

# DCS WORLD

## UH-1H "HUEY" RADIO AND NAVIGATION EQUIPMENT

BY LINO GERMANY

Please visit

<https://forums.eagle.ru/showthread.php?t=162198>










to leave any feedback, comments or suggestions.















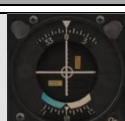




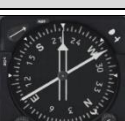







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## LEGEND

	<b>Interphone</b>	The aircraft offers the ability for the pilot to communicate with the ground crew through an external headset jack.
	<b>Communication</b> with Tower, ATC, Flight Controller, FARP	This icon indicates the main radio for communication with any sort of air traffic control.
	<b>Communication</b> with FAC and ground troops	This icon indicates the main radio for communication with Forward Air Controllers, JTAC, infantrie or other assets on ground.
	<b>Inflight Communication</b>	This icon indicates the main radio for communication with other friendly aircraft flying the same sortie.
	<b>ILS / PRMG</b>	The aircraft offers a sort of <b>Instrument Landing System</b> .
	<b>GNSS</b>	The aircraft has the ability to use some sort of a <b>Global Navigation Satellite System</b> (GPS, GLONASS, GALILEO or Beidou).
	<b>TACAN / RSBN</b>	The aircraft has a <b>Tactical Air Navigation System</b> .
	<b>ADF</b>	The aircraft has the ability to use <b>non directional beacons</b> for navigation.
	<b>VOR</b>	The aircraft has the ability to use VOR-Stations (VHF Omnidirectional Radio Range) for navigation.
	<b>Doppler Navigation</b>	The aircraft has a <b>Doppler Navigation System</b> .
	<b>INS / AHRS / ADR Navigation</b>	The aircraft has any kind of <b>Inertial Navigation System</b> , <b>Attitude Heading Reference System</b> or <b>Automatic Dead Reconing Navigation System</b> .
	<b>SAR Homing</b>	The helicopter has <b>special radio equipment</b> for detecting and tracking distress signals.

## [UH-1H] EQUIPMENT OVERVIEW

<div>INTERPHONE</div> <div></div>	<div>C-1611/AIC</div> <div></div>																																										
<div>VHF AM RADIO</div> <div></div>	<div>AN/ARC-134</div> <div></div>	<div>116 – 149 MHz</div> <div>Manual Control</div> <div></div>																																									
<div>VHF FM RADIO</div> <div></div>	<div>AN/ARC-131</div> <div></div>	<div>30 – 75 MHz</div> <div>Manual Control</div> <div></div>																																									
<div>UHF RADIO</div> <div></div>	<div>AN/ARC-51BX</div> <div></div>	<div>225 – 399 MHz</div> <div>20 Preset Channels</div> <div>(not configurable in cockpit) &amp;</div> <div>Manual Control</div>	<table><tr><td>①</td><td>251 MHz AM</td><td>⑤</td><td>254 MHz AM</td><td>⑨</td><td>255 MHz AM</td><td>⑬</td><td>269 MHz AM</td><td>⑰</td><td>267 MHz AM</td></tr><tr><td>②</td><td>264 MHz AM</td><td>⑥</td><td>250 MHz AM</td><td>⑩</td><td>262 MHz AM</td><td>⑭</td><td>260 MHz AM</td><td>⑱</td><td>251 MHz AM</td></tr><tr><td>③</td><td>265 MHz AM</td><td>⑦</td><td>270 MHz AM</td><td>⑪</td><td>259 MHz AM</td><td>⑮</td><td>163 MHz AM</td><td>⑲</td><td>253 MHz AM</td></tr><tr><td>④</td><td>256 MHz AM</td><td>⑧</td><td>257 MHz AM</td><td>⑫</td><td>268 MHz AM</td><td>⑯</td><td>261 MHz AM</td><td>⑳</td><td>266 MHz AM</td></tr></table>	①	251 MHz AM	⑤	254 MHz AM	⑨	255 MHz AM	⑬	269 MHz AM	⑰	267 MHz AM	②	264 MHz AM	⑥	250 MHz AM	⑩	262 MHz AM	⑭	260 MHz AM	⑱	251 MHz AM	③	265 MHz AM	⑦	270 MHz AM	⑪	259 MHz AM	⑮	163 MHz AM	⑲	253 MHz AM	④	256 MHz AM	⑧	257 MHz AM	⑫	268 MHz AM	⑯	261 MHz AM	⑳	266 MHz AM
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<div>ILS / PRMG</div> <div></div>	<div>AN/ARN-82</div> <div></div>	<div>108 – 126 MHz</div> <div>Manual Control</div>	<div>CDI</div> <div></div>																																								
<div>GNSS</div> <div></div>																																											
<div>TACAN / RSBN</div> <div></div>																																											
<div>ADF</div> <div></div>	<div>AN/ARN-83</div> <div></div>	<div>190 – 1750 kHz</div> <div>Manual Control</div>	<div>RCI</div> <div></div>																																								
<div>VOR</div> <div></div>	<div>AN/ARN-82</div> <div></div>	<div>108 – 117 MHz</div> <div>Manual Control</div>	<div>RCI</div> <div></div>																																								
<div>SAR HOMING</div> <div></div>	<div>AN/ARC-131</div> <div></div>	<div>30 – 75 MHz</div> <div>Manual Control</div> <div></div>	<div>CDI</div> <div></div>																																								

