

AN/MPQ-4A Counter Mortar Radar CONFEDERATE RELIC ROOM &



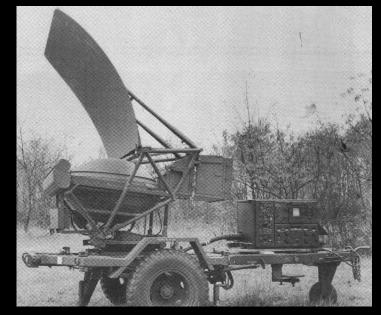
The AN/MPQ-4 Counter Battery Radar System was used to locate enemy mortars and small artillery units, as well as to correct the fire of friendly mortar and artillery fire. It used a rectangular single curved parabolic reflector fed by a Foster Scanner operating in KU-Band to scan a required sector of 25 degrees. The transmitter was a self-oscillating magnetron type. The projectile traces were displayed on a B-scope. The radar provided quick identification to pinpoint enemy mortar positions in map coordinates, enabling artillery units to launch counter attacks.

The radar could be set up in less than 15 minutes. All the equipment was mounted on two 2-wheel trailers. One trailer carried the primary radar equipment, while the other trailer carried the primary power supply (a petrol engine generator set) and auxiliary equipment such as the cable set and spare parts.

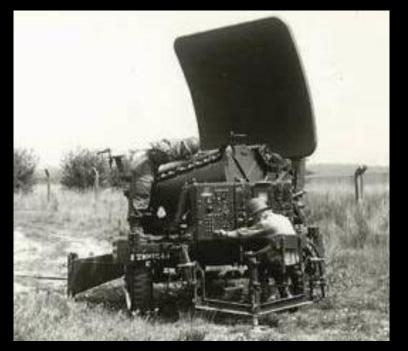
The radar was introduced in 1958 and remained one of the primary US counter-battery systems into the late 1970s. It was replaced by the AN/TPQ-36. Or Blah, Blah, Blah.

(Source: Military Wiki, https://military-history.fandom.com/wiki/AN/MPQ-4)

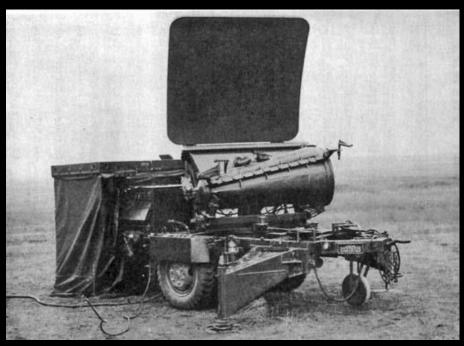




Prototype – Luneburg Lens Scanner



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AN/MPQ-4A Counter Mortar Radar

DEPARTMENT OF DEFENSE STILL MEDIA RECORDS CENTER WASHINGTON, D.C. _0374-1681 ///-CCV-G(9 SDAN: CC-46476 DATE: 26 Jan 1968 SAVRIN: SERVICE ID: AVGG-C-0269D-1/AGA68 PHOTOGRAPHER: Spec. 5 Walter Bisson

Song Be, Yietnam....The AN/MPQ-4A signal-controlled counter mortar radar commanded by Chief Warrant Officer Rowland Smith. Smith is assigned to Hq. Btry., 2nd Bn., 320th Arty., 1st Bde., 101st Abn. Div., with ten persons under his command. Powered by a 1..5 kilowatt generator, the counter mortar radar unit generates and transmits two beams of radio frequency. These beams are transmitted up to a maximum range of 10 kilometers. When a projectile breaks both beams it is indicated on a scope from which a computer analyzes the origin of the projectile and gives appropriate coordinates. OFFICIAL U.S.: ARMY PHOTO (RELEASED)

DoD Photo of an AN/MPQ-4A Radar at Sông Bé Base Camp in southern South Vietnam.



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An AN/MPQ-4A Radar at unknown location in South Vietnam.

