

## The Military & Aircraft Collection PE-21

| Volume | Track | Index | Duration | Description   |
|--------|-------|-------|----------|---|
| PE-21  | 01    | 01    | 1:52     | F-5: Start/idle; Whining Start With Sputtering Second Ignition, Idles At Various Pitches. Close Perspective. Jet.   |
| PE-21  | 02    | 01    | 3:11     | Gnat: Start/idle/taxi; Slow Start With Clicking Fuel Ignition Sparks, Builds To Alternating Revs And Idles. Close To Medium Perspective. Jet.   |
| PE-21  | 03    | 01    | 1:44     | Gnat: Start/idle; Flanging Start, Roar Builds And Subsides, Steady Idle. Close Perspective. Jet.  |
| PE-21  | 04    | 01    | 0:48     | Gnat: Start/idle; Air Intakes Open, Piercing Whistle With Snaps Of Ignition Sparks, Low Intense Roar, Whistle Dies Out With Steady Idle. Close Perspective. Jet.  |
| PE-21  | 05    | 01    | 1:41     | Gnat: Start/idle; Ignition With Many Stages, Sweeping Whistles And Air Intakes, Engine Catches Before Settling At A Steady Idle. Close Perspective. Jet.  |
| PE-21  | 06    | 01    | 0:34     | Gnat: Start/idle Interior; Quick Start With Rushing Air Of Engines Highlighted. Close Perspective. Jet.   |
| PE-21  | 07    | 01    | 1:59     | Harrier: Start/idle/throttle/off; Exhaust Hiss Reflections, Rhythmic Click During Very Short Idle, Throttle To Idling Speed And Hold Steady, Gun Engine To Snarling Rev And Release. Engine Slowly Dies |
| PE-21  | 08    | 01    | 0:59     | Gnat: Idle/away; Medium Idle, Steady, Slow Engine Rev Followed By Combustion And Exhaust Sounds Reflecting, Deep Jet Rev And Away. Close To Medium Perspective. Jet.                                    |
| PE-21  | 09    | 01    | 1:13     | Gnat: Idle/canopy Close; Interior Idle With Exhaust Hiss And Engine Rumble, Sound Muffled As Canopy Is Closed With Clicks And Movement, Interior Engine Throttle. Close Perspective. Jet.               |
| PE-21  | 10    | 01    | 0:21     | Marchetti: Slow By; Slow Taxi By, High-pitched Engine At Low Rpm. Close To Medium Perspective. Jet.   |
| PE-21  | 11    | 01    | 0:38     | Marchetti: Slow Circle; Timbre Of Jet Changes With Direction And Distance. Varies From Low-pitched Drone To Sharp, Hissing Whine. Close To Medium Perspective. Jet.                                     |
| PE-21  | 12    | 01    | 3:53     | Gnat: Takeoff Interior; Rev To Taxi Speed, Jets Roar For Takeoff, Wind And Mechanical Grinding, Engine Steadies To Cruising Speed. Jet.   |
| PE-21  | 13    | 01    | 0:55     | Harrier: Takeoff Vertical; Metallic Idle With Revs, Crackling Roar Of Takeoff, Away.  |
| PE-21  | 14    | 01    | 0:54     | Marchetti: Takeoff Runway; Whining Engine Taxi, Speed Gradually Increases, Jets Ignite To Very Low Roar Of Takeoff, Away. Close To Distant Perspective. Jet.  |
| PE-21  | 15    | 01    | 3:12     | Gnat: Interior With Throttle; Acceleration, Deceleration, Maneuvering Jet With Hisses And Whistles Of Engines. Close Perspective. Jet.  |
| PE-21  | 16    | 01    | 0:52     | F-5: By High; F-5 By With High Descending Whistle, Long Distant Roar Of Away. Medium To Distant Perspective. Jet.   |
| PE-21  | 17    | 01    | 0:24     | F-5: By Medium; Clear, Bell-like Tone With F-5 Approach, Medium Speed By, Crisp Engine Roar With Away. Medium To Distant Perspective. Jet.  |

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| PE-21 | 18 | 01 | 0:46 | F-5: By Low; Powerful, Raspy F-5 Flyby And Away. Medium To Distant Perspective. Jet.   |
| PE-21 | 19 | 01 | 0:22 | Gnat: By Low Over Canyon; Roaring Gnat Flyby And Away With Warped Echoes. Medium To Distant Perspective. Jet.  |
