

RTS

CE ☒ RoHS

DV-3400

TWO WAY RADIO

- 128channels
- 5 Watt output power
- Voice channel announcement
- Inbuilt VOX
- Emergency alarm & night lighting function
- 1200 mA Li-On Battery Pack
- Rapid Desktop Charger
- 12V Car Charger
- Built in FM radio



INSTRUCTION MANUAL

RTS HULPLYN

Geagte klient indien u enige probleme ondervind, skakel gerus die volgende telefoon nommer: **086100 2525**

Tussen 08H00 en 17H00 weekdae

Ons sal u met graagte te hulp wees

U radio is soos volg geprogrammeer:

Kanaal 1-8 met PMR 446

Kanaal 9-77 met LPD

Kanaal 81-85 met SA se LFK

m.a.w hierdie produk sal met alle ICASA goedgekeurde produkte kan kommunikeer

RTS Help Line

Dear client should you experience any difficulties or problems on your RTS Product (s) please feel free to contact our office at **086100 2525**

Weekdays between 08H00 and 17H00

We will gladly assist you with your purchased RTS Product (s)

This radio have been programed with the following factory defaults:

Channel 1~8 = PMR 446

Channel 9~77 = LPD

Channel 81~85 = SA LFC

Dankie vir u ondersteuning!

Baie geluk met die aankoop van die **RTS** DV-3400 handradio! Die **RTS** DV -3400 draagbare radio is maklik om te gebruik en dit is 'n kragtige radio wat u van uitstekende kwaliteit verseker.

Voor u hierdie radio gebruik, lees asseblief die handleiding deur om te verseker dat u weet wat om te verwag van u radio, en hoe om die radio ten volle te gebruik, asook die moets en moennies van die produk. Ons DV-3400 stel u voor aan die innoverende DSP (Digitale Sein Prossesering) 'n basisband-tegniek, wat help om stem en inkrripsies te verwerk.

Die DV-3400 is 'n modern en kompakte handradio, wat u toelaat om vinnig en maklik te kommunikeer.

Van die plus punte van hierdie radio sluit in hoë-krag uitset (>5W) en 'n koste effektiewe proffesionele handradio. Van die radio se unieke funksies is: 'n flitslig en opsionele oorfone wat gebruik kan word in die vermaaklikheidsindustrie, hotelle, winkelsentrums en ander handelsektore.

Veligheidsmaatreëls

Die **RTS** DV-3400 handradio is uitstekend ontwerp met gevorderde tegnologie.

Om beserings en beskadiging van u radio te voorkom, let asseblief op na die volgende:

- 1.Hou hierdie handradio en toebehore weg van kinders af.
- 2.Moet asseblief nie self poog om aan die radio te peuter of veranderinge te maak sonder toestemming nie. 'n Nie-proffesionele persoon mag skade aan die radio veroorsaak.
- 3.Gebruik asseblief die voorgeskewe battery herlaaier en battery om skade aan die radio te voorkom.
- 4.Gebruik asseblief ook voorgeskrewe antenna om voldoende reikafstand te bekom.
- 5.Moet asseblief nie die handradio te lank blootstel aan direkte sonlig nie. Moet ook nie naby warm voorwerpe laat nie.
- 6.Moet asseblief nie die handradio aan buitengewone stowwerige of vogtige areas blootstel nie.
- 7.Moet nie skadelike chemikalië of skoonmaakmiddels gebruik om die radio mee skoon te maak nie.
- 8.Moet NOOIT hierdie handstel gebruik sonder dat die antenna opgeskroef is nie.
- 9.Wanneer u hierdie handstel gebruik, stel ons voor dat u vir 'n minuut praat en vir minute ontvang. Wanneer hierdie handstel vir te lank uitstuur, veral op hoë-krag, sal die handstel warm word aan die agterkant. Moet ook nie die warm deel van hierdie radio op 'n plastiese voorwerp neerlê nie. Die battery sal ook vinniger afloop op hoë krag uitsending as op lae krag.
- 10.As daar enige onaangename reuke of rook ontstaan uit die handstel, moet die handstel dadelik afgeskakel word en die battery uitgehaal word. Kontak dan u naaste **RTS** handelaar.

**Handleiding toegepas aan: DV-3400 UHF FM Handradio
VHF FM Handradio
Programmering Sagteware: QPS3400**

NOTA:

Wanneer die handstel geprogrammeer word, moet die oorspronklike fabrieksdata eers gelees word, alvorens die frekwensie ens. oorgeskryf word, andersins kan daar probleme ontstaan a.g.v die verskillende frekwensie bande ens.

UITEENSETTING	01
Bybehore Voorsien	01
STANDAARD BYBEHORE/OPSIONELE BYBEHORE	02
Standaard Bybehore.....	02
Opsionele Bybehore	02
BATTERY INFORMASIE	03
Herlaai van die batterypak.....	03
Voorgeskrewe Herlaaiër	03
Neem kennis.....	03
Hoe om die battery te stoor	04
Herlaai van radio in voertuig.....	05
Installering en Verwydering van battery.....	06
Installering en Verwydering van die antenna.....	06
Installering en Verwydering van die belt knip	07
Installering van die luidspreker en mikrofoon (Opsioneel).....	07
Installering/Verwydering van die arm band (Opsioneel).....	07
BEKENDSTELLING	08
LCD Skerm	08
Agtergrondlig- status & stem aankondiging.....	11
[PF1] & [PF2] "Sleutel instelling.....	11
BASIESE UITVOERINGS	12
Aan/Af skakel van Handstel.....	12
Aan/Afskakel van flitslig.....	12
Volume skakelaar	12
Huidige kanaal navrae.....	12
Verstelling van frekwensie	13
Vinnige verstelling van frekwensie	13
Hoe om 'n kanaal te kies	13
Ontvang	14
Uitstuur	14
Alarm funksie	15
Sluit van sleutelbord	15
FUNKSIES OPSTELLING	16
Basiese Funksie Opstelling	16
CTCSS/DCS Enkodeer/Dekodeer.....	16

o INHOUD

CTCSS/DCS Enkodeerder/Dekodeer Setup	17
Modus Selektoring	17
FM Radio	18
"Beep" Stem aankondiger	18
"Squelch" Vlak Opstelling	19
VOX AAN/AF	19
VOX Vlak Opstelling	20
Frekwensie Opstellings	20
GEVORDERDE UITVOERINGS	21
"Squelch" Af	21
Monitor	21
Hoë / Lae krag skakelaar	21
Skandeer	22
Battery kapasiteit navraag	22
Aandag vestig op oproep	22
Tydelike verwyderinge van kanaal wat inmeng	23
Wye / Nou Band Opstelling	23
Kanaal Besig - Blokkering	23
Skandering van kanaal lys	24
Uitsaai tydhouer (TOT)	24
Uitsaai Tyduitteller alarm	24
Herwin van battery	24
AGTERGROND UITVOERINGS	25
Prioriteits Skandering	25
Terug gaan na oorsproklike kanaal	25
Instandhouding en Skoonmaak	25
TEGNEIESE SPESIFIKASIES	26
PROBLEEM OPLOSSINGSGIDS	28
GRAFIEK AANGEHEG	30
CTCSS Frekwensie grafiek	30
DCS grafiek	31

Pak die handradio uit. Ons stel voor dat u die volgende items identifiseer wat gelys is in die table voor u die verpakkingsmateriaal weggooi. As daar enige items vermis of beskadig is gedurende vervoer, moet u dadelik die naaste **RTS** handelaar skakel.

Bybehore Voorsien

Item	Number	Quantity
Antenna	QA07V/QA07U	1
Li-ion Battery	QB-33L	1
Battery Herlaaier	QBC-33L	1
AC "adaptor"	QPS-05	1
Belt knip	BC06	1
Handleiding		1
12V Motorlaaier	CPL-02	1

◦ **STANDAARD BYBEHORE/OPSIONELE BYBEHORE**

Standaard Bybehore



Antenna *
QA07V(136-174MHZ)
QA07U(400-480MHZ) etc.



Li-ion Battery Pak
(1300mAh) QB-33L



Laaier
QBC-33L



AC "Adaptor"
(12V/500mA)
QPS-05



Belt Knip BC06



Motorlaaier CPL-02



Handleiding

Nota:

Om die frekwensie of band van die antenna te bekom, moet u asseblief na die etiket onderaan die antenna verwys.

Opsionele Bybehore



USB Programming
kabel PC03



Oorfone HS03



Programming
Sagteware QPS3400



Li-ion Battery Pak
(2200mAh)
QB-34L



Handband GS01

Herlaai van die batterypak

Die batterypak word nie by die fabriek gelaai nie, dus moet u die battery laai voor dit gebruik word.

As die battery na gebruik of vir 'n lang tyd gebêre word (vir meer as 2 maande) en dan eers herlaai word, sal die battery nie sy volle kapasiteit kan bereik nie. Nadat 'n volle herlaai en afloop siklus deurgedaan is sal die radio op sy beste kan werk. Let ook daarop die battery se uitset vermoë sal afneem na 'n tyd, al word die battery vol en reg herlaai. Die battery moet dan vervang word.

Voorgeskrewe herlaaiers

Wees asseblief seker dat u slegs die herlaaiers gebruik wat aan u radio voorgeskryf is. Ander modelle se herlaaiers kan skade en beserings veroorsaak. As u die batterypak installeer en 'n rooi liggie flikker, of stemtoon lui, herlaai asseblief die battery.

Neem kennis

- Moet nooit probeer om die omhulsel van die battery pak te verwyder nie.

Wanneer die battery vervang word, moet nooit die ou battery in die vuur gooi of probeer verbrand nie.

- **RTS** sal nie verantwoordelik gehou word vir enige skade wat opgedoen is a.g.v. ongemagtigde veranderinge aan die battery nie.
- Die verkose temperature moet tussen 5°C en 40°C wees terwyl die battery herlaai word. Die battery kan dalk nie ten volle herlaai word as die temperature te veel verskil nie
- Skakel altyd die radio af alvorens u die battery herlaai.

Moet nie die battery uit die laaier verwyder terwyl dit nog besig is om te laai nie.

As die battery vol gelaai is, moet dit nie weer gelaai word nie - dit kan die battery se lewe beïnvloed.

◦ BATTERY INFORMASIE

Moet nooit die battery laai wanneer die battery klam is nie, maak dit eers droog.

WAARSKUWING:

As sleutels, kettintjies of ander elektriese metale in kontak met die battery se terminale kom, mag dit skade of beserings veroorsaak. Wanneer die terminale 'n kortsluiting maak, kan dit baie hitte veroorsaak. Wees asseblief versigtig as u die radio aan u dra of gebruik. Bêre asseblief die radio in 'n geïsoleerde houer. Moenie in 'n staal houer bêre nie.

(((Hoe om die battery te stoor

1. As die battery gestoor moet word, moet die battery so 50% gelaai wees.
2. Stoor in 'n koel droë plek.
3. Moet nie in direkte sonlig stoor nie.