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Although not of FSB Ripcord, I used this photo as the "prototype" for the AN/MPQ-4A layout on the diorama.



TM 11-5840-208-10

PUBLIC DOCUMENTS FERENCE DEPARTMENT

TECHNICAL MANUAL

101.11:

11-5840-208-10

OPERATOR'S MANUAL FOR

RADAR SET AN/MPQ-4A (NSN 5840-00-543-0759)

This copy is a reprint which includes current pages from Changes 1 though 4.

Many Unclassified Technical Manuals are available on the web as downloadable PDFs or viewable pages.

HEADQUARTERS, DEPARTMENT OF THE ARMY APRIL 1977



TM 11-5840-208-10

Table 1-1 Dimensions and Weights

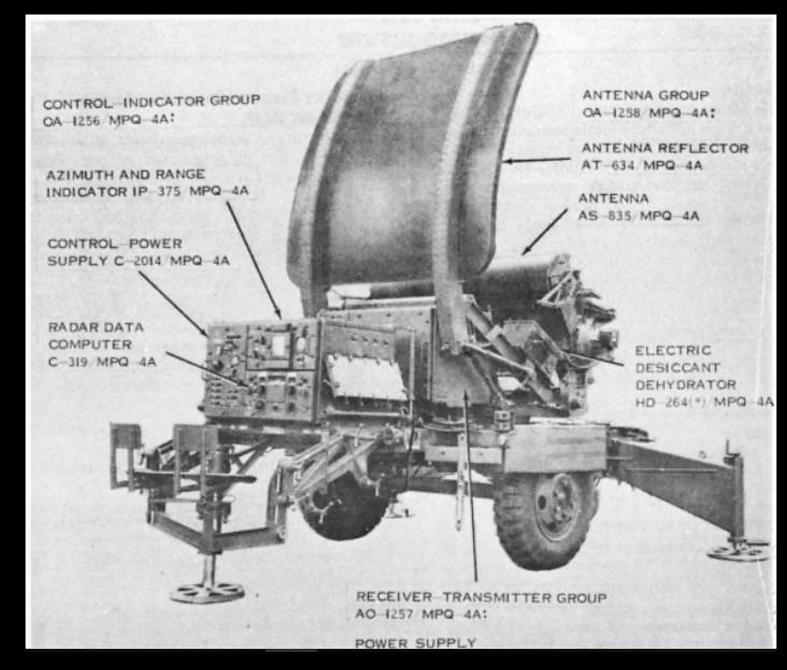
S840-00-543-0537 1 Antenna Group QA-1258/MPQ-4A, including: 1-2 34 of Garge end) 5840-00-574-7526 1 Antenna AS-835/MPQ-4A 1-2 34 of Garge end) 5840-00-574-2466 1 Cavity, Tuned FR-111/MPQ-4A 1-6 5 5840-00-574-2466 1 Circular Polariser MX-2219/MPQ-4A 1-6 5 5840-00-583-0305 Mount, Telescope, Assembly 4-4 1-2 26 5840-00-583-0535 Reflect, Antenna AB-486/MPQ-4A 1-2 20.62 1240-00-593-6415 1 Dehydnrot, desicant, Electrie HD-264/MPQ-4A, ar 1-2 20.62 1440-00-564-7538 1 Control-flocter Supply C-2014/MPQ-4A, ar 1-2 20.62 1540-00-543-0586 1 Control-flocter Group OA-1256/MPQ-4A, including: 1-2 20.62 1540-00-543-0545 1 Indicator, Asimuth Mat Range IP-375/MPQ-4A, ar 1-2 20.52 1640-00-543-0546 1 Indicator, Asimuth As Including: 1-2 30.34 1640-00-543-0545 1 Indicator, Asimuth As Including: 1-2 20.22 <td< th=""><th></th><th>NSN</th><th>Qty</th><th>Nomanciature</th><th>Fid</th><th>0</th><th>We</th></td<>		NSN	Qty	Nomanciature	Fid	0	We		
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5988-00-537-6386 1 Coupler, Directional CU-399/MPQ-4A 1-6 5 5840-00-543-0535 1 Mount, Telescope, Assembly 4-4 5840-00-543-0535 1 Reflector, Antenna AT-634/MPQ-4A 1-2 2.5 1240-00-583-0535 1 Reflector, Antenna AT-634/MPQ-4A 1-2 2.6 1240-00-583-0535 1 Telescope, Asimuth. M62A2P 1-1 4440-00-542-4159 1 Dehydrator, desiccant, Electric HD-264/MPQ-4A 1-2 20.62 5840-00-543-0538 1 Control-Indicator Group 0A-1256/MPQ-4A 1-2 26 5840-00-543-0544 1 Indicator, Arimuth and Range IP-375/MPQ-4A 1-2 25.78 5840-00-543-0545 1 Amplifier, Intermediate Frequency AM-1538/ 1-3 19.5 5840-00-543-0545 1 Amplifier, Intermediate Frequency AM-1538/ 1-3 10.68 5840-00-543-0545 1 Amplifier, Intermediate Frequency AM-1538/ 1-3 10.68 5840-00-543-0545 1 Amplifier, Intermediate Frequency AM-1538/ 1-2 24 5840-00-543-0542 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>76</td><td></td><td></td></td<>							76		
