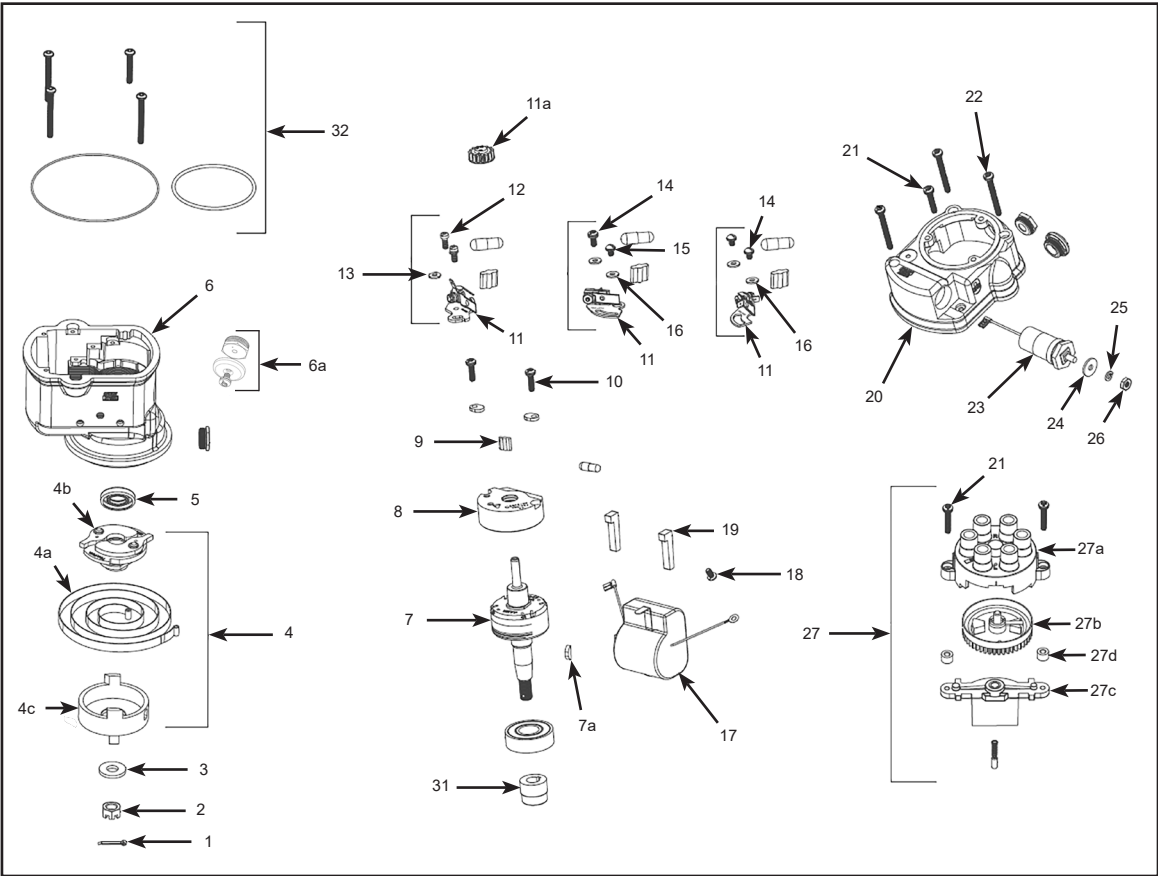




NOTE

Illustration for reference only -- may not resemble actual part. Use index and part number to select part required.

Key to ES6300 Magneto

1	Cotter Pin † Δ	11a	Rotor Gear	27	Dist. Block & Gear Assy.
2	Nut	12	Screw Δ	27a	Block Assy. - 6 CYL
3	Washer	13	Washer Δ	27b	Gear Assy. - 6 CYL
4	Impulse Coupling Assy.	14	Screw Δ	27c	Bridge Assy. - 6 CYL
4a	Impulse Spring Δ	15	Screw Δ	27d	Spacer
4b	Impulse Cam Assy.	16	Washer Δ	28	N/A
4c	Impulse Body	17	Coil, Ignition	29	N/A
5	Oil Seal	18	Screw Δ	30	Clamp Kit †
6	Frame	19	Coil Wedge	31	Bushing
6a	Vent Assembly Δ	20	Housing	32	Gasket Pressure Kit Δ
7	Rotor	21	Screw Δ		
7a	Woodruff Key	22	Screw Δ		
8	Bearing Cap Assy.	23	Capacitor		
9	Cam	24	Phenolic Washer		
10	Screw Δ	25	Washer Δ		
11	Contact Assembly	26	Nut		

NOTE

If marked with Δ, replace with new whenever parts are removed.

