Command List

Command type	Communication Direction	Meaning
Transceive	ID1 -> PC	Transfers the command automatically according to the status, and the side that receives the command d not reply with an ACK
Read out	PC -> ID1	The command request that reads out the setting values inside the ID-1. The ID-1 resplies with the settirg values with ACK command.
ACK	ID1 -> PC	The ACK command that responds to the read-out command.
Mode	PC -> ID1	The command that sets the setting values in the inside the ID-1. The ID-1 replies with an OK ACK or a NG ACK to indicate whether it has accepted the setting values or not.
ОК АСК	ID1 -> PC	Responds with an OK ACK when the setting has been carried out correctly.
NG ACK	ID1 -> PC	Responds with an NG ACK when the setting has not been carried out correctly.

Оре	eration	Command Type	Command	Subcommand		Data	Data leng
Des sus fra sus s		Transceive	00	\geq	BCD (5byte	es) (See frequency data details)	1
Program frequency	P	Set	05	\geq	BCD (5byte	es) (See frequency data details)	1
	DM	Transceive	01	\geq	05	01	
	FM	Set	06	\geq	05	01	
Mada aatting	Digital vision	Transceive	01	\geq	D0	01	
Mode setting	Digital voice	Set	06	\geq	D0	01	
	Digital data	Transceive	01	\geq	D1	01	
	Digital data	Set	06	\geq	D1	01	
Efrequency Dood out		Read out	03	$>\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$			
Ffrequency Read out	ι –	ACK	03	\geq	BCD (5byte	es) (See frequency data details)	
		Read out	04	\geq			
lode Read out		ACK	04	$\overline{}$	xx	01	
		Type of Mode (See Mode setting for details))			
	Momory Ch	Transseive	09	00	0 ,BCD	BCD,BCD (00 - 99, 100, 101	Ch)
	Memory Ch	Transceive			PA=100	PB=101	
Memory Write	Call C1	Transceive	09	01	00	01	
	Call C2	Transceive	09	01	00	02	
	Call C3	Transceive	09	01	00	03	
Memory→VFO	•	Set	0A	$>\!$			
		Read out	0C	\leq			0
Offset frequency Rea	ad out	ACK/Transceive	0C	\checkmark	BCD (3byte	,	
				<	(See Offset frequency data details) BCD (3bytes)		
Program offset frequ	ency	Set	0D	\nearrow	(See Offset frequency data details)		3
Scan Read out		Read out	0E	$>\!$			0
		ACK/Transceive	0E	ww	xx	уу	2
				Scan Mode	Scan	Scan status	
				(See	direction	RUN=00	
				Scan setting details)	UP=00 DN=01	PAUSE=01	
Scan setting	Scan cancel	Set	0E	00			
ooun setting	Program Scan Start	Set	0E 0E	00			
		Get	UL	02	Scan		
					direction		
					UP=00		
					DN=01		
	Memory Scan Start	Set	0E	22	хх		
					Scan		
					direction		
					UP=00		
			_		DN=01		
n in the second s	Mode Select Scan Start	Set	0E	24	XX		





Operation	Command Type	Command	Subcommand		Data	Data Length
Scan seting PRIO Scan Start	Set	0E	42	xx		
				Scan		
				direction		
				UP=00 DN=01		
RP (DUP) Read out	Read out	0F	\sim	011-01		
			\sim			
	ACK/Transceive	0F	WW			
			RP type			
			(See RP			
			setting)			
RP (DUP) programming	Set	0F	ww			(
			Simp.=10	←Simplex		
			RP-=11	←RP-(DUP-)		
				←RP+(DUP+)		
			RPS=13			
TS Read out	Read out	10				
			\sim	•		(
	ACK/Transceive	10	ww To i			
			TS type (See Setting			
			(Gee Getting)			
TS programming	Set	10	ww			(
			5kHz=00			
			10kHz=01			
			12.5kHz=02			
			20kHz=03			
			25kHz=04			
			50kHz=05			
			100kHz=06			
			6.25kHz=07			
AF VOL Knob Read out	Read out	14	01			(
	ACK/Transceive	14	01	0 ,BCD	BCD,BCD (00 - 255 level)	2
AF VOL Knob setting	Set	14	01	0 ,BCD	BCD,BCD (00 - 255 level)	
	Read out	14	03			(
SQL Knob Rread out	ACK/Transceive	14	03	0 ,BCD	BCD,BCD (00 - 255 level)	
SQL Knob Setting	Set	14	03	-	BCD,BCD (00 - 255 level)	
	Read out	14	0A			
RF Power Read out	ACK/Transceive	14	0A 0A		BCD,BCD (00 - 255 level)	
RF Power setting	Set	14			BCD,BCD (00/255 level)	
The Fower Setting	Sel	14	0A		Hi Power =255	4
				1	_ow Power =0	
Noise SQL Open/Close Read out	Read out	15	01			(
	ACK/Transceive	15	01	xx		1
				close=00		
O meter Lavel Desit sut	Dend and			open=01		
S-meter Level Read out	Read out	15	02			(
	ACK/Transceive	14	02	· · ·	BCD,BCD (00 - 255 level)	2
					S-meter resolution	
AFC Read out	Read out	16	4A			(
	ACK/Transceive	16	4A	xx	уу	
				OFF=00	center=00	
				OFF=00 ON=01	up=01	
					dn=02	
AFC Setting	Set	16	4A			
				OFF=00		
	t © 2002-2003 lcc			ON=01 this docume		20