UH-1H HUEY



[UH-1H] LOCATION OF THE RADIOS

UH-1H HUEY



- INTERPHONE
- VHF AM RADIO
- VHF FM RADIO
- UHF RADIO
- ILS / PRMG
- GNSS
- TACAN / RSBN
- ADF
- VOR
- SAR HOMING



1	C-1611/AIC	5	Radio Trigger / ICS
2	AN/ARC-134 VHF AM		
3	AN/ARC-131 VHF FM		
4	AN/ARC-51BX UHF		



[UH-1H] LOCATION OF THE NAVIGATION EQUIPMENT

UH-1H HUEY



- INTERPHONE
- VHF AM RADIO
- VHF FM RADIO
- UHF RADIO
- ILS / PRMG
- GNSS
- TACAN / RSBN
- ADF
- VOR
- SAR HOMING



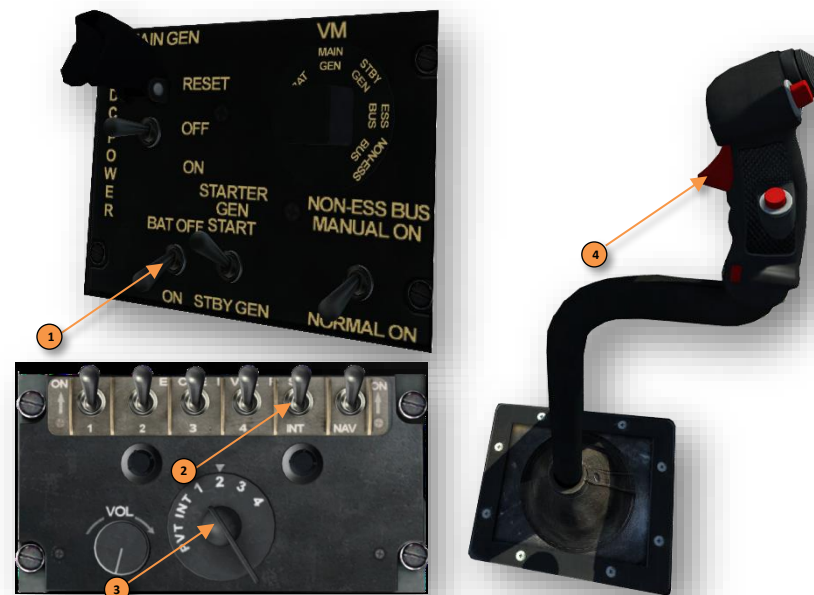
1	AN/ARN-82	5	RCI	9	Marker beacon vol.
2	AN/ARN-83 ADF	6	CDI	10	Compass Switch
3	AN/ARC-131 VHF FM	7	Marker beacon light	11	Magnetic Compass
4	C-1611/AIC	8	Sensing switch		

**A. Aircraft cold and dark, open canopy**

Communication by shouting [V]

**B. Aircraft cold and dark, closed canopy**

1. **Battery** | Set ON [LShift + P]
2. **C-1611/AIC** | Check Receiver Switch INT is set ON [RCtrl + RShift + 5]
3. **C-1611/AIC** | Set Mode Switch to INT [RCtrl + RShift + E]
4. **Radio Trigger ICS (1<sup>st</sup> Stage)** | Push [RShift + Space]

**C. Aircraft fully operational**

1. **C-1611/AIC** | Set Mode Switch to INT [RCtrl + RShift + E]
2. **Radio Trigger ICS (1<sup>st</sup> Stage)** | Push [RShift + Space]



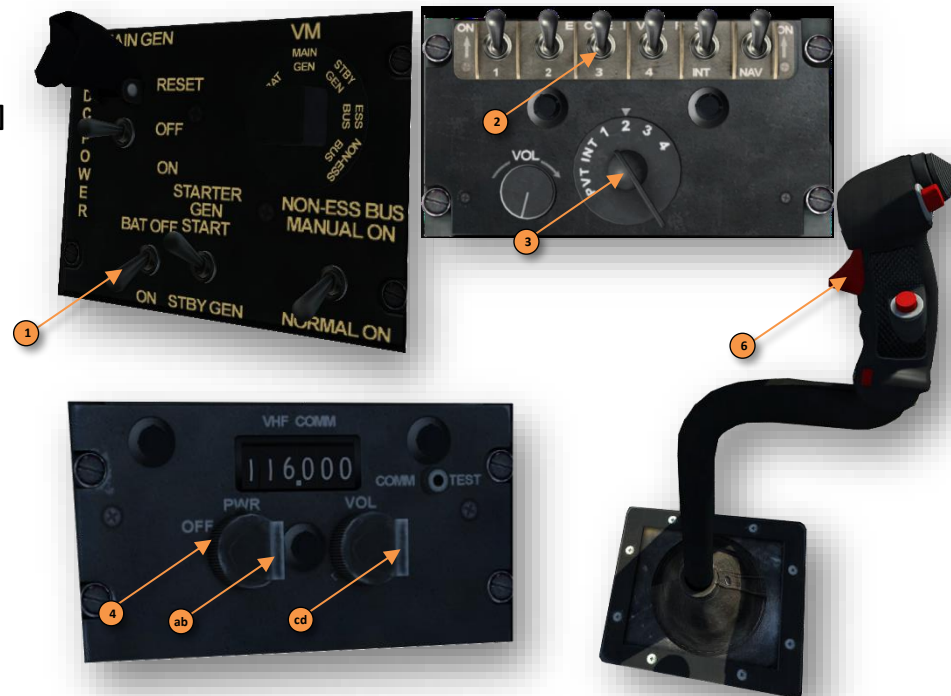
UH-1H HUEY



## [UH-1H] COMMUNICATION WITH ATC VIA VHF RADIO

## A. Aircraft cold and dark

1. **Battery** | Set ON [LShift + P]
2. **C-1611/AIC** | Check Receiver Switch 3 is set ON [RCtrl + RShift + 3]
3. **C-1611/AIC** | Set Mode Switch to 3 (VHF AM) [RCtrl + RShift + Y]
4. **AN/ARC-134 VHF Radio** | Set ON [LCtrl + LShift + 9]
5. **AN/ARC-134 VHF Radio** | Set ATC VHF AM Frequency
  - a) MHz decrease [LCtrl + LShift + O]
  - b) MHz increase [LCtrl + LShift + P]
  - c) kHz decrease [LCtrl + LShift + [
  - d) kHz increase [LCtrl + LShift + ]]
6. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