WAARSKUWING:

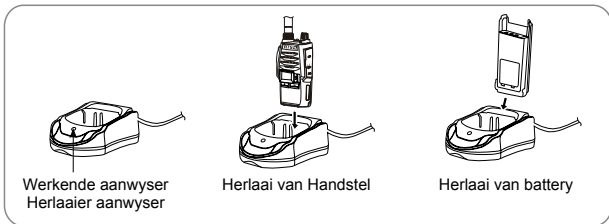
- Moenie 'n kortsluiting in die battery se terminale veroorsaak nie.
- Moenie probeer om die omhulsel van die battery pak te verwyder nie.
- Moenie die battery in die radio sit in 'n gevaarlike of warm omgewing nie, dit kan 'n kortsluiting veroorsaak wat weer tot 'n ontploffing kan lei.

Vir optimum battery kapasiteit, moet nie die radio uit die laaier verwyder alvorens die radio nie volledig herlaai is nie.

■Hoe om die battery direk of deur die handstel te herlaai.

1. Die radio en battery kan apart van mekaar gelaai word.
2. Prop die AC "adaptor" in die AC uitlating, plaas dan die prop van die kabel in die DC gat, wat jy sal vind aan die agterkant van die herlaaier.

Herlaai aanwysing - Groen liggie brand wanneer battery volgelaaai is.



- Prop die Li-ion battery alleen of op die radio gekoppel saam in die voorgeskrewe herlaaier.
- * Maak seker dat die battery korrek op die laaier geplaas is. Laaier se liggie sal - ROOI - vertoon.
- Die rooi liggie sal na GROEN verander as die battery vol gelaaai is.

NEEM KENNIS:

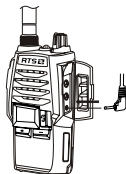
Dit neem ongeveer 4 ure vir die battery om vol te laai. Nadat die battery vol gelaaai is moet die battery of radio van die herlaaier afgehaal word.

⦿ Herlaai van radio in voertuig

Konnekteer die radio direk aan die voertuig laaier

NEEM KENNIS:

Skakel asseblief die radio af voordat u die radio in die voertuig herlaai. Dit neem ook langer vir die battery om so te herlaai (tot 12 ure).



◦ BATTERY INFORMATIE

(((Installering en verwydering van battery

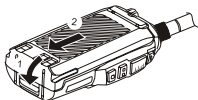
■ Installering van battery:

Pas hierdie volgende riglyne toe deur na die gidse agterop die radio te verwys, druk die battery na bo tot die battery perfek op die radio pas.



■ Verwydering van battery pak:

Skuif die battery se hakkie soos met pyltjie aangedui, verwyder die battery deur die battery uit te skuif.



(((Installering en verwydering van antenna

■ Installering van die antenna:

Skroef die antenna op die konneksie aan die bokant van die radio - deur die radio vas te hou, draai dan dit kloksgewys totdat dit styf vas is.

■ Verwydering van Antenna:

Draai die antenna net weer anti-kloksgewys om die antenna te verwyder.



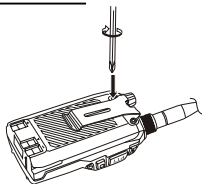
(((**Installering en verwydering van belt knip**

■ Installering van die Beltnip:

Spasieër die belt knip in die ooreenstemmende groefies op die agterkant van die handstel, skroef dan kloksgewys vas.

■ Verwydering van beltnip:

Draai die skroefies los om die beltnip te verwyder.



(((**Installering van die luidspreker en mikrofoon (Opsioneel)**

Maak die MIC-SP klappie oop en sit dan die luidspreker/mikrofoon in die MIC-SP gaatjie.

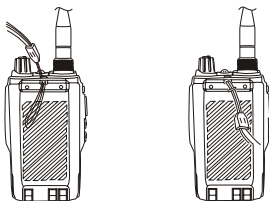
NEEM KENNIS:

Die handstel is nie waterdig terwyl die luidspreker/mikrofoon gebruik word nie.



(((**Installering/Verwydering van die arm band (Opsioneel)**

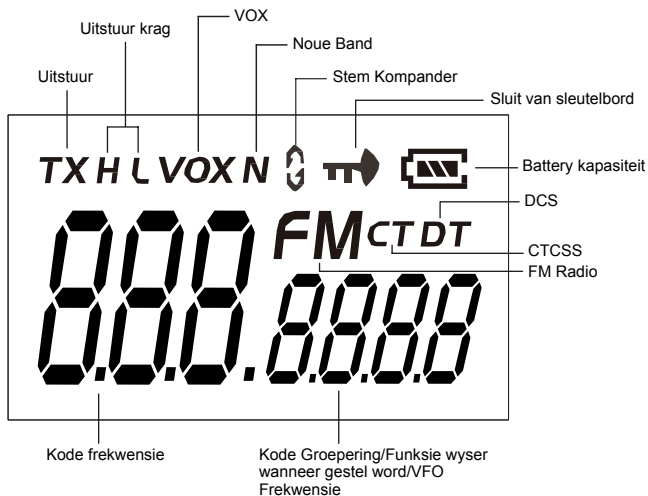
Druk die toutjie van die armband deur die gaatjie wat jy op die agterkant bo van die handstel sal kry; trek dan die hele armband deur die ogie en maak seker dat dit styf vas is.



◦ BEKENDSTELLING

(((LCD Skerm

Op die skerm is daar klein beeldings van al die opsionele funksies .



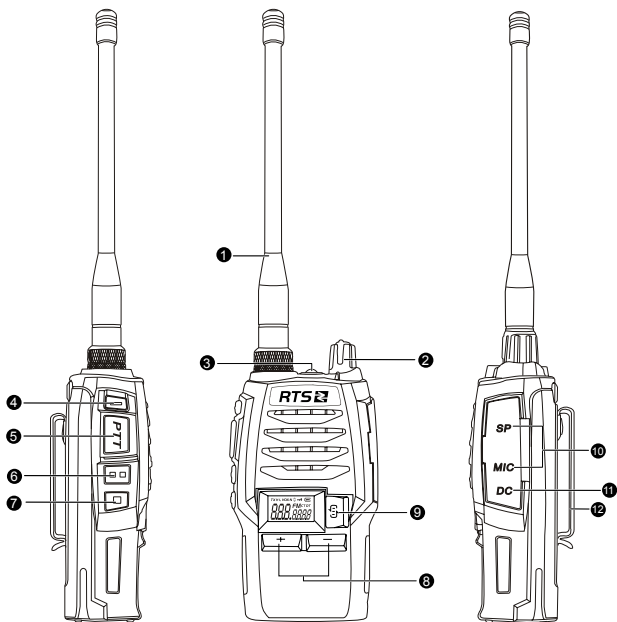
Battery kapasiteit aanwyser (Vol)



Batterykrag laag, verander battery of herlaai.



Oorblywende battery kapasiteit



◦ BEKENDSTELLING

1. Antenna

2. Aan/Af skakelaar:

Draai hierdie skakelaar kloksgewys om die handstel aan te skakel. Nadat die handstel aangeskakel is, draai dan die skakelaar kloksgewys en anti-kloksgewys om die volume op of af te stel. Om af te skakel, draai die skakelaar anti-kloksgewys totdat 'n "ka" geluid gehoor word

3. Flitslig:

Terwyl die handstel aangeskakel is, druk die Nood Alarm sleutel vinnig om die flitslig aan te skakel. Druk weer dieselfde knoppie vinnig om die flitslig af te skakel.

4. Alarm Sleutel

Terwyl die handstel op bystand is, druk hierdie sleutel vir 1 sekonde om die alarm funksie aan te skakel. Herhaal dieselfde oefening om die alarm funksie weer af te skakel.

5. PTT Sleutel

Wanneer u iemand roep, druk en hou hierdie sleutel in terwyl u in die mikrofoon praat. Los weer hierdie sleutel om weer te ontvang.

6. PF1 Sleutel

Dit is 'n programmeerbare sleutel wat verskillende funksies kan aanneem deur programmering.

7. PF2 Sleutel

Dit is 'n programmeerbare sleutel wat verskillende funksies kan aanneem deur programmering.

Draai die skakelaar om 'n kanaal te kies. Draai kloksgewys vir 'n hoër kanaal, draai anti-kloksgewys om 'n laer kanaal te kies.

8. Die / Sleutels

Nadat u die Funksie Opstelling tabel ingegaan het, kan u hierdie sleutels druk om die kanaal se waarde te verander. As hierdie sleutel lank ingehou word kan waardes vinnig verander word. As die FM radio aan is, kan jy hierdie sleutel druk om die stasies te verander.

9. Sleutel

Druk hierdie sleutel aanhoudelik om die gekose funksie te kies om in te stel. Druk hierdie sleutel saam met  /  sleutels om die gekose funksie waarde te kies.

10. Eksterne mikrofoon/Luidspreker gaatjie/Datakabel gaatjie

11. Noodgeval herlaai gaatjie

12. Belt knip

(((Agtergrondlig Status & stem aankondiger

Lae krag waarskuwing	Handstel sal tydens lae krag uitset 'n luitoon deurstuur met 60 sekonde tussenposes, die rooi lig sal ook flikker.
Uitsending	Agtergrond lig (LCD) sal aan wees.
Sleutelbord uitvoeringe	Handstel sal 'n "DU" geluid maak wanneer 'n funksie ingetik word in die tabel van opsies, 'n "DU DU" geluid sal gehoor word as uit enige funksie gaan.

((([PF1] & [PF2] "Standaard sleutels"

Druk [PF1]	Navrae na batterykapasiteit
Druk [PF2]	"Squelch" af
Druk [PF1] en hou in vir een sekonde	Roep
Druk [P F 2] en hou in vir een sekonde	Hoë/lae krag verstelling

◦ **BASIESE UITVOERINGS**

Aan/Af skakel van Handstel

Aanskakel van handstel: Terwyl die radio afgeskakel is, draai die KRAG/VOLUME skakelaar totdat daar 'n "klik" geluid gehoor word. 'n Stem sal "Power on" aankondig asook die huidige kanaal.

Afsit van die handstel: Wanneer die handstel aan is, draai die KRAG/VOLUME anti-kloksgewys totdat 'n "klik" geluid gehoor word. Die handstel is nou afgeskakel.

Aan/Afskakel van flitslig

Terwyl die handstel aangeskakel is, druk die Alarm Sleutel vinnig om die flitslig aan te skakel. Druk weer dieselfde sleutel om die lig af te sit. Indien u die sleutel lank indruk sal die flitslig nie aanskakel nie.

Volume skakelaar

Wanneer die handstel aangeskakel is, draai die KRAG/VOLUME skakelaar om die volume te verstel. Draai die skakelaar kloksgewys om die volume hoër te stel, en anti-kloksgewys om die volume af te stel. U kan die [PF1] / [PF2] knoppie programmeer om die "squelch" se huidige volume ook te stel.