Operation	Command Type	Command	Subcommand	Data	Data Length
Power Switch Read out	Read out	18	\ge	During Power Switch read out, the number of preamble FE required is 15. When there is no ACK the command is repeated 15 times.	C
	ACK/Transceive	18	\geq	xx (See Power Switch Setting details)	1
Power Switch Setting	Set	18		xx OFF=00 ON=01 During Power Switch read out, the number of preamble FE required is 15. When there is no ACK the command is repeated 15 times.	1
ID read out	Read out	19		ID read out is used also for identifying control software version. Preamble FE must be repeated 15times when begin reading, will repeat 15times if no response received.	
	ACK/Transceive	19		25, 06, RR, RR, CC,CC, SS,SS,SS 25,06= fixed values (16h) RR, RR=Rev. information CC, CC=version 01=USA SS, SS, SS=firmware check sum information	9
Memory Channnel Information Read out	Read out	1A	. 00	xx yy, yy xx= M/C yy, yy= Ch. number (See Command 1A 00 for details)	3
	ACK	1A	. 00	xx yy, yy zz - xx= M/C yy, yy= Ch. number zz - = Memory Ch. Info Contents (See Command 1A 00 for details)	55
Memory Ch. Info. Setting Memory Clear	Set	1A	. 00		4
Memory write	Set	1A	. 00	· · ·	55
Memory Channel SKIP Read out	Read out ACK/Transceive	1 A 1 A		xx	0
Memory Channel SKIP Setting	Set	1 A	01	(See Memory Ch. SKIP Setting for details) xx OFF=00 ON=01	1

