

# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## PARTS AND ACCESSORIES QUICK REFERENCE GUIDE



System

Scan

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## ACCESSORIES



**D2CP5S**  
Control Unit  
System, Remote Mount



**D2CP5R**  
Control Unit  
Scan, Remote Mount



**D2CP5M**  
Control Unit  
System, Front Mount



**D2CP5L**  
Control Unit  
Scan, Front Mount



**NP101411V2**  
Label for Control Unit



**344A4584G2**  
Mounting Bracket  
for Remote Control Unit

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **ACCESSORIES**



**D2MC5N  
MC103334V10**  
DTMF Microphone  
ALM-41 Replacement Coiled  
Cord assembly



**D2MC5L  
MC103334V30**  
Noise Canceling  
Microphone



**D2MC7T  
MC101616V1**  
Mobile Microphone



**344A4678P1**  
Microphone Hanger



**344A4755P3**  
Label for  
MC103334V10  
and MC103334V30  
Microphones Above



**D2MC5A  
19C851086P15**  
Desk Microphone

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **ACCESSORIES**



**D2AN3G**

**AN102800V1**

Antenna, 136-941 MHz

¼ Wave, TNC Roof Mount



**D2AN1M**

**19B801182P3**

Antenna, 896-941 MHz

3DB Gain, TNC, Roof Mount



**ASPA1850T**

Antenna, 806-870 MHz

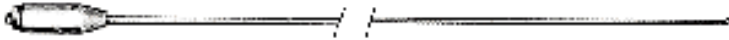
3DB Gain, TNC, Roof Mount

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **LOW BAND ANTENNAS**

**7491074P1**

Antenna, Low Band Whip



**Antenna Option Numbers Below  
(contain parts shown at left)**

**Antenna Matching Unit varies with  
Frequency**



**19A121577G1**

Antenna Hook Kit



**19C307172P2**

Antenna Mount

**D2AN1E**

Antenna, 29.7-38 MHz

Unity Gain Wide Band

**D2AN1F**

Antenna, 33-43 MHz

Unity Gain Antenna



Antenna Broad Band Matching Units

**19C851530P1 29.7-38 MHz**

**19C851530P2 33-43 MHz**

**19C851530P3 37-49 MHz**

**D2AN1G**

Antenna, 37-49 MHz

Unity Gain Wide Band

# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## ACCESSORIES



**19C320478G8**  
Handset Assembly

**Discontinued**



**7141414G3**  
Handset Hangup Cup  
Non Channel Guard



**19B219846G1**  
Handset Hookswitch  
Channel Guard

**Discontinued**



**D2LS1H**  
**LS102824V1**  
Speaker, 4 Ohms



**LS102824V5**  
Speaker, 8 Ohms

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **HANDHELD CONTROLLERS**



**D2CP7Y**  
**CU101239V1**  
Handheld Control Unit



**D2CL3A**  
**CA101619V1**  
HHC Interface Cable  
without Siren Interface



**D2CL3B**  
**CA101619V5**  
HHC Interface Cable  
with Siren Interface

# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## **HANDHELD CONTROLLER PARTS**



**D2CP7Y**  
CU101239V1  
Handheld Controller



**GA-01D-5560**  
Microphone Cable  
Assembly



**GA-01D-5800**  
Hanger Bracket Assembly



**GA-03D-8960**  
Volume Knob Kit



**GA-03D-8970**  
Rubber Button Kit

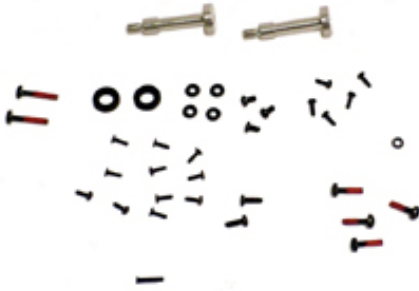


**GE-01D-5400**  
Rubber Keypad



# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## **HANDHELD CONTROLLER PARTS**