| PE-21 | 20 | 01 | 0:30 | Gnat: By Low Over Canyon; Low Rumble Of Approach, Roaring Flyby And Away With Multiple Warped Echoes. Medium To Distant Perspective. Jet.  |
| PE-21 | 21 | 01 | 0:51 | Gnat: By Low Very Close; Long Rumble Of Approach, Searing Jet Flyby And Long Away. Close Perspective. Jet.   |
| PE-21 | 22 | 01 | 0:27 | Gnat: By Low; Fast Whistling Gnat Approach, Medium-pitch Jet Away In Distance. Medium To Distant Perspective. Jet.   |
| PE-21 | 23 | 01 | 0:28 | Gnat: By Low; Extremely Fast Whistling Gnat Flyby And Away. Medium Perspective. Jet.   |
| PE-21 | 24 | 01 | 0:21 | Gnat: By Low; Fast Cruising Gnat Flyby And Fast Away With Flanging Engine. Medium Perspective. Jet.  |
| PE-21 | 25 | 01 | 0:38 | Gnat: By Low; Short, Rumbling In, Flare, By And Short Away. Medium Perspective. Jet.   |
| PE-21 | 26 | 01 | 0:12 | Harrier: By Medium; Medium Approach, Intense, Screaming Jet Flyby, Away Into Distance. Medium To Distant Perspective. Jet.   |
| PE-21 | 27 | 01 | 0:45 | Marchetti: By Medium; Distant Jet Approach With Rising Whine, Extremely Fast By, Long Away. Medium To Distant Perspective. Jet.  |
| PE-21 | 28 | 01 | 0:28 | Marchetti: By Low; High-rev Approach, Fast By And Med-low Away. Medium To Distant Perspective. Jet.  |
| PE-21 | 29 | 01 | 0:20 | Marchetti: By Low; Rumble And Low Whine, Approach, By And Away. Jet.   |
| PE-21 | 30 | 01 | 0:20 | F-5: By Series Of 4: High; F-5 Formation, Close And Distant Flybys. Medium To Distant Perspective. Jet.  |
| PE-21 | 31 | 01 | 0:24 | F-5: By Series Of 2: High; Distant And Very Close F-5 Flybys. Medium To Distant Perspective. Jet.  |
| PE-21 | 32 | 01 | 0:55 | F-5: By Series Of 3: High; Formation Flyby, Slow. Active Rumbling Drone Of Jets Throughout. Medium To Distant Perspective. Jet.  |
| PE-21 | 33 | 01 | 0:20 | F-5: Land/overhead; Rumbling Approach, Swishing Hiss Overhead, Ignition Of Landing Jets, Distant Wheel Touchdown. Medium To Distant Perspective. Jet.  |
| PE-21 | 34 | 01 | 2:16 | Gnat: Land/interior; Ac Hiss And Engine Whine With Revs, Ignition Of Landing Jets, Idle And Rev Down. Close Perspective. Jet.  |
| PE-21 | 37 | 01 | 1:05 | Lear: Series Of 2: In/off; Approach With Low Drone And Piercing Whistle, Landings With Ignitions Of Landing Jets. Powering Down With Descending Whistles And Whines, Slowing Rhythmic Engine Clicks. |
| PE-21 | 38 | 01 | 0:09 | Betty Alone; Computerized Warning Message In Cockpit. Close Perspective. Jet.  |
| PE-21 | 39 | 01 | 0:25 | Betty With Electronics; Interior Perspective Whining Engine Startup, Computerized Warning Message With Flight Instrument Clicks, One Loud Beep At End. Close Perspective. Jet.                       |
|       |    |    |      | Betty During Taxi; Jet Taxi, Squeak And Clatter Of Wheels, Interior  |

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|       |    |    |      | Perspective Engine Growl, Various Computerized Warning Messages With Radio Squelching. Jet.  |
| PE-21 | 41 | 01 | 0:15 | Takeoff Exchange; Interior Quiet Engine Whine, Radio Messages Between Pilot And Air Traffic Control. Close Perspective. Jet.   |
| PE-21 | 42 | 01 | 0:46 | In Flight Exchange; Interior Quiet Engine Whine, Wind In Cockpit, Radio Messages Between Pilot And Air Traffic Control, Advisory Of Pilot's And Other Planes' Locations, Radio Cutting In And Out. Clos  |
| PE-21 | 43 | 01 | 0:31 | Landing Exchange: Tower; Wind Buffeting Tower, Hissing Tower Ambience, clear To Land, And Air Traffic Advisory Messages Between Pilot And Air Traffic Control. Close Perspective. Jet.                   |