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5840-00-543-0536 1 Control-Power Supply C-2014/MPQ-4A 1-2 17.12 5840-00-543-0544 1 Indicator, Azimuth and Range IP-375/MPQ-4A 1-2 23.028 5840-00-543-0545 1 ReserverTransmitter Group 1-2 30.28 5840-00-543-0546 Amplifier, Intermediate Prequency AM-1538/ 1-3 19.5 5840-00-543-0546 Amplifier, Trigger Pulse AM-1537/MPQ-4A 1-4 18.62 5840-00-543-0542 Control, Raceiver C-2105/MPQ-4A 1-3 10.68 5840-00-543-0542 Control, Raceiver C-2105/MPQ-4A 1-3 6 5840-00-542-6253 1 Control, Raceiver C-2105/MPQ-4A 1-3 6 5840-00-542-6253 1 Power Supply PP-1588/MPQ-4A 1-2 24 530-00-542-6253 1 Power Supply PP-1588/MPQ-4A 1-8 51.5 5410-00-631-687 2 Support, Operator Stat MT-1798/MPQ-4A 1-8 51.5 5410-00-631-687 2 Stat, Guipment Operator 244 1-8 51.5 5410-00-631-687 2 Blower Assembly, Shelter Intake HD-339/MPQ-4A<		5840-00-543-0538	1	Control-Indicator Group OA-1256/MPQ-4A, including:	1-2	31.34	53.12	28.42	571
5840-00-543-0536 1 Control-Power Supply C-2014/MPQ-4A 1-2 17.12 5840-00-543-0544 1 Indicator, Azimuth and Range IP-375/MPQ-4A 1-2 23.28 5840-00-543-0545 1 Resiver-Transmitter Group 1-2 30.28 5840-00-543-0545 1 Amplifier, Trigger Puise AM-1537/MPQ-4A 1-4 18.62 5840-00-543-0546 Amplifier, Trigger Puise AM-1537/MPQ-4A 1-3 19.5 5840-00-543-0542 1 Control-Monitor C-2102/MPQ-4A 1-3 10.68 5840-00-543-0542 1 Control-Monitor C-2102/MPQ-4A 1-3 6 5840-00-543-0542 1 Control-Monitor C-2102/MPQ-4A 1-3 6 5840-00-542-6253 1 Duplexer CU-476/MPQ-4A 1-2 24 5840-00-614-5218 2 Seat, Equipment Operator 2-4 192 5840-00-631-6697 1 Stand. Control-Indicator MT-1733/MPQ-4A 1-8 15.1 5840-00-281-6131 1 Stand. Control-Indicator MT-1733/MPQ-4A 1-8 16 5910-0-631-6697 2 Blower Ass		5840-00-586-7738	1	Computer, Radar Data CP-319/MPQ-4A		26	20	12	120
5840-00-543-0544 1 Indicator, Azimuth and Range IP-375/MPQ-4A 1-2 25.78 5840-00-586-7739 1 Receiver Transmitter Group 1-2 30.28 0A-1257/MPQ-4A inchuding: 1-3 19.5 5840-00-543-0545 1 Amplifier, Intermediate Frequency AM-1538/ MPQ-4A 1-4 18.62 5840-00-543-0545 1 Control.Monitor C-2102/MPQ-4A 1-4 18.62 5840-00-543-0542 1 Control.Receiver C-2105/MPQ-4A 1-3 19.5 5840-00-543-0542 1 Control.Receiver C-2105/MPQ-4A 1-3 10.68 5840-00-543-0542 1 Control.Receiver C-2105/MPQ-4A 1-2 24 2330-00-709-5847 1 Duplexer CU-476/MPQ-4A 1-2 24 2330-00-709-5847 1 Chaasia, Trailer: 2 1/2 too, 2-wheal, M454 2-2 192 5840-00-614-5218 2 Sett, Equipment Operator 2-4 1-4 1-8 7.5 5410-00-591-4743 1 Stand, Control.Indicator MT-1738/MPQ-4A 1-8 15.1 5400-00-511-5697 2 Blower Assembly, Shelter Intake HD-339/MPQ-4A 1-8 15.3		5840-00-543-0536	1 1				16.6	24.34	111
