

ACCIDENT

Aircraft Type and Registration:	DJI Matrice 300 RTK	
No & Type of Engines:	4 electric motors	
Year of Manufacture:	2021 (Serial no: 1ZNBJ1G00C00ED)	
Date & Time (UTC):	3 August 2021 at 2337 hrs	
Location:	Seymour Grove, Old Trafford, Manchester	
Type of Flight:	Commercial Operations (UAS)	
Persons on Board:	Crew - None	Passengers - None
Injuries:	Crew - N/A	Passengers - N/A
Nature of Damage:	Aircraft destroyed	
Commander's Licence:	Other	
Commander's Age:	44 years	
Commander's Flying Experience:	18 hours (of which 18 were on type) Last 90 days - 4 hours Last 28 days - 1 hour	
Information Source:	Aircraft Accident Report Form submitted by the pilot	

The DJI Matrice 300 RTK was being operated at night in support of RFFS operations to locate a missing person. After approximately nine minutes and 28 seconds of flight, when at a height of 63 metres, the pilot and observer heard an audible “bang or pop.” The UA initiated a three-rotor emergency landing sequence, flying in a rapidly descending arc until it struck the ground. The aircraft was destroyed. Examination of the UA and review of the log file by the UAS manufacturer identified that the left rear frame arm folded back during the flight and struck the motor. This resulted in failure of the rotor, triggering the emergency landing mode. The UAS manufacturer considered there was a high likelihood that the locking collar at the junction of the frame arm had not been fully tightened, causing the rotor arm to fold back in flight.

