



Factory Mutual Approval

XTS™ 1500/MT 1500/PR 1500 XTS™ 2500/XTS™ 2500I/XTS™ 2250
Product Listing
(For Use in Hazardous [Classified] Locations)

Manual Supplement
For MT 1500/PR 1500, ASTRO® XTS 1500/XTS 2500/XTS 2500I
XTS 2250 Portable Radios



APPROVED



Intrinsically Safe FM Approval labels are attached to the radio to identify the unit as being FM Approved for specified hazardous atmospheres. This label specifies the hazardous Class/Division/Group along with the part number of the battery that must be used. Their Approval mark is shown above.

The hazardous location ratings are divided into Class, Division, and Group to indicate the existence of flammable gases or vapors, ignitable dust, fibers, or filings under normal or unlikely conditions of operation.

The MT/PR 1500 and ASTRO XTS 1500/XTS 2500/XTS 2500I/XTS 2250 Portable Radio, when properly equipped with the FM battery option, using batteries NTN9816_, NTN9857_, or NNTN6263_, is FM approved by Factory Mutual (FM) as intrinsically safe for use in Classes I, II, and III, Division 1, Groups C, D, E, F, G, and for nonincendive use in Class I, Division 2, Groups A, B, C, D.

Note: The radios and accessories on the following pages are approved as intrinsically safe by Factory Mutual Approvals. Refer to the radio label for intrinsic safety ratings and required batteries. Only the accessories and antennas listed on the following pages may be used on approved radios.

The ASTRO XTS radios with secure module part numbers, and properly equipped with the FM/CSA battery option, using batteries NTN9816_, NTN9857_, or NNTN6263_, are FM/CSA approved for Division 1, Class I, II, III, Groups D, F, G, and for nonincendive use in Class I, Division 2, Groups A, B, C, D. Temp Code T3C

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ASTRO XTS 1500 Portable Radio Model and Super Tanapas

<i>Model Number</i>	<i>Super Tanapa Number</i>
700/800 MHz	
H66UCC9PW5AN/BN	PMUF1154_
	PMUF1155_
	PMUF1156_
	PMUF1343_
	PMUF1344_
	PMUF1345_
H66UCC9PW2BN	PMUF1365_
	PMUF1366_
H66UCD9PW5BN	PMUF1317_
	PMUF1318_
	PMUF1319_
VHF	
H66KDC9PW5AN/BN	PMUD1966_
	PMUD1967_
	PMUD1968_
	PMUD2204_
	PMUD2205_
	PMUD2206_
H66KDD9PW5BN	PMUD2169_
	PMUD2172_
	PMUD2173_
UHF Range 1	
H66QDC9PW5AN/BN	PMUE2289_
	PMUE2290_
	PMUE2291_
	PMUE4444_
	PMUE4445_
	PMUE4446_
H66QDD9PW5BN	PMUE2563_
	PMUE2564_
	PMUE2565_

ASTRO XTS 1500 Portable Radio Model and Super Tanapas (Cont.)

<i>Model Number</i>	<i>Super Tanapa Number</i>
UHF Range 2	
H66SDC9PW5AN	PMUE2294_
	PMUE2295_
	PMUE2296_
H66SDC9PW5BN	PMUE2705_
	PMUE2706_
	PMUE2707_
H66SDD9PW5BN	PMUE2568_
	PMUE2569_
	PMUE2570_

MT 1500 Portable Radio Models and Super Tanapas

<i>Model Number</i>	<i>Super Tanapa Number</i>
700/800 MHz	
H67UCC9PW5AN/BN	PMUF1152_
	PMUF1153_
	PMUF1346_
	PMUF1347_
H67UCD9PW5BN	PMUF1320_
	PMUF1321_
VHF	
H67KDC9PW5AN/BN	PMUD1969_
	PMUD1970_
	PMUD2207_
	PMUD2208_
H67KDD9PW5BN	PMUD2209_
	PMUD2210_
UHF Range 1	
H67QDC9PW5AN/BN	PMUE2292_
	PMUE2293_
	PMUE4447_
	PMUE4448_
H67QDD9PW5AN	PMUE2566_
	PMUE2567_

MT 1500 Portable Radio Models and Super Tanapas (Cont.)