5840-00-586-7739 1 Receiver Transmitter Group OA-1257/MPQ-4A including: Amplifier, Trigger Pulse AM-1537/MPQ-4A 1-2 30.28 5840-00-543-0545 1 Amplifier, Trigger Pulse AM-1537/MPQ-4A 1-3 19.5 5840-00-543-0546 Amplifier, Trigger Pulse AM-1537/MPQ-4A 1-4 18.62 5840-00-543-0546 Amplifier, Trigger Pulse AM-1537/MPQ-4A 1-4 18.62 5840-00-543-0542 Control, Receiver C-2105/MPQ-4A 1-3 10.68 5840-00-543-0542 Control, Receiver C-2105/MPQ-4A 1-3 9.5 5840-00-543-0542 Control, Receiver C-2105/MPQ-4A 1-2 24 230-00-709-5847 1 Duplexer CU-476/MPQ-4A 1-2 24 5840-00-542-6253 1 Power Supply PP-1588/MPQ-4A 1-8 1.5 5410-00-936-8720 1 Shetter, Electrical Equipment 5-134A/MPQ-4A 1-8 1.5 5410-00-281-5897 2 Blower Assembly, Shetter Intake HD-339/MPQ-4A 1-8 18 5120-00-514-6467 1 Reel, Cable RC-413/MPQ-4A 1-8 28 6120-00-514-6664 1 Cable Assembl		5840-00-543-0544					12.25	23.87	100
OA-1257/MPQ-4A including: 1-3 19.5 5840-00-543-0545 1 Amplifier, Intermediate Frequency AM-1538/ MPQ-4A 1-3 19.5 5840-00-543-0655 1 Control, Neceiver C-2102/MPQ-4A 1-4 18.62 5840-00-543-0655 1 Control, Receiver C-2016/MPQ-4A 1-3 10.68 5840-00-543-0651 1 Control, Receiver C-2016/MPQ-4A 1-3 10.68 5840-00-543-0542 1 Control, Receiver C-2016/MPQ-4A 1-3 9.5 5840-00-543-0551 1 Control, Receiver C-2016/MPQ-4A 1-2 24 2330-00-709-5847 1 Chassis, Trailer: 212-ton, 2-wheel, M454 2-2 192 5840-00-514-5218 2 Seat, Equipment Operator 2-4 1-8 51.5 5410-00-531-6897 2 Blower Assembly, Shelter Intake HD-339/MPQ-4A 1-8 15.1 5410-00-231-5897 2 Blower Assembly, Shelter Intake HD-339/MPQ-4A 1-8 15.1 5410-00-2321-6183 1 Reel, Cable RC-413/MPQ-4A 1-8 16.3 5410-00-2321-6183 1 <				Receiver. Transmitter Group			49.32	29.5	560
5840-00-543-0545 1 Amplifier, Intermediate Frequency AM-1638/ MDQ-4A 1-3 19.5 5840-00-543-0556 Amplifier, Trigger Pulse AM-1537/MPQ-4A 1-4 18.62 5840-00-543-0565 Control. Monitor C-2102/MPQ-4A 1-3 10.68 5840-00-543-0565 Control. Receiver C-2105/MPQ-4A 1-3 10.68 5840-00-543-0562 Control. Receiver C-2105/MPQ-4A 1-3 9.5 5840-00-543-0562 Control. Receiver C-2105/MPQ-4A 1-3 9.5 5840-00-542-6253 Power Supply PP-1588/MPQ-4A 1-2 24 2330-00-709-5847 Chaasia, Trailer: 2 1/2-ton, 2-wheal, M454 2-2 192 5840-00-614-5218 2 Sett, Equipment Operator 2-4 5840-00-581-5697 2 Shelter, Electrical Equipment S-134A/MPQ-4A 1-8 51.5b 5410-00-581-4743 1 Stand, Control. Indicator MT-1738/MPQ-4A 1-8 81.5c 5410-00-581-4743 1 Stand, Control. Indicator MT-1733/MPQ-4A 1-8 8.5c 5410-00-581-4743 1 Stand, Control. Indicator MT-1733/MPQ-4A 1-8 8.6c					1-6	30.60	49.32	29.0	900
