



Pakistan Amateur  
Radio Society



# BASICS OF AMATEUR RADIO



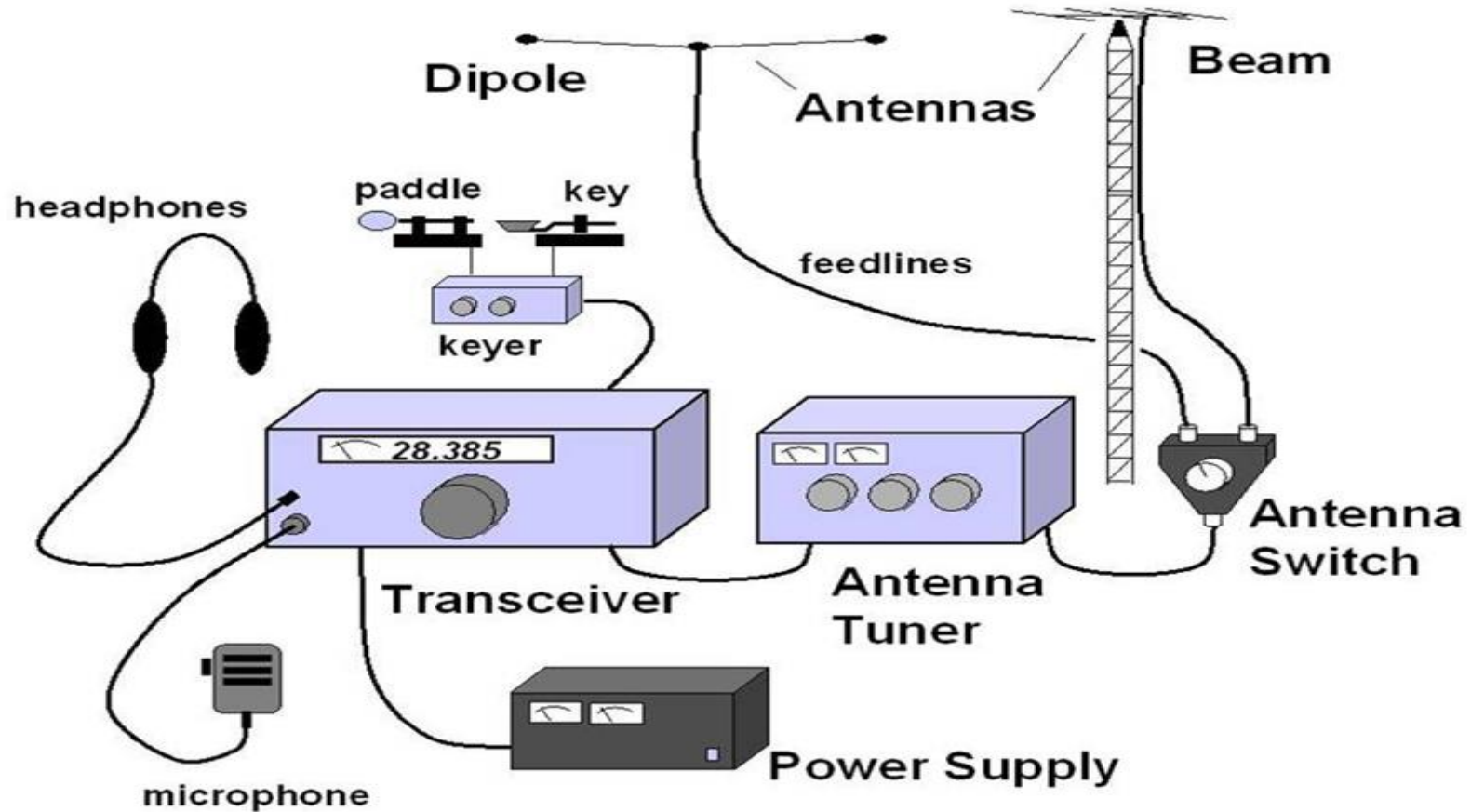


# HAM - Introduction

# What is a HAM Radio?

- ▶ Amateur radio operators (HAMs) are people with an interest in radio design and communication
- ▶ More importantly they provide the community with a vital resource in case of an emergency or natural disaster
- ▶ The word "**HAM**" was the station CALL of the first **Amateur** wireless station operated by some amateurs of the Harvard **Radio** Club. They were ALBERT S. HYMAN, BOB ALMY and POOGIE MURRAY in 1908. At first they **called** their station "HYMAN-ALMY-MURRAY".

# A typical HAM Station





# Radio Ethics

## Basis & Purpose – Amateur Service

- ◉ Recognition and enhancement of the value of the amateur service to the public as a voluntary non-commercial communication service, particularly with respect to providing emergency communications.
- ◉ Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.
- ◉ Encouragement and improvement of the amateur service through rules which provide for advancing skills in both, the communication and technical phases of the art.
- ◉ Expansion of the existing reservoir within the amateur radio service of trained operators, technicians and electronics experts.
- ◉ Continuation and extension of the amateur's unique ability to enhance international goodwill.

# Few Basic “DO NOT” Rules

- ▶ No music (except from NASA)
- ▶ No payment may be accepted
- ▶ No Business/Politics to be discussed
- ▶ No profanity or obscenity allowed
- ▶ No codes, ciphers/scramblers may be used
- ▶ No false or deceptive signals may be transmitted
- ▶ If your license expires you may no longer transmit
- ▶ **Abide by the HAM Code of Conduct – ([www.pakhams.com](http://www.pakhams.com))**

# Ham radio Population Density

Country	Number of Hams	Reporting year
United States	801,424	2016
Japan	435,581	2015
Thailand	176,278	2006
Germany	75,262	2007
Canada	69,183	2011
Republic of China	68,692	1999
Spain	58,700	1999
United Kingdom	58,426	2000
South Korea	42,632	2012
Russia	38,000	1993
Brazil	32,053	1997
Italy	30,000	1993
Indonesia	27,815	1997
France	14,160	2013
Ukraine	17,265	2000
Argentina	16,889	1999
Poland	16,000	2000
Australia	15,328	2000
India	15,679	2000
Malaysia	10,509	2016



# Support extended by PTA

- ▶ **SWL period reduced to 1 year.**
- ▶ **Age Bracket to apply for license reduced to 12 years.**  
Two types of Licenses as of now;
- ▶ **RESTRICTED GRADE**  
(from age 12-18) Power restricted to 25 watt
- ▶ **GENERAL GRADE**  
(18 plus)
- ▶ **Mobile operation allowed on as and when required basis (PTA approval required for every instance)**
- ▶ **Cancelled Licenses restored for few Hams who couldn't renew their licenses within the prescribed time.**

# Support required from the Authorities

- ▶ Clearances are taking very long. The duration at the moment averages to Approx 1 year plus. This needs to be reduced.
- ▶ SWL period to be reduced for those whose clearance arrives within the time prescribed in PTA SOP.
- ▶ Mobile operation permission duration to be increased
- ▶ Validity of Ham Licenses period to be increased to 10 years
- ▶ Life time renewal for Senior Hams (Above 70 years of age)

Questions?

