x 1	W585448 SJ50
Flow Form Rivet	CFFR CS4	N/A	55 kN	LR146801	x 1	W585449 SJ50
Friction Drilling Screw	M6 FDS	N/A	N/A	T4K7064	x 5	W781565 SJ50

Outer Tail Lamp Outer Panel Section Left Side

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 5	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 3	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 1	W780579 SJ90

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Self Piercing Rivet	SPR L10	Flat	40 kN	LR099821	x 4	W709935 S900
Flow Form Rivet	CFFR CS3	N/A	55 kN	LR146800	x 1	W585448 SJ50
Flow Form Rivet	CFFR CS4	N/A	55 kN	LR146801	x 1	W585449 SJ50
Friction Drilling Screw	M6 FDS	N/A	N/A	T4K7064	x 4	W781565 SJ50

Back Panel Outer

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 17	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 10	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 4	W780579 SJ90
Breakstem Fastener	BSF O	N/A	N/A	LR147843	x 2	W781208 SJ90
Self Piercing Rivet	SPR L4F	Flat	40 kN	LR043552	x 11	W708712 S900
Flow Form Rivet	FFR S2	N/A	55 kN	LR146794	x 1	W585442 SJ50
Flow Form Rivet	FFR S3	N/A	55 kN	LR146795	x 2	W585443 SJ50

Rear Wheelhouse Lower Rear Extension

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 5	W781165 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 2	W780579 SJ90

Inner Quarter Panel Assembly

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Inner Quarter Panel Assembly Right Side	-	-	-	-	-	-
Breakstem Fastener	BSF G	N/A	N/A	LR044288	x 5	W780389 SJ46
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 32	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 18	W780579 SJ90
Self Piercing Rivet	SPR L3	Flat	30 kN	LR043551	x 3	W708711 S900

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Self Piercing Rivet	SPR L5F	Flat	45 kN	LR043553	x 2	W708716 S900
Flow Form Rivet	CFFR CS2	N/A	55 kN	LR146799	x 2	W585447 SJ50
Friction Drilling Screw	M6 FDS	N/A	N/A	T4K7064	x 1	W781565 SJ50
Inner Quarter Panel Assembly Left Side	-	-	-	-	-	-
Breakstem Fastener	BSF G	N/A	N/A	LR044288	x 4	W780389 SJ46
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 26	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 17	W780579 SJ90
Self Piercing Rivet	SPR L3	Flat	30 kN	LR043551	x 3	W708711 S900
Self Piercing Rivet	SPR L5F	Flat	45 kN	LR043553	x 2	W708716 S900
Flow Form Rivet	CFFR CS2	N/A	55 kN	LR146799	x 2	W585447 SJ50
Friction Drilling Screw	M6 FDS	N/A	N/A	T4K7064	x 1	W781565 SJ50

Back Panel Inner

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 23	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 2	W780579 SJ90

Back Panel Inner Extensions

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Back Panel Inner Extension- Right Side	-	-	-	-	-	-
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 15	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 5	W780579 SJ90

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Back Panel Inner Extension- Left Side	-	-	-	-	-	-
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 14	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 4	W780579 SJ90

Rear Floor Panel

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 13	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 19	W780579 SJ90

Rear Floor Panel Rear Cross Member

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 4	W780579 SJ90
Breakstem Fastener	BSF N	N/A	N/A	LR147842	x 4	W781049 SJ90

Rear Floor Panel Center Cross Member

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF E	N/A	N/A	LR044287	x 2	W780388 SJ46
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 7	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 8	W780579 SJ90

Tailgate Reinforcement Right Side

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF G	N/A	N/A	LR044288	x 1	W780389 SJ46
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 8	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 12	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 8	W780579 SJ90
Self Piercing Rivet	SPR L3	Flat	30 kN	LR043551	x 7	W708711 S900
Self Piercing Rivet	SPR L3A	Flat	25 kN	LR043551	x 4	W708711 S900

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Self Piercing Rivet	SPR L10	Flat	40 kN	LR099821	x 2	W709935 S900
Self Piercing Rivet	SPR L14CS	Shallow	35 kN	LR099827	x 1	W780567 SJ91
Self Piercing Rivet	SPR L14DS	Shallow	45 kN	LR099827	x 2	W780567 SJ91

Tailgate Reinforcement Left Side

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 11	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 2	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 2	W780579 SJ90
Self Piercing Rivet	SPR L3	Flat	30 kN	LR043551	x 7	W708711 S900
Self Piercing Rivet	SPR L3A	Flat	25 kN	LR043551	x 4	W708711 S900
Self Piercing Rivet	SPR L10	Flat	40 kN	LR099821	x 1	W709935 S900
Self Piercing Rivet	SPR L14CS	Shallow	35 kN	LR099827	x 1	W780567 SJ91

