

Ax-2 Mission Timeline

Launch: May 21, 2023 5:37:08 PM ET

All times are approximate



EVENT	START			
	MET	TIME (ET)	TIME (CT)	TIME (PT)
Crew Wake	-08:00:00	9:37:07 AM	8:37:07 AM	6:37:07 AM
Launch Shift on Console	-05:37:08	12:00:00 PM	11:00:00 AM	9:00:00 AM
CE Launch Readiness Brief	-04:50:00	12:07:08 PM	11:07:08 AM	9:07:08 AM
Dragon IMU Align and Configure for Launch	-05:00:00	12:37:08 PM	11:37:08 AM	9:37:08 AM
Dragon Propellant Pressurization	-04:30:00	1:07:08 PM	12:07:08 PM	10:07:08 AM
Crew Handoff to SpaceX	-04:27:08	1:10:00 PM	12:10:00 PM	10:10:00 AM
Crew Weather Brief	-03:50:00	1:47:08 PM	12:47:08 PM	10:47:08 AM
Suit Donning	-03:25:00	2:12:08 PM	1:12:08 PM	11:12:08 AM
Crew Walkout	-03:05:00	2:32:08 PM	1:32:08 PM	11:32:08 AM
Crew Transportation to Pad	-03:00:00	2:37:08 PM	1:37:08 PM	11:37:08 AM
Crew Arrives at Pad	02:55:00	2:42:08 PM	1:42:08 PM	11:42:08 AM
Crew Ingress	-02:45:00	2:52:08 PM	1:52:08 PM	11:52:08 AM
Communication Check	-02:44:07	2:53:08 PM	1:53:08 PM	11:53:08 AM
Verify Ready for Seat Rotation	-02:29:00	3:08:08 PM	2:08:08 PM	12:08:08 PM
Suit Leak Checks	-02:28:00	3:09:08 PM	2:09:08 PM	12:09:08 PM
Hatch Close	-02:19:00	3:18:08 PM	2:18:08 PM	12:18:08 PM
SpaceX Launch Director Verifies Go for Propellant Load	-00:45:00	4:52:08 PM	3:52:08 PM	1:52:08 PM
Crew Access Arm Retracts	-00:42:00	4:55:08 PM	3:55:08 PM	1:55:08 PM
Dragon Launch Escape System is Armed	-00:39:00	4:58:08 PM	3:58:08 PM	1:58:08 PM
RP-1 (Rocket Grade Kerosene) Loading Begins	-00:35:00	5:02:08 PM	4:02:08 PM	2:02:08 PM
1st Stage LOX (Liquid Oxygen) Loading Begins	-00:35:00	5:02:08 PM	4:02:08 PM	2:02:08 PM
2nd Stage LOX Loading Begins	-00:16:00	5:21:08 PM	4:21:08 PM	2:21:08 PM
Falcon 9 Begins Engine Chill Prior to Launch	-00:07:00	5:30:08 PM	4:30:08 PM	2:30:08 PM
Dragon Transitions to Internal Power	-00:05:00	5:32:08 PM	4:32:08 PM	2:32:08 PM
Command Flight Computer to Begin Final Prelaunch Checks	-00:01:00	5:36:08 PM	4:36:08 PM	2:36:08 PM
Propellant Tank Pressurization to Flight Pressure Begins	-00:01:00	5:36:08 PM	4:36:08 PM	2:36:08 PM
SpaceX Launch Director Verifies Go for Launch	-00:00:45	5:36:22 PM	4:36:22 PM	2:36:22 PM
Engine Controller Commands Engine Ignitions Sequence to Start	-00:00:03	5:37:04 PM	4:37:04 PM	2:37:04 PM
Liftoff	+0/00:00:00	5:37:08 PM	4:37:08 PM	2:37:08 PM
Max Q (Moment of Peak Mechanical Stress on the Rocket)	+00:01:02	5:38:09 PM	4:38:09 PM	2:38:09 PM
1st Stage Main Engine Cutoff (MECO)	+00:02:26	5:39:34 PM	4:39:34 PM	2:39:34 PM
1st and 2nd Stages Separate	+00:02:29	5:39:37 PM	4:39:37 PM	2:39:37 PM
2nd Stage Engine Starts	+00:02:37	5:39:45 PM	4:39:45 PM	2:39:45 PM
1st Stage Boostback Start	+00:02:39	5:39:45 PM	5:39:45 PM	2:39:45 PM
1st Stage Boostback Ends	+00:03:28	5:40:36 PM	5:40:36 PM	2:40:36 PM
1st Stage Entry Burn	+00:06:25	5:43:33 PM	4:43:33 PM	2:43:33 PM
1st Stage Landing Burn	+00:07:31	5:44:39 PM	4:44:39 PM	2:44:39 PM
1st Stage Landing	+00:07:58	5:45:06 PM	4:45:06 PM	2:45:06 PM
2nd Stage Engine Cutoff (SECO-1)	+00:08:47	5:45:55 PM	4:45:55 PM	2:45:55 PM
Dragon Separates from 2nd Stage	+00:11:58	5:49:07 PM	4:49:07 PM	2:49:07 PM

