

Motor Brushes

Adams carbon and graphite brushes are manufactured to match OEM grade and size specifications.

The guide below will help you identify and solve brush-related problems, and help match the Adams to Otis brush that needs replacing.

TROUBLESHOOTING GUIDE												
PROBLEM						PROBLEM						
6	Excessive sparking					Unequal brush wear					7	
5	Rapid brush wear (mechanical)					Chatter					8	
4	Rapid brush wear (electrical)					Breakage					9	
3	Grooving					Film discoloration					10	
2	Heavy streaking					Discolored shunts					11	
1	Threading					Flashover					12	

TROUBLESHOOTING GUIDE													
POSSIBLE CAUSE						REMEDY							
Incorrect neutral setting or machine problem	A					Reset neutral, repair machine fault	A						
Vibration from internal or external source	B	◆				Eliminate source, use shock mounts, check balance bearings	B						
Insufficient or clogged ventilation	C					Increase air flow, remove restrictions	C						
High mica or high commutator eccentricity	D		◆			Remove mica; turn or stone commutator	D						
High ambient or commutator temperature	E					Increase ventilation, lower ambient temperature	E						
Prolonged light load running	F	◆				Change brush grade (ask for our recommendation)	F						
Oil contamination	G	◆	◆	◆	◆	Clean commutator, remove source of contamination	G						
Rapid load changes or control problem	H					Correct machine loading; repair control system	H						
Incorrect or unequal spring pressure	I	◆	◆	◆	◆	Adjust pressure uniformly to recommended value	I						
Faulty shunts or terminal connections	J					Replace brushes, tighten lug connections	J						
Wrong brush grade	K	◆				Use alternate brush grade (ask for our recommendation)	K						
Brush too tight or loose in holder	L		◆			Clean & inspect holders; replace if necessary	L						
Incorrect holder position or spacing	M					Adjust spacing, clearance, and/or angle to specifications	M						
		1	2	3	4	5	6	7	8	9	10	11	12

Troubleshooting guide courtesy of Stackpole Manufacturing Company

Otis/Adams Motor Brush Cross-Reference Guide

Otis part no.	Adams part no.	Otis part no.	Adams part no.	Otis part no.	Adams part no.	Otis part no.	Adams part no.	Otis part no.	Adams part no.	Otis part no.	Adams part no.
240B3	0776	240E17	0789	240F12	0761C	240F27	0769	240P4	0773C	184306	0740
240B4	0777	240E18	0792	240F15	0783	240G1	0760	240R1	0757	184448	0741
240B6	0756	240E22	0794	240F19	0782	240G3	0758	240R3	0751	186132	0771D
240C1	0775	240F3	0759GX	240F20	0762	240H4	0781	240R5	0765	186133	0742
240E4	0754	GS240F3	0759G	240F21	0785	240J1	0774	240T5	0744	186142	0763
240E8	0755	240F4	0768	240F22	0759C	240J3	0766	240W1	0752	186206	0771C
240E10	0796	240F5	0767	240F23	0786	240P1	0772	240W3	0743	186207	0771D
240E14	0790	240F11	0761G	240F25	0761GX	240P2	0773	240Y1	0753		
240E16	0788	GS240F11	0761GX	240F26	0759G	240P3	0764	145094	0771		

If part number is not known, please provide any of the following: Frame/Generator number, machine number, voltage, brush holder part number, motor size and type, grade, dimensions, horse-power and kilowatts. Graphite is for higher speed machinery.