**GA-03D-8950**  
Screw Kit



**GE-02D-6080**  
Flex Ribbon Cable #1  
2 ½ inch



**GE-02D-6090**  
Flex Ribbon Cable #2  
1 ¾ inch



**SMF-3.2ACT**  
Fuse, 3.2Amp



**SW-010182**  
Switch, PTT  
(for HHC)



**KT-010946**  
Mic Element with Cable



**KT-010945**  
Kit, Rear Cover Assembly  
(includes rear cover, rubber gasket  
and 4 washers)

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## D2ZN5C

**Handheld Controller Accessory Kit With Siren  
Remote, 50W TX and Less  
(consists of all items shown below)**



**D2CP7Y  
CU101239V1**  
Handheld Controller



**19B802554P7**  
Remote Mount Extended  
Option Accessory Cable



**19B802622P3**  
Power Cable 7.5M  
50W and Below



**D2LS1H  
LS102824V1**  
Speaker, 4 Ohms



**CA101288V4**  
Remote Mount Extended  
Option Control Cable



**19B802673P1**  
Radio Mounting Bracket  
Rear Mount



**CA101619V5**  
HHC Interface Cable  
With Siren Interface



**19B802671P1**  
Front Cover, Remote Radio



**NP101410V2**  
Nameplate for  
Front Cover

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **D2ZN5D**

**Handheld Controller Accessory Kit With Siren  
Remote, 60W TX and More  
(consists of all items shown below)**



**D2CP7Y  
CU101239V1**  
Handheld Controller



**19B802554P7**  
Remote Mount Extended  
Option Accessory Cable



**19B802622P1**  
Power Cable 7.5M  
60W and Above



**D2LS1H  
LS102824V1**  
Speaker, 4 Ohms



**CA101288V4**  
Remote Mount Extended  
Option Control Cable



**19B802673P1**  
Radio Mounting Bracket  
Rear Mount



**CA101619V5**  
HHC Interface Cable  
With Siren Interface



**19B802671P1**  
Front Cover, Remote Radio



**NP101410V2**  
Nameplate for  
Front Cover

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## D2ZN5A

**Handheld Controller Accessory Kit Without Siren  
Remote, 50W TX and Less  
(consists of all items shown below)**



**D2CP7Y**  
CU101239V1  
Handheld Controller



**19B802554P7**  
Remote Mount Extended  
Option Accessory Cable



**19B802622P3**  
Power Cable 7.5M  
50W and Below



**D2LS1H**  
LS102824V1  
Speaker, 4 Ohms



**CA101288V4**  
Remote Mount Extended  
Option Control Cable



**19B802673P1**  
Radio Mounting Bracket  
Rear Mount



**CA101619V1**  
HHC Interface Cable  
without Siren Interface



**19B802671P1**  
Front Cover, Remote Radio



**NP101410V2**  
Nameplate for  
Front Cover

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **D2ZN5B**

**Handheld Controller Accessory Kit Without Siren  
Remote, 60W TX and Above  
(consists of all items shown below)**



**D2CP7Y**  
CU101239V1  
Handheld Controller



**19B802554P7**  
Remote Mount Extended  
Option Accessory Cable



**19B802622P1**  
Power Cable 7.5M  
60W and Above



**D2LS1H**  
LS102824V1  
Speaker, 4 Ohms



**CA101288V4**  
Remote Mount Extended  
Option Control Cable



**19B802673P1**  
Radio Mounting Bracket  
Rear Mount



**CA101619V1**  
HHC Interface Cable  
without Siren Interface



**19B802671P1**  
Front Cover, Remote Radio



**NP101410V2**  
Nameplate for  
Front Cover

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## D2ZN1H

**Accessory Kit, Remote Mount, With Extended  
Option Cable, 50W TX And Below  
(consists of all items shown below)**



**LS102824V1**  
Speaker, 4 Ohms



**19B802554P7**  
Accessory Extended Option  
Cable, Remote Mount



**19B802622P3**  
Power Cable, 7.5M  
50W and Below



**19B802671P1**  
Front Cover,  
Remote Radio



**344A4584G2**  
Mounting Bracket Kit  
Remote Mount, CU



**344A4678P1**  
Microphone Hanger Kit



**CA101288V4**  
Radio Control, Extended  
Option Cable, Remote Mount



**KT101533V6**  
Mounting Kit  
DB15 to CU Bkt



**19B802673P1**  
Mounting Bracket  
Remote Radio



**NP101410V2**  
Nameplate for Front Cover  
Remote Radio

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## D2ZN1J

**Accessory Kit, Remote Mount, With Extended  
Option Cable, 60W TX And Above  
(consists of all items shown below)**



**LS102824V1**  
Speaker, 4 Ohms



**19B802554P7**  
Accessory Extended Option  
Cable, Remote Mount



**19B802622P1**  
Power Cable, 7.5M  
60W and Above



**19B802671P1**  
Front Cover,  
Remote Radio



**344A4584G2**  
Mounting Bracket Kit  
Remote Mount, CU



**344A4678P1**  
Microphone Hanger Kit



**CA101288V4**  
Radio Control, Extended  
Option Cable, Remote Mount



**KT101533V6**  
Mounting Kit  
DB15 to CU Bkt



**19B802673P1**  
Mounting Bracket  
Remote Radio



**NP101410V2**  
Nameplate for Front Cover  
Remote Radio

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **D2ZN1G**

**Accessory Kit, Remote Mount With Standard Option  
Cable, 60W and Above  
(consists of all items shown below)**



**LS102824V1**  
Speaker, 4 Ohms



**19B802554P6**  
Accessory Standard Option  
Cable, Remote Mount



**19B802622P1**  
Power Cable, 7.5M  
60W and Above



**19B802671P1**  
Front Cover,  
Remote Radio



**344A4584G2**  
Mounting Bracket Kit  
Remote Mount, CU



**344A4678P1**  
Microphone Hanger Kit



**NP101410V2**  
Nameplate for Front Cover  
Remote Radio



**19B802554P3**  
Radio Control, Standard  
Option Cable, Remote Mount



**19B802673P1**  
Mounting Bracket  
Remote Radio



# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## D2ZN1F

**Accessory Kit, Remote Mount With Standard Option  
Cable, 50W and Below  
(consists of all items shown below)**



**LS102824V1**  
Speaker, 4 Ohms



**19B802554P6**  
Accessory Standard Option  
Cable, Remote Mount



**19B802622P3**  
Power Cable, 7.5M  
50W and Below



**19B802671P1**  
Front Cover,  
Remote Radio



**344A4584G2**  
Mounting Bracket Kit  
Remote Mount, CU



**344A4678P1**  
Microphone Hanger Kit