MPQ-4A MPQ-4A 1-4 18.62 5840-00-543-0546 Amplifier, Trigger Pulse AM-1537/MPQ-4A 1-4 18.62 5840-00-543-0542 Control, Receiver C-2105/MPQ-4A 1-3 10.68 5840-00-543-0542 Control, Receiver C-2105/MPQ-4A 1-3 9.5 5840-00-543-0542 Control, Receiver C-2105/MPQ-4A 1-3 9.5 5840-00-542-6253 Duplexer CU-476/MPQ-4A 1-2 24 2330-00-709-5847 Chassis, Trailer 212-toc, 2wbeel, M454 2-2 192 5840-00-542-6253 Power Supply PP-1588/MPQ-4A 1-8 6 5840-00-614-5218 Seat, Equipment Operator's Seat MT-1798/MPQ-4A 1-8 1.5 5410-00-936-8720 Support, Operator's Seat MT-1733/MPQ-4A 1-8 15.1 5400-00-51-6431 Stand, Control-Indicator MT-1733/MPQ-4A 1-8 18 6120-00-281-8183 Reel, Cable RC-413/MPQ-4A 1-8 128 6120-00-542-6664 Cable Assembly, Special Purpose, CX-3898/U (W702) 2-14 5995-00-542-6257 Cable Assembly, Special Purpose, CX-3898/U (W703) 1-8 5995-00-542-6264 </td <td></td> <td>5840 00 548 OF4F</td> <td></td> <td></td> <td>1.00</td> <td>1.00</td> <td></td> <td></td> <td></td>		5840 00 548 OF4F			1.00	1.00			
S840-00-643-0656 Amplifier, Trigger Pulse AM-1537/MPQ-4A 1-4 18.62 S840-00-653-68255 Control, Roceiver C-2102/MPQ-4A 1-2 10.68 S840-00-643-0655 Control, Receiver C-2016/MPQ-4A 1-3 10.68 S840-00-543-0652 Control, Receiver C-2016/MPQ-4A 1-3 9.5 S840-00-543-0651 Control, Receiver C-2016/MPQ-4A 1-3 9.5 S840-00-543-0521 Duplexer CU-476/MPQ-4A 1-2 24 Chassis, Trailer: 212-ton, 2-wheel, M454 2-2 192 S840-00-614-5218 Support, Operator's Sast MT-1798/MPQ-4A 1-8 7.5 S410-00-391-6872 Support, Operator's Sast MT-1738/MPQ-4A 1-8 51.5 S410-00-591-6872 Support, Operator's Sast MT-1738/MPQ-4A 1-8 15.1 S400-00-691-4743 Stand, Control-Indicator MT-1733/MPQ-4A 1-8 15.1 S400-00-292-1109 Reel, Cable RC-413/MPQ-4A 1-8 18.7 S4030-00-292-1109 Reel, Cable RC-413/MPQ-4A 1-8 26 S130-00-292-1109 Reel, Cable RC-413/MPQ-4A 1-8 26 S130-00-29		2010-00-243-0545		Amplifier, intermediate Frequency AM-1638/	1-3	19.5	2.5	2.5	4