†* Not shown
†† See § 6.4 for disassembly.

Figure 6.25 – ES6300 Magneto, Typical

Index Number	ITEM P/N	Description	Magneto Part Number												
			ES6309	ES6310	ES6313	ES6314	ES6320	ES6324	ES6340	ES6350	ES6351	ES6355	ES6360	ES6361	ES6362
1	AM-2556	COTTER PIN *	1	1	1	1	1	1	1	1	1	1	1	1	1
2	ES3019	NUT	1	1	1	1	1	1	1	1	1	1	1	1	1
3	ES3172	WASHER	1	1	1		1	1	N/A	N/A	N/A	N/A	N/A	N/A	1
3	ES5372	WASHER				1			N/A	N/A	N/A	N/A	N/A	N/A	
4	ES3050	IMPULSE COUPLING ASSY.**	N/A	1	N/A		1		N/A	N/A			N/A		1
4	ES3089	IMPULSE COUPLING ASSY.**	N/A		N/A	1		1	N/A	N/A			N/A		
4	ES3333	IMPULSE COUPLING ASSY.**	N/A		N/A				N/A	N/A	1		N/A	1	
4	ES3524	IMPULSE COUPLING ASSY.**	N/A		N/A				N/A	N/A			N/A		
4	ES3590	IMPULSE COUPLING ASSY.**	N/A		N/A				N/A	N/A			N/A		
4	ES5014	IMPULSE COUPLING ASSY.**	N/A		N/A				N/A	N/A			N/A		
4	ES5020	IMPULSE COUPLING ASSY.**	N/A		N/A				N/A	N/A			N/A		
4	ES3635	IMPULSE COUPLING ASSY.**	N/A		N/A				N/A	N/A		1	N/A		
4a	ES917	IMPULSE SPRING**	N/A	1	N/A	1	1	1	N/A	N/A	1	1	N/A	1	1
4b	ES3050-1	IMPULSE CAM ASSY.**	N/A	1	N/A		1		N/A	N/A			N/A		1
4b	ES3089-1	IMPULSE CAM ASSY.**	N/A		N/A	1		1	N/A	N/A			N/A		
4b	ES3333-1	IMPULSE CAM ASSY.**	N/A		N/A				N/A	N/A	1		N/A	1	
4b	ES3524-1	IMPULSE CAM ASSY.**	N/A		N/A				N/A	N/A			N/A		
4b	ES3590-1	IMPULSE CAM ASSY.**	N/A		N/A				N/A	N/A			N/A		
4b	ES5014-1	IMPULSE CAM ASSY.**	N/A		N/A				N/A	N/A			N/A		
4b	ES5020-1	IMPULSE CAM ASSY.**	N/A		N/A				N/A	N/A			N/A		
4b	ES3635-1	IMPULSE CAM ASSY.**	N/A		N/A				N/A	N/A		1	N/A		
4c	ES15004-53	IMPULSE BODY**	N/A	1	N/A		1		N/A	N/A			N/A		1
4c	ES15003-92	IMPULSE BODY**	N/A		N/A	1		1	N/A	N/A			N/A		
4c	ES15003-34	IMPULSE BODY**	N/A		N/A				N/A	N/A	1		N/A	1	
4c	ES15010-23	IMPULSE BODY**	N/A		N/A				N/A	N/A			N/A		
4c	ES15009-38	IMPULSE BODY**	N/A		N/A				N/A	N/A			N/A		
4c	ES15063-11	IMPULSE BODY**	N/A		N/A				N/A	N/A			N/A		
4c	ES15063-17	IMPULSE BODY**	N/A		N/A				N/A	N/A			N/A		
4c	ES15003-85	IMPULSE BODY**	N/A		N/A				N/A	N/A		1	N/A		
5	-	OIL SEAL	1	1	1	1	1	1							
5	-	OIL SEAL							1	1	1	1	1	1	1

* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30
 ** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c
 *** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d
 ♦ Screw ES3084-3 in the Vent Assembly ITM# 6a is a 100% replacement part at disassembly

Table 6.6 – Magneto Model ES6300 (Cont.)