**NP101410V2**  
Nameplate for Front Cover  
Remote Radio



**19B802554P3**  
Radio Control, Standard  
Option Cable, Remote Mount



**19B802673P1**  
Mounting Bracket  
Remote Radio

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **D2ZN1A**

**Accessory Kit, Front Mount With  
Standard Option Cable  
(consists of all items shown below)**



**LS102824V1**  
Speaker, 4 Ohms



**19B802622P3**  
Power Cable, 7.5M  
50W and Below



**19B802554P1**  
Accessory Standard Option  
Cable, Front Mount



**344A4678P1**  
Microphone Hanger Kit



**19B802672P1**  
Mounting Bracket Kit  
Front Mount

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **D2ZN1B**

**Accessory Kit, Front Mount With  
Extended Option Cable  
(consists of all items shown below)**



**LS102824V1**  
Speaker, 4 Ohms



**19B802622P3**  
Power Cable, 7.5M  
50W and Below



**CA101288V2**  
Accessory Extended Option  
Cable, Front Mount



**344A4678P1**  
Microphone Hanger Kit



**19B802672P1**  
Mounting Bracket Kit  
Front Mount



**KT101533V5**  
Mounting Kit  
DB15-HD Conn to Radio Bracket

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## D2ZN1V

**Control Unit, Dual Control, System  
(consists of all items shown below)**



**KRY1011632/14**  
Control Unit, System  
Remote



**344A4584G2**  
Mounting Bracket Kit  
Control Unit, Remote



**19A705499P1**  
Alarm Relay Kit  
(consists of quantity 2)



**LS102824V1**  
Speaker, 4 Ohms



**19B802554P6**  
Accessory Cable  
Remote Mount



**19B802554P9**  
Dual Control Cable  
Remote Mount



**LS102824V5**  
Speaker, 8 Ohms  
(consists of quantity 2)



**NP101411V2**  
Nameplate for Control Unit



**19C852358P101**  
Keycap Kit, System  
Standard



**344A4678P1**  
Mic Hanger Kit

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz D2ZN1U

Control Unit, Dual Control, Scan  
(consists of all items shown below)



**KRY1011632/12**  
Control Unit, Scan  
Remote



**344A4584G2**  
Mounting Bracket Kit  
Control Unit, Remote



**19A705499P1**  
Alarm Relay Kit  
(consists of quantity 2)



**LS102824V1**  
Speaker, 4 Ohms



**NP101411V2**  
Nameplate for  
Control Unit



**19B802554P9**  
Dual Control Cable  
Remote Mount



**LS102824V5**  
Speaker, 8 Ohms  
(consists of quantity 2)



**344A4678P1**  
Mic Hanger Kit



**19B802554P6**  
Accessory Cable  
Remote Mount

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **D2ZN5R**

**Control Unit, Dual Control, Handheld Controller Without Siren  
(consists of all items shown below)**



**CU101239V1**  
Handheld Controller



**19A705499P1**  
Alarm Relay Kit  
(consists of quantity 2)



**LS102824V1**  
Speaker, 4 Ohms



**LS102824V5**  
Speaker, 8 Ohms  
(consists of quantity 2)



**19B802554P6**  
Accessory Cable  
Remote Mount



**19B802554P9**  
Dual Control Cable  
Remote Mount



**CA101619V1**  
HHC Interface Cable  
Without Siren Interface

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **D2ZN5S**

**Control Unit, Dual Control, Handheld Controller With Siren  
(consists of all items shown below)**



**CU101239V1**  
Handheld Controller



**19A705499P1**  
Alarm Relay Kit  
(consists of quantity 2)



**LS102824V1**  
Speaker, 4 Ohms



**LS102824V5**  
Speaker, 8 Ohms  
(consists of quantity 2)



**19B802554P6**  
Accessory Cable  
Remote Mount



**19B802554P9**  
Dual Control Cable  
Remote Mount



**CA101619V5**  
HHC Interface Cable  
With Siren Interface

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## D2ZN1W

Accessory Kit, Dual Radio, 50W TX and Below  
(consists of all items shown below)



**19B802673P1**

Mounting Bracket  
Remote Radio



**19B802671P1**

Front Cover  
Remote Radio



**19B802622P3**

Power Cable, 7.5M  
50W or Below



**NP101410V2**

Nameplate for Front Cover



**KT101533V5**

Mounting Kit  
DB15-HD Conn to Radio Bracket



**CA101288V10**

Cable Assembly  
Dual Radio



**CA101288V30**

Cable Assembly, Extension  
Dual Radio



**KT101533V6**

Mounting Kit  
DB15-HD Conn to CU Bracket



# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **D2ZN1X**

**Accessory Kit, Dual Radio, 60W TX and Below  
(consists of all items shown below)**



**19B802673P1**

Mounting Bracket  
Remote Radio



**19B802671P1**

Front Cover  
Remote Radio



**NP101410V2**

Nameplate for Front Cover



**19B802622P1**

Power Cable, 7.5M  
60W or Above



**KT101533V5**

Mounting Kit  
DB15-HD Conn to Radio Bracket



**CA101288V10**

Cable Assembly  
Dual Radio



**CA101288V30**

Cable Assembly, Extension  
Dual Radio



**KT101533V6**

Mounting Kit  
DB15-HD Conn to CU Bracket

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## SPK9521

### Remote Mount Kit

Converts a Front Mount to a Remote Mount Radio  
Using Existing Control Unit

Contains Extended Option Cables  
(consists of all items shown below)



**B19/BRBP05191**

Jack Screw

(Quantity 4 required  
for Remote Rear Cover)



**B19/MDNQZ5110C**

Remote Rear Cover



**B19/NQZ-4882C**

RIA Assembly



**19B803225P1**

Mounting Pad  
Vibration



**19B802671P1**

Front Cover  
Remote Radio



**19B802673P1**

Mounting Bracket  
Remote Radio



**344A4584G2**

Mounting Bracket for  
Control Unit, Remote Mount



**NP101410V2**

Nameplate for Front Cover



**19B802554P7**

Extended Option Cable  
Remote Mount



**CA101288V4**

Radio Control Cable  
Remote, 22ft

# ***ORION MOBILE VHF,UHF,800,900 MHz***

## **KT-200505-SPK**

### **Front Mount Kit**

**Converts a Remote Mount to a Front Mount Radio**

**Using Existing Control Unit**

**(For use with 50 Watt or Less Radios)**

**(consists of all items shown below)**



**B19/6PCLD00321**

Flex PC Board, PC2

(Connects CU to Transceiver)



