

Models

Model variant	Matchless Model G2 AJS Model 14			Matchless G2CSR AJS Model 14CSR		Matchless G2CS AJS Model 14CS			Matchless G5 AJS Model 8		
	1958-60	1961	1962	1962-64	1965-	1959-60	1961	1962	1960	1961	1962
Year	1958-60	1961	1962	1962-64	1965-	1959-60	1961	1962	1960	1961	1962
Engine number	All	All	12128-	All	All	All	All	All	All	All	12128-
Type	Roadster					Scrambler			Roadster		
Engine size	250cc								350cc		
Primary drive	Simplex		Duplex			Simplex 1/2"			Duplex		
Clutch	7 plate					9 plate					
Engine sprocket	042209	042209	044057	044057	044057	042717	042717	044057	044057	044057	044057
Primary chain	042184	042184	044059	044059	044059	042722	042722	044059	044059	044059	044059
Sprocket & basket complete	043197	043197	043444	043444	043444	043170	043170	043340	043340	043340	043340
Clutch basket	043198	043198	043198	043198	043198	043172	043172	043172	043172	043172	043172
Clutch pressure plate	040365	040365	040365	040365	040365	040365	040365	043362	043362	043362	043362
Single-sided clutch plate	043193	043193	043193	043193	043193	043193	043193	#N/A	#N/A	#N/A	#N/A
Steel clutch plate #1	043191	043191	043191	043191	043191	043191	043191	043191	043191	043191	043191
Double-sided clutch plate #1	043192	043192	043192	043192	043192	043192	043192	043192	043192	043192	043192
Steel clutch plate #2	043191	043191	043191	043191	043191	043191	043191	043191	043191	043191	043191
Double-sided clutch plate #2	043192	043192	043192	043192	043192	043192	043192	043192	043192	043192	043192
Steel clutch plate #3	043191	043191	043191	043191	043191	043191	043191	043191	043191	043191	043191
Double-sided clutch plate #3	#N/A	#N/A	043192	043192	043192	043192	043192	043192	043192	043192	043192
Steel clutch plate #4	#N/A	#N/A	#N/A	#N/A	#N/A	043191	043191	043191	043191	043191	043191
Double-sided clutch plate #4	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	043192	043192	043192	043192
Thick single-sided clutch plate	043194	043194	#N/A	#N/A	#N/A	043194	043194	#N/A	#N/A	#N/A	#N/A
Shouldered clutch plate	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	043342	043342	043342	043342
Splined clutch centre	043185	043185	043337	043337	043337	043172	043172	043337	043337	043337	043337
Centre spider (shock absorber)	043186	043186*	043509	043509	043509	043186	043186	043509	043186	043186^	043509
Spring stud	043189	043189	043189	043189	043189	043174	043174	043338	043338	043338	043338
Race plate	043196	043196	043196	043339	043339	043196	043196	043339	043339	043339	043339
Back plate	043195	043195	043195	043341	043341	043195	043195	043341	043341	043341	043341
Shock absorber cover plate	043187	043187	043187	043187	043187	040362	040362	040362	043187	043187	043187
Clutch rod	042208	042208	042725	042725	042725	042725	042725	042725	042725	042725	042725
Mainshaft	041263	041263**	041703	041703	041703	041263	041263	041703	041701	041701^^	041703
1st gear mainshaft	041279	041279	041279	041279	041279	041197	041197	041197	041279	041279	041279
1st gear layshaft	041291	044080	044080	044080	044080	041198	042954	042954	041291	044080	044080
2nd gear layshaft	041276	044082	044082	044082	044076	041276	044082	044082	041276	044082	044082
3rd gear mainshaft	041276	044076	044076	044076	044076	041276	044076	044076	041276	044076	044076
4th gear mainshaft	041273	044075	044075	044075	044075	042682	042850	042850	041273	044075	044075
4th gear layshaft	041290	041290	041290	041290	043666	042683	042683	042683	041290	041290	041290
Final drive sprocket	041269	041269	041255	041255	041255	041255	041255	041255	041268	041268	041268
Rear chain	042194	042194	044046	043594	043594	042742	042742	043072	044046	044046	044046
Rear sprocket	043291	043291	043291	043291	043291-56	042638	042638	042873	043291	043291	043291
* 043186 up to gearbox number 9974 and 10064 to 10128, 043509 for gearbox number 9975 to 10063 and 10129 on (with simplex primary chain)											
** 041263 up to gearbox number 9974 and 10064 to 10128, 043058 for gearbox number 9975 to 10063 and 10129 on (with simplex primary chain)											
^ 043186 up to gearbox number 3757, 043509 for gearbox number 3758 onwards											
^^ 041701 up to gearbox number 3757, 041703 for gearbox number 3758 onwards											