## B. Aircraft fully operational

1. **C-1611/AIC** | Check Receiver Switch 3 is set ON [RCtrl + RShift + 3]
2. **C-1611/AIC** | Set Mode Switch to 3 (VHF AM) [RCtrl + RShift + Y]
3. **AN/ARC-134 VHF Radio** | Set ATC VHF AM Frequency
  - a) MHz decrease [LCtrl + LShift + O]
  - b) MHz increase [LCtrl + LShift + P]
  - c) kHz decrease [LCtrl + LShift + [
  - d) kHz increase [LCtrl + LShift + ]]
4. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



UH-1H HUEY





## [UH-1H] COMMUNICATION WITH ATC VIA UHF RADIO (MANUAL)

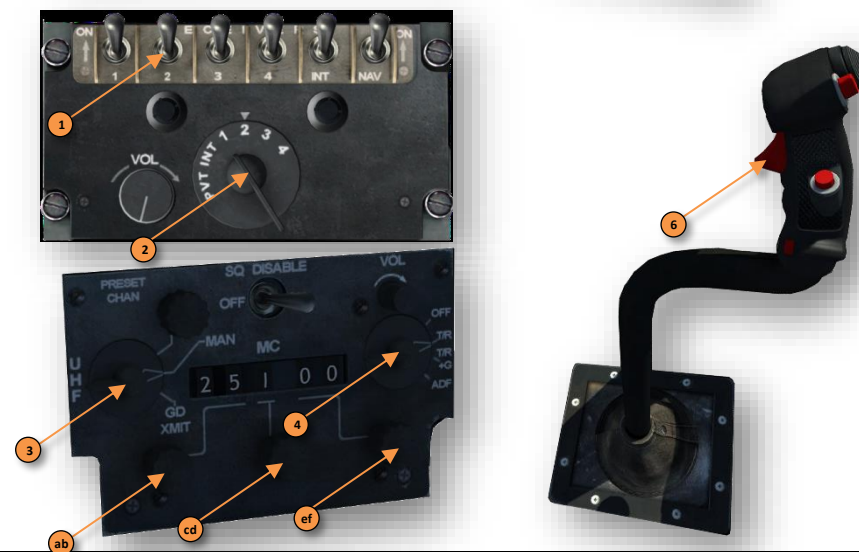
## A. Aircraft cold and dark

1. **Battery** | Set ON [LShift + P]
2. **C-1611/AIC** | Check Receiver Switch 2 is set ON [RCtrl + RShift + 2]
3. **C-1611/AIC** | Set Mode Switch to 2 (UHF) [RCtrl + RShift + T]
4. **AN/ARC-51BX UHF Radio** | Set MAN (Manual) [LCtrl + LShift + 7]
5. **AN/ARC-51BX UHF Radio** | Set T/R [LCtrl + LShift + 2]
6. **AN/ARC-51BX UHF Radio** | Set ATC UHF AM Frequency
  - a) 10 MHz decrease [LCtrl + LShift + W]
  - b) 10 MHz increase [LCtrl + LShift + E]
  - c) 1 MHz decrease [LCtrl + LShift + R]
  - d) 1 MHz increase [LCtrl + LShift + T]
  - e) 50 kHz decrease [LCtrl + LShift + J]
  - f) 50 kHz increase [LCtrl + LShift + U]
7. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



## B. Aircraft fully operational

1. **C-1611/AIC** | Check Receiver Switch 2 is set ON [RCtrl + RShift + 2]
2. **C-1611/AIC** | Set Selector Switch to 2 (UHF) [RCtrl + RShift + T]
3. **AN/ARC-51BX UHF Radio** | Set MAN (Manual) [LCtrl + LShift + 7]
4. **AN/ARC-51BX UHF Radio** | Set T/R [LCtrl + LShift + 2]
5. **AN/ARC-51BX UHF Radio** | Set ATC UHF AM Frequency
  - a) 10 MHz decrease [LCtrl + LShift + W]
  - b) 10 MHz increase [LCtrl + LShift + E]
  - c) 1 MHz decrease [LCtrl + LShift + R]
  - d) 1 MHz increase [LCtrl + LShift + T]
  - e) 50 kHz decrease [LCtrl + LShift + J]
  - f) 50 kHz increase [LCtrl + LShift + U]
6. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]