Read out 1A 02 ADX0Transceive 1A 02 xx yy IDNE Setting Set III 02 xx yy TONE Setting Set IIII 02 xx yy TONE Setting Set IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Operation	Command Type	Command	Subcommand		Data	Data Lengt
CONE Setting Set 1A C2 XX CBE PEEP (See TONE (See TONE PEEP=00 TONE=01 PEEP=02 PEEP=00 TONE=01 PEEP=02 AUTE Read out Read out 1A 03 00	Read out	Read out	1A	02			
ONE Setting Set IA O2 xx OFF=00 ONE Setting Read out 1A 03 00 V OFF=00 NUTE Read out Read out 1A 03 00 Y OFF=00 NUTE Read out Read out 1A 03 00 Y OFF=00 NUTE Setting Setting 1A 03 00 Y OFF=00 NUTE Setting Setting 1A 03 01 Y OFF=00 NUTE Setting Setting 1A 03 01 Y OFF=00 ACK/Transceive 1A 03 01 Y OFF=00 ON=01 Setting 1A 04 00 Y OFF=00 ON=01 OFF=00 ON=01 OFF=00 ON=01 OFF=00 ON=01 OFF=00 ON=01 OFF=00		ACK/Transceive	1A	02	ХХ	уу	
ONE Setting Set 1A 02 xx 0F=00 TONE=01 PBEEP=02 TONE=01 PBEEP=02 TONE=01 PBEEP=02 TONE=01 PBEEP=02 TONE=01 PBEEP=02 TONE=01 PBEEP=02 TONE=01 OF=00							
ONE Setting Set 1A 02 xx ONE Setting Set 1A 02 xx IUTE Read out Read out 1A 05 00 IUTE Read out Read out 1A 05 00 IUTE Setting Setting 1A 03 00 yy IUTE Setting Setting 1A 03 00 yy IUTE Setting Setting 1A 03 01 yy IUTE Setting Read out 1A 03 01 yy IONI Read out Read out 1A 03 01 yy IONI Read out Read out 1A 03 01 yy IONI Read out Read out 1A 04 00 y Iurrent Status Read out Read out 1A 04 00 y Iurrent Status Setting Setting 1A 04 01 0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.						PBEEP	
ONE Setting Set 1A 02 xx OFF=00 TONE=01 PBEEP=02 TSCI=03 OFF=00 TONE=01 PBEEP=02 TSCI=03 IUTE Read out Read out 1A 03 00 y ACK/Tansceive 1A 03 00 y IUTE Setting Setting 1A 03 00 y IUTE Setting Setting 1A 03 01 y IONI Read out Read out 1A 03 01 y IONI Read out Read out 1A 03 01 y IONI Read out Read out 1A 03 01 y IONI Read out Read out 1A 03 01 y IONI Read out Read out 1A 04 00 NOEF=00 IUTE Status Read out Read out 1A 04 00 y IUTE Status Read out Read out 1A 04 00 y IUTE Status Setting Setting <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
AUTE Read out Read out 1A 03 00 AUTE Read out Read out 1A 03 00 yy AUTE Setting 1A 03 01 y ACK/Transceive 1A 03 01 y ACK/Transceive 1A 03 01 y OFF=00 ONI 00 01 y ACK/Transceive 1A 03 01 y OFF=00 ONI 00 y 00 01 Durrent Status Read out 1A 04 00 y 00 Lurent Status Setting 1A 04 01 0.0CD.0 0.0CD.0 Lurent Status Setting 1A 04 01 0.0CD					details)	No RX=00	
IUTE Read out Read out 1A 03 00 yy NUTE Read out Read out 1A 03 00 yy IUTE Read out ACK/Transcolve 1A 03 00 yy IUTE Setting Satting 1A 03 00 yy IUTE Setting Read out 1A 03 01 yy IONI Read out Read out 1A 03 01 yy IONI Read out Read out 1A 03 01 yy IONI Read out Read out 1A 03 01 yy IONI Read out Read out 1A 04 00 0 0 Iurrent Status Read out Read out 1A 04 00 yy 0 0 0 yy 0 0 0 0 0 yy 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Setting	Sat	10	02			
International status Setting Read out International status Setting details) International status Setting details) NUTE Read out Read out 1A 03 00 yy NUTE Satting Setting 1A 03 00 yy NUTE Satting Setting 1A 03 00 yy NUTE Satting Read out 1A 03 01 yy ACK/Transceive 1A 03 01 yy oFF=00 ACK/Transceive 1A 03 01 yy oFF=00 ACK/Transceive 1A 04 00 OF=00 OFF=00 ON=01 ACK/Transceive 1A 04 00 yy ACK/Transceive 1A 04 00 yy VFG=00 Ack/Transceive 1A 04 01 0.8CD BCD.BCD (Gee Current Status Setting details) Ack/Transceive 1A 04 01 0.8CD BCD.BCD (Gee Current Status Setting details) Ack/Transceive 1A	Jetting	361		02			
AUTE Read out Read out 1A 03 00 AUTE Read out ACK/Transcelve 1A 03 00 yy AUTE Setting Setting 1A 03 00 yy AUTE Setting Setting 1A 03 00 yy ADNI Read out 1A 03 01 00 00 ADNI Read out 1A 03 01 yy 00 ADNI Read out 1A 03 01 yy 00 00 ADNI Read out 1A 03 01 yy 00							
NUTE Read out Read out 1A 03 00 ACK/Transceive 1A 03 00 yr AUTE Setting 1A 03 00 yr AUTE Setting Setting 1A 03 00 yr AUTE Setting Setting 1A 03 00 yr AUTE Setting Read out 1A 03 01 OFF=00 AUTE Setting Read out 1A 03 01 yr ACK/Transceive 1A 03 01 yr OFF=00 ACK/Transceive 1A 03 01 yr OFF=00 ORF=00 OH OFF=00 OH OH OFF=00 OH Current Status Read out Read out 1A 04 00 yr (See Current Status Setting details) Current Status Setting Setting 1A 04 01 O.BCD BCD.BCD (BAC/Transceive IA 04 01 0.BCD BCD.BCD (BC/D BCD.BCD							
Read out Read out 1A 03 00 ACK/Transceive 1A 03 00 yy WUTE Setting Setting 1A 03 00 yy MUTE Setting Setting 1A 03 00 yy MONI Read out Read out 1A 03 01 OFF=00 MONI Read out Read out 1A 03 01 yy ACK/Transceive 1A 03 01 yy OFF=00 ON=01 ON=01 ON=01 OH=01 OH=01 OH=01 ACK/Transceive 1A 04 00 OF=00 OH=01 Current Status Read out Read out 1A 04 00 yy OF=00 OH=01 Current Status Setting Setting 1A 04 00 yy OF=00 OH=01 CALL=02 CH=00 OH=01 CALL=02 CH=00 OH=01 CALL=02 CH=00 OH=01 CALL=02 CH=00 DH=0							
ACK/Transceive 1 00 yy ACK/Transceive 1A 03 00 yy MUTE Setting Setting 1A 03 00 yy MONI Read out Read out 1A 03 01 yy MONI Read out Read out 1A 03 01 yy MONI Read out Read out 1A 03 01 yy MONI Read out Read out 1A 03 01 yy OFF=00 ON=01 ON=01 ON=01 ON=01 Setting 1A 03 01 yy OFF=00 OW=01 Setting 1A 04 00 OFF=00 OW=01 Read out 1A 04 00 yy Current Status Read out Read out 1A 04 00 yy Current Status Setting Setting 1A 04 01 0.BCD.BCD.BCD Current Status Setting detalis Call channel Cal	Read out	Bood out	10	02			
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MUTE Setting Setting 1A 03 00 yy WUTE Setting Read out 1A 03 01 0FF=00 0He11 MONN Read out Read out 1A 03 01 yy 0FF=00 ACK/Transceive 1A 03 01 yy 0FF=00 0He11 Setting 1A 03 01 yy 0FF=00 0He11 Current Status Read out Read out 1A 04 00 yy 0FF=00 Current Status Setting Read out 1A 04 00 yy 0FF=00 Current Status Setting Setting 1A 04 00 yy 0FF=00 Current Status Setting Setting 1A 04 00 yy 0FF=00 Current Status Setting Setting 1A 04 00 yy 0FF=00 0Hemo=01 CALL=02 0Hemo=01 CALL=02 0Hemo=01 CALL=02 0Hemo=01 CALL=02 0Hemo=01 0Hem		ACK/ Transceive	IA	03	00		
MONI Read out Read out 1A 03 01 MONI Read out ACK/Transceive 1A 03 01 yy OFF=00 ON=01 ACK/Transceive 1A 03 01 yy OFF=00 ON=01 Setting 1A 03 01 yy OFF=00 ON=01 Durrent Status Read out Read out 1A 04 00 W OFF=00 ON=01 OFF=00 OFF=00 ON=01 OFF=00 OFF=00 ON=01 OFF=00 OFF=00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
MONI Read out Read out 1A 00 01 MONI Read out ACK/Transceive 1A 03 01 yy 0/F=00 0/H=01	Setting	Setting	1A	03	00		