Index Number	ITEM P/N	Description	Magneto Part Number												
			ES6309	ES6310	ES6313	ES6314	ES6320	ES6324	ES6340	ES6350	ES6351	ES6355	ES6360	ES6361	ES6362
6	-	FRAME		1			1								1
6	-	FRAME				1		1							
6	-	FRAME													
6	-	FRAME													
6	-	FRAME													
6	-	FRAME									1	1		1	
6	-	FRAME							1	1			1		
6	-	FRAME	1		1										
6a	ES3179	VENT ASSEMBLY ♦	N/A	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1	N/A
7	-	ROTOR		1			1								1
7	-	ROTOR				1		1							
7	-	ROTOR									1			1	
7	-	ROTOR										1			
7	-	ROTOR													
7	-	ROTOR	1		1										
7	-	ROTOR													
7	-	ROTOR								1			1		
7	-	ROTOR							1						
7a	-	WOODRUFF KEY	1	1	1	1	1	1	1	1	1	1	1	1	1
8	-	BEARING CAP ASSY.		1	1	1	1	1	1	1	1	1	1	1	1
8	-	BEARING CAP ASSY.	1												
9	AM3611	CAM	1	1	1	1	1	1	1	1	1	1	1	1	1
10	ES3221	SCREW	2	2	2	2	2	2	2	2	2	2	2	2	2
11	A-13081	CONTACT ASSEMBLY		1	1	1	1	1	1	1	1	1	1	1	1
11	ES3637	CONTACT ASSEMBLY	2												
11	ES3740	CONTACT ASSEMBLY													
11a	ES3828	ROTOR GEAR	1	1	1	1	1	1	1	1	1	1	1	1	1
12	A-13081-2	SCREW	N/A	1	N/A	1	1	1	1	1	1	1	1	1	N/A
13	A-13081-1	WASHER	N/A	2	N/A	2	2	2	2	2	2	2	2	1	N/A
14	ES3637-4	SCREW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	ES3637-5	SCREW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	ES3637-6	WASHER	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30

** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c

*** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d

♦ Screw ES3084-3 in the Vent Assembly ITM# 6a is a 100% replacement part at disassembly

Table 6.6 – (Cont.) Magneto Model ES6300

Index Number	ITEM P/N	Description	Magneto Part Number												
			ES6309	ES6310	ES6313	ES6314	ES6320	ES6324	ES6340	ES6350	ES6351	ES6355	ES6360	ES6361	ES6362
17	AK-3975	COIL, IGNITION	1	1	1	1	1	1	1	1	1	1	1	1	1
18	AM-3020	SCREW	1	1	1	1	1	1	1	1	1	1	1	1	1
19	ES3040	COIL WEDGE	2	2	2	2	2	2	2	2	2	2	2	2	2
20	-	HOUSING	1												
20	-	HOUSING													
20	-	HOUSING		1	1	1	1	1	1	1	1	1	1	1	1
21	AM-3021	SCREW	3	3	3	3	3	3	3	3	3	3	3	3	3
22	AM-3015	SCREW	3	3	3	3	N/A	N/A	N/A	3	3	3	N/A	N/A	3
23	AK-3984	CAPACITOR	1	1	1	1	1	1	1	1	1	1	1	1	1
24	AM-3183-3	PHENOLIC WASHER	N/A	1	N/A	1	1	1	1	1	1	1	1	1	N/A
25	AM-3183-2	WASHER, CAPACITOR	N/A	1	N/A	1	1	1	1	1	1	1	1	1	N/A
26	AM-3183-1	NUT, CAPACITOR	N/A	1	N/A	1	1	1	1	1	1	1	1	1	N/A
27	ES3823	DIST. BLOCK & GEAR ASSY. ***	1	1	1	1	1	1	1	1	1	1	1	1	1
27a	ES3820	BLOCK ASSY. - 6 CYL ***	1	1	1	1	1	1	1	1	1	1	1	1	1
27b	ES510404	GEAR ASSY. - 6 CYL ***	1	1	1	1	1	1	1	1	1	1	1	1	1
27c	ES510275-6	BRIDGE ASSY. - 6 CYL ***	1	1	1	1	1	1	1	1	1	1	1	1	1
27d	ES3826	SPACER ***	1	1	1	1	1	1	1	1	1	1	1	1	1
28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30	ES3328	CLAMP KIT * (not shown)	1	1	1	1	1	1							1
30	ES3520	CLAMP KIT * (not shown)													
30	ES3784	CLAMP KIT * (not shown)							1	1	1	1	1	1	
31	ES3343	BUSHING	N/A	N/A	N/A	N/A	N/A	N/A	1	1	1	1	1	1	N/A
32	ES3007	GASKET PRESSURE KIT	N/A	N/A	N/A	N/A	1	1	1	N/A	N/A	N/A	1	1	N/A

* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30

** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c

*** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d

♦ Screw ES3084-3 in the Vent Assembly ITM# 6a is a 100% replacement part at disassembly