NEEM KENNIS:

Terwyl die [PF1] / [PF2] knoppie gedruk word om die "squelch" te monitor kan u die KRAG/VOLUME skakelaar draai om die volume te verstel. U kan so die volume ook beter hoor.

Huidige kanaal navrae

Terwyl die radio aangeskakel is, druk die  /  , die radio sal dan die kanaal nommer aankondig.

(((**Verstelling van frekwensie**

Terwyl die radio in die VFO frekwensie mode is, druk die  knoppie herhaaldelik tot die desimale kolletjie flikker. Terwyl dit in hierdie mode is druk die  /  knoppie om die frekwensie te stel. Druk dan die  knoppie om die frekwensie op te stel met 1MHz, om dit af te stel druk die  knoppie om die frekwensie af te stel met 1Mhz.

(((**Vinnige verstelling van frekwensie**

Druk die [PF1] of die [PF2] sleutel om die huidige frekwensie te bevestig en om uit die huidige frekwensie tabel te gaan. Nadat jy in die opstelling tabel was, en die frekwensie was nie gestel nie, sal die radio outomaties uit die tabel gaan na 10 sekondes.



NEEM KENNIS:

Gedurende die kanaal modus, sal hierdie funksie versteek wees. Hierdie funksie is af oor die algemeen. U kan hierdie funksie aansit deur programmering.

(((**Hoe om 'n kanaal te kies**

Gedurende die kanaal mode, kan u 'n kanaal kies deur die knoppie herhaaldelik te druk totdat die kanaal se syfer verskyn. Druk dan die  knoppie om die kanaal se syfer te verander, die handstel sal dan die kanaal nommer aankondig.



Druk die  knoppie om die kanaal op te stel en die  knoppie om die kanaal af te stel. Druk dan enige

◦ BASIESE UITVOERINGS

sleutel  behalwe, om jou kanaal nommer vas te stel en uit hierdie mode te gaan. Nadat op die opstellings mode ingegaan is en die frekwensie is nie vasgestel nadat daar uit hierdie modus gegaan is nie, sal die handstel self uit hierdie mode gaan na 10 sekondes.

NEEM KENNIS:

Wanneer die kanaal gestel word, sal die radio outomaties ongeprogrammeerde kanale oorslaan.

(((**Ontvang**

As op die huidige kanaal geroep word, sal die agtergrond lig verhelder, en jy kan dan die persoon hoor praat.

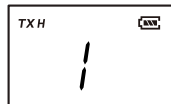
NEEN KENNIS:

- **U kan dalk nie die roep ontvang as die “squelch” vlak te hoog is nie.**
- **Twee radios moet presies dieselfde geprogrammeer wees (selfde subtone) om met mekaar te kan praat.**

(((**Uitstuur**

U kan seker maak of 'n kanaal nie besig is deur die kanaal te monitor vir 'n rukkie deur die geprogrammeerde “squelch” af knoppie te druk [PF1] / [PF2]. Druk dan die [PTT] knoppie en praat in die mikrofoon.

Hou altyd so 'n 2.5-5cm afstand tussen mikrofoon en jou mond. Praat hard en duidelik.



Neem kennis:

Druk en hou die [PTT] knoppie in, as die agtergrond lig aankom vir 10 sekondes en af gaan, en die TX ikoon wys op die skerm is die handstel besig om uit te stuur. Los dan die [PTT] knoppie om te ontvang.

Alarm Funksie

Druk hierdie knoppie vir net meer as 3 sekondes om die Alarm Funksie aan te sit.

Wanneer hierdie funksie aangesit is, sal die radio dit aankondig met 'n luitoon. Dit sal dan die alarm uitstuur aan gekose persone of sisteme. Skakel die handstel aan en af om hierdie funksie af te skakel.

NEEM KENNIS:

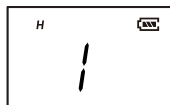
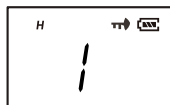
Fabriek opstellings: Algemeen. Hierdie funksie kan aangesit word deur prorgammering.

Sluit van sleutelbord

Die sleutelbord kan gesluit word om te keer dat die  /  sleutels gebruik word.

Om die sleutelbord sluit funksie aan te skakel, druk en hou die Alarm Sleutel in terwyl u die handstel aanskakel, los dan die sleutel totdat 'n "DU" geluid gehoor word.

Die skerm sal dan die  ikoon wys. Die  en  sleutels sal nie werk nie. Herhaal hierdie oefening om sleutelbord sluit funksie af te sit, u sal 'n "DU DU" geluid hoor wanneer dit afgeskakel is.



◦ FUNKSIE OPSTELLING

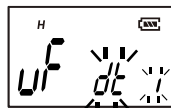
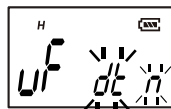
Basiese Funksie Opstelling

1. Druk [S] hierdie sleutel herhaaldelik om die sub-tabel op te stel.
2. Druk [+] / [-] om die funksie waarde op te stel.
3. Druk [PF1] of [PF2] om die instellings te bêre en uit te gaan.

CTCSS/DCS Enkodeer / Dekodeer

Wanneer die radio gewysig word met hierdie funksie, sal die radio slegs, wanneer daar CTCSS/DCS seine ontvang word, die ander party hoor roep. Radios met ooreenstemmende CTCSS/DCS opstellings sal jou roep kan hoor.

1. Druk herhaaldelik [S] Tot 'n "UF" ikoon op die LCD skerm wys.
2. Druk [+] / [-] om die CTCSS/DCS enkodeer/ dekodeer te stel of af te sit. Wanneer die CTCSS enkodeer/dekodeer gestel word sal die "CT" op die LCD flikker. Wanneer DCS positief enkodeer/dekodeer gekies word, sal die "DTN" op die LCD flikker. Wanneer die DCS in die inverse enkodeer/dekodeer gestel word sal die "DTI" op die LCD skerm flikker. As hierdie funksie afgeskakel word, sal "OFF" op die sleutelbord flikker.
3. Druk die [PF1] of [PF2] om opstellings te bêre en uit te gaan.

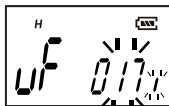
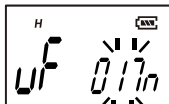
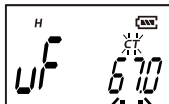


NEEM KENNIS:

Om self die funksie te stel, moet dit deur programmering gestel word.

(((• CTCSS/DCS Enkoderer/Dekodeer Instelling

1. Druk herhaaldelik die  sleutel totdat die CT/DT en die CTCSS/DCS flikker op die LCD skerm verskyn.
2. Druk die  /  herhaaldelik om die gekose CTCSS/DCS te dekodeer.
 CTCSS: 67-254.1H, totaal 50 groepe.
 "Default": 67HZ.
 DCS: 017N-765I, totaal 232 groepe. "N" op die LCD beteken 'n' positiewe kode. "I" op die LCD skerm beteken 'n' inverse kode.
 "Default": 017N
3. Druk [PF1] of [PF2] om die opstellings te bêre en terug te gaan na die bystand mode.



NEEM KENNIS:

Die ikoon "N" of "I" sal nie sigbaar wees wanneer die CTCSS/DCS funksie af is nie.

(((• Modus Selektoring

Daar is twee tipes metodes vir hierdie opsie, VFO (Frekwensie metode) en kanaal metode.

1. Terwyl die handstel op bystand is druk die  knoppie, die "UFO" sal op die skerm flikker.
2. Druk  / 
 Af: Kanaal Metode
 Aan: Frekwensie Metode
3. Druk [PF1]/[PF2] om uit te gaan.



◦ FUNKSIE OPSTELLING

NEEM KENNIS:

Die VFO Aan/Af funksie word met sagteware opgestel.

(((FM Radio

1. Druk  herhaaldelik totdat "FM" flikker.
2. Druk  /  om die FM funksie stel.
ON: Sit die FM radio aan.
OFF: Sit die FM radio af (of skakel die handstel af.)
3. Druk [PF1] of [PF2].

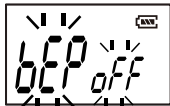


NEEM KENNIS:

Wanneer die FM funksie aan is druk  /  om deur die stasies te skandeer. Dit sal ook die huidige kanaal nommer aankondig. Wanneer 'n radio stasie opgetel word, sal dit ophou skandeer. Die radio kan stuur en ontvang terwyl die FM radio aan is.

(((Beep Stem aankondiger

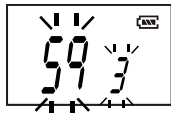
1. Druk  herhaaldelik totdat 'n "BEEP" op die LCD flikker.
2. Druk skakel  /  om die "BEEP" funksie aan / af
AAN: Sit die "BEEP" stem aankondiger aan.
AF: Sit die "BEEP" stem aankondiger af.
3. Druk [PF1] of [PF2] om opstellings te bêre en af te sit.



(((**“ Squelch” vlak opstelling**

Hierdie funksie word gebruik om die ontvangsintensiteit te verstel. As die ontvangsintensiteit 'n sekere vlak bereik, kan jy die ander party se roep ontvang, andersins sal die radio geen klank ontvang nie.

1. Druk  herhaaldelik totdat "SQ" flikker.
2. Druk  /  : Stel die "squelch" vlak
Totaal van 10 opsies vir hierdie vlak:: AF, 1-9 grade
3. Druk [PF1] of [PF2] om uit te gaan.



NEEM KENNIS:

Hierdie funksie kan slegs deur programmering opgestel word.

(((**VOX AAN/AF**

Wanneer hierdie funksie aan is, kan uitsending plaasvind as daar enige harde geluide in die omgewing is, sonder om die [PTT] knoppie te druk

1. Druk  Herhaaldelik totdat die "VOX" flikker.
2. Druk  /  om die VOX aan of af te skakel.
AAN: Sit die VOX funksie aan
AF: Sit die VOX funksie af.
3. Druk [PF1] of [PF2] om uit die funksie TE

NOTA:

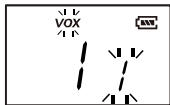
Om hierdie funksie self op te stel, moet dit eers met die sagteware deur programmering opgestel word. As die handstel weer aan en afgesit word, sal die VOX outomaties afgesit word.

◦ FUNKSIE OPSTELLING

(((**VOX Vlak Opstelling**

Hierdie funksie word gebruik om die volume te stel wat nodig is om uitsending te laat plaasvind. Hoe hoër die vlak van die VOX gestel is, hoe hoër moet die stemtoon wees.

1. Druk [S] herhaaldelik totdat "VOX" en die huidige VOX vlak flikker.
2. Druk [⊕] of [⊖] om die vlak van die VOX te stel.
9 vlakke vir die opsie: 1-9 vlakke
3. Druk [PF1] of [PF2] verandering te aanvaar.



Neem kennis:

**VOX vlakke kan slegs deur programmering opgestel word.
WERK SLEGS OP KOPSTUKKE**

(((**Frekwensie Opstellings**

Hierdie funksie kan SLEGS werk wanneer die radio in VFO mode is. Gedurende die VFO mode, kan gebruikers die frekwensie verstel deur hierdie opstelling.