Read out 1A 03 01 ACK/Transceive 1A 03 01 yy OFF=00 OFF=00 OFF=00 OFF=00 OW ACK/Transceive 1A 03 01 yy Current Status Read out Read out 1A 04 00 OFF=00 Current Status Setting Read out 1A 04 00 yy Current Status Setting Setting 1A 04 00 yy Current Status Setting Setting 1A 04 00 yy VPO=00 Memore1 CALL=02 VPO=00 Memore1 CALL=02 Wemory Channel Read out Read out 1A 04 01 0.BCD BCD,BCD (See Current Status Setting details) Wemory Channel Read out Read out 1A 04 01 0.BCD BCD,BCD (00 - 99, 100, 101Ch) PA=100 PB=101 Call channel read out Read out 1A 04 02 BCD,BCD (01 - 0.BCD BCD,BCD (02 - 0.0							
ACK/Transceive 1A 03 01 yy OFF=00 ON=01 Setting 1A 03 01 yy OFF=00 ON=01 OFF=00 ON=01 Current Status Read out Read out 1A 04 00 yy ACK/Transceive 1A 04 00 yy (See Current Status Setting details) Current Status Setting Setting 1A 04 00 yy Current Status Setting Setting 1A 04 00 yy Wemory Channel Read out Read out 1A 04 01 CALL=02 Wemory Channel Setting Setting 1A 04 01 0.BCD BCD.BCD (Bee Current Status Setting details) Setting 1A 04 01 0.BCD BCD.BCD (00 - 99, 100, 101Ch) PB=101 CACK/Transceive 1A 04 02 DCB.BCD Call channel read out Read out 1A 04 02 BCD.BCD (01 - 0.9C, 0) Call channel read out Read out 1A 04 02						ON=01	
Setting 1A 03 01 W Current Status Read out Read out 1A 04 00 Current Status Read out Read out 1A 04 00 Current Status Setting Setting 1A 04 00 y Current Status Setting Setting 1A 04 01 D.BCD BCD,BCD Current Status Setting Read out 1A 04 01 0.BCD BCD,BCD Current Status Setting Setting 1A 04 01 0.BCD BCD,BCD Current Status Setting Setting 1A 04 01 0.BCD BCD,BCD Current Status Setting Setting 1A 04 02 BCD,BCD Current Status Setting Setting 1A 0	Read out						
$ \frac{ }{ } \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$		ACK/Transceive	1A	03	01		
Setting 1A 03 01 yy OFF=00 ON=01 Current Status Read out Read out 1A 04 00 yy (See Current Status Setting details) Current Status Setting Setting 1A 04 00 yy (See Current Status Setting details) Current Status Setting Setting 1A 04 00 yy (See Current Status Setting details) Current Status Setting Setting 1A 04 00 yy (See Current Status Setting details) Viemory Channel Read out Read out 1A 04 01							
Current Status Read out Read out 1A 04 00 ACK/Transceive 1A 04 00 yy Current Status Setting Setting 1A 04 00 yy VFO-00 Memo=01 CALL=02 CALL=02 Wemory Channel Read out Read out 1A 04 01 0.BCD BCD,BCD (See Current Status Setting details) Setting 1A 04 01 0.BCD BCD,BCD (Gee Current Status Setting details) Setting 1A 04 01 0.BCD BCD,BCD (Gee Current Status Setting details) Setting 1A 04 01 0.BCD BCD,BCD (Gee Current Status Setting details) Current Status Setting details) Setting 1A 04 01 0.BCD BCD,BCD (Gee Current Status Setting details) Current Status Setting details) Setting 1A 04 02 BCD,BCD Call channel read out IA 04 02 BCD,BCD, (Gee CALL Ch. S		Setting	14	03	01		
Current Status Read outRead out1A0400Current Status Read outACK/Transceive1A0400yCurrent Status SettingSetting1A0400yyCurrent Status SettingSetting1A0400yyCurrent Status SettingSetting1A0400yyCurrent Status SettingSetting1A0401CALL=02Memory Channel Read outRead out1A04010.BCD BCD,BCDACK/Transceive1A04010.BCD BCD,BCD(See Current Status Setting details)(See Current Status Setting details)Memory Channel SettingSetting1A0401Call channel read outRead out1A0402Call channel read outRead out1A0402CALL Channel SettingSetting1A0402CALL Channel SettingSetting1A0403/FO/Memo Status Read outRead out1A0403/FO/Memo Status SettingSetting1A0403/FO/Memo Status SettingSetting1A0403/FO/Memo Status SettingSetting1A0403/FO/Memo Status Setting details)Setting1A0403/FO/Memo Status Setting details)Setting1A0403/FO/Memo Status Setting details)Setting1A0403 <tr<tr>/FO/Memo Status Setting</tr<tr>		Oetting		00	01		
ACK/Transceive 1A 04 00 yy Current Status Setting Setting 1A 04 00 yy Current Status Setting Setting 1A 04 00 yy VEO=00 Memore1 CALL=02 Memore1 CALL=02 Vemory Channel Read out Read out 1A 04 01 0.BCD_BCD_BCD Vemory Channel Setting Setting 1A 04 01 0.BCD_BCD_BCD Vemory Channel read out Read out 1A 04 02 BCD_BCD Call channel read out Read out 1A 04 02 BCD_BCD CALL Channel Setting Setting 1A 04 02 BCD_BCD VFO/Memo Status Read out							
Current Status Setting Setting 1A 04 00 yy Current Status Setting Setting 1A 04 00 yy VEROPUC Read out 1A 04 00 yy VEROPUC Read out 1A 04 01 CALL=02 Wemory Channel Read out Read out 1A 04 01 0.BCD BCD.BCD (See Current Status Setting details) Setting 1A 04 01 0.BCD BCD.BCD (Wemory Channel Setting Setting 1A 04 01 0.BCD BCD.BCD (00 - 99, 100, 101Ch) PA=100 PB=101 PB=101 PA=100 PB=101 PB=101 PA=100 PB=101 Call channel read out Read out 1A 04 02 BCD.BCD (See CALL Ch. Setting details) CALL Channel Setting Setting 1A 04 02 BCD.BCD (01 - 03Ch.) (See VFO/Memo Status Setting details) (See VFO/Memo Status Setting details)	nt Status Read out	Read out	1A	04	00		
Current Status Setting Setting 1A 04 00 yy VFO=00 Memo=01 CALL=02 Wemory Channel Read out Read out 1A 04 01 ACK/Transceive 1A 04 01 0.BCD_BCD_BCD_BCD Vemory Channel Setting Setting 1A 04 01 0.BCD_BCD_BCD_D Vemory Channel Setting Setting 1A 04 01 0.BCD_BCD_BCD Vemory Channel Setting Setting 1A 04 01 0.BCD_BCD_BCD Coll channel read out Read out 1A 04 02 BCD_BCD Call channel read out Read out 1A 04 02 BCD_BCD CALL Channel Setting Setting 1A 04 02 BCD_BCD CALL Channel Setting Setting 1A 04 02 BCD_BCD VFO/Memo Status Read out Read out 1A 04 03 yy VFO/Memo Status Setting Setting 1A 04 03 yy VFO=00 Memo=01 Memo=01 Memo=01		ACK/Transceive	1A	04	00	уу	
Verticination Read out 1A 04 01 Verticination Read out 1A 04 01 Verticination ACK/Transceive 1A 04 01 0,BCD_BCD_BCD_(See_Current Status Setting details) Verticination Setting 1A 04 01 0,BCD_BCD_BCD_(00 - 99, 100, 101Ch) Verticination Read out 1A 04 02 Call channel read out Read out 1A 04 02 Call channel setting Setting 1A 04 02 VFO/Memo Status Read out Read out 1A 04 03 VFO/Memo Status Setting Setting 1A 04 03 VFO/Memo Status Setting Setting 1A 04 03 yy VFO=00 Nemo=01 Nemo=01 Nemo=01 Nemo=01					(See	Current Status Setting details)	
Memory Channel Read out Read out 1A 04 01 ACK/Transceive 1A 04 01 0.BCD BCD.BCD Memory Channel Setting Setting 1A 04 01 0.BCD BCD.BCD Memory Channel Setting Setting 1A 04 01 0.BCD BCD.BCD Memory Channel Setting Setting 1A 04 01 0.BCD BCD.BCD Memory Channel Setting Setting 1A 04 01 0.BCD BCD.BCD Call channel read out Read out 1A 04 02 Call channel setting Setting 1A 04 02 /FO/Memo Status Read out Read out 1A 04 03 yy /FO/Memo Status Setting Setting 1A 04 03 yy /FO/Memo Status Setting Setting 1A 04 03 yy /FO/Memo Status Setting Setting 1A 04 03 yy	Current Status Setting	Setting	1A	04	00	уу	