5840-00-557-6255 1 Control. Nacior C-2102/MPQ-4A 1-2 5840-00-543-0562 1 Control. Receiver C-2105/MPQ-4A 1-3 10.68 5840-00-543-0562 1 Control. Receiver C-2105/MPQ-4A 1-3 9.5 5840-00-543-0562 1 Control. Receiver C-2105/MPQ-4A 1-3 9.5 5840-00-542-6253 1 Duplexer CU-476/MPQ-4A 1-2 24 2300-00-709-5847 1 Dusamis, Trailier 12 12-toc. 2wheel, M454 2-2 192 5840-00-614-5218 2 Seat, Equipment Operator's Seat MT-1798/MPQ-4A 1-8 1.5.1 5410-00-936-8720 1 Shewer Assembly, Shelter Intake HD-339/MPQ-4A 1-8 15.1 5400-00-51-6431 1 Stand, Control-Indicator MT-1733/MPQ-4A 1-8 15.1 5400-00-51-6431 1 Stand, Control-Indicator MT-1733/MPQ-4A 1-8 12.8 640-00-5282-1019 1 Stand, Control-Indicator MT-1733/MPQ-4A 1-8 86 5120-00-542-6664 1 Cable Assembly, Special Purpose, CX-3898/U (W702) 2-14 5995-00-542-6257 1 Cable Assembly, Special Purpose, CX-3898/U (W703) 1-8		5940 00 542 0548	1 1						
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5840-00-543-0542 1 Control, Receiver C-2016/MPQ-4A 1-3 9.5 5840-00-543-0542 1 Duplexer CU-476/MPQ-4A 1-3 9.5 5840-00-542-6253 1 Dower Supply PD-1588/MPQ-4A 1-2 24 2330-00-709-5847 1 Chanais, Trailer: 2 1/2-ton, 2-wheal, M454 2-2 192 5840-00-614-5218 2 Seat, Equipment Operator 2-4 24 5840-00-631-5697 2 Stand, Control Indicator MT-1738/MPQ-4A 1-8 5.15 5410-00-531-5697 2 Blower Assembly, Shelter Intake HD-339/MPQ-4A 1-8 15.15 5410-00-521-4743 1 Stand, Control Indicator MT-1733/MPQ-4A 1-8 1-7 48.76 68130-00-229-1109 Reel, Cable RC-419/MPQ-4A 1-8 28 36 5120-00-614-6467 1 Wrench, Tee Handle (compartment catch release tool) 1-8 36 5995-00-542-6257 1 Cable Assembly, Special Purpose, CX-4103/U (W704, 2-14 5995-00-542-6248 1 Cable Assembly, Power, Electrical CX-3904/U (W704, 2-14 5995-00-542									
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5840-00-542-6253 1 Dower Supply PP-1589/MPQ-4A 1-2 24 2330-00-709-5847 1 Chassis, Trailer: 2172-ton, 2-wheel, M454 2-2 192 5840-00-614-5218 2 Seat, Equipment Operator 2-4 5840-00-614-5218 2 Support, Operator's Seat MT-1798/MPQ-4A 1-8 7.5 5410-00-936-8720 1 Shelter, Electrical Equipment S-1344/MPQ-4A 1-8 51.5% 5410-00-531-6897 2 Blower Assembly, Shelter Intake HD-339/MPQ-4A 1-8 15.1 5400-00-591-4743 1 Stand, Control-Indicator MT-1733/MPQ-4A 1-8 85.1 6130-00-282-1109 Reel, Cable RC-413/MPQ-4A 1-8 36 5120-00-614-6467 1 Wrench, Tee Handle (compartment catch release tool) 2-14 5995-00-542-6664 1 Cable Assembly, Special Purpose, CX-3898/U (W702) 2-14 5995-00-542-6257 1 Cable Assembly, Special Purpose, CX-3898/U (W703) 1-8 5995-00-542-6248 1 Cable Assembly, Power, Electrical CX-3904/U (W704, W705, W706, W707, and W741) 2-14 5995-00-578-6899 2 Cable Assembly, Power, Electrical CX-3902/U (W709) 2.14		5840-00-543-0542		Control, Receiver C-2016/MPQ-4A	1-3	9.5	5.38	5.1	4