1. Sodra die radio aan is druk [F5] herhaaldelik totdat "STP" ikoon die huidige waarde van die frekwensie wys op die skerm.
2. Druk [⊕] / [⊖] om die waarde te kies. Daar is vyf verskillende opsies: 5k, 6.25k, 10k, 12.5k en 25k.
3. Druk [PF1] of [PF2] om uit te gaan.

NOTA:

Hierdie funksie werk nie gedurende die kanaal metode nie.

[PF1] en [PF2] is programeerbaar, wat beteken dit kan sekere funksies aanneem deur programmering.

NEEM KENNIS:

Om die geprogrammeerde [PF1]-1s en [PF2]-2s te begin, moet gebruikers eers die [PF1] of [PF2] druk en inhou totdat die radio 'n "DU" geluid maak.

Herhaal die bogenoemde funksie om die funksie af te sit.

(((• **"Squelch" Af**

Terwyl die radio aangeskakel is, druk die geprogrammeerde "squelch" af [PF1] / [PF2] knoppie, die "squelch" kanaal is nie af nie, en jy kan dan die agtergrond geluide hoor. Druk hierdie sleutel weer, die "squelch" kanaal sal dan af wees. Deur hierdie funksie te gebruik, sny u die swakker seine uit. Die skerm sal die huidige kanaal intensiteit wys.

(((• **Monitor**

Druk die geprogrammeerde sleutel van Monitor [PF1] / [PF2], die radio sal 'n "Du" geluid maak, monitor is nou aan. Onder hierdie omstandighede sal die handstel CTCSS / DCS dekodeer ignoreer en die sein monitor van die ander party so lank as wat die ontvangs van die gepaardgaande golf gehoor kan word.. Druk hierdie sleutel weer, radio sal "Du Du" geluid maak en verlaat die monitor metode.

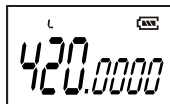
(((• **Hoë / Lae krag skakelaar**

Druk die geprogrammeerde sleutel van Monitor [PF1] / [PF2], die handstel sal 'n "Du" geluid maak en kondig dan die huidige krag status aan. Indien "Hoog" gekies word, stuur huidige kanaal uit teen 'n hoë krag. Indien "laag" gekies word, sal die huidige kanaal teen 'n lae krag stuur.

"H"-ikoon op die LCD 'n hoë krag.



"L"-ikoon op die LCD 'n lae krag 2.



◦ GEVORDERDE UITVOERINGS

(((Skandeer

Die skandeer funksie kan gebruik word om elke kanaal te monitor.

Onder die stand op die geprogrammeerde "Skandeer" sleutel, sal die radio 'n "Du" geluid maak en in die skandeer mode wees. Dit skandeer die kanale in die lys een vir een. Wanneer die radio 'n ooreenstemmende sein ontvang, sal die radio tydelik in die kanaal bly totdat die sein verdwyn. Druk dan weer die Skandeer sleutel, die handstel sal dan 'n "Du Du" beep maak, uitsendings skandeer en skakel die kanaal uit deur die gebruiker vooraf geprogrammeer was

Neem kennis:

Onder hierdie mode, kan die radio nie ontvang of uitsaai met ander radios via 'n herhaler nie.

(((Battery kapasiteit Navraag

Druk die geprogrammeerde "Batterykapasiteit navraag" sleutel, die radio sal dan die huidige battery kapasiteit aankondig. Daar is 10 vlakke in totaal. Vlak 10 beteken 'n volle battery kapasiteit. Wanneer die battery in vlak 1Th (6.1V), sal die LED liggie rooi flikker. Die radio sal gebruikers laat weet van die stand van die battery is.

(((Aandag vestig op oproep

Hierdie funksie is om gebruikers in te lig van die inkomende oproep wat nog nie ontvang is nie.

Onder bystand, druk die geprogrammeerde sleutel om oproepe mee te antwoord, stuur die handstel se roep sein. Wanneer die ontvanger die roep sein kry, sal die handstel hom herinner van die oproep deur die geprogrammeerde manier.

Vyf maniere van oproepe: vibrasie, lui (koord 1), lui (koord 2), vibrasie + lui (koord 1), vibrasie + lui (koord 2), standaard: vibrasie

+ lui (koord 1) as oproep gemis is sal 'n deuntjie jou laat weet.

Neem kennis:

Die handstel se vibrasie funksie is opsioneel. Wanneer daar geen vibrasie funksie is nie, is slegs die luitoon beskikbaar vir die in kennis stelling van oproep.

(((**Tydlike verwydering van kanaal wat inmeng**

Hierdie funksie kan tydelik die kanaal wat inmeng of kanaal wat beset is van die skanderingslys verwyder. Wanneer skandering berus op 'n kanaal, dan kan jy deur die druk van die geprogrammeerde sleutel tydelik die kanaal verwyder en keer dat inmenging plaasvind, die radio sal 'n "DU" geluid maak. Die PRIORITEITSKANALE kan egter nie tydelik verwyder word nie. As slegs een of twee kanale in die skanderingslys is, is hierdie aksie ook nie beskikbaar nie. Skakel die radio aan en af om die verwyderde kanale weer by te voeg.

(((**Wye / Nou Band Opstelling**

Op die basis van die nasionale voorwaardes, kan gebruikers kanaal spasiëring stel as 25K breë band of 12.5K (nou band) deur sagteware programmering.

Hierdie radio kan op 25K (breë band), en 12.5K (nou band), ens. gebruik word vir kommunikasie.

NEEM KENNIS

"N" op die LCD skerm dui nou band aan. Anders is dit breë band.

(((**Kanaal Besig - Blokkering**

Word slegs gebruik op herhaler sisteme

1. Herhaler: Wanneer jy op 'n herhaler werk en die BCL is aangeskakel, maak die radio 'n peep-peep beset toon as die kanaal besig is, en kan jy nie op die radio praat nie.

(((• Skandering van kanaal lys

Via programmering sagteware, kan gebruikers kies of hul die huidige kanaal wat skandeer word wil byvoeg. As die huidige kanaal nie in die lys van skandering is nie, sal die kanaal sal oorgeslaan word tydens die skandeer proses

(((• Uitsaai tydhouer (TOT)

Die doel van die Uitsaai Tydhouer is om te keer dat enige inbeller 'n kanaal vir 'n te lang tydperk besig hou. . As jy voortdurend vir 'n te lang tydperk uitstuur en ontvang sal die radio jou met 'n stem aankondiger waarsku dat die tyd uit is. Gebruikers kan die "TOT" stel deur sagteware programmering.

(((• Uitsaai Tyd-uitteller alarm

Die Uitsaai tyd-uitteller alarm sal die gebruiker laat weet deur 'n "beep-beep" geluid wanneer daar die gestelde hoeveelheid tyd oor is alvorens die radio sal uitsny. Slegs met sagteware programmeerbaar

(((• Herwin van battery

Wanneer hierdie funksie geaktiveer is, sal die radio meer doeltreffend die battery se verbruik verminder. Die radio sal outomaties die Battery Stoor funksie aanskakel wanneer dit nie 'n sein ontvang nie. Wanneer die radio egter ontvang en uitstuur, sal hierdie funksie outomaties afskakel.

(((• Prioriteits Skandering

Daar is twee prioriteit-kanaal instellings vir hierdie radio, 'n "vaste" en "gekoose" instelling. Gebruikers kan die gewenste prioriteit skandering stel deur sagteware programmering. As die radio op prioriteit skandeer, en die handstel ontvang geen oproep nie, sal die radio elke kanaal skandeer en ook die prioriteits-kanaal toets. Wanneer die nie-prioriteitskanaal 'n oproep ontvang, sal dit die getoetsde prioriteits kanaal toets volgens "Flyback" tyd "A" en "Flyback" "B" wat opgestel word die gebruikers.

(((• Terug na oorspronklike kanaal

Tydens die skanderingsproses, druk [PTT]-sleutel om te stuur of om skandering te stop, dan sal die radio terug keer na die vooropgestelde kanaal.

Hierdie radio kan op verskillende maniere terug keer na die vooropgestelde kanaal. Gebruikers kan die gewenste manier kies deur sagteware programmering.

NEEM KENNIS:

Gebruikers kan die basiese en gevorderde uitvoerings stel deur programmering met sagteware

(((• Instandhouding en Skoonmaak

Bedek die Jack gaatjie met sy klappie wanneer die radio glad nie gebruik word nie. Oor 'n lang tyd van gebruik kan die radio se sleutels, knoppies en behuising, vuil word. U kan dan 'n neutrale seep, en 'n klam lappie gebruik om dit skoon te maak. Let Wel: KLAM LAP

TEGNIIESE SPESIFIKASIES

Algemeen	
Frekwensie	UHF: 400-480MHZ VHF: 136-174MHZ
Kanaal Kapasiteit	128 kanale
Kanaal spasieering	25KHz (Wye Band) 12.5KHz (Noue Band)
Geslote fase- stap	5KHz, 6.25KHz
Uitvoerende spanning	7.4 DC $\pm 20\%$
Batterylewe	Meer as 12 Hours (1300mAh), by 5-5-90
Frekwensie stabiliteit	± 2.5 ppm
Uitvoerende temperatuur	-20 ~ +55°C
Groote	195×56×30mm(met battery pak, sonder die antenna)
Gewig	185 g (met battery pak, sonder antenna)

Ontvang Gedeelte		
	Wye band	Noue band
Sensitiwiteit(12dB SINAD)	$\leq 0.25\mu V$	$\leq 0.35\mu V$
Ooreenkomstige kanaal sensitiwiteit	≥ 65 dB	≥ 65 dB
Intermodulêr	≥ 62 dB	≥ 62 dB
Ongegonde Werping	≥ 80 dB	≥ 80 dB
Klank sensitiwiteit	6dB / per interval	6dB / per interval
"Hum" en geraas	≥ 52 dB	≥ 48 dB
Klank distorsie	$\leq 5\%$	
Klank uitset	500mW (at 10%)	

Uitstuur gedeelte		
	Wye band	Noue band
Krag uitset	5W/1W	
Modulasie	16KΦF3E	11KΦF3E
Ooreenstemmende kanaal	≥65dB	≥65dB
"Hum" & Geraas	≥48dB	≥40dB
Ongegronde Werping	≤-36dB	≤-36dB
Klank Sensitiwiteit	6dB / per interval	6dB / per interval
Klank Distorsie	≤5%	

◦ PROBLEEMOPLOSSINGSGIDS

Problem	Corrective Action
Geen krag.	A. Die batterypak mag uitgeput wees. Herlaai of vervang die battery. B. Battery pak kan dalk nie reg ingesit wees. Verwyder die battery pak en sit dit weer terug. C. Die krag skakelaar kan foutief wees; stuur na handelaar vir herstel. D. Battery se skakels kan foutief wees, stuur na naaste handelaar vir herstel.
Battery gaan dood kort na battery op die regte manier herlaai is.	Die batterypak se lewensduur is verby. Vervang die batterypak.
Handstel kan nie skandeer.	Die kanale is nie op die skandeer lysie (Laat u handelaar dit vir u instel)
Alle kanale maak 'n geraas nadat dit geprogrammeer is en die groen liggie flikker voortdurend.	Skakel die "squelch" aan wanneer die handstel geprogrammeer word. Laat u handelaar hierdie verstelling vir u doen.
Geen klank nadat mikrofoon gebruik is.	Oorfone mag foutief wees. (Kontak asseblief u naaste handelaar.)
Kommunikasie reikafstand is te kort en het 'n lae sensitiwiteit.	A. Maak seker dat die antenna in 'n goeie kondisie is, en dat die basis van die antenna stewig vas op radio is. B. Maak seker die ander radio is nie buite die aanbevole afstand en buite die radio se bereik nie. C. Maak seker dat die handstel op die hoë krag uitsetting is. (Kontak u naaste handelaar.)