<i>Model Number</i>	<i>Super Tanapa Number</i>
UHF Range 2	
H67SDC9PW5AN	PMUE2297_
	PMUE2298_
H67SDC9PW5BN	PMUE2708_
	PMUE2709_
H67SDD9PW5BN	PMUE2571_
	PMUE2572_

PR 1500 Portable Radio Model and Super Tanapa

<i>Model Number</i>	<i>Super Tanapa Number</i>
VHF	
AAH79KDC9PW5AN/BN	PMUD2071_
	PMUD2211_
UHF Range 1	
AAH79QDC9PW5AN/BN	PMUE2359_
	PMUE4449_
UHF Range 2	
AAH79SDC9PW5AN	–
AAH79SDC9PW5BN	PMUE2710_

ASTRO XTS 2500I Portable Radio Model and Super Tanapa (Standard and Secure)

<i>Model Number</i>	<i>Super Tanapa Number</i>	<i>Super Tanapa Number (Secure)</i>
700/800 MHz		
H46UCC9PW5BN	PMUF1332_	–
	PMUF1336_	–
	NWF1213_	–
H46UCD9PW2BN	PMUF1333_	PMUF1322_
H46UCD9PW5BN	PMUF1333_	PMUF1322_
	PMUF1337_	PMUF1325_
	NWF1124_	NWF1125_
H46UCF9PW2BN	PMUF1334_	PMUF1323_

**ASTRO XTS 2500I Portable Radio Model and Super Tanapa (Cont.)
(Standard and Secure)**

<i>Model Number</i>	<i>Super Tanapa Number</i>	<i>Super Tanapa Number (Secure)</i>
H46UCF9PW6BN	PMUF1334_	PMUF1323_
	PMUF1338_	PMUF1326_
	NWF1214_	NWF1215_
H46UCH9PW2BN	PMUF1335_	PMUF1324_
H46UCH9PW7BN	PMUF1335_	PMUF1324_
	PMUF1339_	PMUF1327_
	NWF1216_	NWF1129_
VHF		
H46KDC9PW5BN	PMUD2197_	–
	NUD2889_	–
H46KDD9PW5BN	PMUD2198_	PMUD2182_
	NUD2890_	NUD2891_
H46KDF9PW6BN	PMUD2199_	PMUD2183_
	NUD2892_	NUD2893_
H46KDH9PW7BN	PMUD2200_	PMUD2184_
	NUD2894_	NUD2895_
UHF Range 1		
H46QDC9PW5BN	PMUE4437_	–
	NUE3594_	–
H46QDD9PW5BN	PMUE4438_	PMUE2573_
	NUE3595_	NUE3596_
H46QDF9PW6BN	PMUE4439_	PMUE2574_
	NUE3597_	NUE3598_
H46QDH9PW7BN	PMUE4440_	PMUE2575_
	NUE3599_	NUE3600_
UHF Range 2		
H46SDC9PW5BN	PMUE2698_	–
	NUE3607_	–
H46SDD9PW5BN	PMUE2699_	PMUE2576_
	NUE3602_	NUE3601_
H46SDF9PW6BN	PMUE2700_	PMUE2577_
	NUE3603_	NUE3604_
H46SDH9PW7BN	PMUE2702_	PMUE2578_
	NUE3605_	NUE3606_

**ASTRO XTS 2500I Portable Radio Model and Super Tanapa
(Immersible and Secure)**

<i>Model Number</i>	<i>Super Tanapa Number (Immersible)</i>	<i>Super Tanapa Number (Immersible & Secure)</i>
700/800 MHz		
H46UCC9PW5BN	PMUF1251_	–
	PMUF1267_	–
	NWF1136_	–
H46UCD9PW5BN	PMUF1239_	PMUF1238_
	PMUF1268_	PMUF1270_
	NWF1144_	NWF1142_
H46UCF9PW6BN	PMUF1240_	PMUF1234_
	PMUF1271_	PMUF1273_
	NWF1138_	NWF1139_
H46UCH9PW7BN	PMUF1243_	PMUF1237_
	PMUF1274_	PMUF1276_
	NWF1140_	NWF1141_
VHF		
H46KDC9PW5BN	PMUD2145_	–
	NUD2880_	–
H46KDD9PW5BN	PMUD2146_	PMUD2148_
	NUD2881_	NUD2888_
H46KDF9PW6BN	PMUD2149_	PMUD2151_
	NUD2883_	NUD2884_
H46KDH9PW7BN	PMUD2152_	PMUD2154_
	NUD2885_	NUD2887_
UHF Range 1		
H46QDC9PW5BN	PMUE2486_	–
	NUE3580_	–
H46QDD9PW5BN	PMUE2487_	PMUE2489_
	NUE3576_	NUE3578_
H46QDF9PW6BN	PMUE2490_	PMUE2492_
	NUE3584_	NUE3574_
H46QDH9PW7BN	PMUE2493_	PMUE2495_
	NUE3581_	NUE3586_

**ASTRO XTS 2500I Portable Radio Model and Super Tanapa (Cont.)
(Immersible and Secure)**

<i>Model Number</i>	<i>Super Tanapa Number (Immersible)</i>	<i>Super Tanapa Number (Immersible & Secure)</i>
UHF Range 2		
H46SDC9PW5BN	PMUE2498_	–
	NUE3592_	–
H46SDD9PW5BN	PMUE2499_	PMUE2501_
	NUE3591_	NUE3589_
H46SDF9PW6BN	PMUE2502_	PMUE2504_
	NUE3588_	NUE3583_
H46SDH9PW7BN	PMUE2505_	PMUE2507_
	NUE3585_	NUE3575_

