





Iss 14/11/2000

4 speed front wheel drive transverse, drop gear drive.  
Austin Mini, 1100, 1300, Allegro 1300 & Metro

**AUTOMOTIVE PRODUCTS**  
**AP II**

Illus	Description	Year	Part No.	Illus	Description	Year	Part No.
<b>KITS</b>							
<b>FOR EARLY BOLT ON DIFF FLANGES</b>							
	Overhaul Kit	-79	132 02 01	35	Valve body to case "O" ring (6)		113 16 09
	Gasket & Rubber	-79	132 03 01	39	Main oil strainer grommet		132 19 01
	Engine Conversion	-79	132 03 03	40	Aux strainer grommet		132 19 02
	Gasket*****	-79	132 04 01	41	Diff squash seals (2)		132 20 01
	Rubber	-79	132 05 01	42	Engine bearing cap seal		132 20 02
<b>FOR LATE POP-IN DIFF FLANGES</b>				NI	Lower relief hole plug		132 20 03
	Overhaul			<b>METAL CLAD SEALS</b>			
	Mini Eng. No 99H/792P 20177 to 37631	79-81	132 02 03	57	Converter (large)		132 15 01
	Mini Eng.No. 99H/792P 37632 on	81-	132 02 04	58	Converter (small)		132 15 02
	Allegro Eng No 12H/624A A6155 on	79-	132 02 03	58	Converter (small) (for late housing)		132 15 08
	Metro all		132 02 04	59	Speedo driven shaft		132 15 03
	Gasket & Rubber	79-	132 03 02	60	Diff output shafts (2)	-79	132 15 04
	Engine Conversion	79-	132 03 04	60	Diff output shafts (2)	79-	132 15 07
	Gasket	79-	132 04 02	61	Selector rod 0.250"	-71	132 15 05
	Rubber	79-	132 05 01	61	Selector rod 0.312"	71-	132 15 06
<b>OTHER KITS</b>							
	Forward clutch repair kit	-79	132 07 01	<b>SHAFT SEALING RINGS</b>			
	Forward clutch repair kit	79-	132 07 04	65	Reverse clutch piston		132 26 01
	Top & reverse repair kit (2 paper)		132 07 02	66	Top clutch piston		132 26 02
	Top & reverse repair kit (3 paper)		132 07 03	67	Forward output shaft (3)	-69	132 26 03
	Top & reverse repair kit (3 sintered))		132 07 05	67	Forward output shaft (2)	69-	114 26 05
<b>GASKETS</b>				68	Forward clutch shaft (2)	-81	132 26 04
<b>EARLY GASKETS</b>				68	Forward clutch shaft (2)	81-	132 26 06
1	Converter Housing	-79	132 25 01	NI	Input shaft teflon ring (Metro only) (1)		132 26 07
1	Converter Housing (0.010" thick)	-79	132 25 16	<b>CLUTCH PLATES</b>			
3	Governor Cover	-79	132 25 03	45	Forward clutch lined (red paper) (2)		132 11 05
6	Diff Housing lower	-79	132 25 06	45	Forward clutch lined (black paper) (2)		132 11 06
7	Diff Housing upper)	-79	132 25 07	45	Forward clutch lined OEM (black paper) (2)		132 11 07
<b>LATE GASKETS</b>				46	Forward clutch steel selective 0.064" thick (1)		132 12 01
1	Converter Housing	79-	132 25 17	46	Forward clutch steel selective 0.075" thick (1)		132 12 03
1	Converter Housing (0.010" thick)	79-	132 25 21	47	Forward pressure circlip end 0.210/0.215""		132 13 10
3	Governor Cover	79-	132 25 18	47	Forward pressure circlip end 0.230/0.235""		132 13 11
6	Diff Housing lower	79-	132 25 20	47	Forward pressure circlip end 0.250/0.255""		132 13 12
7	Diff Housing upper	79-	132 25 19	47	Forward pressure circlip end 0.342"		132 13 02
<b>OTHER GASKETS</b>				47	Forward pressure circlip end 0.362"		132 13 01
2	Valve body & servo cover		132 25 02	NI	Pressure plate packing piece 0.040" thick A/R		132 12 06
4	Engine to transmission Diff side		132 25 04	48	Fwd press & 132 12 06 0.140"/0.180" thk		132 13 05
5	Engine to transmission servo side		132 25 05	48	Fwd press use w/ 3 friction 0.156" thk		132 13 09
8	Diff bearing cover ( 2 needed 79 on)		132 25 08	49	Top & rev lined (red paper) (2/3)		132 11 05
9	Filter to front cover		132 25 10	49	Top & rev lined (black paper) (2/3)		132 11 06
10	Low pressure valve		132 25 11	49	Top & rev lined OEM (black paper) (2/3)		132 11 07
11	Governor rod to case		132 25 12	49	Top & rev lined (sintered) (3)		132 11 03
12	Speedo drive to governor cover		132 25 13	50	Top & rev steel (use with paper) (1/2)		132 12 02
13	Speedo gear to drive unit		132 25 14	50	Top & rev steel 0.104 soft unground		132 12 04
14	Engine oil pump to block		132 25 15	50	Top & rev steel selective 0.092" hard & ground		132 12 05
NI	End cover breather hole		132 25 22	or			133 12 01
<b>RUBBER COMPONENTS</b>				50	Top & rev steel selective 0.104" hard & ground		133 12 02
36	Forward clutch piston lip seal		132 18 01	50	Top & rev steel selective 0.116" hard & ground		133 12 03
20	Forward clutch piston "O" ring		132 16 01	50	Top & rev steel selective 0.128" hard & ground		133 12 04
21	Front cover to valve body "O" ring		132 16 02	51	Top & rev pres (for 2 frict) 0.285" unground		132 13 03
22	Governor housing "O" ring		132 16 02	51	Top & rev pres (for 3 frict) 0.265" hard & ground		132 13 04
23	Reverse shut off valve "O" ring		132 16 02	51	Top & rev pres selective 0.265" hard & unground		132 13 06
24	Reverse shut off valve "O" ring (2)		132 16 10	51	Top & rev pres selective 0.282" hard & unground		132 13 07
25	Top & Reverse pistons "O" ring (2)		132 16 04	51	Top & rev pres selective 0.301" hard & unground		132 13 08
26	Top & reverse piston "O" ring (1)		132 16 05	<b>BRAKE BANDS</b>			
27	Reverse output gear (3)		132 16 06	55	Forward 0.750" wide (2)		132 14 11
NI	Reverse gear sealing "O" ring (1)	83 on	132 16 12	56	Reverse 1.000" wide		132 14 12
28	Oil strainer pipe to engine "O" ring		132 16 07	<b>FILTER</b>			
29	Pump elbow pipe "O" ring (1)		132 16 02	NI	Engine oil filter 1100, 1300, Allegro(short type)		132 27 01
30	Pump elbow pipe "O" ring (2)		132 16 09	NI	Engine oil filter Mini & Metro (long type)		132 27 02
31	Servo connecting pipes "O" ring (6)		132 16 10				
38	Second gear servo lip seal		132 18 03				
37	Third gear servo lip seal		132 18 02				
38	Reverse servo lip seal		132 18 03				
32	Converter feed pipe "O" ring		138 16 01				
33	Feed pipe to valve body "O" ring		132 16 09				
34	Eng to transmission pipe adapter		113 16 09				