Kan nie ander persone hoor of met hul praat via die handstel nie.	A. Verskillende frekwensie of kanaal, verander die kanaal. B. Verskillende CTCSS/DCS, herprogrammeer. C. Buite die Kommunikasie reikafstand.
Kan nie die radio aan of afskakel nie.	Maak seker dat die battery kontak maak .
Die ander party ontvang lae of gebroke boodskappe.	Maak seker die luidspreker is nie geblokkeer nie. Neem na u naaste handelaar vir reparasies.
Gebroke ontvangs met gepaardgaande geraas	Die kommunikasie afstand is te groot of daar is hoë geboue of heuwels wat kommunikasie siglyn beperk.
Luidspreker klank is baie sag of met 'n "ka ka" geluid nadat die radio vir 'n tyd gebruik is.	Maak seker of die luidspreker nie foutief is nie. As daar 'n poeierigheid op die luidspreker voorkom moet u die naaste handelaar kontak.
Kan ontvang maar nie uitstuur nie.	Maak seker dat die [PTT] nie foutief is nie. (Kontak die naaste handelaar.
Ontvang sonder enige klank, groen liggie flikker ook.	A. Die volume is laag, draai die skakelaar asseblief kloksgewys aan. B. Die luidspreker is foutief. (Kontak asseblief u naaste handelaar.) C. Oorfone is foutief. Kontak asseblief u naaste handelaar. D. Die volume se skakelaar is foutief. (Kontak asseblief u naaste handelaar.)
Kanale kan nie gestel word nie	Sleutels is gesluit. (Verwys na die prosedure oor hoe om die sleutels te ontsluit.)

◦ GRAFIEKE

(((CTCSS Frekwensie Grafiek

1	67.0	12	97.4	23	141.3	34	179.9	45	225.7
2	69.3	13	100.0	24	146.2	35	183.5	46	229.1
3	71.9	14	103.5	25	151.4	36	186.2	47	233.6
4	74.4	15	107.2	26	156.7	37	189.9	48	241.8
5	77.0	16	110.9	27	159.8	38	192.8	49	250.3
6	79.7	17	114.8	28	162.2	39	196.6	50	254.1
7	82.5	18	118.8	29	165.5	40	199.5		
8	85.4	19	123.0	30	167.9	41	203.5		
9	88.5	20	127.3	31	171.3	42	206.5		
10	91.5	21	131.8	32	173.8	43	210.7		
11	94.8	22	136.5	33	177.3	44	218.1		

DCS Grafiek

1	017	21	115	41	223	61	315	81	446	101	627
2	023	22	116	42	225	62	325	82	452	102	631
3	025	23	122	43	226	63	331	83	454	103	632
4	026	24	125	44	243	64	332	84	455	104	645
5	031	25	131	45	244	65	343	85	462	105	654
6	032	26	132	46	245	66	345	86	464	106	662
7	036	27	134	47	246	67	346	87	465	107	664
8	043	28	135	48	251	68	351	88	466	108	703
9	047	29	143	49	252	69	356	89	503	109	712
10	050	30	145	50	254	70	364	90	506	110	723
11	051	31	152	51	255	71	365	91	516	111	731
12	053	32	155	52	261	72	371	92	523	112	732
13	054	33	156	53	263	73	411	93	526	113	734
14	055	34	162	54	265	74	412	94	532	114	743
15	065	35	165	55	266	75	413	95	534	115	754
16	071	36	172	56	271	76	423	96	546	116	765
17	072	37	174	57	274	77	425	97	565		
18	073	38	205	58	305	78	431	98	606		
19	074	39	212	59	306	79	432	99	612		
20	114	40	217	60	311	80	445	100	624		

NEEM KENNIS:

N is 'n positiewe kode. **"I"** is 'n negatiewe kode. Daar is 232 DCS groepe in totaal. Die oorstrede merke is nie-standaard DCS kodes.

THANK YOU!

Thank you very much for choosing our **RTS** transceiver. **RTS** transceiver provides you with reliable, clear and efficient communication service. Our DV-3400 introduces **innovative DSP (Digital Signal Processing) baseband technique to achieve high-fidelity voice processing.**

DV-3400 a compact and fashionable transceiver that allows you to enjoy instant communication at ease. The features like novelty, nice timbre, high power (**>5W**), make DV-3400 a high cost-effective professional transceiver. It is of unique and innovative functions, such as, **voice prompt battery capacity, jacklight and optional high-fidelity earphones** fitted for using in Hotels, Amusement buildings, Shopping malls, Estate management and other trades.

SAFETY INFORMATION FOR USER

RTS transceiver is excellently designed with advanced technology. Please observe the following precautions to perform your obligation, prevent personal injury and ensure the safety of transceiver usage.

1. Keep the transceiver and accessories away from children.
2. Please do not try to open or modify the transceiver without permission, unauthorised persons may damage the product.
3. Please use RTS original battery and charger to avoid damage.
4. Please use RTS original antenna to ensure the communication distance.
5. Please do not expose the transceiver to long periods of direct sunlight, nor place it close to heat appliances.
6. Please do not put the transceiver in excessively dusty or humid areas.
7. Do not use harsh chemicals or cleaning solvents to clean the transceiver.
8. Do not transmit without antenna.
9. When using this transceiver, we recommend transmitting for 1 minute then receiving for 4 minutes. Continuous transmitting for long time or working in high power will heat the back of the transceiver. Do not place the transceiver's hot back close to any surface of plastic.
10. If any abnormal odor or smoke detected coming from the transceiver, turn off the power and take off the battery pack and its case. Then contact local RTS dealer.

**User Manual Applied to: DV-3400 UHF FM Transceiver
VHF FM Transceiver
Programming Software: RTS3400**

NOTE:

When programming the transceiver, read the factory initial data first, then rewrite the frequency and signaling etc., otherwise errors may occur because of different frequency band etc.

◦ CONTENTS

UNPACKING	01
Supplied Accessories	01
STANDARD ACCESSORIES/OPTIONAL ACCESSORIES	02
Standard Accessories	02
Optional Accessories	02
BATTERY INFORMATION	03
Charging the Battery Pack	03
Charger Applied	03
NOTES	03
How to Store the Battery	04
Emergency Charging	05
PREPARATION	06
Installing / Removing the Battery	06
Installing / Removing the Antenna	06
Installing / Removing the Belt Clip	07
Installing the Additional Speaker/ Microphone (Optional)	07
Installing/ Removing the Hand Strap (Optional)	07
GETTING ACQUAINTED	08
LCD Display Screen	08
Backlight Status and Voice Prompt	11
[PF1] & [PF2] Key Default	11
AUXILIARY FUNCTIONS	12
BASIC OPERATIONS	13
Switch on / off the Transceiver	13
Switch on/off the Jacklight	13
Volume Control	13
Current Channel Enquiry	13
Adjust Frequency	13
Fast Adjust Frequency	14
Channels Selection	14
Receiving	15
Transmitting	15
Emergency Alarm Function	16
Keypad Lockout	16
FUNCTIONS SETUP	17
Basic Functions Setup	17

CTCSS/DCS Encode/Decode	17
CTCSS/DCS Encode/Decode Setup	17
Mode Selection	18
FM Radio	18
Beep Voice Prompt	19
Squelch Level Setup	19
On/Off VOX	20
VOX Level Setup	20
Frequency Step Setup	20
ADVANCE OPERATIONS	22
Squelch off	22
Monitor	22
Hi/Low Power Switch	22
Scan	23
Frequency Reverse	23
Talk Around	23
Battery Capacity Enquiry	24
Temporary Deletion of the Interfering Channel	24
BACKGROUND OPERATIONS	25
Wide / Narrow Band Setup	25
Busy Channel Lockout	25
Accession to Scan List	25
Time-out Timer	25
Time-Out Timer Pre-Alarm	26
Battery Save Setup	26
Priority Scan Setup	26
Return to Appointed Channel	26
Programming Software Installing & Starting (THIS INSTRUCTION TAKES WINDOWS XP AS AN EXAMPLE)	28
Resume Factory Default	29
Maintaining and Cleaning	29
TECHNICAL SPECIFICATIONS	30
TROUBLE SHOOTING GUIDE	32
ATTACHED CHART	34
CTCSS Frequency Chart	34
DCS Chart	35

○ UNPACKING

Carefully unpack the transceiver. We recommend you identify the items listed in the table as bellows before discarding the packing material. If any items are missing or have been damaged during shipment, please contact local dealers immediately.

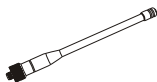
(((Supplied Accessories

Item	Number	Quantity
Antenna	QA07V/QA07U	1
Li-ion Battery Pack	QB-33L	1
Battery Charger	QBC-33L	1
AC adaptor	QPS-05	1
Belt Clip	BC06	1
12V Car charger	CPL-02	1
Instruction Manual		1

STANDARD ACCESSORIES /OPTIONAL ACCESSORIES

RTS

Standard Accessories



Antenna *
QA07V(136-174MHZ)
QA07U(400-480MHZ) etc.



Li-ion Battery
Pack)1300mAh
QB-33L



Charger
QBC-33L



AC Adaptor
(12V/500mA)
QPS-05



Belt Clip BC06



Car Charger CPL-02



Instruction Manual

Note:

For frequency band of antenna, please refer to label glued on the bottom of the antenna.

Optional Accessories



USB Programming
Cable PC03



Earphone HS03



Programming Software
QPS3400



Backup Li-ion Battery
Pack (2200mAh)
QB-34L



Hand Strap GS01

◦ **BATTERY INFORMATION**

Charging the Battery Pack

The battery pack is not charged at the factory; please charge it before use.

Charging the battery pack for the first time after purchase or extended storage (more than 2 months) may not bring the battery pack to its normal operating capacity. After fully charging/discharging cycle for two or three times, the operating capacity will reach its best performance. The battery pack life is over when its operating time decreases even though it is fully and correctly charged. Get a new battery pack.