Memory Channel Read out Read out 1A 04 01 ACK/Transceive 1A 04 01 0.8CD BCD.8CD (See Current Status Setting details) Memory Channel Setting Setting 1A 04 01 0.8CD BCD.8CD (See Current Status Setting details) Memory Channel Setting Setting 1A 04 01 0.8CD BCD.8CD (00 - 99, 100, 101Ch) (00 - 99, 100, 101Ch) Call channel read out Read out 1A 04 02 Call channel read out Read out 1A 04 02 CALL Channel Setting Setting 1A 04 02 CALL Channel Setting Setting 1A 04 02 BCD.8CD (01 - 03Ch.) /FO/Memo Status Read out Read out 1A 04 03 yy (See VFO/Memo Status Setting details) /FO/Memo Status Setting Setting 1A 04 03 yy VFO=00 (See Coll Coll Coll Coll Coll Coll Coll Co						VFO=00	
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ACK/Transceive 1A 04 01 0.BCD BCD,BCD Memory Channel Setting Setting 1A 04 01 0.BCD BCD,BCD Memory Channel Setting Setting 1A 04 01 0.BCD BCD,BCD (00 - 99, 100, 101Ch) PA=100 PB=101 PA=100 PB=101 Call channel read out Read out 1A 04 02 BCD,BCD Call Channel Setting Read out 1A 04 02 BCD,BCD CALL Channel Setting Setting 1A 04 02 BCD,BCD (CALL Channel Setting Setting 1A 04 02 BCD,BCD (VFO/Memo Status Read out Read out 1A 04 03 yy VFO/Memo Status Setting Setting 1A 04 03 yy VFO/Memo Status Setting Setting 1A 04 03 yy VFO/Memo Status Setting Setting 1A 04 03 yy VFO=00 Memo=01 Memo=01 Memo=01 Memo=01 Memo=01						CALL=02	
Memory Channel Setting Setting 1A 04 01 0.BCD BCD,BCD Wemory Channel Setting Setting 1A 04 01 0.BCD BCD,BCD (00 - 99, 100, 101Ch) PA=100 PB=101 Call channel read out Read out 1A 04 02 BCD,BCD (See CALL Ch. Setting details) CALL Channel Setting Setting 1A 04 02 BCD,BCD (01 - 03Ch.) /FO/Memo Status Read out Read out 1A 04 03 yy (See VFO/Memo Status Setting details) /FO/Memo Status Setting Setting 1A 04 03 yy VFO=00 //FO/Memo Status Setting Setting 1A 04 03 yy VFO=00 //FO/Memo Status Setting Setting 1A 04 03 yy VFO=00 //FO/Memo Status Setting Setting 1A 04 03 yy VFO=00 //FO/Memo Status Setting IA IA 04 03 yy VFO=00 //FO/Memo Status Setting IA IA IA IA <t< td=""><td>ory Channel Read out</td><td>Read out</td><td>1A</td><td>04</td><td>01</td><td></td><td></td></t<>	ory Channel Read out	Read out	1A	04	01		
Memory Channel SettingSetting1A04010.BCDBCD,BCD (00 - 99, 100, 101Ch) PA=100Call channel read outRead out1A0402Call channel read outRead out1A0402ACK/Transceive1A0402BCD,BCD (See CALL Ch. Setting details)CALL Channel SettingSetting1A0402/FO/Memo Status Read outRead out1A0403/FO/Memo Status SettingSetting1A0403/FO/Memo Status SettingSettingSet		ACK/Transceive	1A	04	01	0 ,BCD BCD,BCD	
Call channel read out Read out 1A 04 02 Call channel read out Read out 1A 04 02 ACK/Transceive 1A 04 02 BCD,BCD (See CALL Ch. Setting details) CALL Channel Setting Setting 1A 04 02 /FO/Memo Status Read out Read out 1A 04 03 /FO/Memo Status Setting Setting 1A 04 03					(See	Current Status Setting details)	
Call channel read out Read out 1A 04 02 Call channel read out Read out 1A 04 02 BCD,BCD ACK/Transceive 1A 04 02 BCD,BCD CALL Channel Setting Setting 1A 04 02 BCD,BCD CALL Channel Setting Setting 1A 04 02 BCD,BCD /FO/Memo Status Read out Read out 1A 04 03 yy /FO/Memo Status Setting Setting 1A 04 03 yy /FO/Memo Status Setting Integee	ory Channel Setting	Setting	1A	04	01	0,BCD BCD,BCD	
Call channel read outRead out1A0402ACK/Transceive1A0402BCD,BCD (See CALL Ch. Setting details)CALL Channel SettingSetting1A0402BCD,BCD (01 - 03Ch.)/FO/Memo Status Read outRead out1A0403/FO/Memo Status SettingSetting1A0403/FO/Memo Status SettingSettingSettingSetting/FO/Memo Status SettingSettingSettingSetting/FO/Memo Status SettingSettingSettingSeting<						(00 - 99, 100, 101Ch)	
ACK/Transceive 1A 04 02 BCD,BCD (See CALL Ch. Setting details) CALL Channel Setting Setting 1A 04 02 BCD,BCD (01 - 03Ch.) /FO/Memo Status Read out Read out 1A 04 03 /FO/Memo Status Setting Setting 1A 04 03 /FO/Memo Status Setting Setting 1A 04 03 /FO/Memo Status Setting Setting 1A 04 03 yy (See VFO/Memo Status Setting details) /FO/Memo Status Setting Setting 1A 04 03 yy VFO=00 /FO/Memo Status Setting Setting 1A 04 03 yy /FO/Memo Status Setting Setting 1A 04 03 yy /FO/Memo Status Setting Setting 1A 04 03 yy						PA=100 PB=101	
CALL Channel Setting Setting 1A 04 02 BCD,BCD (01 - 03Ch.) /FO/Memo Status Read out Read out 1A 04 03 yy (See VFO/Memo Status Setting details) /FO/Memo Status Setting Setting 1A 04 03 yy (See VFO/Memo Status Setting details)	channel read out	Read out	1A	04	02		
CALL Channel Setting Setting 1A 04 02 BCD,BCD (01 - 03Ch.) /FO/Memo Status Read out Read out 1A 04 03 /FO/Memo Status Setting ACK/Transceive 1A 04 03 yy (See VFO/Memo Status Setting details) /FO/Memo Status Setting Setting 1A 04 03 yy (See VFO/Memo Status Setting details) /FO/Memo Status Setting Setting 1A 04 03 yy (See VFO/Memo Status Setting details)		ACK/Transceive	1A	04	02	BCD,BCD	
/FO/Memo Status Read out Read out 1A 04 03 /FO/Memo Status Read out ACK/Transceive 1A 04 03 yy /FO/Memo Status Setting Setting 1A 04 03 yy					(Se	e CALL Ch. Setting details)	
/FO/Memo Status Read out Read out 1A 04 03 /FO/Memo Status Read out ACK/Transceive 1A 04 03 yy /FO/Memo Status Setting Setting 1A 04 03 yy	Channel Setting	Setting	1A	04	02	BCD,BCD	
Read out 1A 04 03 ACK/Transceive 1A 04 03 yy (See VFO/Memo Status Setting Setting 1A 04 03 yy /FO/Memo Status Setting Setting IA 04 03 yy /FO/Memo Status Setting Setting IA 04 03 yy /FO/Setting Setting IA IA 04 03 yy /FO/Setting IA IA IA IA IA </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
ACK/Transceive 1A 04 03 yy (See VFO/Memo Status Setting details) VFO/Memo Status Setting details) VFO=00 VFO/Memo Status Setting IA 04 03 yy VFO/Memo Status Setting IA 04 03 yy VFO=00 Memo=01	Vemo Status Read out	Read out	1A	04	03		
/FO/Memo Status Setting Setting Setting 1A 04 03 yy VFO/Memo Status Setting Oten 1A 04 03 yy VFO=00 Memo=01						уу	
/FO/Memo Status Setting Setting 1A 1A 04 03 yy VFO=00 Memo=01							
VFO=00 Memo=01	Vemo Status Setting	Setting	1A	04			
Memo=01	-	, , , , , , , , , , , , , , , , , , ,					
	IH Read out	Read out	1A	05	00		
ACK/Transceive 1A 05 00 yy					1	vv	
(See TX INH Setting details)			173	00			
TX INH Setting Setting 1A 05 00 yy	JH Setting	Satting	1 ^	05			