Table 6.6 – (Cont.) Magneto Model ES6300

Index Number	ITEM P/N	Description	Magneto Part Number												
			ES6363	ES6364	ES6365	ES6367	ES6371	ES6377	ES6379	ES6380	ES6382	ES6390	ES6391	ES6393	ES6394
1	AM-2556	COTTER PIN *	1	1	1	1	1	1	1	1	1	1	1	1	1
2	ES3019	NUT	1	1	1	1	1	1	1	1	1	1	1	1	1
3	ES3172	WASHER	N/A	N/A	N/A	N/A	N/A	1	1	1	1	N/A	N/A	N/A	N/A
3	ES5372	WASHER													
4	ES3050	IMPULSE COUPLING ASSY.**	N/A		N/A		N/A			1	1	N/A	N/A	N/A	N/A
4	ES3089	IMPULSE COUPLING ASSY.**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
4	ES3333	IMPULSE COUPLING ASSY.**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
4	ES3524	IMPULSE COUPLING ASSY.**	N/A		N/A	1	N/A					N/A	N/A	N/A	N/A
4	ES3590	IMPULSE COUPLING ASSY.**	N/A	1	N/A		N/A					N/A	N/A	N/A	N/A
4	ES3635	IMPULSE COUPLING ASSY.**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
4	ES5014	IMPULSE COUPLING ASSY.**	N/A		N/A		N/A	1				N/A	N/A	N/A	N/A
4	ES5020	IMPULSE COUPLING ASSY.**	N/A		N/A		N/A		1			N/A	N/A	N/A	N/A
4a	ES917	IMPULSE SPRING**	N/A	1	N/A	1	N/A	1	1	1	1	N/A	N/A	N/A	N/A
4b	ES3050-1	IMPULSE CAM ASSY.**	N/A		N/A		N/A			1	1	N/A	N/A	N/A	N/A
4b	ES3089-1	IMPULSE CAM ASSY.**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
4b	ES3333-1	IMPULSE CAM ASSY.**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
4b	ES3524-1	IMPULSE CAM ASSY.**	N/A		N/A	1	N/A					N/A	N/A	N/A	N/A
4b	ES3590-1	IMPULSE CAM ASSY.**	N/A	1	N/A		N/A					N/A	N/A	N/A	N/A
4b	ES5014-1	IMPULSE CAM ASSY.**	N/A		N/A		N/A	1				N/A	N/A	N/A	N/A
4b	ES5020-1	IMPULSE CAM ASSY.**	N/A		N/A		N/A		1			N/A	N/A	N/A	N/A
4b	ES3635-1	IMPULSE CAM ASSY.**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
4c	ES15004-53	IMPULSE BODY**	N/A		N/A		N/A			1	1	N/A	N/A	N/A	N/A
4c	ES15003-92	IMPULSE BODY**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
4c	ES15003-34	IMPULSE BODY**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
4c	ES15010-23	IMPULSE BODY**	N/A		N/A	1	N/A					N/A	N/A	N/A	N/A
4c	ES15009-38	IMPULSE BODY**	N/A	1	N/A		N/A					N/A	N/A	N/A	N/A
4c	ES15063-11	IMPULSE BODY**	N/A		N/A		N/A	1				N/A	N/A	N/A	N/A
4c	ES15063-17	IMPULSE BODY**	N/A		N/A		N/A		1			N/A	N/A	N/A	N/A
4c	ES15003-85	IMPULSE BODY**	N/A		N/A		N/A					N/A	N/A	N/A	N/A
5	-	OIL SEAL		1		1		1	1	1	1				
5	-	OIL SEAL	1		1		1					1	1	1	1

* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30

** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c

*** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d

♦ Screw ES3084-3 in the Vent Assembly ITM# 6a is a 100% replacement part at disassembly