Charger Applied

Please use the specific charger appointed by our company. Other models may cause explosion and personal injury. After installing the battery pack, if the radio displays low battery with red flashing lamp or voice prompt, please charge the battery.

NOTES

- Do not short the battery terminals or throw the battery into fire. Never attempt to remove the casing from the battery pack. We bear no responsibility on any results caused by modifying the battery freely without permission of our factory.
- The ambient temperature should be between 5°C and 40°C while charging is in progress. Charging outside this range may not fully charge the battery.
- Always switch OFF the transceiver equipped with a battery pack before charging. Otherwise, it will interfere with correct charging.
- To avoid interfering the charging, please do not cut off the power or take out the battery during charging.
- Do not recharge the battery pack if it is already fully charged. This may shorten the life of the battery pack or damage the battery pack.

- Do not charge the battery or transceiver if it is damp. Dry it before charging to avoid danger.

WARNING:

When keys, ornamental chain or other electric metal make contact with the battery terminal, the battery may cause damage or hurt bodies. If the battery terminal short circuit it will generate a lot of heat, please be careful when you carry or use the battery, please put battery or radio into insulated container. Do not put it into metal container.

(((How to Store the Battery

- 1.If the battery needs to be stored, keep it in status of 50% discharged.
- 2.It should be kept in low temperature and dry environment.
- 3.Keep it away from hot places and direct sunlight.

WARNING:

- **Do not short circuit battery terminals.**
- **Never attempt to remove the casing from the battery pack.**
- **Never assemble the battery in dangerous surroundings, spark may cause explosion.**
- **Do not put the battery in hot environment or throw it into fire, it may cause explosion.**

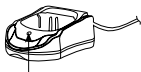
■To charge the battery directly or the transceiver via charger

You can charge the battery or transceiver separately.

- 1.Plug the AC adaptor into the AC outlet, and then plug the cable of the AC adaptor into the DC jack located on the back of the Charger.

Charging indicator---Green

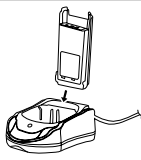
◦ BATTERY INFORMATION



Working Indicator
Charging Indicator



Transceiver Charge



Battery Charge

1.Plug the Li-ion battery or the transceiver installed with Li-ion battery into the matched charger.

A. Make sure that the battery is well connected with charging connectors.

Charging indicator---Red

2.Fully charged. Charging indicator--Green.

Note:

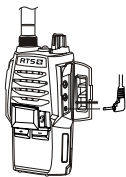
It takes approximately 4 hours to fully charge the battery. But, the actual charging time depends on the battery. After fully charged, please remember to remove the battery or transceiver out of charger. Over charging will shorten the battery life and reduce its performance.

(((**Emergency Charging**

Connect the transceiver directly with adaptor or car charger to charge.

Note:

Please power off the transceiver before charging the transceiver in this way. Also, it takes longer time (totally 12hours) to fully charge the transceiver in this way.



Installing / Removing the Battery

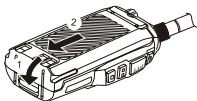
■ Installing the battery:

Match the battery pack with the corresponding guides on the back of the transceiver, and push it upwards until it is fully locked by the battery latch.



■ Removing the battery pack:

Slide up the battery latch and remove the pack away from the transceiver.



Installing / Removing the Antenna

■ Installing the Antenna:

Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

■ Removing the Antenna:

Turn the antenna anticlockwise to remove it.



◦ PREPARATION

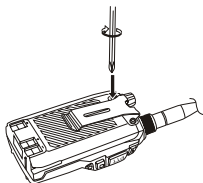
(((Installing / Removing the Belt Clip

■Installing the Belt Clip:

Place the belt clip to the corresponding grooves on the back of the transceiver, and then turn the screw clockwise.

■Removing the Belt Clip:

Anticlockwise turn the screws to remove the belt clip.



(((Installing the Additional Speaker/ Microphone (Optional)

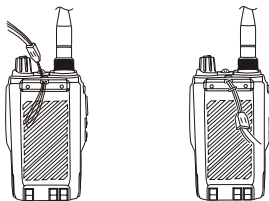
Unveil the MIC-SP jack cover and then insert the Speaker/Microphone plug into MIC-SP jack.

Note: The transceiver is not completely waterproof while using the Speaker/ Microphone.



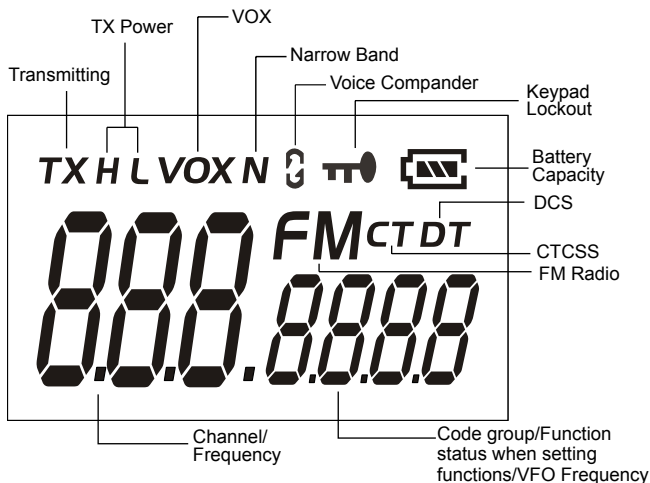
(((Installing/ Removing the Hand Strap (Optional)

Slide the loop of the hand strap through the eyelet on the upper rear of the transceiver; then pull the entire hand strap through the loop to secure the hands strap in place and lastly tighten the hands strap.



LCD Display Screen

On the screen, icons for the optional functions are displayed on the screen. It helps a lot when you forget the functions settings.

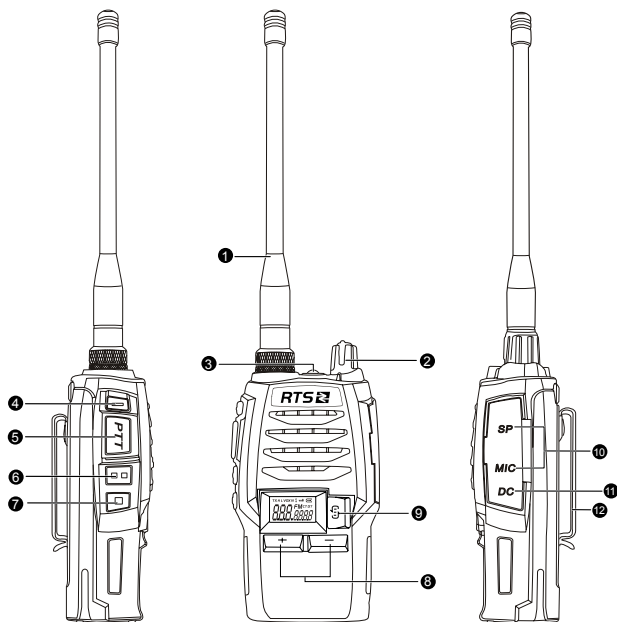


 Battery capacity indicator (Full)

 Battery flat ,please change battery or recharge

  Battery capacity left

◦ GETTING ACQUAINTED



1. Antenna

2. POWER / VOLUME Switch:

Turn clockwise to switch on the transceiver, and turn anticlockwise until hearing "Ka" to switch off the transceiver. After switching on the transceiver, turn clockwise to increase the volume and anticlockwise to decrease the volume.

3. Jacklight:

under standby state, press this key to Emergency Alarm Key to power on the jacklight. Repeat same operation to turn off the light.

4. Emergency Alarm Key

Under standby state, press this key for 1 second to enable alarm function. Repeat same operation to exit the alarm status.

5. PTT Key

When you are making a call, please press and hold this key to speak into the microphone. Release the key to receive.

6. PF1 Key

It is a programmable key that can realize different functions by programming.

7. PF2 Key

It is a programmable key that can realize different functions by programming.

Rotate the switch to select desired channel. Rotate it clockwise to increase channel, anticlockwise to decrease channel.

8. / Key

After entering the Functions Setup menu, by this key you can adjust channel or value of functions. Long press to adjust fast. When FM is on, you can press this key to search radio stations.

9. key

Press this key repeatedly to select desired function to setup. Press this key together with  /  key to set desired function value.

10. External MIC/Loudspeaker Jack/ Data jack

11. Emergency Charging Jack

12. Belt Clip

◦ GETTING ACQUAINTED

(((• **Backlight Status and Voice Prompt**

Warning on low voltage	Transceiver emits a low voltage beep at intervals of 60 seconds, and red light twinkles.
Receive	Backlight lightens all the time
Keypad operation	Transceiver emits "DU" when entering a function menu, "DU DU" to exit any function.

(((• **[PF1] & [PF2] Key Default**

Press [PF1]	Battery Capacity Enquiry
Press [PF2]	Squelch off
Press [PF1] and hold for one second	Call
Press [PF2] for one seconds	Hi/Low power switch

Users can setup the key [PF1] and PF2] to be one of the optional functions as follows:

- Squelch off
- Monitor
- Hi/Low Power switch
- Scan
- Frequency Reverse
- Talk around
- Current battery capacity enquiry
- Call
- Temporarily delete interrupting channel

For better information on this part, please refer to the "Advanced Operation" instruction.

◦ BASIC OPERATIONS

(((Switch on / off the Transceiver

Switch on the Transceiver: Under power-off state, turn **POWER / VOLUME** knob clockwise till hearing "Click" to switch on the transceiver. The transceiver will announce "Power on" and current channel.

Switch off the Transceiver: When the transceiver is in the open state, turn **POWER / VOLUME** anticlockwise until hearing "Click" to switch off the transceiver.

(((Switch on/off the Jacklight

Under standby state, press the Emergency Alarm Key to switch on the jacklight. Press the same key to switch off the light.

(((Volume Control

When the transceiver is in open state, turn **POWER / VOLUME** knob to adjust the volume. Turn clockwise to increase the volume, and anticlockwise to decrease the volume. You can press the programmed key of squelch off [PF1] / [PF2] to monitor current volume.

NOTE: You can firstly press the programmed key of squelch off [PF1] / [PF2] to monitor the background noise and meanwhile turn **POWER / VOLUME** to adjust the volume. Under the communicating state, you can adjust volume as per your need more accurately.

(((Current Channel Enquiry

Under Standby state, pressing  or , the transceiver will announce channel number.

(((Adjust Frequency

Under VFO(frequency mode), press  repeatedly until the decimal

dot on the LCD twinkles. Under this state, press  /  to set desired current frequency. Press  to increase the frequency value by step,  to decrease the frequency value.

Press [PF1] or [PF2] key to confirm the selected frequency and exit the frequency setting mode. After entering the setting mode, if users do not set the frequency or not exit the mode after adjusting the frequency, the transceiver will exit the setting mode automatically after 10seconds.



NOTE:

Under channel mode, this function would be hidden. VFO function is disabled as factory default. You can enable this function via programming software.