**B19/MPBC33024**

Rear Cover, Front Mount CU



**19B802672P1**

Bracket Kit, Radio Mounting  
Front Mount Application

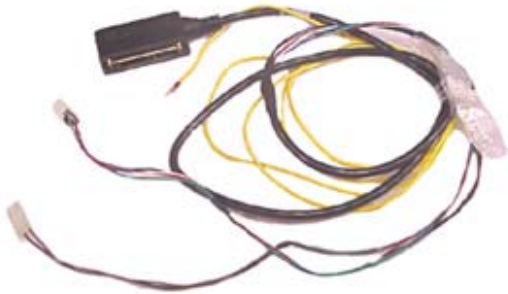


**CA101288V2**

Cable Assembly, Accessory  
Front Mount

# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## **CABLES**



**19B802554P1**  
Basic Accessory Cable  
Front Mount



**CA101288V2**  
Accessory Cable  
Extended Option Cable  
Front Mount, USA



**19B802554P3**  
Radio Control Cable  
Remote Mount  
5.5M USA



**CA101288V4**  
Radio Control Cable  
Extended Option Cable  
Remote Mount, 5.5M, USA



**19B802554P6**  
Accessory Cable  
Remote Mount, USA



**19B802554P7**  
Accessory Cable  
Extended Option Cable  
Remote Mount

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **CABLES**



**19B802554P9**  
Dual Control Cable  
Remote Mount



**CA101288V10**  
Dual Radio Cable  
Remote Mount



**19B802554P11**  
Basic Accessory Cable  
Front Mount, European



**19B802554P12**  
Accessory Cable  
Extended Option Cable  
Front Mount, European



**19B802554P13**  
Radio Control Cable  
Remote Mount 5.5M  
European



**19B802554P14**  
Radio Control Cable  
Extended Option Cable  
Remote Mount 5.5M  
European

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **CABLES**



**19B802554P15**  
PC Programming Cable, Orion



**19B802554P23**  
Cable, Radio to Control  
Unit, Motorcycle, USA



**19B802554P24**  
Accessory Cable, Motorcycle



**19B802554P26**  
Accessory Cover Plug, DB25



**CA101287V1**  
Programming Interface Cable

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **CABLES**



**CA101287V2**  
Keyloading Interface Cable



**CA101287V3**  
Data Interface Cable



**CA101288V15**  
Shop Programming Cable



**CA101288V30**  
Dual Radio Extension Cable  
for Programming, Keyloading  
and Mobile Data

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **CABLES**



**19B802622P1**  
Power Cable, 7.5M  
60W and Above



**19B802622P2**  
Power Cable, Motorcycle



**19B802622P3**  
Power Cable, 7.5 M  
50W or less



# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## MOUNTING ACCESSORIES



**344A4678P1**  
Standard Microphone Bracket



**B19/MPXP30217**  
Mounting Hardware Kit  
For Mounting Bracket Kit  
19B802673P1 at Right



**19B802673P1**  
Radio Mounting Bracket  
Rear Mount



**344A4584G2**  
Mounting Bracket Kit  
Remote Control Unit



**B19/MPXP30218**  
Mounting Hardware Kit  
For Mounting Bracket Kit  
19B802672P1 at Right



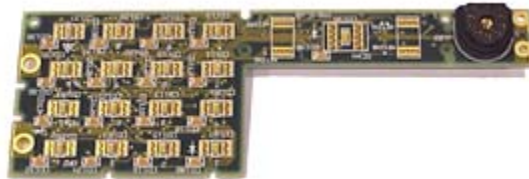
**19B802672P1**  
Mounting Bracket Kit  
Front Mount Radio

# *ORION MOBILE LB,HB,UHF,800,900 MHz*

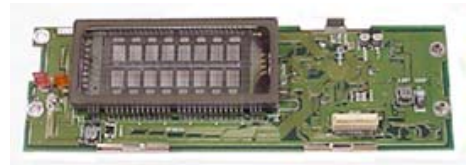
## MISCELLANEOUS PARTS



**B19/CDF-368BC**  
Switch Board,Scan  
Scan Control Units



**B19/CDF-368MC**  
Switch Board, System  
System Control Units



**B19/CMC-638C**  
Control Panel Board  
For Control Units



**B19/CMF-135D**  
IF Logic Board, VHF  
Switchable, 25KHz



**B19/CMF-138D**  
IF Logic Board, UHF  
Switchable, 25KHz



**B19/CMF-138NE**  
IF Logic Board, 900 MHz  
Switchable, 25 KHz

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## MISCELLANEOUS PARTS



**B19/CMF-138PE**  
IF Logic Board, 806-870 MHz  
Switchable



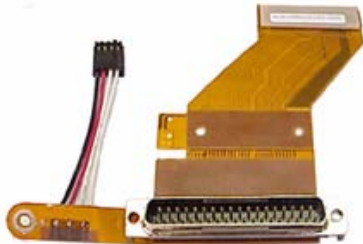
**19D904714G3**  
Aegis Board Assembly



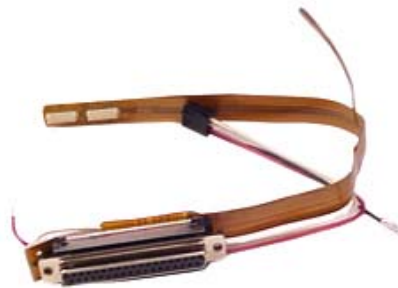
**ROA1172360/1**  
Provoice Module



**B19/NQZ-4882C**  
RIA Board for Remote Control Unit



**B19/CMH-1231E**  
PA Interface Board Flex  
(used in European PA's) (NLA)



**B19/CMH-1231UL**  
PA Interface Board Flex  
(Used in Lower Power PA's)

*NO PHOTO  
AVAILABLE*

**B19/CMH-1231UH**  
PA Interface Board Flex  
(used in High Power PA's)

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## MISCELLANEOUS PARTS



(B19/CMN-352DA) Shown

### Synth/Rx/Exciter Boards

<b>B19/CMN-352DA</b>	<b>136-150 MHz</b>
<b>B19/CMN-352DB</b>	<b>150-174 MHz</b>
<b>B19/CMN-354DA</b>	<b>403-440 MHz</b>
<b>B19/CMN-354DB</b>	<b>440-470 MHz</b>
<b>B19/CMN-354DC</b>	<b>470-512 MHz (NLA)</b>
<b>B19/CMN-358N</b>	<b>806-870 MHz</b>
<b>B19/CMN-359</b>	<b>896-941 MHz</b>