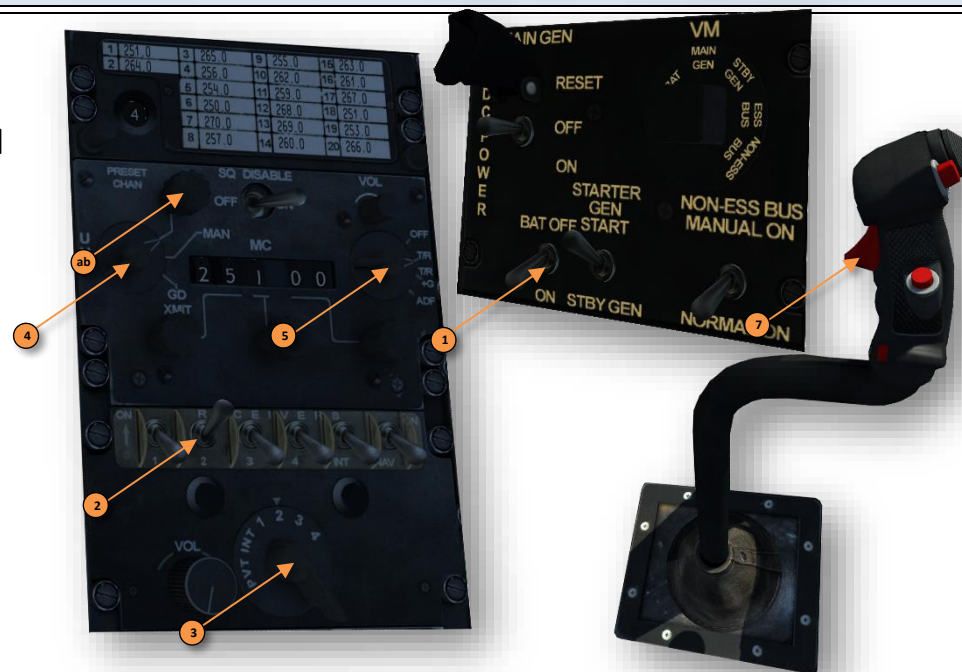


UH-1H HUEY

## [UH-1H] COMMUNICATION WITH ATC VIA UHF RADIO (PRESET)

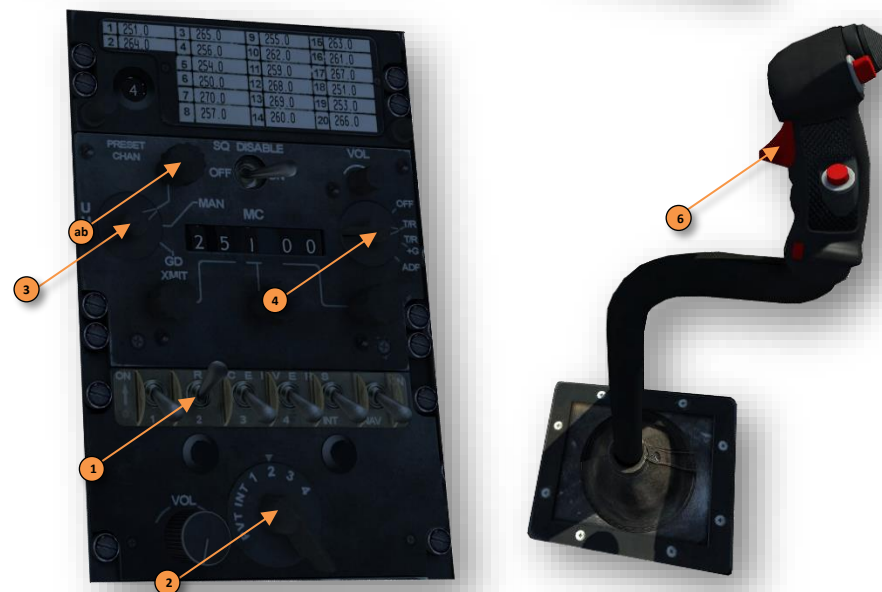
## A. Aircraft cold and dark

1. **Battery** | Set ON [LShift + P]
2. **C-1611/AIC** | Check Receiver Switch 2 is set ON [RCtrl + RShift + 2]
3. **C-1611/AIC** | Set Mode Switch to 2 (UHF) [RCtrl + RShift + T]
4. **AN/ARC-51BX UHF Radio** | Set PRESET CHAN [LCtrl + LShift + 6]
5. **AN/ARC-51BX UHF Radio** | Set T/R [LCtrl + LShift + 2]
6. **AN/ARC-51BX UHF Radio** | Set ATC Preset Channel
  - a) Preset channel decrease [LCtrl + LShift + S]
  - b) Preset channel increase [LCtrl + LShift + E]
7. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



## B. Aircraft fully operational

1. **C-1611/AIC** | Check Receiver Switch 2 is set ON [RCtrl + RShift + 2]
2. **C-1611/AIC** | Set Selector Switch to 2 (UHF) [RCtrl + RShift + T]
3. **AN/ARC-51BX UHF Radio** | Set PRESET CHAN [LCtrl + LShift + 6]
4. **AN/ARC-51BX UHF Radio** | Set T/R [LCtrl + LShift + 2]
5. **AN/ARC-51BX UHF Radio** | Set ATC Preset Channel
  - a) Preset channel decrease [LCtrl + LShift + S]
  - b) Preset channel increase [LCtrl + LShift + E]
6. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



UH-1H  
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## [UH-1H] COMMUNICATION WITH OTHER AIRCRAFT (MANUAL)

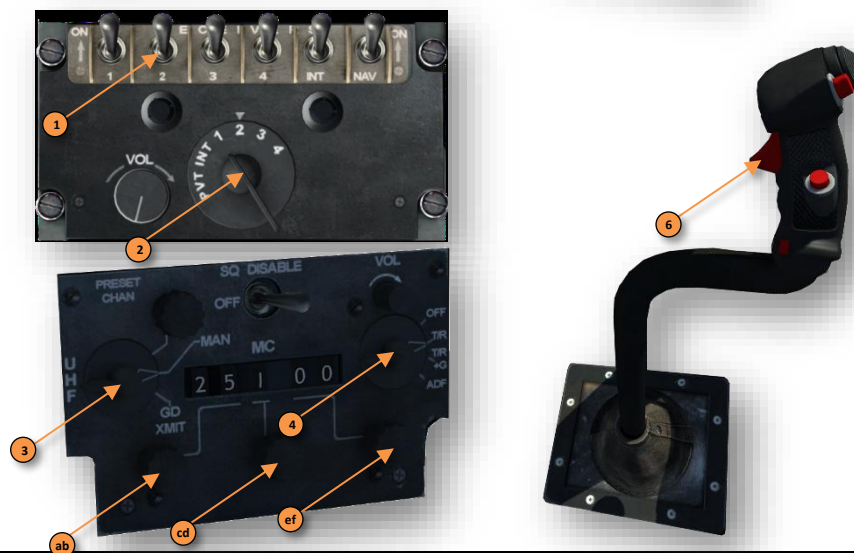
## A. Aircraft cold and dark

1. **Battery** | Set ON [LShift + P]
2. **C-1611/AIC** | Check Receiver Switch 2 is set ON [RCtrl + RShift + 2]
3. **C-1611/AIC** | Set Mode Switch to 2 (UHF) [RCtrl + RShift + T]
4. **AN/ARC-51BX UHF Radio** | Set MAN (Manual) [LCtrl + LShift + 7]
5. **AN/ARC-51BX UHF Radio** | Set T/R [LCtrl + LShift + 2]
6. **AN/ARC-51BX UHF Radio** | Set ATC UHF AM Frequency
  - a) 10 MHz decrease [LCtrl + LShift + W]
  - b) 10 MHz increase [LCtrl + LShift + E]
  - c) 1 MHz decrease [LCtrl + LShift + R]
  - d) 1 MHz increase [LCtrl + LShift + T]
  - e) 50 kHz decrease [LCtrl + LShift + J]
  - f) 50 kHz increase [LCtrl + LShift + U]
7. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