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Dragon Nosecone Open Sequence Begins	+00:12:46	5:49:54 AM	4:49:54 AM	2:49:54 AM
Suit Doff Post Launch	+00:32:52	6:10:00 PM	5:10:00 PM	3:10:00 PM
SES-2	+00:44:19	6:21:27 PM	5:21:27 PM	3:21:27 PM
SECO-2	+00:44:20	6:21:28 PM	5:21:28 PM	3:21:28 PM
Far Burn Phase	+00:46:49	6:23:57 PM	5:23:57 PM	3:23:57 PM
Crew Off-Duty	+04:22:52	10:00:00 PM	9:00:00 PM	7:00:00 PM
Far Burn Boost	+08:15:12	1:52:20 AM	12:52:20 AM	10:52:20 PM
Far Burn Close	+08:58:40	2:35:48 AM	1:35:48 AM	11:35:48 PM
Mid Burn Transfer	+10:11:31	3:48:39 AM	2:48:39 AM	12:48:39 AM
Mid Burn Final	+10:57:53	4:35:01 AM	3:35:01 AM	1:35:01 AM
Rendezvous Complete	+12:29:58	6:07:06 AM	5:07:06 AM	3:07:06 AM
Crew Off-Duty Ends	+12:47:52	6:25:00 AM	6:25:00 AM	3:25:00 AM
Approach Initiation Plan	+12:58:19	6:35:27 AM	5:35:27 AM	3:35:27 AM
Suit Don Approach	+13:20:40	6:57:48 AM	5:57:48 AM	3:57:48 AM
Approach Initiation	+14:05:40	7:42:48 AM	6:42:48 AM	4:42:48 AM
Approach Setup	+14:07:10	7:44:18 AM	6:44:18 AM	4:44:18 AM
Suit Leak Check	+14:12:52	7:50:00 AM	6:50:00 AM	4:50:00 AM
Approach Initiation Midcourse	+14:32:12	8:09:20 AM	7:09:20 AM	5:09:20 AM
Approach 0	+14:52:37	8:29:45 AM	7:29:45 AM	5:29:45 AM
Approach 1	+15:28:02	9:05:10 AM	8:05:10 AM	6:05:10 AM
Hold 2	+15:40:36	9:17:44 AM	8:17:44 AM	6:17:44 AM
Approach 2	+15:42:38	9:19:46 AM	8:19:46 AM	6:19:46 AM
Docking	+15:46:52	9:24:00 AM	8:24:00 AM	6:24:00 AM
Suit Doff Post Dock	+16:04:52	9:42:00 AM	8:42:00 AM	6:42:00 AM
APAS Hatch Opening	+17:21:52	10:59:00 AM	9:59:00 AM	7:59:00 AM
Dragon Hatch Opening	+17:56:52	11:34:00 AM	10:34:00 AM	8:34:00 AM