(344A4572P3) Shown  
(USA High Power)

### Power Amplifier Assemblies

<b>344A4572P5</b>	<b>136-153 MHz, 110W</b>
<b>344A4572P6</b>	<b>150-174 MHz, 110W</b>
<b>344A4573P6</b>	<b>403-440 MHz, 100W</b>
<b>344A4573P7</b>	<b>440-470 MHz, 100W (NLA)</b>
<b>344A4573P8</b>	<b>470-512 MHz, 80W</b>

NLA = No Longer Available

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## MISCELLANEOUS PARTS



(344A4573P3) Shown

Power Amplifier Assemblies  
(USA Low Power)

344A4572P3	136-153 MHz, 50W
344A4572P4	150-174 MHz, 50W
344A4573P3	402-440 MHz, 40W (NLA)
344A4573P4	440-470 MHz, 40W (NLA)
344A4573P5	470-512 MHz, 35W
344A4574P1	806-870 MHz, 12W
344A4574P2	806-870 MHz, 35W
344A4575P1	896-941 MHz, 12W
344A4575P2	896-941 MHz, 35W



(344A4573P1) Shown

Power Amplifier Assemblies  
(Low Power European Type)

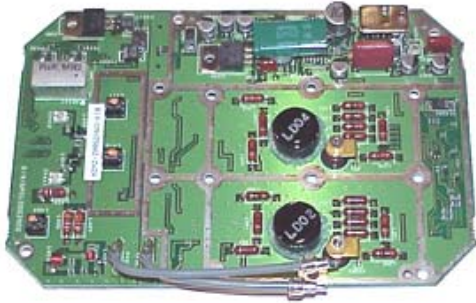
344A4572P1	136-153 MHz, 25W (NLA)
344A4572P2	150-174 MHz, 25W
344A4573P1	403-440 MHz, 20W
344A4573P2	440-470 MHz, 20W (NLA)

NLA = No Longer Available

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

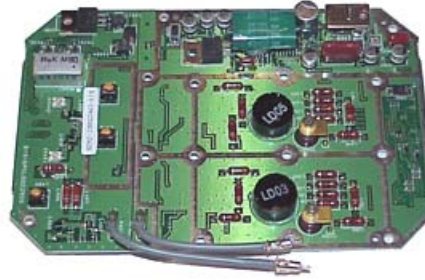
## MISCELLANEOUS PARTS

### LOW BAND BOARD ASSEMBLIES



**B19/CMN-350A**

Synth/Receiver/Exciter Board  
29-42 MHz



**B19/CMN-350B**

Synth/Receiver/Exciter Board  
35-50 MHz



**AM-011200-001**

Power Amplifier Board, 29-42 MHz

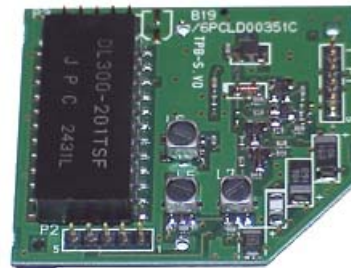
**AM-011200-002**

Power Amplifier Board, 35-50 MHz



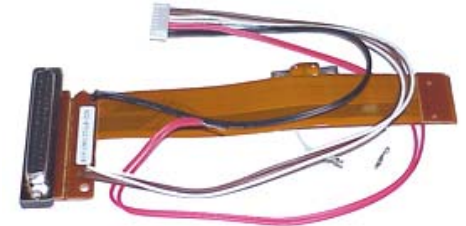
**B19/CMF-132W**

Control Logic Board



**B19/CFR-138 (NLA)**

Noise Blanker



**B19/CMH-1231LB**

PA Interface Board  
(used in Low Band PA's)

# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## MISCELLANEOUS PARTS

### Control Unit Parts



**B19/MPBC33023**  
Front Panel,Scan



**B19/MPBC30348**  
Front Panel,System



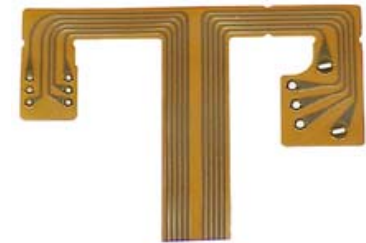
**B19/6PCLD00321**  
Flex PC Board,PC2  
(Connects CU to Transceiver)



**B19/MPPK30004A**  
Rubber Keypad,Scan



**B19/MPPK01867A**  
Rubber Keypad,System



**B19/6PCLD00307A**  
Flex PC Board,PC1,  
( Connects to Volume Switch)

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## CONTROL UNIT KEYCAPS



**19C852358P101**

Keycap Kit, System, (Standard)  
(includes 17 Keys and Extractor Tool)



**D2MK3F**

**19C852358P102**  
Keycap Kit, System, (Optional)  
(includes 72 Keys and Extractor Tool)



**D2MK3E**

**19C852359P101**  
Keycap Kit, Scan, (Optional)  
(includes 10 Keys and Extractor Tool)



**B19/MPHD30108**

Cover, Keycap, Blank  
(for System Control Units)



**B19/MTV004930D**

Cover, Keycap, Blank  
(for Scan and System Control Units)



**19C852359P1**

Cover, Keycap, Blank  
(for Scan Control Units)



# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## MISCELLANEOUS PARTS

### Control Unit Parts



**B19/MTV004931A**  
Knob Cover, Volume



**B19/MTV300461**  
Knob Cover, Select



**B19/5KLAC00112**  
Relay, 9V  
(used on IF logic board)



**B19/MPHD30001A**  
Volume Knob, Plastic



**B19/MPHD30002A**  
Select Knob, Plastic



**B19/5TZAD00296**  
Opto Diode, Red, TLR205, CD202,  
(Located on CU Control Panel)



**B19/7WSLD0004**  
Display, Vacuum Fluorescent  
(used on control panel)



**B19/5SZJC00021**  
Rotary Switch (S1)  
(used on control panel)



**B19/5RVAC00106**  
Volume Control  
(used on control panel)



**B19/5TZAD00560**  
Opto Diode, Orange, TLO205, CD201  
(Located on CU Control Panel)

# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## MISCELLANEOUS PARTS



**B19/5JAAE01064**  
RF Connector, TNC  
(used on PA Assembly)



**B19/5JWHZ00048**  
Microphone Connector, 9Pin  
(used on switch board) CU



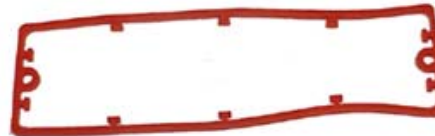
**B19/5JWAV00159**  
Dc Power Jack  
(used on PA Assembly)



**B19/5JWAH01075**  
Speaker Connector  
(used on PA Assembly)



**19B802611P2**  
Rubber Gasket, Orange  
(CU to T/R)



**19B802611P1**  
Rubber Gasket, Orange  
(T/R to PA)



**B19/5JBAH00334**  
Connector, Female, DB-37  
ORCC Connector  
(used on USA PA Interface Board)

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## MISCELLANEOUS PARTS



**B19/5DDAB00493**  
RF Power Module

### RF Power Modules

<b>B19/5DHAA00050</b>	<b>150-174 MHz, 110W, M67781H-38N</b>
<b>B19/5DHAA00051</b>	<b>136-153 MHz, 50W, M57719M-38</b>
<b>B19/5DHAA00052</b>	<b>150-174 MHz, 50W, M57719-38 (NLA)</b>
<b>B19/5DHAA00053</b>	<b>806-870 MHz, M57775-24</b>
<b>B19/5DDAB00493</b>	<b>403-440 MHz, M57788L-38 (20W)</b>
<b>B19/5DDAB00494</b>	<b>440-470 MHz M57788H-38 (20W)</b>
<b>B19/5DDAB00495</b>	<b>403-440 MHz M57704M-38 (40/80/100W)</b>
<b>B19/5DDAB00497</b>	<b>470-512 MHz M57704SH-38 (35/40W)</b>
<b>B19/5DDAB00503</b>	<b>896-941 MHz, M57781-24-A</b>
<b>B19/5DDAB00504</b>	<b>896-941 MHz, M67760H</b>
<b>B19/5DDAB00509</b>	<b>806-870 MHz, M67760L-38</b>



**B19/5TCAD00088**  
Power Transistor  
(No Longer Available)



**B19/5TCAF00510**  
Power Transistor

### Power Transistors

<b>B19/5TCAF00510</b>	<b>150-174 MHz, 2SC2782</b>
<b>B19/5TCAD00088</b>	<b>403-512 MHz, 2SC3102</b>
<b>B19/5TCAD00144 (NLA)</b>	<b>403-512 MHz, 2SC4989</b>
<b>B19/5TCAD00167</b>	<b>806-870 MHz, 2SC4624</b>

**Note:** Recommend using high temperature solder when replacing power transistors

# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## MISCELLANEOUS PARTS



**B19/MPBC33024**  
Rear Cover Assembly  
for KRY1011632/11&13  
Control Units



**B19/MPBC30093B**  
Rear Cover Assembly  
for 344A4581P1&P3  
Control Units



**B19/MDNQZ5110C**  
Rear Cover Assembly  
RIA for Remote Control



**B19/MPBC30109B**  
PA Cover Assembly  
Low Power 12-50W



**19B802671P1**  
Front Cover Panel  
Remote Mount  
(Installed on front of TX/RX)



**NP101410V2**  
Nameplate for Front Cover Panel

# *ORION MOBILE LB, VHF, UHF, 800, 900 MHz*

## MISCELLANEOUS PARTS



**B19/MPBC30113**  
Bottom Cover Assembly  
Synth/Receiver/Exciter



**B19/MPBC30112**  
Top Cover Assembly  
Synth/Receiver/Exciter



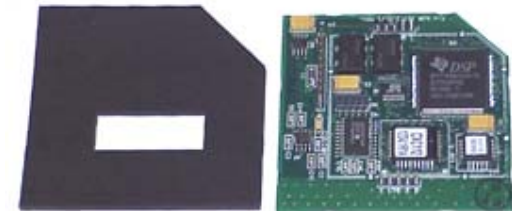
**B19/MPBC30111C**  
Frame Assembly  
Synth/Receiver/Exciter



**B19/MPBC30692**  
Top Cover Shield  
Synth/Receiver/Exciter



**B19/MPBC30691A**  
Bottom Cover Shield  
Synth/Receiver/Exciter



**NTM2011102/1**  
AMPF Module Kit  
(Pop Filter removes unwanted pops  
And clicks from a received signal)  
Includes AMPF Module, Rubber Pad  
and Ground Strap (not shown)

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MISCELLANEOUS PARTS**



### **JRC-SCREW**

Mounting Screw for  
Power Cable 19B802622P1



### **B19/BRBP05187**

Standoff used on DB37  
Connector at back of PA Casting  
(ORCC Connector)