## B. Aircraft fully operational

1. **C-1611/AIC** | Check Receiver Switch 2 is set ON [RCtrl + RShift + 2]
2. **C-1611/AIC** | Set Selector Switch to 2 (UHF) [RCtrl + RShift + T]
3. **AN/ARC-51BX UHF Radio** | Set MAN (Manual) [LCtrl + LShift + 7]
4. **AN/ARC-51BX UHF Radio** | Set T/R [LCtrl + LShift + 2]
5. **AN/ARC-51BX UHF Radio** | Set ATC UHF AM Frequency
  - a) 10 MHz decrease [LCtrl + LShift + W]
  - b) 10 MHz increase [LCtrl + LShift + E]
  - c) 1 MHz decrease [LCtrl + LShift + R]
  - d) 1 MHz increase [LCtrl + LShift + T]
  - e) 50 kHz decrease [LCtrl + LShift + J]
  - f) 50 kHz increase [LCtrl + LShift + U]
6. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



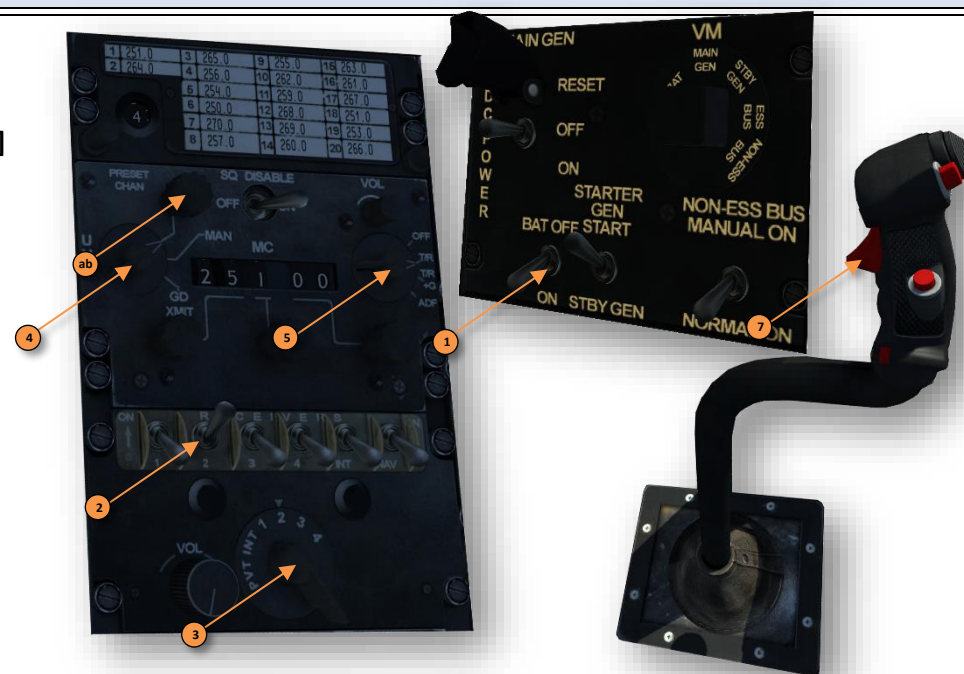
UH-1H  
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## [UH-1H] COMMUNICATION WITH OTHER AIRCRAFT (PRESET)

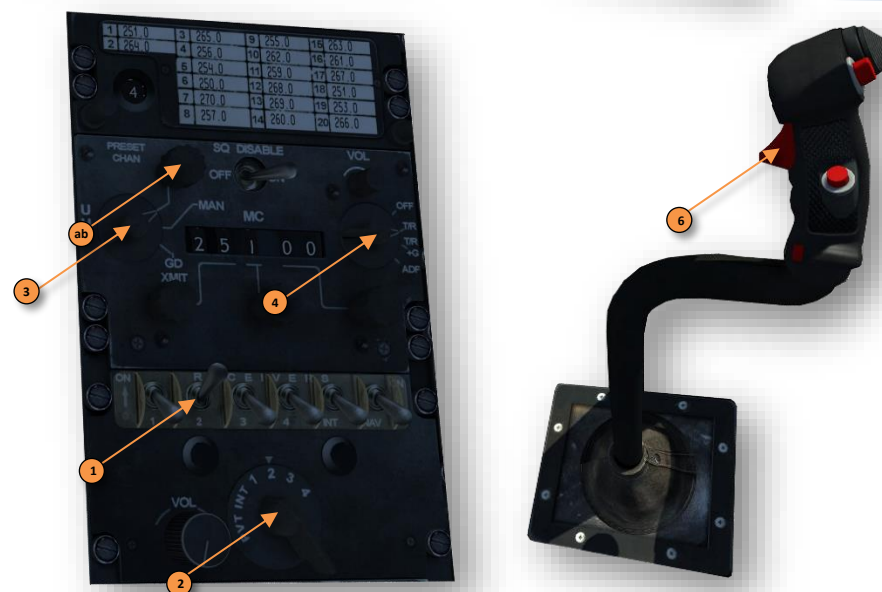
## A. Aircraft cold and dark

1. **Battery** | Set ON [LShift + P]
2. **C-1611/AIC** | Check Receiver Switch 2 is set ON [RCtrl + RShift + 2]
3. **C-1611/AIC** | Set Mode Switch to 2 (UHF) [RCtrl + RShift + T]
4. **AN/ARC-51BX UHF Radio** | Set PRESET CHAN [LCtrl + LShift + 6]
5. **AN/ARC-51BX UHF Radio** | Set T/R [LCtrl + LShift + 2]
6. **AN/ARC-51BX UHF Radio** | Set ATC Preset Channel
  - a) Preset channel decrease [LCtrl + LShift + S]
  - b) Preset channel increase [LCtrl + LShift + E]
7. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