Parts list

Part number	Part description	Identifying features
042209	Engine sprocket	21 teeth
042210	Engine sprocket	22 teeth (optional fitting 1959 250 only)
042717	Engine sprocket	17 teeth
044057	Engine sprocket	22 teeth duplex
042184	Primary chain	73 links 3/8" x .225" simplex
042722	Primary chain	55 links 1/2" x .205" simplex
044059	Primary chain	72 links 3/8" x .225" duplex
043197	Sprocket & basket complete	For 3/8" pitch simplex chain
043170	Sprocket & basket complete	For 1/2" pitch simplex chain
043340	Sprocket & basket complete	For 3/8" pitch duplex chain, deep basket, 46 teeth
043444	Sprocket & basket complete	For 3/8" pitch duplex chain, shallow basket, 46 teeth
043198	Clutch basket	Shallow type (15/16" slots)
043172	Clutch basket	Deep type (1 3/16" slots)
040365	Clutch pressure plate	Same as AMC and Norton gearbox
043362	Clutch pressure plate	Possibly identical to 040365?
043191	Steel clutch plate	Outer tangs, plain steel
043192	Double-sided clutch plate	Inner tangs, friction material on both sides
043193	Single-sided clutch plate	Inner tangs, friction material one side only
043194	Thick single-sided clutch plate	Inner tangs, friction material one side only, 7/32" thick
043342	Shouldered clutch plate	Outer tangs, plain steel, recess inwards
043185	Splined clutch centre	With shoulders, for 7 plates, must use with 043194 inner clutch plate
043172	Splined clutch centre	With shoulders, for 9 plates, must use with 043194 inner clutch plate
043337	Splined clutch centre	Without shoulders
043186	Centre spider (shock absorber)	Use with mainshaft 041263 or 041701 (up to 1961 approx.)
043509	Centre spider (shock absorber)	Use with mainshaft 043058 or 041703 (approx. 1961-)
043189	Spring stud	For all 7 plate clutches
043174	Spring stud	For simplex, 9 plate clutches
043338	Spring stud	For duplex, 9 plate clutches
043196	Race plate	For simplex sprocket
043339	Race plate	For duplex sprocket
043195	Back plate	For simplex sprocket - doesn't cover the rivets
043341	Back plate	For duplex sprocket - covers the rivets
043187	Shock absorber cover plate	Roadster, possibly same as 040362?
040362	Shock absorber cover plate	Scrambler (also Norton)
042208	Clutch rod	9.9"
042725	Clutch rod	10.1"
041701	Mainshaft	350cc up to gearbox number 3757 (up to 1961)
041703	Mainshaft	350cc gearbox number 3758 onwards (approx 1961-), CSR and 250cc with duplex primary chain
041263	Mainshaft	250cc up to gearbox number 9974 and 10064 to 10128 (up to 1961 approx.)
043058	Mainshaft	250cc gearbox number 9975 to 10063 and 10129 on (approx. 1961-1962) with simplex primary chain
041279	1st gear mainshaft	16 teeth, all except CS
041197	1st gear mainshaft	18 teeth, CS only
041291	1st gear layshaft	30 teeth, plain steel bush
041198	1st gear layshaft	28 teeth, plain steel bush, CS only
044080	1st gear layshaft	30 teeth, bronze bush
042954	1st gear layshaft	28 teeth, bronze bush, CS only
041276	2nd gear layshaft	25 teeth, peg-style dogs, pair with 041273, superseded by 044082 or 044076
044082	2nd gear layshaft	25 teeth, peg-style dogs on one side, thicker dogs on the other side, replaces 041276
044076	2nd gear layshaft	25 teeth, undercut dogs, replaces 041276 and 044082, apparent mismatch with drilled dogs on 1st gear (?)
041276	3rd gear mainshaft	25 teeth, peg-style dogs, pair with 041273, superseded by 044076 (with 044075 or 042850)
044076	3rd gear mainshaft	25 teeth, undercut dogs, always pair with 044075 or 042850
041273	4th gear mainshaft	28 teeth, drilled dogs, pair with 041276, superseded by 044075 (with 044076)
042682	4th gear mainshaft	28 teeth, 1960 CS only, superseded by 042850 (with 044076)
044075	4th gear mainshaft	28 teeth, undercut dogs, always pair with 044076
042850	4th gear mainshaft	28 teeth, 1961 CS only, undercut dogs, always pair with 044076
041290	4th gear layshaft	18 teeth, all except CS & late CSR
042683	4th gear layshaft	18 teeth, CS only
043666	4th gear layshaft	19 teeth (possibly), late CSR only
041269	Final drive sprocket	19 teeth
041255	Final drive sprocket	17 teeth
041268	Final drive sprocket	18 teeth
041270	Final drive sprocket	20 teeth (optional fitting)
042194	Rear chain	125 links 1/2" x .305"
042742	Rear chain	131 links 1/2" x .305"
044046	Rear chain	123 links 1/2" x .305"
043594	Rear chain	124 links 1/2" x .305"
043072	Rear chain	133 links 1/2" x .305"
043291	Rear sprocket	Roadster sprocket, 55 teeth
043291-56	Rear sprocket	Roadster sprocket, 56 teeth
042638	Rear sprocket	Scrambler sprocket, 70 teeth
042873	Rear sprocket	Scrambler sprocket, 62 teeth

Gear ratios

	Gear	1st	2nd	3rd	4th
Standard	Mainshaft	16	21	25	28
	Layshaft	30	25	21	18
	Ratio	2.92	1.85	1.31	1
CS	Mainshaft	18	21	25	28
	Layshaft	28	25	21	18
	Ratio	2.42	1.85	1.31	1
Late CSR	Mainshaft	16	21	25	28
	Layshaft	30	25	21	19
	Ratio	2.76	1.75	1.24	1