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2330-00-709-5847 1 Chassis, Trailer: 2 1/2-toe, 2-wheel, M454 2-2 192 5840-00-614-5218 2 Seat, Equipment Operator 2-4 1-8 7.5 5840-00-614-5218 2 Support, Operator's Seat MT-1798/MPQ-4A 1-8 7.5 5410-00-395-8720 1 Shelter, Electrical Equipment S-134/MPQ-4A 1-8 51.5 5410-00-531-5697 2 Blower Assembly, Shelter Intake HD-339/MPQ-4A 1-8 51.5 5410-00-281-8183 1 Stand, Control-Indicator MT-1733/MPQ-4A 1-8 2.6 6130-00-281-8183 1 Reel, Cable RC-413/MPQ-4A 1-8 2.6 6130-00-282-1109 Reel, Cable RC-419/MPQ-4A 1-8 2.6 5120-00-614-6467 1 Wrench, Tee Handle (compartment catch release tool) 2-14 5995-00-542-6257 1 Cable Assembly, Special Purpose, CX-3898/U (W702) 2-14 5995-00-542-6257 1 Cable Assembly, Power, Electrical CX-3904/U (W704, 2-14 5995-00-542-6248 1 Cable Assembly, Power, Electrical CX-3904/U (W705, 2-14 5995-00-542-6251		5840-00-542-6253	1				8.3	14.1	46.5
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5840-574-7527 2 Support, Operator's Saat MT-1798/MPQ-4A 1-8 7.5 5410-00-936-8720 1 Shelter, Electrical Equipment S-134A/MPQ-4A 1-8 51.5 5410-00-531-5697 2 Blower Assembly, Shelter Intake HD-399/MPQ-4A 1-8 51.5 5400-00-591-4743 1 Stand, Control-Indicator MT-1733/MPQ-4A 1-8 15.1 5840-00-281-8183 1 Reel, Cable RC-413/MPQ-4A 1-8 28 8130-00-292-1109 Reel, Cable RC-413/MPQ-4A 1-8 36 5120-00-614-6467 1 Wrench, Tee Handle (compartment catch release tool) 2-14 5995-00-542-6664 1 Cable Assembly, Special Purpose, CX-3898/U (W702) 2-14 5995-00-542-6287 1 Cable Assembly, Special Purpose, CX-3898/U (W703) 1-8 5995-00-542-6248 1 Cable Assembly, Power, Electrical CX-3904/U (W704, W704, W708) 2-14 5995-00-578-6889 2 Cable Assembly, Radio Frequency CX-783A/U (W705, W706, W707, and W741) 2-14 5995-00-542-6251 1 Cable Assembly, Power, Electrical CX-3902/U (W709) 2 14 5995-00-542-6251 1 Cable Assembly, Power, Electrical CX-3905/U (W710) 2-		5840-00-614-5218	2	Sent Equinment Orienton		100	80	00.10	
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2007 122		0550-00-000-0150		Cable Assembly, Power, Electrical CA-4015/U (W /20)	2-14		4 ft		
5995-00-542-6413 1 Cable Assembly Power Electrical CX-4010/11(W721) 2-14		5005 00 542 6412			I		2 in lg		
5995-00-542-6413 1 Cable Assembly, Power, Electrical CX-4010/U (W721) 2-14		0330-00-042-0413	1 1	Cable Assembly, Power, Electrical CX-4010/U (W721)	2-14		2 ft		
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4 Change 4 Digitized by COO							8 in.lg		