## B. Aircraft fully operational

1. **C-1611/AIC** | Check Receiver Switch 2 is set ON [RCtrl + RShift + 2]
2. **C-1611/AIC** | Set Selector Switch to 2 (UHF) [RCtrl + RShift + T]
3. **AN/ARC-51BX UHF Radio** | Set PRESET CHAN [LCtrl + LShift + 6]
4. **AN/ARC-51BX UHF Radio** | Set T/R [LCtrl + LShift + 2]
5. **AN/ARC-51BX UHF Radio** | Set ATC Preset Channel
  - a) Preset channel decrease [LCtrl + LShift + S]
  - b) Preset channel increase [LCtrl + LShift + E]
6. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



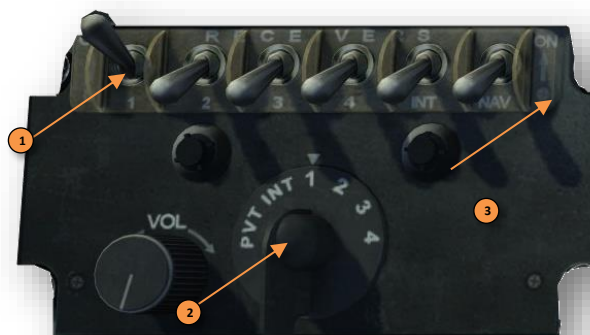
UH-1H  
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## [UH-1H] COMMUNICATION WITH GROUND ASSETS

## A. Aircraft fully operational

1. **C-1611/AIC** | Check Receiver Switch 1 is set ON [RCtrl + RShift + 1]
2. **C-1611/AIC** | Set Mode Switch to 1 (VHF FM) [RCtrl + RShift + R]
3. **AN/ARC-131 VHF FM Radio** | Set T/R [RAlt + RCtrl + 2]
4. **AN/ARC-131 VHF FM Radio** | Set ground assets frequency
  - a) 10 MHz decrease [RAlt + RCtrl + Q]
  - b) 10 MHz increase [RAlt + RCtrl + W]
  - c) 1 MHz decrease [RAlt + RCtrl + E]
  - d) 1 MHz increase [RAlt + RCtrl + R]
  - e) 10 kHz decrease [RAlt + RCtrl + U]
  - f) 10 kHz increase [RAlt + RCtrl + I]
  - g) 100 kHz decrease [RAlt + RCtrl + T]
  - h) 100 kHz increase [RAlt + RCtrl + Y]
5. **Radio Trigger (2<sup>nd</sup> Stage)** | Push [RAlt + \]



UH-1H HUEY

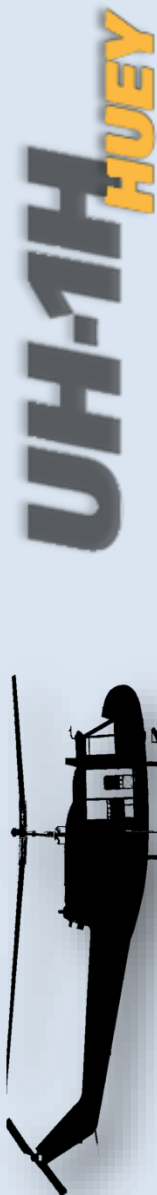
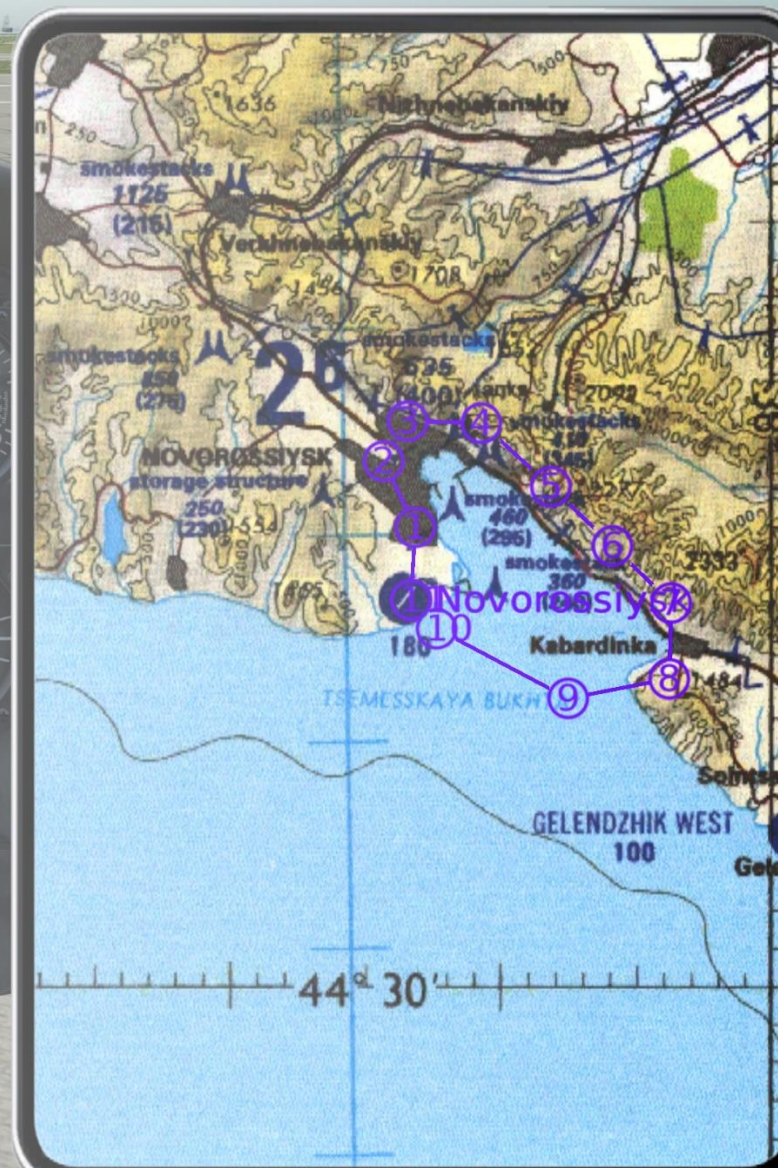