(((Fast Adjust Frequency

Under VFO(frequency mode), press  repeatedly untill the decimal dot on the LCD twinkles. Under this state, press  /  to set desired current frequency. Press  to increase the frequency value by 1MHZ,  to decrease the frequency value by 1MHZ. Press [PF1] or [PF2] key to confirm the selected frequency and exit the frequency setting mode. After entering the setting mode, if users do not set the frequency or not exit the mode after adjusting the frequency, the transceiver will exit the setting mode automatically after 10seconds.



NOTE:

Under channel mode, this function would be hidden. This function is disabled as factory default. You can enable this function via programming software.

(((Channel Selection

Under channel mode, to choose the desired channel, firstly, users

◦ BASIC OPERATIONS

need to press  repeatedly until the channel number displayed on the LCD twinkles, secondly, press  or  to up or down the channel number, and then the transceiver will announce the adjusted channel number. Press  to upward the channel number and  to downward the channel number. Press any key except ,  to confirm and exit. After entering the setting mode, if users do not set the frequency or not exit the mode after adjusting the channel number, the transceiver will exit the setting mode automatically after 10seconds.



NOTE: When adjusting channel, the transceiver will automatically skip blank channels which are not edited. Suppose you want to adjust the channel from NO.1 to NO.2, if channel NO.2 is blank, the transceiver will skip it and jump to channel NO.3.

(((Receiving

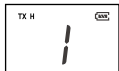
Once current channel is called, backlight lightens all the time, and then you can hear other party calling.

NOTE:

- You may not receive the calling if you set a high squelch off level of the transceiver.
- If current channel has been programmed with signaling, you can only hear the call from a same signaling, other calls can't be heard.

(((Transmitting

Be sure that the channel you want to use is not in busy state through monitoring for a while by pressing the programmed Squelch off [PF1] / [PF2] key. Under these conditions, press the [PTT] key and speak



into microphone. Please keep around 2.5-5cm distance between microphone and your mouth. And please speak in normal tone to make the receiver obtain best tone quality.

Note:

Pressing and holding [PTT], if the backlight lightens for 10seconds and goes out afterwards and TX icon displayed on the LCD, the transceiver is transmitting. Release the PTT to receive.

(((Emergency Alarm Function

Press this key for over 3 second to start the Emergency Alarm Function.

Once this function is started, the transceiver will voice alarm beep, start transmitting and send the alarm beep to companions or systems. Restart the power supply to exit the emergency alarm function.

NOTE:

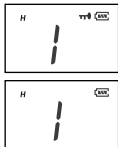
Factory default: Disabled.

You can enable this function via programming software.

(((Keypad Lockout

To prevent wrong operation, users can start Keypad Lockout function to lock  key and  key.

To start Keypad Lockout function, press and hold Emergency Alarm key turning on the transceiver, and then release the key when the transceiver emits "DU". Then, the LCD displays the icon . The keys , ,  will be invalid when this functions is started. Repeat the above operations to disable the keypad lockout function with "DU DU" prompt.



FUNCTIONS SETUP

Basic Functions Setup

1. Press  repeatedly to select desired sub-menu to setup.
2. Press  /  to set desired function value.
3. Press [PF1] or [PF2] to save and exit.

CTCSS/DCS Encode/Decode

When the transceiver is edited with this function, only when CTCSS/DCS signaling is received can the transceiver hear the calling of the other party. Transceivers that have matched CTCSS/DCS or do not setup with any signaling can hear your call.

1. Repeatedly press  until "UF" icon is displayed on the LCD.
2. Press  /  to select CTCSS/DCS encode/decode or disable this function.

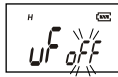
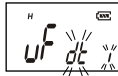
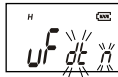
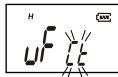
When selecting CTCSS encode/decode, "CT" on the LCD twinkles.

When selecting DCS positive encode/decode, "DTN" on the LCD twinkles.

When selecting DCS invert encode/decode, "DTI" on the LCD twinkles.

When switching off this function, "OFF" on the LCD twinkles.

3. Press [PF1] or [PF2] to save and exit.



NOTE:

To manually set this function, users need to activate this function via programming software firstly.

CTCSS/DCS Encode/Decode Setup

1. Repeatedly press  till CT/DT and CTCSS/DCS twinkles on the LCD.

FUNCTIONS SETUP

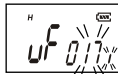
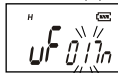
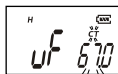
RTS 

1. Press  /  to select desired CTCSS/DCS decode.

CTCSS: 67-254.1H, totally 50 groups. Default: 67HZ.

DCS: 017N-765I, totally 232 groups. "N" on the LCD means positive code. "I" on the LCD means inverse code. Default: 017N

2. Press [PF1] or [PF2] to save and back to standby state.



NOTE:

The icon "N" or "I" will hide when CTCSS/DCS encode/decode function is closed.

Mode Selection

There are two modes for option, VFO (frequency mode) and Channel mode.

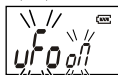
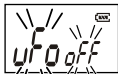
1. Under standby state, press  repeatedly till "UFO" on the LCD twinkles.

2. Press  /  to select desired mode.

OFF: Channel mode

ON: Frequency mode

3. Press [PF1]/[PF2] to exit.



NOTE:

To manually set the VFO ON/OFF, users need to enable this function via programming software firstly.

FM Radio

1. Press  repeatedly till "FM" on the LCD twinkles.

2. Press  /  to on/off the FM radio function.

ON: turn on FM radio



FUNCTIONS SETUP

OFF: turn off FM radio function (reset the transceiver when FM radio is on can also turn this function off)

3. Press [PF1] or [PF2] to exit.



NOTE:

When FM radio function is on, press / to search FM radio station and announce current channel number. When a certain radio station is detected, the radio will rest on the station. The radio can transmit or receive when FM radio is on.

Beep Voice Prompt

1. Press repeatedly until "BEP" on the LCD twinkles.

2. Press / to on/off the BEEP voice prompt function.

ON: turn on the BEEP voice prompt.

OFF: turn off the BEEP voice prompt.

3. Press [PF2] or [PF2] to exit.



Squelch Level Setup

This function is used to setup the receiving signal intensity. If the receiving signal intensity reaches a certain level, you can hear the other party calling, otherwise transceiver will remain mute.

1. Press repeatedly until "SQ" on the LCD twinkles.

2. Press / to select desired squelch level.

Totally 10 levels for option: OFF, 1-9 grade

3. Press [PF1] or [PF2] to exit.



NOTE:

To manually set this function, users need to enable this function via programming software firstly.

On/Off VOX

When this function is enabled, you can begin transmitting by fitted high voice, no needing to press the [PTT] key.

1. Press  repeatedly until "VOX" on the LCD twinkles.
2. Press  /  to on/off VOX function.
ON: turn on VOX function
OFF: turn off VOX function
3. Press [PF1] or [PF2] to exit.



NOTE:

To manually set this function, users need to enable this function via programming software firstly, otherwise this option will hide. Reset the transceiver, the VOX function will automatically be closed.

VOX Level Setup

This function is used to set the volume needed to transmit. The higher the level is the louder voice it needs to transmit.

1. Press  repeatedly until "VOX" and current VOX grade on the LCD twinkles.
2. Press  key or  to select desired VOX level.
9 levels for option: 1-9 grades
3. Press [PF1] or [PF2] to exit.



Note:

To set desired VOX level, users need to enable the VOX function by programming software in advance; otherwise, this option will hide.

Frequency Step Setup

This function is valid when the radio is in VFO mode and invalid in

○ FUNCTIONS SETUP

channel mode. Under VFO mode, users can upward or downward the frequency by frequency step.

1. Under standby state, Press  repeatedly till "STP" icon and current value of frequency step are displayed on the LCD.
2. Press  /  to select desired value. There are five options: 5k, 6.25k, 10k, 12.5k and 25k.
3. Press [PF1] or [PF2] to exit.



NOTE:

This function is invalid under channel mode.

[PF1] and [PF2] are programmable, which can realize certain functions as bellow via programming software.

NOTE:

To start the function programmed on the [PF1]-1s or [PF2]-1s, users need to press and hold [PF1] or [PF2] untill the transceiver voice "DU" and then release.

Repeat the above operation to turn off the programmed function.

Squelch off

Under the standby state, pressing the programmed key of Squelch off [PF1] / [PF2], the squelch circuit is not mute and at present you can hear the background noise. Press this key again, the squelch circuit becomes mute. By using this function you can monitor the weaker signal which is hard to receive. Meanwhile, LCD will display current signal intensity.

Monitor

Pressing the programmed key of Monitor [PF1] / [PF2], the transceiver emits "Du" beep and then comes into the monitor state. Under these conditions, transceiver will ignore CTCSS / DCS decode and monitor signal of the other party as long as receiving the matched carrier wave. Press this key again, transceiver emits "Du Du" beep and exits the monitor state.

Hi/Low Power Switch

Pressing the programmed key of Monitor [PF1] / [PF2], the transceiver emits "Du" beep and then announces current power state. If "HI" is selected, current channel transmits at high power. If "Low" is selected, current channel transmits at low power.



◦ ADVANCE OPERATIONS

"H" icon on the LCD means high power.

"L" icon on the LCD means low power 2.



(((Scan

Scan function can be used to monitor every channel.

Under the standby state, pressing the programmed "Scan" key, transceiver emits "Du" beep and comes into scan state. It scans channels in scan list one by one. When one channel receives a matched signal, the transceiver temporarily stays in this channel until the signal disappears. Then press Scan key again, transceiver emits "Du Du" beep, exits scan and switches the working channel to returned channel which is programmed by users in advance (Please refer to returned channel in the programming software.).

(((Frequency Reverse

Under the standby state, pressing the programmed key of Frequency Reverse, transceiver emits "Du" beep and then comes into Frequency Reverse state. After that, the current channel RX frequency will be switched to TX frequency, and the CTCSS or DCS signal which has been setup will be also switched. Pressing this key again, the transceiver exits frequency reverse function with "Du Du" beep.

(((Talk Around

Under the standby state, pressing the programmed key of Talk Around, transceiver emits "Du" beep and then the current channel comes into Talk Around state. Under these conditions, transceiver will transmit by receiving frequency. Also, the setting code (CTCSS/DCS) will interchange encoding signaling as decoding signaling. Pressing this key again, the transceiver exits talk around function with "DU DU" beep.

Note:

Under the talk around state, the transceiver can not communicate with other transceivers via repeaters.

(((• Battery Capacity Enquiry

Pressing the programmed "Battery Capacity Enquiry", the transceiver will announce current battery capacity. There are 10 grades in total. Grade 10th means full battery capacity.

When the battery state is grade 1th(6.1V), the LED lights red. The transceiver will voice prompt users to charge timely and also enter automatically the state of no transmission.