| PE-21 | 44 | 01 | 0:23 | Landing Exchange: Interior; Radio Messages Between Pilot And Air Traffic Control, Interior Engine Whine With Increasing Rev At End. Close Perspective. Jet.  |
| PE-21 | 45 | 01 | 0:50 | Landing Exchange: Interior; Traffic Advisories Between Pilot And Ground, Pilot Breathing In Face Mask. No Engine Sound, Quiet Whistle Of Cockpit Ambience. Close Perspective. Jet.                       |
| PE-21 | 46 | 01 | 0:22 | Landing Exchange: Interior; Fighter Jet Messages Between Pilot And Ground, Heavy Breathing Of Pilot In Cockpit Throughout. No Engine Sound, Quiet Medium Whistle Of Cockpit Ambience. Close Perspectiv   |
| PE-21 | 47 | 01 | 0:32 | Breaths: Relaxed; Pilot Breathing In Face Mask With Steady Interior Engine Whine. Close Perspective. Jet.  |
| PE-21 | 48 | 01 | 0:26 | Breaths: Forced; Steady Rhythmic Breathing In Face Mask, Gulping And Unsteady Breaths At End, Cockpit Ambience. Close Perspective. Jet.  |
| PE-21 | 49 | 01 | 0:24 | Face Mask Detached; Piercing Whistle And Heavy Winds In Cockpit. Close Perspective. Jet.   |
| PE-21 | 50 | 01 | 0:53 | Hughes 500: Start/idle; Quiet Start, Sudden Roar Of Second Ignition, Swish Of Blades Speeds Up To Steady Chop, Idle. Medium Perspective. Helicopter.   |
| PE-21 | 51 | 01 | 1:53 | Hughes 500: Start/idle Interior; Start Engine Whine With Slow Swish Of Blades, Groaning And Roar Of Second Ignition, Steadily Rising Engine Whine, Wind Blowing, Sputtering Of Spinning Blades, Low, Gro |
| PE-21 | 52 | 01 | 0:15 | Hughes 500: Idle: High; Engine Whine And Fast Chopping Of Blades During Ground Taxi. Close Perspective. Helicopter.  |
| PE-21 | 53 | 01 | 0:43 | Hughes 500: Throttle/away; Engine Whine And Chopping Blades, Blades Speed Up To Growling Drone, Takeoff With Sound Changing As Helicopter Flies Into Distance. Close To Medium Perspective. Helicopter.  |
| PE-21 | 54 | 01 | 0:43 | Hughes 500: Quick Turns/away: High; Growling Engine With Sharp Chopping Of Blades, Turns At Various Distances. Close Turn With Very Intense Low Sputtering Of Blades. Engine Sound Morphs As Helicopte   |
| PE-21 | 55 | 01 | 1:28 | Hughes 500: Hover/away, High; Active Steady Engine Drone With Quiet Whine, Fast Blades, Some Chopping, Moving Back And Forth, Flies Into Distance. Medium To Distant Perspective. Helicopter.            |
|       |    |    |      | Hughes 500: Hover/turns: High; High Engine With Steady Wind Of   |

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|       |    |    |      | Blades And Exhaust, Blades Snapping As Helicopter Turns Closer. Close To Medium Perspective. Helicopter.   |
| PE-21 | 57 | 01 | 0:14 | Hughes 500: Hover Steady; Quiet Engine/ventilator Whine, Low Steady Roar, Active Blade Sputtering. Medium Perspective. Helicopter.   |
| PE-21 | 58 | 01 | 1:01 | Hughes 500: Hover/figure Eight's; Engine Growl And Low, Punching Blade Sputtering. Swooshing Bys, Low Engine Roar At Close Range, Engine Shifting And Changing At Far End Of Loop. Medium To Medium-di |
| PE-21 | 59 | 01 | 0:45 | Hughes 500: Hover Interior: Medium; Engine And Cockpit Ventilation Whine, Occasional Loud Bursts Of Sputtering Blades, Some High Blade Swishes. Close Perspective. Helicopter.                         |
| PE-21 | 60 | 01 | 0:21 | Hughes 500: Single By: Medium; Medium Engine Growl With Quiet Low Rumble, Medium Flyby Into Distance. Close To Medium Perspective. Helicopter.   |
| PE-21 | 61 | 01 | 0:10 | Hughes 500: Single By: Medium; High Engine Drone, Fast Flyby With Exhaust Fans And Away. Helicopter.   |