_			
		TX Enable=01	

Operation	Command Type	Command	Subcommand	Data	Data Length
BEEP Read out	Read out	1A	05	02	1
	ACK/Transceive	1A	05	02 уу	2
				(See BEEP Setting details)	
BEEP Setting	Setting	1A	05	02 уу	2
				OFF=00	
				ON=01	
Cooling FAN Read out	Read out	1A	05		1
	ACK/Transceive	1A	05	,,	2
				(See Cooling FAN Setting details)	
Cooling FAN setting	Setting	1A	05	03 уу	2
				AUTO=00 ON=01	
Auto Repeater Read out	Read out	1A	05		1
	ACK/Transceive	14	05		2
	ACIVITALISCEIVE	IA	05	04 yy (See Auto Repeater Setting details)	2
Auto Donastor Sotting	Catting	1.0	05		2
Auto Repeater Setting	Setting	1A	05	04 yy OFF=00	2
				OFF=00 ON2=01 ←for USA	
				ON1=02	
				OFF=00 ←for JPN	
				UN=01	
Dimmer Read out	Read out	1A	05		1
	ACK/Transceive	1A	05		2
				(See Dimmer Setting details)	
Dimmer Setting	Setting	1A	05	,,	2
				Bright=00	
				Dark=01 OFF=02	
Scan Resume Timer Read out	Read out	1A	05		1
	ACK/Transceive	1A	05		2
				(See scan Resume Timer Setting details)	-
Scan Resume Timer Setting	Setting	1A	05		2
Court resource rande Courty	Octang	173	00	P-2=00	-
				T-5=01	
				T-10=02	
				T-15=03	
Standby Beep read out	Read out	1A	05		1
	ACK/Transceive	1A	05		2
				(See Standby Beep Setting details)	
Standby Beep Setting	Setting	1A	05		2
				OFF=00 ON=01	
Memory Name Read out	Read out	1A	06		0
memory nume redu out	ACK/Transceive	14	00		1
			00	(See Memory Setting details)	
Mamony Namo Satting	Cottine.				
Memory Name Setting	Setting	1A	06		1
				OFF=00 ON=01	
All Status Read Read out	Read out	1A	09		0
	ACK			The ID-1 outputs all command ACK values	
All Memory Clear ACK	ACK/Transceive	1A	0A		3
			54	When the memory clear is made from the RC-24.	
				the ID-1 transmits the ACK command.	
All Memory Clear Setting	Setting	1A	0A	41, 4C, 4C	3