# AUTOMOTIVE PRODUCTS

## AP II

4 speed front wheel drive transverse, drop gear drive.  
Austin Mini, 1100, 1300, Allegro 1300 & Metro

Iss 14/11/2000



Illus	Description	Year	Part No.	Illus	Description	Year	Part No.
<b>BUSHES &amp; BEARINGS</b>				123	Gearset side gear sel 0.033" - no notch	(2)	132 22 44
80	Idler gear open (early - 1" dia & 17 needles)		132 21 01	123	Gearset side gear sel 0.035" - 1 notch	(2)	132 22 45
81	Idler gear blind (early - 1" dia & 17 needles)		132 21 03	<b>TUBES</b>			
80	Idler gear open (late - 1.0625" & 15 needles)		132 21 05	163	Forward clutch apply		132 29 33
81	Idler gear blind (late - 1.0625" & 15 needles)		132 21 04	164	Auxiliary pump out		132 29 34
80	Idler gear Allegro 1.375" O/D use with early idler(2)		132 21 30	NI	Top & reverse feed		132 63 01
80	Idler gear (Metro & late Mini)	(2)	132 21 29	NI	Converter feed with non-return		132 63 02
82	Gearset spindle outer	(2)	132 21 07	<b>SHIMS</b>			
83	Gearset spindle inner	(2)	132 21 08	125	Input gear 0.003"		132 22 24
84	Sprag clutch bearing		132 21 09	125	Input gear 0.012"		132 22 25
85	Input shaft		132 21 10	126	Diff bearing 0.002"		132 36 01
88	Third gear reaction bush (not bored)		132 21 02	126	Diff bearing 0.003"		132 36 03
NI	Diff gears (not bored)		132 21 11	129	Centre bearing 0.015"		132 36 07
90	Diff drive flanges (not bored)		132 21 12	129	Centre bearing 0.019"		132 36 06
91	Converter output gear - front 1300cc (not bored)		132 21 13	129	Centre bearing 0.024"		132 36 05
91	Converter output gear -front-Mini (not bored)		132 21 15	<b>CIRCLIPS</b>			
92	Converter output gear - rear - all		132 21 14	73	Reverse clutch shut off piston		132 32 01
NI	Gearset output shaft		132 21 17	74	Top & reverse clutch spring		132 32 02
NI	Gearset bridge - plain		132 21 18	75	Top & reverse clutch drum		132 32 03
NI	Gearset bridge - slotted		132 21 19	76	Idler gear bearing , cover side		132 32 05
97	Input shaft roller bearing		132 21 20	NI	Drive flange retainer		132 32 07
98	Drive pinion centre roller bearing	(2)	132 21 24	<b>LOCKTABS</b>			
99	Differential	(2)	132 21 25	133	Diff crown wheel bolts	(3)	132 34 01
	Diff distance piece		132 21 32	134	Diff case (formed curve)		132 34 02
	Auxiliary pump unmachined		132 21 28	135	Diff case (flat)		132 34 03
<b>THRUST WASHERS</b>				136	Dowel bolt		132 34 04
102	Top & Rev hub needle bearing		132 23 01	137	Stator reaction flange	(2)	132 34 05
103	Top & Rev hub stepped plate		132 22 27	NI	Torque converter bolts	(3)	132 34 05
104	Top & rev hub plain plate		132 22 26	NI	Torque converter locking bolt	(1)	132 34 06
105	Top & Rev to 3rd reaction needle		132 23 02	138	Gearset bridge	(2)	132 34 07
106	Top & Rev to 3rd reaction std thin plate		132 22 38	139	Sprag clutch housing	(2)	132 34 08
107	Top & Rev to 3rd reaction sel 0.077"		132 22 16	140	Centre bearing nut		132 34 09
107	Top & Rev to 3rd reaction sel 0.073"		132 22 17	141	Bellcrank pivot to cover		132 34 10