Tailgate Reinforcement Section

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Tailgate Reinforcement Section Right Side	-	-	-	-	-	-
Breakstem Fastener	BSF G	N/A	N/A	LR044288	(R/S) x 1	W780389 SJ46
Breakstem Fastener	BSF K	N/A	N/A	LR147839	(R/S) x 5	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	(R/S) x 12	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	(R/S) x 8	W780579 SJ90
Self Piercing Rivet	SPR L3A	Flat	25 kN	LR043551	(R/S) x 2	W708711 S900
Self Piercing Rivet	SPR L14DS	Shallow	45 kN	LR099827	(R/S) x 2	W780567 SJ91
Tailgate Reinforcement Section Left Side	-	-	-	-	-	-
Breakstem Fastener	BSF K	N/A	N/A	LR147839	(L/S) x 7	W781165 SJ90

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	(L/S) x 2	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	(L/S) x 2	W780579 SJ90
Self Piercing Rivet	SPR L3A	Flat	25 kN	LR043551	(L/S) x 2	W708711 S900

Rear Wheelhouse Outer

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF G	N/A	N/A	LR044288	x 4	W780389 SJ46
Breakstem Fastener	BSF K	N/A	N/A	LR147839	x 8	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 10	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 17	W780579 SJ90
Breakstem Fastener	BSF N	N/A	N/A	LR147842	x 1	W781049 SJ90
Self Piercing Rivet	SPR L3A	Flat	25 kN	LR043551	x 1	W708711 S900

Rear Wheelhouse Inner Reinforcement

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 14	W780579 SJ90
Breakstem Fastener	BSF N	N/A	N/A	LR147842	x 3	W781049 SJ90

Rear Wheelhouse Inner

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 4	W781047 SJ90
Breakstem Fastener	BSF N	N/A	N/A	LR147842	x 4	W781049 SJ90

Rear Floor Panel Side Extension Lower Reinforcement

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 3	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 2	W780579 SJ90
Breakstem Fastener	BSF O	N/A	N/A	LR147843	x 1	W781208 SJ90

Tailgate Opening Panel Right Side

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 12	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 1	W780579 SJ90

Tailgate Opening Panel Left Side

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 11	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 3	W780579 SJ90

Outer Tail Lamp Inner Panel

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Outer Tail Lamp Inner Panel Right Side	-	-	-	-	-	-
Breakstem Fastener	BSF K	N/A	N/A	LR147839	(R/S) x 14	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	(R/S) x 4	W781047 SJ90
Outer Tail Lamp Inner Panel Left Side	-	-	-	-	-	-
Breakstem Fastener	BSF K	N/A	N/A	LR147839	(L/S) x 14	W781165 SJ90
Breakstem Fastener	BSF L	N/A	N/A	LR147840	(L/S) x 3	W781047 SJ90

Rear Side Member Closing Panel

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF G	N/A	N/A	LR044288	x 1	W780389 SJ46
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 9	W780579 SJ90
Breakstem Fastener	BSF N	N/A	N/A	LR147842	x 6	W781049 SJ90
Breakstem Fastener	BSF O	N/A	N/A	LR147843	x 3	W781208 SJ90
Friction Drilling Screw	M6 FDS	N/A	N/A	T4K7064	x 2	W781565 SJ50

Rear Side Member Rear Extension

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF E	N/A	N/A	LR044287	x 9	W780388 SJ46
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 4	W780579 SJ90
Breakstem Fastener	BSF O	N/A	N/A	LR147843	x 1	W781208 SJ90

Rear Bumper Mounting

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF G	N/A	N/A	LR044288	x 4	W780389 SJ46
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 3	W780579 SJ90

Rear Side Member

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 39	W780579 SJ90
Breakstem Fastener	BSF N	N/A	N/A	LR147842	x 3	W781049 SJ90
Breakstem Fastener	BSF O	N/A	N/A	LR147843	x 3	W781208 SJ90

Rear Side Member Closing Panel and Inner Wheelhouse Assembly

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF G	N/A	N/A	LR044288	x 1	W780389 SJ46
Breakstem Fastener	BSF L	N/A	N/A	LR147840	x 5	W781047 SJ90
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 4	W780579 SJ90
Breakstem Fastener	BSF N	N/A	N/A	LR147842	x 5	W781049 SJ90
Breakstem Fastener	BSF J	N/A	N/A	LR094293	x 2	W780623 SJ90

Rear Side Member Reinforcement Panel

FIXING TYPE	CODE	DIE TYPE	LOAD (KN)	PART NUMBER	AMOUNT REQUIRED	WERS NUMBER
Breakstem Fastener	BSF E	N/A	N/A	LR044287	x 9	W780388 SJ46
Breakstem Fastener	BSF M	N/A	N/A	LR147841	x 5	W780579 SJ90
Breakstem Fastener	BSF O	N/A	N/A	LR147843	x 2	W781208 SJ90

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