

Manifest No.	Title	Material	Quanti
054	O-Ring, 33.0ID X 1.78mm	AS 568-027, Viton or Silicon	1
345	1/4" Washer Fibre	Fibre	2
501	Gear Box Case, Back	Aluminum A356.0 – T6	1
502	Gear Box Case, Front	Aluminum A356.0 – T6	1
503	Taper Roller Bearing, 32008 X	Steel	3
504	Taper Roller Bearing, 30208	Steel	1
505	Bearing SKF 61810	Steel	2
506	Gear Box Seal, 50x65x8, HMSA7 R	Nitrile Rubber	2
509	Splined Shaft	SUP6 Spring Steel-quenched @ 870C,tempered @ 480C & quenched in Quindella 32	1
514	Output Gear, 46T	Steel	1
517	Final Output Shaft	9310 Steel	1
519	1-1/2 -18 UNEF Nut	4340 Steel	1
520	Thrust Plate	Brass	1
521	Thrust Plate Large	Brass	1
522	SHES, M8 X 1.25 X 45	Steel Grade 12.9	1
523	SHES, M8 x 1.25 x 25	Steel Grade 12.9	3
524	SHES, 5/16-18 UNE x 2.0	Steel Grade 12.9	4
525	Washer, M8 narrow	Steel	3
526	Oil Drain Plug	Brass, yellow brass	1
527	Dowel 6 x 10mm	Mild Steel	2
528	Dowel 10mm x 20	4130 Steel	2
529	Oil Filler Plug	Machined Stainless Steel	1
530	SHES 1/4-20 UNE x 0.375"	Steel Grade 8.8	2
531	Gear Box Seal, 50x70x8, HMS4 R	Nitrile Rubber	1
532	SHES M4 x 0.7 x 8	Steel Grade 12.9	1
533	Nut, M8 x 1.25 Nyloc	Steel Grade 8.8	1
534	SHES, M10 x 1.5 x 50	Steel Grade 12.9	1
535	Washer, M10 SAE	Mild Steel	4
536	Nut, M10 x 1.5 Nyloc	Steel Grade 8.8	1
537	SHES, M8 x 1.25 x 50	Steel Grade 12.9, Copper Plated	1
538	SHES, M10 x 1.5 x 60	Steel Grade 12.9, Copper plated	1
539	Nut, M10 x 1.5	Steel Grade 10.9	2
540	Nut, M8 x 1.25	Steel Grade 10.9	2
541	SHES, M8 x 1.25 x 65mm	Steel Grade 12.9	1
546	0-Ring, Gear Box, 1.78mm x 163 ID	N70 Nitrile	1
547	0-Ring, 1.25mm x 76.0 ID	N70 Nitrile	1
549	BHSES 5/16-18 UNE x 1/2"	Steel Grade 12.9	1
550	Washer, 5/16 inch, SAE	Fibre	1
552	Thrust bolt	Steel, grade 8 bolt	1
559	Output flange boss	Steel	1
571	Input Gear, 23T for clutch	9310 Steel, case hardened	1
572	Clutch drum	Steel, 4130	1
574	574, Clutch carrier	Steel, 9310	2
575	575, Clutch shaft	Steel, 4130	1
577	Garter spring- large assembled	Stainless steel	4
580	Tungstone insert	Tungstone HD-17BB	16
581	15mm ext circlip	Steel	1
582	Bearing 2RS	61804	3
743	Transmission Shim Set		1
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	REVISION HISTORY									
REV.	DESCRIPTION	DATE	APPROVED							
03	REFER TO REVISION CONTROL LIST	18 DEC 07	WLW							

Drawing Revision Control:							
Rev:		Mod by					
01	09 JUL 07			PARTS #520 AND #521 ADDED TO ASSEMBLY. PARTS LIST MOVED TO DRAWING			
				SHEET 2.			
02	19 OCT 07	DCB	WLW	PART 522 WAS M8 X I,25 X 35. PART 578 GARTER SPRING DELETED (4 OFF)			
				ASSY. 743 ADDED AS OPTIONAL.			
03	18 DEC 07	DCB	WLW	SPRING RETENTION GROOVE DELETED FROM PART 576, CLUTCH SHOE REF:			
				765, CLUTCH SHOE ASSEMBLY.			

			UNLESS OTHERWISE SPECIFIED:		NAME	DATE	DDVM	DRAWING NO. 781			
PROPRIETARY_MOLCONDIDENTIAL. THE INFORMATION CONTINUED IN THIS DRAWING IS THE SOLE PROPERTY OF AEROTION MOTORS CORPORATION ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE EXPRESS PERMISSION OF AEROTION MOTORS CORPORATION IS PROHIBITED.				DRAWN	DCB	3/26/2007	DRAWING NO. 701				
			TOLERANCING TO ANSI Y 14.5 1994	CHECKED	WLW	3/26/2007	TITLE: 781, Gear box I to 2 ratio and clutch explod				
			DIMENSIONS ARE IN mm GENERAL TOLERANCES: I DEC. PLACE = ±0.5 2 DEC. PLACES = ±0.25	ENG. APPR.							
				MFG. APPR.							l bet
			3 DEC. PLACES = ±0.10 ANGULAR = ±0.3°	Q.A.			1				
9			BREAK EDGES 0.3 CORNER RADII 0.3 MACHINE FINISH 125µin/3.2µm Ra	COMMENTS:			SIZE				
aerotwin	NEXT ASSY.	USED ON					A2 0	CONDITION	REFER TO PART DRAW	VINGS	03
	APPLICATION DO NOT SCALE DR		DO NOT SCALE DRAWING	DO NOT SCALE DRAWING			SCALE: SHOWN WEIGHT: SHOWN SHEET 2 OF 2				F 2

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