ASTRO XTS 2500* Portable Radio Models and Super Tanapas

<i>Model Number</i>	<i>Super Tanapa Number</i>	<i>Super Tanapa Number (Secure)</i>
700/800 MHz		
H46UCC9PW5AN	NUF2607_	–
H46UCF9PW6AN	NUF2608_	–
H46UCH9PW7AN	NUF2609_	–
H46UCD9PW5AN	PMUF1214_	PMUF1236_
H46UCF9PW6AN	PMUF2608_	PMUF1242_
H46UCH9PW7AN	PMUF2609_	PMUF1235_
VHF		
H46KDC9PW5AN/BN	PMUD1917_	–
H46KDF9PW6AN/BN	PMUD1918_	PMUD2150_
H46KDH9PW7AN/BN	PMUD1919_	PMUD2153_
H46KDD9PW5AN/BN	PMUD2001_	PMUD2147_
H46KDD9PW5AN	PMUD2080_	–
UHF Range 1		
H46QDF9PW6AN	PMUE2110_	PMUE2491_
H46QDH9PW7AN	PMUE2111_	PMUE2494_
H46QDD9PW5AN	PMUE2383_	PMUE2488_
H46QDC9PW5AN	PMUE2109_	–
UHF Range 2		
H46SDC9PW5AN	PMUE2112_	–
H46SDD9PW5AN	PMUE2244_	PMUE2500_

ASTRO XTS 2500* Portable Radio Models and Super Tanapas (Cont.)

<i>Model Number</i>	<i>Super Tanapa Number</i>	<i>Super Tanapa Number (Secure)</i>
H46SDF9PW6AN	PMUE2113_	PMUE2503_
H46SDH9PW7AN	PMUE2114_	PMUE2506_

ASTRO XTS 2250* Portable Radio Model and Super Tanapas

<i>Model Number</i>	<i>Super Tanapa Number</i>	<i>Super Tanapa Number (Secure)</i>
700/800 MHz		
H46UCC9PW5ANI/BNi	PMUF3711_	—
	PMUF1340_	—
H46UCD9PW5ANI/BNi	PMUF1215_	—
	PMUF1341_	PMUF1277_
H46UCH9PW7ANI/BNi	PMUF3713_	—
	PMUF1342_	PMUF1278_
VHF		
H46KDC9PW5ANI/BNi	PMUD2871_	—
	PMUD2201_	—
H46KDD9PW5ANI/BNi	PMUD2002_	—
	PMUD2202_	PMUD2155_
H46KDH9PW7ANI/BNi	PMUD2873_	—
	PMUD2203_	PMUD2156_
UHF Range 1		
H46QDC9PW5ANI/BNi	PMUE2283_	—
	PMUE4441_	—
H46QDD9PW5ANI/BNi	PMUE2254_	—
	PMUE4442_	PMUE2496_
H46QDH9PW7ANI/BNi	PMUE2285_	—
	PMUE4443_	PMUE2497_
UHF Range 2		
H46SDC9PW5ANI	PMUE2286_	—
H46SDD9PW5ANI	PMUE2250_	—
H46SDH9PW7ANI	PMUE2288_	—
H46SDC9PW5BNI	PMUE2701_	—
H46SDD9PW5BNI	PMUE2703_	PMUE2508_
H46SDH9PW7BNI	PMUE2704_	PMUE2509_

* Available in Latin America (/ suffix indicates international version)

Antennas

Option	Description	Kit
H121BE	ALT: Dipole, 800MHz	NAF5039A
H122BC	ALT: Quarter-Wavelength, 800MHz	NAF5042A
H124CW	INT: Whip, 800 MHz (806-870 MHz)	NAF5037A
Q696AA	ALT: Whip, 700/800MHz	NAF5080A
H128AV	ALT: Antenna Helical VHF 136-150.8MHZ	NAD6566A
H129AU	ALT: Antenna Helical VHF 150.8-162MHZ	NAD6567A
H65AU	ALT: Antenna Helical VHF 162-174MHZ	NAD6568A
H124CR	INT: Antenna Helical VHF Standard (136-174 broadband)	NAD6563A
H125AX	ALT: Antenna Helical UHF 403-435MHZ	NAE6546A
H126AU	ALT: Antenna Helical UHF 435-470MHZ	NAE6547A
H127AP	ALT: Antenna Helical UHF 470-520MHZ	NAE6548A
H124CS	INT: Antenna Whip UHF Standard	NAE6549A