### **B19/MTL046412A**

Standoff used between the Plastic  
Front Cover and Control Panel Board



### **B19/BRBP05191**

Stand Off used on DB25 Connector  
at back of Control Unit (Remote Mount)



### **B19/7ZYLD00001**

Standoff used to hold 12 Volt  
Power Supply Connector to  
PA Chassis



### **4-40-BLK-HEAD**

Screw for 19B802554 Cables

# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## MISCELLANEOUS PARTS



### 4-40-Double

Screw for 19B80254P9 and P10  
Dual Control Cables(2 required)



### B19/MPTG30013

Torx Screw

T-10 Length 22mm

For Use When Attaching Remote  
Rear Cover B19/MDNQZ5110C  
to Remote Control Units  
(Qty 4 Required)



### B19/MPTG30015

Torx Screw

T10 Length 14mm

For Use When Attaching Remote  
Front Cover 19B802671P1 to Radio  
(Qty 2 Required)



### B19/BRTG00339

Thrust Washer for Torx Screw

For Use When Attaching Front Mount  
Control Units to Radio (Qty 2 Required)



### 19A149677P2 Fuse Holder

For Use When Attaching Rear Cover to  
Front Mount Control Units(Qty 4 Required)



### B19/BRTG00339

Thrust Washer for Torx Screw



### 19A149678P2 20A Fuse



### 19A149678P4 40A Fuse

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MISCELLANEOUS PARTS**

<b>Part Number</b>	<b>Description</b>	<b>Freq Band</b>
B19/5ZFAP00008	Fuse,5A, Chip,F601, (Located on IF Logic Board)	VHF,UHF,800,900
B19/5XHAL00002	Crystal,7.3728 MHz, (Symbol X201 on Control Panel)	LB,VHF,UHF,800,900
B19/6XHLD00024	Crystal,82.655 MHz, (Symbol X501 on IF Logic Board)	UHF,800,900
B19/5XHAA01299	Crystal,9.8304 MHz, (Symbol X701 on IF Logic Board)	HB,UHF,800,900
B19/5XNAA00831	Ref Osc,12.8 MHz, (Symbol XU201 on RX/EX/Synth Bd)	LB,VHF
B19/5XNAA00870	Ref Osc,12.8 MHz, (Symbol XU201 on RX/EX/Synth Bd)	800,900
B19/5DDAF02006	Microprocessor, HD6473308F-10,(Symbol IC702 on IF Bd)	VHF,UHF,800,900
B19/5DAAG00515	EEPROM,HN58C66FP,(Symbol IC708 on IF Logic Board)	LB,VHF,UHF,800,900
B19/5DDEH00013	EEPROM,AT24C0HN-10SI(Symbol IC202 on Control Panel)	LB,VHF,UHF,800,900
B19/5DDAF02006	Microprocessor,HD6473308F-10(IC203 on Control Panel)	LB,VHF,UHF,800,900
B19/5TCAF00510	Power Transistor,2SC2782,(TR1,TR2,TR3 on PA Board)	VHF
B19/5TCAD00088	Power Transistor,2SC3102,(TR1 on PA Board)	UHF
B19/5TCAD00144	Power Transistor,2SC4989,(TR2,TR3 on PA Board)	UHF
B19/5TCAD00167	Power Transistor,2SC4624,(TR1 on PA Board)	800,900
B19/5TCAD00073	Power Transistor,2SC2540,(TR3,TR4 on 60W PA Board)	LB
B19/5TCAD00165	Power Transistor,2SC2694,(TR3,TR4 on 110W PA Board)	LB
B19/5TXAM00019	Diode, 6A, 100PIV, MR751 (CD1001on PA Assembly)	VHF,UHF,800,900



# ORION MOBILE LB, VHF, UHF, 800, 900 MHz

## SERVICE ACCESSORIES



**TQ3370** 120V  
**TQ3370-220** 230V  
PC Programming Adapter



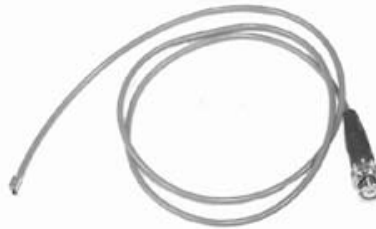
**TQ3385**  
PC Programming Software  
EDACS and Conventional  
**TQ3389**  
Conventional Software



**TQ3377**  
**19B802554P15**  
PC Programming Cable  
(interfaces between radio and  
interface box)



**B19/6PCLD00343**  
Extension Cable  
CU to TX/RX Assembly



**B19/6ZCLD00152**  
Extension Cable  
TX/RX Coaxial



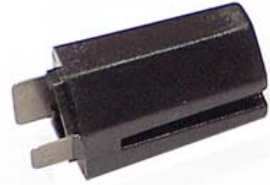
**B19/6ZCLD00153**  
Extension Cable  
(PA Coaxial)

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **SERVICE ACCESSORIES**



**B19/6ZCLD00154**  
Extension Cable  
(Logic Board)



**B19/MPTC30026**  
Scan Keycap  
Extractor Tool



**B19/MPTC30027**  
System Keycap  
Extractor Tool



**19C852496P1**  
Level Converter  
(Keyloader Interface RJ  
Type to DB Type)

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MAINTENANCE MANUALS**

### **MM001D2 (Maintenance Manual (29-50 MHz)**

(consists of all manuals listed below)

Orion Mobile Radio Scan and System Combination includes:	LBI-38905
Synthesizer/Receiver/Exciter	LBI-39138
Power Amplifier	LBI-39139
PA Interface	LBI-38994
Control Logic/IF Board	LBI-39145
Control Unit (344A4581P1-P4)	LBI-38992
Control Unit (KRY1011632/11-14)	AE/LZB 119 3326/1
Assemblies	LBI-38909
Service Section	LBI-39140
Aegis Module	LBI-39005
DTMF Microphone	LBI-39181
Mil Spec Microphone	AE/LZB 119 3604/2
Handheld Controller	MM101985V1
 (Also includes Upgrade Procedure for Orion Provoice Module Field Upgrade SPK9807)	 AE/LZB 123 3244/2