107	Top & Rev to 3rd reaction sel 0.069"		132 22 18	NI	Cover to case dowel (bottom)		132 34 11
107	Top & Rev to 3rd reaction sel 0.065"		132 22 19	NI	Cover to case dowel (top)		132 34 12
108	Top & Rev input gear needle		132 23 01	<b>HARD PARTS</b>			
109	Top & Rev input gear plain plate		132 22 40	70	Forward clutch release springs	(10)	132 24 01
110	Gearset side gear needle	(2)	110 23 03	71	Top & rev plate release springs	(2/3)	132 24 02
111	Gearset side gear plain plate		132 22 39		Forward clutch assembly - not Metro		132 29 02
115	Converter output gear sel not 1300cc 0.111"		132 22 01		Forward clutch complete - Metro		132 29 86
115	Converter output gear sel not 1300cc 0.113		132 22 02		Aux pump/gov - Metro & late Mini		132 29 87
115	Converter output gear sel not 1300cc 0.115"		132 22 03	145	Sprag clutch		132 29 01
115	Converter output gear sel not 1300cc 0.115"		132 22 04		Sprag clutch outer race		132 29 72
115	Converter output gear sel not 1300cc 0.119"		132 22 05		Sprag clutch inner race		132 29 84
115	Converter output gear sel 1300cc 0.113"		132 22 33		Top gear (Mini)	-81	132 29 63
115	Converter output gear sel 1300cc 0.115"		132 22 34		Top gear (exc Mini)	-81	132 29 67
115	Converter output gear sel 1300cc 0.117"		132 22 35		Idler gear - all to 81	-81	132 29 05
115	Converter output gear sel 1300cc 0.119"		132 22 36		Idler - Metro & late Mini	-81	132 29 62
116	Idler gear sel 0.130"	(2)	69-81 132 22 06		Bottom gear	-81	132 29 64
116	Idler gear sel 0.132"	(2)	69-81 132 22 07		Top gear (Mini not 1275cc)	81-	132 29 68
116	Idler gear sel 0.134"	(2)	69-81 132 22 08		Top gear (Metro & 1275cc Mini)	81-	132 29 65
116	Idler gear sel 0.136"	(2)	69-81 132 22 09		Idler gear (Metro & late Mini)	81-	132 29 62
116	Idler gear sel 0.138"	(2)	69-81 132 22 10		Bottom gear (Metro & late Mini)	81-	132 29 66
116	Idler gear sel 0.132"	(2)	81- 132 22 47		Kickdown linkage & pivot assembly		132 29 55
116	Idler gear sel 0.134"	(2)	81- 132 22 48		Reverse clutch cut-off kit (early type)		132 29 06
116	Idler gear sel 0.136"	(2)	81- 132 22 49		Reverse clutch cut-off valve piston (lighthouse)		132 29 07
116	Idler gear sel 0.138"	(2)	81- 132 22 50		Reverse clutch cut-off valve (late tapered)		132 29 82
117	Forward input shaft		132 22 29		Reverse clutch assembly - Metro		132 29 03
118	Fwd clutch to pump early babbit faced		132 22 30	148	Main pump drive key (3 lobbed)		132 29 08
118	Fwd clutch to pump late plain steel		132 22 46	149	Low pressure valve		132 29 09
119	Diff gear fibre	(2)	132 22 31	NI	Converter to crankshaft round key		132 29 10
120	Diff planets dished copper - no lugs	(2)	-84 132 22 32	150	Main oil pump assembly		132 29 11
120	Diff planets dished copper - with lugs	(2)	84- 132 22 51	150	Main oil pump shaft (not Metro)		132 29 12
121	Fwd gear to bridge		132 22 41	150	Main oil pump assembly (Metro)		132 29 56
122	3rd reaction to rev gear slotted (not bored)		132 22 42				
123	Gearset side gear sel 0.031" - 2 notches	(2)	132 22 43				