Table 6.6 – (Cont.) Magneto Model ES6300

Index Number	ITEM P/N	Description	Magneto Part Number												
			ES6363	ES6364	ES6365	ES6367	ES6371	ES6377	ES6379	ES6380	ES6382	ES6390	ES6391	ES6393	ES6394
6	-	FRAME													
6	-	FRAME													
6	-	FRAME								1	1				
6	-	FRAME		1											
6	-	FRAME			1										
6	-	FRAME					1	1							
6	-	FRAME	1		1		1					1	1	1	1
6	-	FRAME													
6a	ES3179	VENT ASSEMBLY ♦	1	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A	1
7	-	ROTOR								1	1				
7	-	ROTOR													
7	-	ROTOR													
7	-	ROTOR													
7	-	ROTOR		1											
7	-	ROTOR			1										
7	-	ROTOR						1	1						
7	-	ROTOR	1		1		1					1		1	
7	-	ROTOR											1		1
7a	-	WOODRUFF KEY	1	1	1	1	1	1	1	1	1	1	1	1	1
8	-	BEARING CAP ASSY.		1		1		1	1	1	1				
8	-	BEARING CAP ASSY.	1		1		1					1	1	1	1
9	AM3611	CAM	1	1	1	1	1	1	1	1	1	1	1	1	1
10	ES3221	SCREW	2	2	2	2	2	2	2	2	2	2	2	2	2
11	A-13081	CONTACT ASSEMBLY		1		1		1	1	1	1				
11	ES3637	CONTACT ASSEMBLY	2		2		2						2	2	2
11	ES3740	CONTACT ASSEMBLY										1			
11a	ES3828	ROTOR GEAR	1	1	1	1	1	1	1	1	1	1	1	1	1
12	A-13081-2	SCREW	N/A	2	N/A	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	A-13081-1	WASHER	N/A	1	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	ES3637-4	SCREW	1	N/A	1	N/A	1	N/A	N/A	N/A	N/A	N/A	1	1	1
15	ES3637-5	SCREW	1	N/A	1	N/A	1	N/A	N/A	N/A	N/A	N/A	1	1	1
16	ES3637-6	WASHER	1	N/A	1	N/A	1	N/A	N/A	N/A	N/A	N/A	1	1	1
* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30															
** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c															
*** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d															
♦ Screw ES3084-3 in the Vent Assembly ITM# 6a is a 100% replacement part at disassembly															

Table 6.6 – Magneto Model ES6300 (Cont.)

Index Number	ITEM P/N	Description	Magneto Part Number												
			ES6363	ES6364	ES6365	ES6367	ES6371	ES6377	ES6379	ES6380	ES6382	ES6390	ES6391	ES6393	ES6394
17	AK-3975	COIL, IGNITION	1	1	1	1	1	1	1	1	1	1	1	1	1
18	AM-3020	SCREW	1	1	1	1	1	1	1	1	1	1	1	1	1
19	ES3040	COIL WEDGE	2	2	2	2	2	2	2	2	2	2	2	2	2
20	-	HOUSING	1		1		1						1	1	1
20	-	HOUSING										1			
20	-	HOUSING		1		1		1	1	1	1				
21	AM-3021	SCREW	3	3	3	3	3	3	3	3	3	3	3	3	3
22	AM-3015	SCREW	N/A	3	N/A	3	3	3	3	3	3	3	N/A	3	N/A
23	AK-3984	CAPACITOR	1	1	1	1	1	1	1	1	1	1	1	1	1
24	AM-3183-3	PHENOLIC WASHER	1	1	1	1	1	1	N/A	N/A	N/A	N/A	1	1	1
25	AM-3183-2	WASHER, CAPACITOR	1	1	1	1	1	1	N/A	N/A	N/A	N/A	1	1	1
26	AM-3183-1	NUT, CAPACITOR	1	1	1	1	1	1	N/A	N/A	N/A	N/A	1	1	1
27	ES3823	DIST. BLOCK & GEAR ASSY.***	1	1	1	1	1	1	1	1	1	1	1	1	1
27a	ES3820	BLOCK ASSY. - 6 CYL ***	1	1	1	1	1	1	1	1	1	1	1	1	1
27b	ES510404	GEAR ASSY. - 6 CYL***	1	1	1	1	1	1	1	1	1	1	1	1	1
27c	ES510275-6	BRIDGE ASSY. - 6 CYL ***	1	1	1	1	1	1	1	1	1	1	1	1	1
27d	ES3826	SPACER ***	1	1	1	1	1	1	1	1	1	1	1	1	1
28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30	ES3328	CLAMP KIT * (not shown)								1	1				
30	ES3520	CLAMP KIT * (not shown)		1		1									
30	ES3784	CLAMP KIT * (not shown)	1		1		1	1	1			1	1	1	1
31	ES3343	BUSHING	1	N/A	1	N/A	1	N/A	N/A	N/A	N/A	1	N/A	1	1
32	ES3007	GASKET PRESSURE KIT	1	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A	1

* Use Cotter pin ITM# 1 with Clamp Kit ITM# 30

** Use Impulse Coupling Assy. ITM# 4 with Impulse Spring ITM# 4a, Impulse Cam Assy. ITM# 4b, and Impulse Body ITM# 4c

*** Use Dist. Block & Gear Assy. ITM# 27 with Block Assy ITM# 27a, Gear Assy. ITM# 27b, Bridge Assy. ITM# 27c, and Spacer ITM# 27d

♦ Screw ES3084-3 in the Vent Assembly ITM# 6a is a 100% replacement part at disassembly

Table 6.6 – (Cont.) Magneto Model ES6300