## [UH-1H] WAYPOINT NAVIGATION

**Aircraft fully operational**

*In the Huey, waypoint navigation is best performed with the kneeboard*

- Kneeboard** | ON/OFF [RShift + K]
- Kneeboard** | Next Page []]
- Kneeboard** | Previous Page [[]]
- Kneeboard** | Mark current Position and Heading [RCTRL + K]
- Kneeboard** | Glance View [K]





**Aircraft fully operational**

1. **Radio Compass Indicator** | Check alignment with **Standby Magnetic Compass**
  - a) Compass Synchronizing decrease [LCtrl + LAlt + .]
  - b) Compass Synchronizing increase [LCtrl + LAlt + ,]
2. **Radio Compass Indicator** | Set Landing Course
  - c) Heading decrease [LCtrl + LShift + .]
  - d) Heading increase [LCtrl + LShift + ,]
3. **Course Deviation Indicator** | Set Landing Course
  - e) Heading decrease [LCtrl + .]
  - f) Heading increase [LCtrl + ,]
4. **Compass Switch** | Set MAG [LCtrl + LAlt + G]
5. **C-1611/AIC** | Set NAV Receiver Switch ON [RCtrl + RShift + 6]
6. **AN/ARN-82** | Set ON (PWR) [LShift + LAlt + 2]
7. **AN/ARN-82** | Set ILS Frequency (VHF)
  - g) MHz decrease [LShift + LAlt + O]
  - h) MHz increase [LShift + LAlt + P]
  - i) kHz decrease [LShift + LAlt + [ ]]
  - j) kHz increase [LShift + LAlt + ]]
8. **AN/ARN-82** | Check audible Morse Code
9. **Marker Beacon Sensing Switch** | Set High [LShift + V]
10. **Marker Beacon Volume** | Check
  - k) Marker Beacon Volume decrease [LShift + .]
  - l) Marker Beacon Volume increase [LShift + ;]
11. **Course Deviation Indicator**
  - ➔ Align the vertical pointer with the center of the DVI (in the given picture it is not aligned).
  - ➔ You are flying towards the ILS beacon when the vertical pointer deflects in the opposite direction of your cyclic controls.
12. **Marker Beacon light**
  - ➔ Lights up at the outer marker (2.5 nm before the runway threshold) combined with a low-frequency sound.
  - ➔ Lights up at the inner marker (0.75 nm before the runway threshold) combined with a high-frequency sound.



## Aircraft fully operational

1. **Radio Compass Indicator** | Check alignment with **Standby Magnetic Compass**
  - a) Compass Synchronizing decrease [LCtrl + LAlt + .]
  - b) Compass Synchronizing increase [LCtrl + LAlt + ,]
2. **Compass Switch** | Set MAG [LCtrl + LAlt + G]
3. **C-1611/AIC** | Set NAV Receiver Switch ON [RCtrl + RShift + 6]
4. **AN/ARN-82** | Set ON (PWR) [LShift + LAlt + 2]
5. **AN/ARN-82** | Set VOR Frequency (VHF)
  - c) MHz decrease [LShift + LAlt + O]
  - d) MHz increase [LShift + LAlt + P]
  - e) kHz decrease [LShift + LAlt + [ ]
  - f) kHz increase [LShift + LAlt + ]]
6. **AN/ARN-82** | Check audible Morse Code
- 7a. **Radio Compass Indicator** | Set VOR [LCtrl + G]
  - ➔ Both pointers show towards VOR beacon.
- 7b. **Radio Compass Indicator** | Set ADF [LCtrl + G]
  - ➔ Pointer 2 (thick) shows towards VOR beacon.
  - ➔ If ADF frequency is tuned, pointer 1 (thin) shows towards that beacon; otherwise both pointers show towards VOR beacon.

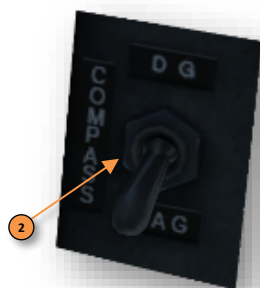
UH-1H HUEY





**Aircraft fully operational**

1. **Radio Compass Indicator** | Check alignment with **Standby Magnetic Compass**
  - a) Compass Synchronizing decrease [LCtrl + LAlt + .]
  - b) Compass Synchronizing increase [LCtrl + LAlt + ,]
2. **Compass Switch** | Set MAG [LCtrl + LAlt + G]
3. **C-1611/AIC** | Set Receiver Switch 1 ON [RCtrl + RShift + 1]
4. **AN/ARC-131** | Set CARR [RCtrl + RAlt + 7]
5. **AN/ARC-131** | Set HOME [RCtrl + RAlt + 4]
6. **AN/ARC-131** | Set FM Signal Frequency
  - c) 10 MHz decrease [RCtrl + RAlt + Q]
  - d) 10 MHz increase [RCtrl + RAlt + W]
  - e) 1 MHz decrease [RCtrl + RAlt + E]
  - f) 1 MHz increase [RCtrl + RAlt + R]
  - g) 100 kHz decrease [RCtrl + RAlt + T]
  - h) 100 kHz increase [RCtrl + RAlt + Y]
  - i) 50 kHz decrease [RCtrl + RAlt + U]
  - j) 50 kHz increase [RCtrl + RAlt + I]
7. **AN/ARC-131** | Check audible Radio Transmission
8. **Course Deviation Indicator**
  - ➡ Align the vertical pointer with the center of the DVI.
  - ➡ You are flying towards the FM radio transmitter when the vertical pointer deflects in the opposite direction of your cyclic controls.