Operation	Command Type	Command	Subcommand	Data	Data Length
Lock Read out	Read out	1A	10		0
	ACK/Transceiver	1A	10	xx	1
				(See Lock Setting details)	
Lock Setting	Setting	1A	10	xx	1
				OFF=00	
Densetes Tess Frequency Dead aut	Dead and	40		ON=01	
Repeater Tone Frequency Read out	Read out	1B	00	BCD (2bytes)	0
	ACK/Transceiver	1B	00	(See tone frequency data details)	2
Repeater Tone Frequency Setting	Setting	1B	00	BCD (2bytes)	2
				(See tone frequency data details)	
CTCSS Tone Frequency Read out	Read out	1B	01	BCD (2bytes)	0
	ACK/Transceiver	1B	01	(See tone frequency data details)	2
CTCSS Tone Frequency Setting	Setting	1B	01	BCD (2bytes)	2
				(See tone frequency data details)	
TX(PTT) Read out	Read out	10	00		0
	ACK/Transceiver	1C	00		1
				RX=00 TX=02	
				TX NG=01	
D-Star Header FLAG (RX) Read out	Read out	1D	00	00	1
	ACK/Transceiver	1D	00	00 yy zz	3
				Top Flag Bottom Flag	
				(See Command 1D 00 for details)	
DSQL Read out	Read out	1D	01		0
	ACK/Transceiver	1D	01	хх уу	2
				(See DSQL C/DBEEP	
				Setting) Call RX=01	
	Catting	1D	01	No RX=00	
DSQL Setting	Setting	10	01	XX OFF=00	1
				ON=01	
				PBEEP=03	
My Callsign Memory Ch Read out	Read out	1D	02		0
	ACK/Transceiver	1D	02	xx	2
				(See My Callsign Setting details)	
My Callsign Memory Ch. Setting	Setting	1D	02	xx	1
				(00 - 05) Indicates My Callsign Memory Ch. no.	
				Cost and the second sec	

Operation	Command Type	Command	Subcommand	Data	Data Length
My Callsign Read out	Read out	1D	03		0
	ACK/Transceive	1D	03	ASCII (10bytes)	10
				8 characters are valid (Last 2 chara are ingnored)	
My Callsign Setting	Setting	1D	03	ASCII (10bytes)	10
				8 characters are valid (Last 2 chara are spaces)	
RX Callsign Read out	Read out	1D	04		0
	ACK/Transceive	1D	04	ASCII (32bytes)	36
				RPT2(8) + RPT1(8) + Called(8) + Caller(8)	
				() indicate no. of bytes	
				ID-1 extracts the Callsign received	
TX Callsign Read out	Read out	1D	05		0
	ACK/Transceive	1D	05	ASCII (24bytes)	26
				(See TX Callsign Setting)	
TX Callsign Setting	Setting	1D	05	ASCII (24bytes)	26
				RPT2(8) + RPT1(8) + YOUR(8) + SPACE (2)	
				() indicate no. of bytes	
				ID-1 sets the Callsign transmitted	
TX Callsign All History Read out	Read out	1D	06		0
	ACK	1D	06	00 + ASCII (160bytes)	161
				The ID-1 retrieves all TX Callsigns set in the memory.	
TX Callsign History Transceive	Transceive	1D	07	ASCII (8bytes)	8
				The ID-1 transceives the Callsign as as soon as th Callsign is set.	e
My Callsign All Read out	Read out	1D	08		0
	ACK	1D	08	00 + ASCII (50bytes, My Callsign *5)	51
				All 5 My Callsign Memory Channels are retrieved.	
BREAK Read out	Read out	1D	10		0
	ACK/Transceive	1D	10	хх	1
				(See BREAK Setting)	
BREAK Setting	Setting	1D	10		1
				OFF=00 ON=01	
Auto Reply Read out	Read out	1D	11		0
···· ···	ACK/Transceive	1D	11	XX	1
				(See Auto Reply Setting)	
Auto Reply Setting	Setting	1D	11	xx	1
	5			OFF=00	
				ON=01	
Auto Display of Rx Callsign Read out	Read out	1D	13		0
	ACK/Transceive	1D	13	хх	1
				(See Auto Display of Rx Callsign Setting)	
Auto Display of Rx Callsign Setting	Setting	1D	13	хх	1
				OFF=00 ON=01	
Auto Display of Own Callsign Read out	Read out	1D	14		n
.,	ACK/Transceive	1D 1D	14		1
			14	(See Auto Display of Own Callsign Setting)	'
Auto Display of Own Callsign Setting	Setting	1D	14		1
rate biopidy of own balloigh betting	Getting		14	OFF=00	'
				ON=01	

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Operation	Command Type	Command	Subcommand	Data	Data Length
Auto Memorize of Rx Callsign Read out	Read out	1D	15		0
	ACK/Transceive	1D	15	xx	1
				(See Auto Memorize of Rx Callsign Setting)	
Auto Memorize of Rx Callsign Setting	Setting	1D	15	xx	1
				OFF=00 ON=01	
Digital Monitor read out	Read out	1D	16		0
	ACK/Transceive	1D	16	XX	1
				(refer to the digital code setting)	
Digital Monitor setting	Setting	1D	16	XX	1
				DIGITAL=00 ANALOG=01	
Digital Code read out	Read out	1D	17		0
	ACK/Transceive	1D	17	XX	1
				(refer to the digital code setting)	
Digital code set	Setting	1D	17	XX	1
				00 - 99 (BCD)	
EMERGENCY Read out	Read out	1D	EC		0
	ACK/Transceive	1D	EC	хх	1
				(See EMERGENCY Setting)	
EMERGENCY Setting	Setting	1D	EC	хх	1
				OFF=00	
OK Ack	OKAak			ON=01 (When setting is correct, OK Ack is returned)	
NG Ack	OKAck	FB			0
ING ACK	NG Ack	FA	\sim	(When setting is not correct, NG Ack is returned)	0

Preamble	Preamble	RX Address	TX Address	Command									Postamble
					1 0	1	1 100	100	1 0	10	1	1 100	
FΕ	FΕ	ХХ	ХХ	ХХ			k	k	k	Μ	М	G M	F D
				~				Frequer	псу			→	