| PE-21 | 67 | 01 | 0:13 | Hughes 500: Single By: Low; Rich Medium Engine Drone With Chopping Blades, Medium Flyby With Thick Hiss, Engine Whines At End. Medium To Close Perspective. Helicopter.                                |
| PE-21 | 68 | 01 | 0:24 | Hughes 500: Single By: Low; Steady Medium Engine, Some Chopping Blades, Medium Flyby. Long Away With Engine Becoming Quiet Roar In Distance. Medium To Distant Perspective. Helicopter.                |
| PE-21 | 69 | 01 | 0:24 | Hughes 500: Single By: Low; Long Approach With Smooth Medium Engine Drone, Sharp Sputtering Blades. Medium Speed Roaring Flyby And Away. Helicopter.   |
| PE-21 | 70 | 01 | 0:41 | Hughes 500: Landing/idle Interior; High, Whining And Whistling Idle, Rev Down With Quietly Chopping Blades. Close Perspective. Helicopter.   |
| PE-21 | 71 | 01 | 0:30 | Hughes 500: Landing/idle Interior; Whining And Hissing Idle, Gradual Rev Down With Quiet Sputtering And Swishing Blades. Close Perspective. Helicopter.  |
| PE-21 | 72 | 01 | 2:07 | Hughes 500: Idle/off; Chopping Blades Slow, Rhythmic Whistling Swishes To Slow Whooshes, Engine Wind Down. Close Perspective. Helicopter.  |
| PE-21 | 73 | 01 | 1:01 | Hughes 500: Idle/off Interior; Idle To Engine Wind-down, Descending Grinding Tone, Quiet Blade Whoosh. Close Perspective. Helicopter.  |
| PE-21 | 74 | 01 | 0:10 | Hughes 500: Safety Belt Movement; Unfasten, Clunking Buckle Movement, Click Of Buckle Fastening. Close Perspective. Helicopter.  |
| PE-21 | 75 | 01 | 2:00 | Airport Temporary Loading Zone: Exterior ; loading Zone Announcements, Male And Female Announcers. Bus And Car Traffic, Voices, Rolling Baggage Carts, Distant Jet Overhead. Medium Perspective.       |
| PE-21 | 76 | 01 | 1:54 | Airport Terminal Concourse: Interior; Voices, Footsteps On Hard Floor, Flight, Boarding, And Page Announcements. Medium Perspective.   |

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| PE-21 | 77 | 01 | 0:28 | Airport Control Tower: Interior; Ventilation And Ac Ambience, Steady. Medium Perspective.  |
| PE-21 | 78 | 01 | 1:06 | Airport; Aircraft Hanger: Interior Paging/personnel; Low, Rumbling Ambience, Distant Footsteps, Voices, And Clanks.  |
| PE-21 | 79 | 01 | 1:11 | Airport; Aircraft Hanger: Quiet; Low, Rumbling Ambience With Thin, Quiet Whistling. Very Distant Footsteps. Medium Perspective.                            |
| PE-21 | 35 | 01 | 1:32 | Harrier: Land/off; Long Approach And By With Distant Throttle Down And Low Whistling. Medium To Distant Perspective. Jet.                                  |
| PE-21 | 36 | 01 | 0:53 | Gnat: Idle/off; Steady Idle With Sudden Power Down, Slowly Descending Whistle, Fan Slows To Stop. Close Perspective. Jet.                                  |
| PE-21 | 62 | 01 | 0:12 | Hughes 500: Single By: Medium; High Engine Drone, Very Fast Flyby With Exhaust Fans. Close To Medium Perspective. Helicopter.                              |
| PE-21 | 63 | 01 | 0:10 | Hughes 500: Single By: Medium; Medium Engine Drone, Medium Flyby With Whining Away. Close To Medium Perspective. Helicopter.                               |
| PE-21 | 64 | 01 | 0:12 | Hughes 500: Single By: Medium; Medium Engine Drone, Sputtering Blades As Helicopter Flies Closer, Flyby And Away. Close To Medium Perspective. Helicopter. |
| PE-21 | 65 | 01 | 0:17 | Hughes 500: Single By: Medium; Medium Engine Drone And Chopping Blades Throughout, Medium Speed Flyby And Away. Close To Medium Perspective. Helicopter.   |
| PE-21 | 66 | 01 | 0:29 | Hughes 500: Single By: Low; Long Approach With Medium Engine Drone, Low Rumble With Closer Approach, Whipping Blades, Fast Flyby With Hiss. Helicopter.    |