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MAINTENANCE MANUALS**

### **MM002D2 (Maintenance Manual (136-174 MHz))**

(consists of all manuals listed below)

Orion Mobile Radio Scan and System Combination includes:	LBI-38903
Synthesizer/Receiver/Exciter	LBI-38910
Power Amplifier	LBI-39002
PA Interface	LBI-38994
Control Logic/IF Board	LBI-39003
Control Unit (344A4581P1-P4)	LBI-38992
Control Unit (KRY1011632/11-14)	AE/LZB 119 3326/1
Assemblies	LBI-38909
Service Section	LBI-38993
Aegis Module	LBI-39005
DTMF Microphone	LBI-39181
Mil Spec Microphone	AE/LZB 119 3604/2
Handheld Controller	MM101985V1
(Also includes Upgrade Procedure for Orion Provoice Module Field Upgrade SPK9807)	AE/LZB 123 3244/2

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MAINTENANCE MANUALS**

### **MM003D2 (Maintenance Manual (136-174 MHz) Dual Bandwidth**

(consists of all manuals listed below)

Orion Mobile Radio Scan and System Combination includes:	LBI-39172
Synthesizer/Receiver/Exciter	LBI-39173
Power Amplifier	LBI-39002
PA Interface	LBI-38994
Control Logic/IF Board	LBI-39174
Control Unit (344A4581P1-P4)	LBI-38992
Control Unit (KRY1011632/11-14) Assemblies	AE/LZB 119 3326/1 LBI-38909
Service Section	LBI-39175
Aegis Module	LBI-39005
DTMF Microphone	LBI-39181
Mil Spec Microphone	AE/LZB 119 3604/2
Handheld Controller	MM101985V1

(Also includes Upgrade Procedure for Orion Provoice Module Field Upgrade SPK9807) AE/LZB 123 3244/2

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MAINTENANCE MANUALS**

### **MM004D2 (Maintenance Manual (403-470 MHz)**

(consists of all manuals listed below)

Orion Mobile Radio Scan and System Combination includes:	LBI-38904
Synthesizer/Receiver/Exciter	LBI-39033
Power Amplifier	LBI-39034
PA Interface	LBI-38994
Control Logic/IF Board	LBI-38907
Control Unit (344A4581P1-P4	LBI-38992
Control Unit (KRY1011632/11-14)	AE/LZB 119 3326/1
Assemblies	LBI-38909
Service Section	LBI-38908
Aegis Module	LBI-39005
DTMF Microphone	LBI-39181
Mil Spec Microphone	AE/LZB 119 3604/2
Handheld Controller	MM101985V1
(Also includes Upgrade Procedure for Orion Provoice Module Field Upgrade SPK9807)	AE/LZB 123 3244/2

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MAINTENANCE MANUALS**

**MM005D2 (Maintenance Manual (403-470 MHz) Dual Bandwidth**  
(consists of all manuals listed below)

Orion Mobile Radio Scan and System Combination includes:	LBI-39162
Synthesizer/Receiver/Exciter	LBI-39163
Power Amplifier	LBI-39164
PA Interface	LBI-38994
Control Logic/IF Board	LBI-39165
Control Unit (344A4581P1-P4	LBI-38992
Control Unit (KRY1011632/11-14)	AE/LZB 119 3326/1
Assemblies	LBI-38909
Service Section	LBI-39166
Aegis Module	LBI-39005
DTMF Microphone	LBI-39181
Mil Spec Microphone	AE/LZB 119 3604/2
Handheld Controller	MM101985V1
 (Also includes Upgrade Procedure for Orion Provoice Module Field Upgrade SPK9807)	 AE/LZB 123 3244/2

# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MAINTENANCE MANUALS**

### **MM006D2 (Maintenance Manual (800 MHz))**

(consists of all manuals listed below)

Orion Mobile Radio Scan and System Combination includes:	LBI-38902
Synthesizer/Receiver/Exciter	LBI-39070
Power Amplifier	LBI-39071
PA Interface	LBI-38994
Control Logic/IF Board	LBI-39072
Control Unit (344A4581P1-P4)	LBI-38992
Control Unit (KRY1011632/11-14) Assemblies	AE/LZB 119 3326/1 LBI-38909
Service Section	LBI-39073
Aegis Module	LBI-39005
DTMF Microphone	LBI-39181
Mil Spec Microphone	AE/LZB 119 3604/2
Handheld Controller	MM101985V1
(Also includes Upgrade Procedure for Orion Provoice Module Field Upgrade SPK9807)	AE/LZB 123 3244/2



# ***ORION MOBILE LB, VHF, UHF, 800, 900 MHz***

## **MAINTENANCE MANUALS**

### **MM007D2 (Maintenance Manual (900 MHz))**

(consists of all manuals listed below)

Orion Mobile Radio Scan and System Combination includes:	LBI-38906
Synthesizer/Receiver/Exciter	LBI-39059
Power Amplifier	LBI-39054
PA Interface	LBI-38994
Control Logic/IF Board	LBI-39057
Control Unit (344A4581P1-P4)	LBI-38992
Control Unit (KRY1011632/11-14) Assemblies	AE/LZB 119 3326/1 LBI-38909
Service Section	LBI-39058
Aegis Module	LBI-39005
DTMF Microphone	LBI-39181
Mil Spec Microphone	AE/LZB 119 3604/2
Handheld Controller	MM101985V1
 (Also includes Upgrade Procedure for Orion Provoice Module Field Upgrade SPK9807)	 AE/LZB 123 3244/2