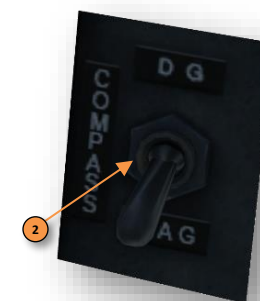
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**[UH-1H] ADF NAVIGATION (AUTOMATIC OPERATION)****Aircraft fully operational**

1. **Radio Compass Indicator** | Check alignment with **Standby Magnetic Compass**
  - a) Compass Synchronizing decrease [LCtrl + LAIt + .]
  - b) Compass Synchronizing increase [LCtrl + LAIt + ,]
2. **Compass Switch** | Set MAG [LCtrl + LAIt + G]
3. **C-1611/AIC** | Set NAV Receiver Switch ON [RCtrl + RShift + 6]
4. **AN/ARN-83** | Set ADF [LCtrl + LAIt + 2]
5. **AN/ARN-83** | Set NDB Frequency
  - c) Select Band [LCtrl + LAIt + 5]
  - d) Frequency decrease [LCtrl + LAIt + []]
  - e) Frequency decrease [LCtrl + LAIt + []]
6. **AN/ARN-83** | Check audible Morse Code
7. **Radio Compass Indicator** | Set ADF [LCtrl + G]
  - ➡ Pointer 1 (thin) shows towards ADF beacon

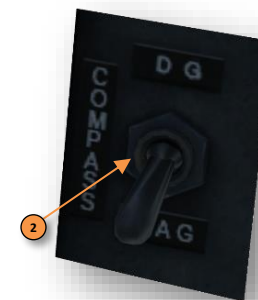
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## [UH-1H] ADF NAVIGATION (MANUAL OPERATION)

## Aircraft fully operational

1. **Radio Compass Indicator** | Check alignment with **Standby Magnetic Compass**
  - a) Compass Synchronizing decrease [LCtrl + LAIt + .]
  - b) Compass Synchronizing increase [LCtrl + LAIt + ,]
2. **Compass Switch** | Set MAG [LCtrl + LAIt + G]
3. **C-1611/AIC** | Set NAV Receiver Switch ON [RCtrl + RShift + 6]
4. **AN/ARN-83** | Set LOOP [LCtrl + LAIt + 4]
5. **AN/ARN-83** | Set BFO ON [LCtrl + LAIt + Q]
6. **AN/ARN-83** | Set NDB Frequency
  - c) Select Band [LCtrl + LAIt + 5]
  - d) Frequency decrease [LCtrl + LAIt + []]
  - e) Frequency decrease [LCtrl + LAIt + ]]
7. **AN/ARN-83** | Check audible Morse Code
8. **Radio Compass Indicator** | Set ADF [LCtrl + G]
9. **AN/ARN-83** | Manually rotate Loop Antenna with L/R Button to any selected radio station by controlling the Aural null [LCtrl + LAIt + X/C]



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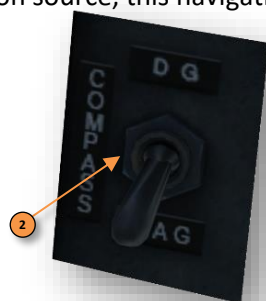


## [UH-1H] RADIO DIRECTION FINDING

## Aircraft fully operational

1. **Radio Compass Indicator** | Check alignment with **Standby Magnetic Compass**
  - a) Compass Synchronizing decrease [LCtrl + LAlt + .]
  - b) Compass Synchronizing increase [LCtrl + LAlt + ,]
2. **Compass Switch** | Set MAG [LCtrl + LAlt + G]
3. **C-1611/AIC** | Set NAV Receiver Switch ON [RCtrl + RShift + 6]
4. **AN/ARN-82** | Set ON (PWR) [LShift + LAlt + 2]]
5. **AN/ARN-82** | Set VOR Frequency (Purple Radial)
  - c) MHz decrease [LShift + LAlt + O]
  - d) MHz increase [LShift + LAlt + P]
  - e) kHz decrease [LShift + LAlt + []]
  - f) kHz increase [LShift + LAlt + ]]
6. **AN/ARN-82** | Check audible Morse Code
7. **AN/ARN-83** | Set ADF [LCtrl + LAlt + 2]
8. **AN/ARN-83** | Set NDB Frequency (Yellow Radial)
  - g) Select Band [LCtrl + LAlt + 5]
  - h) Frequency decrease [LCtrl + LAlt + []]
  - i) Frequency increase [LCtrl + LAlt + ]]
9. **AN/ARN-83** | Check audible Morse Code
10. **Radio Compass Indicator** | Set ADF [LCtrl + G]
  - ➔ Pointer 2 (thick) shows towards VOR beacon and pointer 1 (thin) shows towards ADF beacon
  - ➔ Navigate until the angles of the RCI pointers are same as the angles of the beacon radials.
  - ➔ Due to the absence of a distance measurement to the beacon source, this navigation method is imprecise.

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**Task: "Fly to Landing Zone at 37T GG 32 36"**

Understanding the MGRS Coordinates

**37T GG 32 36**

- Map Number (Grid Zone)
- 100 km x 100 km Grid (GG)
- 10 km x 10 km Grid (GG 33)
- 1 km x 1 km Grid (GG 3236)

1. Finding the Grid Zone **37T** at the F10 Map  
➡ Zoom In
2. Finding Grid GG  
➡ Zoom In
3. Finding Grid GG **33**  
➡ Zoom In
4. Finding Landing Zone at GG **3236**  
➡ in Grid GG**33** go from bottom left corner  $\frac{2}{10}$  to the east and  $\frac{6}{10}$  to the north.