Unit: Hz

Lined up from the bottom frequency in 1 byte units

Offeset Frequency Composition Details:

Preamble	Preamble	RX Address	TX Address	Command				Postamble
					1 100	100 10	10 1	
FΕ	FΕ	ХХ	X X	ХХ	k	k k	M M	F D
			←−−− Frequency			Frequency	\rightarrow	
					-	Unit: Hz		•

Lined up from the bottom frequency in 1 byte units

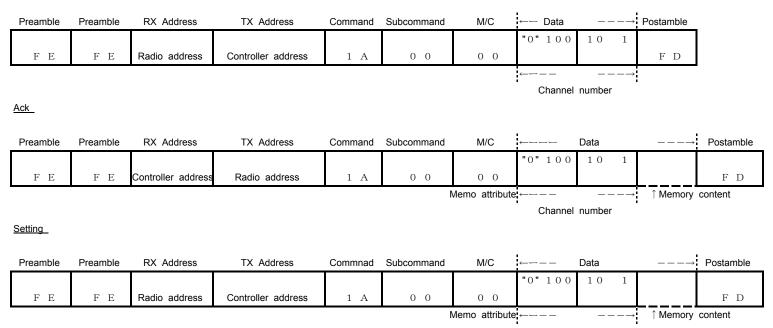
Tone Frequency Data Composition Details:

Preamble	Preamble	RX Address	TX Address	Command			Postamble
					100 10	1 0.1	
FΕ	FΕ	ХХ	X X	ХХ			F D
					← Frequency	\rightarrow	
						Unit: Hz	

Lined up from the top frequency

Command 1A 00 Details:

Read out



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Memory Attribute and Channel Number:

M/C	M/C			Memory Selecti	on	Call Selection		
00	Memory		Data		Channel	Data		Channel
01	Call		00	00	0Ch	00	01	Call FM
				\downarrow	\downarrow	00	02	Call DP
			00	99	99Ch	00	03	Call DD
			01	00	PA			
			01	01	PB			

<u>Limit</u>

Memory Contents:

<u>Blank</u>



Blank
Yes
No
No

When not Blank

10 1	1 100	100 10	10 1	1 100	Mode	Transfer rate		\rightarrow
	k	k k	M M	G M			DUP	
<u> </u>		Frequency		\rightarrow	←∽ Mode	\rightarrow		
100 10	1 0.1	100 10	1 0.1	1 100	100 10	10 1	Memory	\rightarrow
				k	k k	M M	Skip	
 TONE	→ Frequency	←∽── TSQL Frequ	———→ ency	←——– Offset fre	———→ equency	•		
1		- Memory name			10	\rightarrow		
		Memory name 10 byt	es		→	▲ •		
1	-	8	1	-	8	1	-	8
	Designated	RPTR		Own RPTR		(Called Statio	n
<u> </u>				TR Callsign 8 I	———→ oytes	←←−−− Called Sta NB: The last	ation Callsigr	-
							_ 5,000 ure	
	1							
CODE	reserved							

digital code 1 byte

Transfer rate

-	
Data	Mode
05	FM
D0	Digital voice
D1	Digital data

Data	Transfer rate
01	Fixed

T/TSQL/DCSQL/, DUP, Pocket BEEP:

		0 0 0	OFF	0 0	OFF	0 0	Simplex
		0 1 0	DSQL	0 1	Т	0 1	RP-
		1 0 0	CSQL	1 0	none	1 0	RP+
		other	none	1 1	TSQL	1 1	RPS
Fixed		DSQL		T/TSQL		DUP	*****
0	*	*	*	*	*	*	*
7	6	5	4	3	2	1	0

N.B.: The Digital Call SQL is only valid during digital mode, the T/TSQL use is excluded P.BEEP is not memorized.

Even when DCSQL P.BEEP is on, only the DCSQL is considered ON.

TONE Frequency:

Memory Skip:

Offset Frequency:

67.0 - 254.1 Hz: 50 tones (TSQL is the same)

Data	Skip
0	OFF
1	ON

0.0000 - 60.0000MHz

Memory Name/Callsign:

	Memory Name	RPTR Callsign	Called Station Callsign	
No of Chara	Up to 10 ASCII Code characters	Up to 8 ASCII Code character	Up to 8 ASCII Code characters	
Range	""(20h)" - "(7Eh)	""(20h), "/"(2Fh) - "9"(39), "A"(41h) - "Z"(5	Ah): 38 types	

156

Mode

Command 1D 00 Details:

Read out:

Preamble	Preamble	RX Address	TX Address	Command	Command Subcommand		Postamble
FΕ	FΕ	Radio address	Controller address	1 D	0 0	0 0	FD

ACK:

Preamble	Preamble	RX Address	TX Address	Command	Subcommand	Data		Postamble	
						Select	Тор	Bottom	
FΕ	FΕ	Controller address	Radio address	1 D	0 0	Acquire Flag	Flag	Flag	FD

Flags:

The flags consist of 2 bytes:

During digital communication, received flags (1 byte of data) are separated into upper 5bit and lower 3bit.

1st byte	7bit	6bit	5bit	4bit	3bit	2bit	1bit	Obit
	0	0	0			Top flag		
	Fixed	Fixed	Fixed	7bit	6bit	5bit	4bit	3bit
2nd byte	7bit	6bit	5bit	4bit	3bit	2bit	1bit	Obit
	0	0	0	0	0		Bottom flag	
	Fixed	Fixed	Fixed	Fixed	Fixed	2bit	1bit	Obit

	Upper Flags				
	7bit	6bit	5bit	4bit	3bit
0	Voice	Direct	Interrupt	data	Normal Com
1	Data	Relay	No interrupt	control	Emer Com

	Lower Fla		
2bit	1bit	Obit	
1	1	1	\langle
1	1	0	\geq
1	0	1	\searrow
1	0	0	\backslash
0	1	1	\land
0	1	0	\land
0	0	1	\searrow
0	0	0	\land