Batteries

Option	Description	Kit
H223DE	NTN9816A/B, UHF/VHF, High-Capacity, NiCd	NTN9816A/B
H223CY	NTN9816A/B, 700/800 NiCd, High-Capacity	NTN9816A/B
Q393BN	NTN9857A/B/C, 700/800, NiMH, Ultra-High Capacity	NTN9857A/B/C
Q393BS	NTN9857A/B/C, UHF/VHF, NiMH, Ultra-High Capacity	NTN9857A/B/C
Q393SB	NNTN6263A, NiMH, FM, IMPRES, Ultra-High Capacity	NTN6263A
H393xx	ALT: NTN9857A/B/C, NiMH, FM, Ultra-High Capacity, IS	NTN9857A/B/C
H223xx	ALT: NTN9816 SMART 1525 mAh NiCd, FM, High-Capacity, IS	NTN9816

Accessories

<i>Kit</i>	<i>Description</i>
0180300E83	Remote push-to-talk body switch
BDN6636B	Throat microphone headset with VOX
BDN6641A	Ear microphone, high noise level up to 105dB, GREY (must order interface module)
BDN6645A	Noise-canceling boom microphone headset with PTT on earcup
BDN6664A	Earpiece with standard earphone, BEIGE
BDN6665A	Earpiece with extra-loud earphone, BEIGE
BDN6666A	Earpiece with volume control, BEIGE, XTS3500
BDN6667A	Earpiece, with microphone and PTT combined, BEIGE
BDN6668A	Earpiece, with microphone and PTT separate, BEIGE
BDN6669A	Extra-loud earpiece, with microphone and PTT combined, BEIGE
BDN6670A	Extra-loud earpiece, with microphone and PTT separate, BEIGE
BDN6671B	PTT and VOX interface module for use with BDN6677, BDN6678, and BDN6641
BDN6673B	Headset adapter cable for use with BDN6645 and BDN6636
BDN6676D	PTT adapter
BDN6677A	Ear microphone, standard, noise up to 95dB, BLACK (must order interface module)
BDN6678A	Ear microphone, standard, noise up to 95dB, BEIGE (must order interface module)
BDN6708B	PTT interface module for use with BDN6677, BDN6678 and BDN6641
BDN6726A	Earpiece with standard earphone, BLACK
BDN6727A	Earpiece with extra-loud earphone, BLACK
BDN6728A	Earpiece with volume control, BLACK, XTS3500
BDN6729A	Earpiece, with microphone and PTT combined, BLACK
BDN6730A	Earpiece, with microphone and PTT separate, BLACK
WAD4190A	Earpiece, flexible for PSM and RSM

Accessories (Cont.)

<i>Kit</i>	<i>Description</i>
RLN4941A	Earpiece, receive only
BDN6731A	Extra-loud earpiece, with microphone and PTT combined, BLACK
BDN6732A	Extra-loud earpiece, with microphone and PTT separate, BLACK
BDN6780A	Earbud, microphone and PTT combined
BDN6781A	Earbud, dual receive only
RLN4885B	Earbud, receive only
NMN1020A	FM approved lightweight headset
NMN6191C	RSM, noise-canceling, includes a 6.0 ft. coiled cord
NMN6193BSP03	RSM, Immersible
NMN6193C	RSM, includes a 6.0 ft. coiled cord
NMN6245A	Lightweight headset with single muff and PTT switch
NMN6246B	Ultralite headset with boom microphone
NMN6258A	Over-the-head headset with in-line PTT
NMN6259A	Behind-the-head headset
NTN1624A	CommPort ear microphone, palm (ships with BDN6676 adapter)
NTN1625A	CommPort ear microphone (ships with BDN6676 adapter)
NTN1663A	CommPort ear microphone, with ring PTT (ships with BDN6676 adapter)
NTN1736A	CommPort ear microphone, with snap-on side PTT (ships with BDN6676 adapter)
NTN8819B	CommPort
RMN4049A	Temple transducer
RMN5038A	Remote speaker microphone, heavy duty
RMN5049A	Temple transducer
RMN5072A	Remote speaker microphone, 30" cable
RMN5073A	Remote speaker microphone, 18" cable
RMN5074A	Remote speaker microphone, 24" cable
PMMN4038A	Remote speaker microphone, IP57

Encryption Modules

<i>Option</i>	<i>Description</i>	<i>Kit</i>
0104020J51	Front Kit Model III (Secure)	PMLN4778_
0104020J50	Front Kit Model II (Secure)	PMLN4793_
0104020J49	Front Kit Model 1.5 (Secure)	PMLN4803_

Encryption Modules

<i>Option</i>	<i>Description</i>
Q159AC	Hardware Secure Encryption
QA00211AA	IP67 Immersion