Iss 14/11/2000

4 speed front wheel drive transverse, drop gear drive.  
Austin Mini, 1100, 1300, Allegro 1300 & Metro**AUTOMOTIVE PRODUCTS****AP II**

Illus	Description	Year	Part No.	Illus	Description	Year	Part No.
152	Dowel screw for sprag reaction retention		132 29 17				
153	Manual control bell crank lever (flat)		132 29 18				
154	Clevis - cable to bell crank		132 29 19				
155	Pivot pin for bell crank (early)		132 29 22				
	Pivot pin for bell crank (late)		132 29 89				
	Control rod bracket		132 29 24				
157	Control rod - Metro 27cm long		132 29 14				
157	Control rod (0.3125" dia)		132 29 25				
	Converter gear "C" clip		132 29 26				
	Differential planet gears	(2)	132 29 58				
	Differential planet gear pin	(1)	132 29 27				
	Differential cage		132 29 51				
159	Gearset ball retaining screw	(2)	132 29 28				
158	Gearset spindle	(2)	132 66 03				
	Gearset side gears (matched pairs)	(2)	132 66 02				
	Top & reverse feed gear	(1)	132 66 06				
	Input inner gear	(1)	132 66 07				
	Gearset carrier & bridge (matched)		132 66 05				
	Input shaft		132 66 04				
	Dowel - governor cover (stepped)	(2)	132 29 32				
	Dowel - converter house to case - short		132 29 43				
	Dowel - converter house to case - long		132 29 44				
	Dowel screw OWC outer to case		132 29 57				
	Primary gear oil seal housing (early)		132 29 37				
	Primary gear oil seal housing (late)		132 29 83				
	End cover breather hole blanking plate		132 29 69				
	Servo & V/B front cover (not Metro)						
	Servo & V/B front cover (Metro only)		132 29 90				
	<b>MISCELLANEOUS</b>						
	Inhibitor switch Mini, 1100, 1300		132 35 02				
	Inhibitor switch Metro		132 35 01				
	Speedo drive gear (Allegro)		132 29 41				
	Speedo drive gear (exc Allegro)		132 29 45				
	Speedo driven gear (Allegro)		132 29 42				
	Speedo driven gear (exc Allegro)		132 29 46				
	Starter ring gear - 107 teeth		132 70 03				
	Starter ring gear - 129 teeth		132 70 05				
	Starter distance piece (use early T/C on late car)		132 70 04				
	2nd band controlled release valve (V/B part)		132 29 73				
	Dampened regulator valve (V/B part)		132 29 74				
	Dampened regulator valve sleeve (V/B part)		132 29 75				
	Clip link to governor -late units		132 29 76				
	Lock clip - park lock adjuster		132 29 77				
	Cam -park lock selective		132 29 78				
	Cam -park lock selective		132 29 79				
	Cam -park lock selective		132 29 80				
	Park lock pawl		132 29 81				
	Converter central securing bolt	(1)	132 37 11				
	Converter nose screw	(6)	132 37 06				
	Modified Metro filter		132 27 04				
	Modified Metro adapter		132 29 91				
	Modified Metro cooler hose (Eng)		132 63 07				
	Modified Metro cooler hose (g/box)		132 63 08				
	<b>TORQUE CONVERTERS</b>						
	With 107 tooth ring gear set on edge		132 30 01				
	With 107 tooth ring gear set in centre		132 30 03				
	With 129 tooth ring gear set in centre		132 30 04				
	With 129 tooth ring gear and timing ring on centre		132 30 05				
	<b>CABLES</b>						
	Mini selector for 1-2-3-4-D positions		132 50 01				
	Mini selector for 1-2-3-D positions		132 50 04				
	1100, 1300		132 50 02				
	Allegro		132 50 03				