(((• Temporary Deletion of the Interfering Channel

This function can temporarily delete the interfering channel or occupied channel from scan list. When scan rests on one channel, pressing the programmed key of Temporary Deletion of the Interfering Channel, transceiver emits "Du" beep and temporarily deletes this channel from scan list. But the priority channels cannot be temporarily deleted. If only one or two channels are in scan list, this operation is not available. Restart the transceiver to add the temporarily deleted channels into scan list again.

◦ **BACKGROUND OPERATIONS**

Wide / Narrow Band Setup

On the basis of national conditions, users can set channel spacing as 25K (wide band) or 12.5K (narrow band) to communicate on the transceiver by programming software.

This transceiver can realize 25K (wide band), and 12.5K (narrow band) etc as communication way.

NOTE:

"N" on LCD indicates narrow band. Otherwise it is wide band.

Busy Channel Lockout

When BCL function is enabled, you can not transmit in busy channel. BCL prevents you from interfering with other parties who is using the same frequency point that you select. Under this condition, if you press the [PTT] to transmit, the transceiver will emit beep prompt and return to receiving mode.

Users can set Busy Channel Lockout mode by programming software.

- 1.Repeater: Repeat lockout, transmitting is inhibited when current channel receives a matched carrier with different CTCSS/DCS.
- 2.Carrier wave: Carrier busy lockout, transmitting is inhibited when current channel receives a matched carrier wave
- 3.Close: BCL disabled, you can do transmission under whatever receiving state.

Accession to Scan List

Via programming software, users can choose whether to add current channel into scan list. If current channel is not in the scan list, the transceiver will skip this channel when scanning.

Time-out Timer

The purpose of the Time-out Timer is to prevent any caller from

using a channel for an extended period of time. If you continuously transmit for a period of time that exceeds the programmed time set in advance, the transceiver will stop transmitting with voice prompt.

Users can set TOT timer by programming software.

Time-Out Timer Pre-Alarm

The Time-Out Timer Pre-Alarm is to alarm users that overtime transmission is pending.

Users can program desired TOT Pre-Alarm time by programming software.

Battery Save Setup

When this function is enabled, the transceiver can efficiently reduce battery consumption. The transceiver will automatically switch on Battery Save Function when not receiving any signal or making any operations. But when the transceiver receives a matched signal or make operations, it will automatically exit this function.

Priority Scan Setup

There are two priority-channel settings of this transceiver, "fixed" and "selected". Users can set the desired priority scan by programming software. If transceiver sets priority scan, under scanning and receiving no signal, it will scan every channel and also test priority channel at a time. When the non-priority channel receives a signal, it will test priority channel according to flyback time "A" and flyback time "B" setup by users.

Return to Appointed Channel

During scan process, press [PTT] key to transmit or stop scanning, then the transceiver will return to appointed channel.

◦ **BACKGROUND OPERATIONS**

This transceiver is setup with different ways to return to appointed channel. Users can choose the desired way by programming software.

NOTE:

Users can set the basic and advanced operations via programming software.

○ **Programming Software Installing & Starting**
(THIS INSTRUCTION TAKES WINDOWS XP AS AN EXAMPLE)



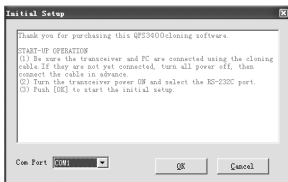
1. Double-click "RTS3400 SETUP.EXE", and then install the software as per computer instructions.

2. Click "START" menu, select and click "USB TO COMPORT" in the "RTS3400" program from "ALL PROGRAM" and then install the driver system of USB programming cable.

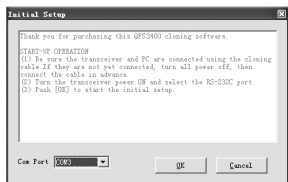
3. Connect the optional cable PC03 to the USB port in PC device and connect the transceiver with the other end of cable.

4. Double click "RTS3400" setup short-cut icon or click "START" menu to choose RTS3400 entry in the RTS3400 program from "ALL PROGRAMS" menu. (Refer to picture 1)

5. As per computer command, choose serial port "COM Port " firstly , then click OK to start programming software.



(picture 1)



(picture 2)

TIPS:

In one individual computer, users need to choose different COM Port number when USB cable is connected with different USB port.

To program frequency, power on the transceiver firstly. Do not power on/off the transceiver when it is connected with computer. Otherwise, the transceiver can not read or write frequency well.

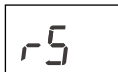
NOTE: The programming software of this transceiver has identifying system. Therefore, when you start programming software at the first time, you should connect the transceiver and then you can run the software, otherwise the software cannot be run.

The supplied software applies to Windows 7, Windows XP, etc.

(((• **Resume Factory Default**

Once transceiver works abnormally for wrong operations or wrong programming, users can start this function to resume all functions and channels as Factory Default.

Press [PTT] and [PF1] key synchronously to switch on transceiver. Holding the two keys for more than 1 second, the transceiver will resume Factory Default after announcing current channel number.



(((• **Maintaining and Cleaning**

Cover the jack with its rubber cover when the transceiver is not at use. After long-time use of the transceiver, keys, control buttons and housing would become dirty. Then, neutral detergent (no corrosive chemical agent) and wet cloth can be used to clean them.

General	
Frequency Range*	UHF: 400-480MHZ VHF: 136-174MHZ
Channel Capacity	128 channels
Channel Spacing	25KHz (Wide Band) 12.5KHz (Narrow Band)
Phase-locked Step	5KHz, 6.25KHz
Operating Voltage	7.4 DC $\pm 20\%$
Battery Life	More than 12 Hours (1300mAh), by 5-5-90 work cycle
Frequency Stability	± 2.5 ppm
Operating Temperature	-20~ +55℃
Size	195×56×30mm (with battery pack, no antenna)
Weight	185 g (with battery pack, no antenna)

Receiving Part		
	Wide band	Narrow band
Sensitivity(12dB SINAD)	$\leq 0.25\mu V$	$\leq 0.35\mu V$
Adjacent Channel Selectivity	≥ 65 dB	≥ 65 dB
Intermodulation	≥ 62 dB	≥ 62 dB
Spurious Rejection	≥ 80 dB	≥ 80 dB
Audio Response	6dB / per interval	66dB / per interval
Hum & Noise	≥ 52 dB	≥ 48 dB
Audio Distortion	$\leq 5\%$	
Audio Power Output	500mW (at 10%)	

◦ TECHNICAL SPECIFICATIONS

Transmitting Part		
	Wide band	Narrow band
Power Output	5W/1W	
Modulation	16KΦF3E	11KΦF3E
Adjacent Channel	≥65dB	≥65dB
Hum & Noise	≥48dB	≥40dB
Spurious Emission	≤-36dB	≤-36dB
Audio Response	6dB / per interval	6dB / per interval
Audio Distortion	≤5%	

Note:

RTS reserves the right to amend specifications as needed for better performance.

Problem	Corrective Action
No power.	A. The battery pack may be exhausting. Recharge or replace the battery pack. B. The battery pack may not be installed correctly. Remove the battery pack and install it again. C. The power switch is broken; send it to local dealers to repair. D. Battery contact is broken; send it to local dealers to repair.
Battery power dies shortly after correctly charging.	The battery pack life is exhausted. Replace the battery pack with a new one.
Transceiver cannot scan	The channels are not in scan list. (Please check scan list.)
All band noisy after programmed or green light always lightens	Turn on squelch when programmed. Non-professionals are advised not to adjust this function.
No sound after using radio for a while	Earphone jack is broken. (Please contact with local dealers to repair it.)
Communication distance becomes short, and it is low sensitivity	A. Check whether the antenna is in good condition and the antenna base did not come adrift. B. Whether it has set in low power output. (Please contact with local dealers to repair it.)
Cannot talk to or hear other members in your group	A. Different frequency or channel, please change it. B. Different CTCSS / DCS please reset it. C. Out of communication range.

◦ TROUBLE SHOOTING GUIDE

Can not switch on or frequently switch-off	Check whether the battery contact is out of order or broken.
The other party gets low or intermittent receiving audio	Check whether the MIC is blocked. (Otherwise, please contact with local dealers to repair it.)
Intermittent receiving with big noise.	Out of communication range or obstruct by tall buildings or in basement and so on.
Loudspeaker become lower or with "ka ka" sound after using a certain time	Check whether the loudspeaker net is broken. Iron powder or sundries is in the loudspeaker. (Please contact with local dealers to repair it.)
Receive audio from the other party but can not transmit	Check [PTT] key. (Please contact with local dealers to repair it.)
Receiving indicating LED (green light) lightens but no sound	A.Low volume, please turn on clockwise. B.Loudspeaker is broken. (Please contact with local dealers to repair it.) C.Earphone jack is broken. (Please contact with local dealers to repair it.) D.Volume switch is broken. (Please contact with local dealers to repair it.)
Can not adjust channels	Keypad locked. (Please refer to "keyboard locked" on page 16th to close the Keypad lockout function.)

(((• **CTCSS Frequency Chart**

1	67.0	12	97.4	23	141.3	34	179.9	45	225.7
2	69.3	13	100.0	24	146.2	35	183.5	46	229.1
3	71.9	14	103.5	25	151.4	36	186.2	47	233.6
4	74.4	15	107.2	26	156.7	37	189.9	48	241.8
5	77.0	16	110.9	27	159.8	38	192.8	49	250.3
6	79.7	17	114.8	28	162.2	39	196.6	50	254.1
7	82.5	18	118.8	29	165.5	40	199.5		
8	85.4	19	123.0	30	167.9	41	203.5		
9	88.5	20	127.3	31	171.3	42	206.5		
10	91.5	21	131.8	32	173.8	43	210.7		
11	94.8	22	136.5	33	177.3	44	218.1		

◦ ATTACHED CHART

(((DCS Chart

1	017	21	115	41	223	61	315	81	446	101	627
2	023	22	116	42	225	62	325	82	452	102	631
3	025	23	122	43	226	63	331	83	454	103	632
4	026	24	125	44	243	64	332	84	455	104	645
5	031	25	131	45	244	65	343	85	462	105	654
6	032	26	132	46	245	66	345	86	464	106	662
7	036	27	134	47	246	67	346	87	465	107	664
8	043	28	135	48	251	68	351	88	466	108	703
9	047	29	143	49	252	69	356	89	503	109	712
10	050	30	145	50	254	70	364	90	506	110	723
11	051	31	152	51	255	71	365	91	516	111	731
12	053	32	155	52	261	72	371	92	523	112	732
13	054	33	156	53	263	73	411	93	526	113	734
14	055	34	162	54	265	74	412	94	532	114	743
15	065	35	165	55	266	75	413	95	534	115	754
16	071	36	172	56	271	76	423	96	546	116	765
17	072	37	174	57	274	77	425	97	565		
18	073	38	205	58	305	78	431	98	606		
19	074	39	212	59	306	79	432	99	612		
20	114	40	217	60	311	80	445	100	624		

NOTE:

N is positive code. "I" is negative code. There are 232 groups of DCS in total. The overstriking marks are non-standard DCS.

RTS 