Technical Manuals usually provide Dimensions and Weights Tables.

Although this TM didn't include a dimensional diagram of the radar, it did include many overall and detail photos with captions explaining the various components and equipment.

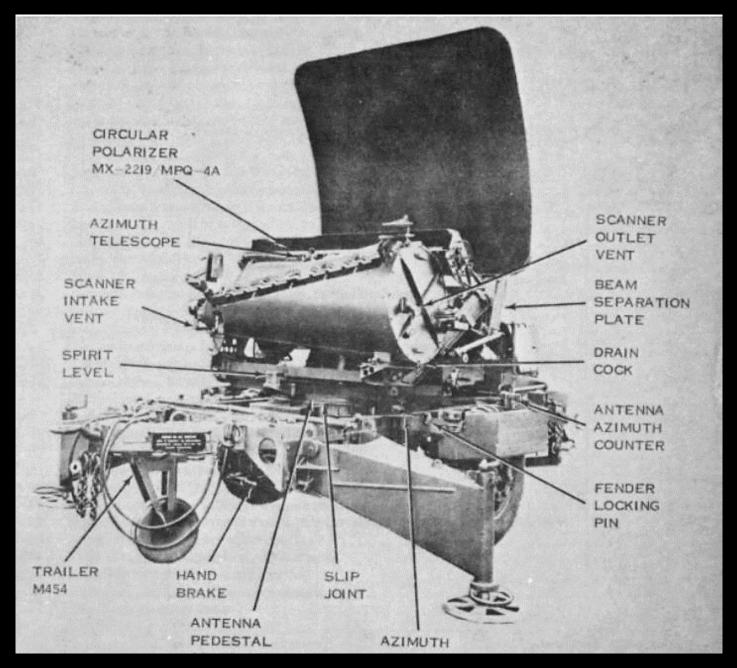
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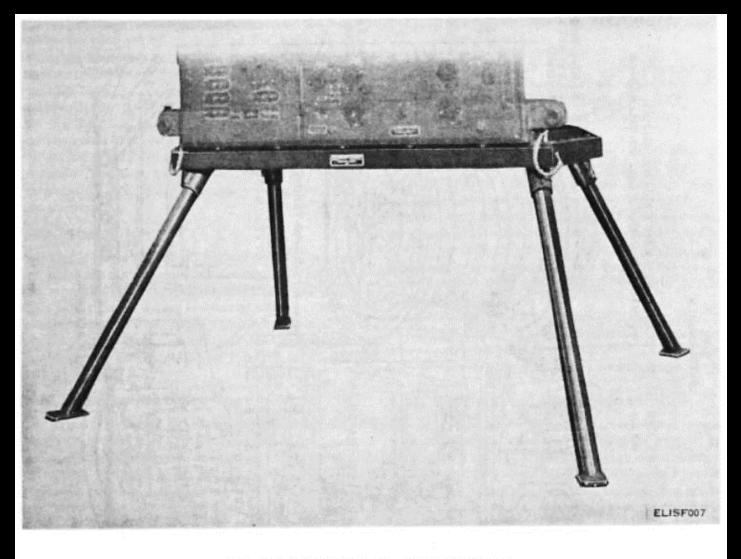


Figure 1-7. Control-Indicator Stand MT-1733/MPQ-4A.

The Control-Indicator Group Box could be dismounted and placed on a pedestal stand.

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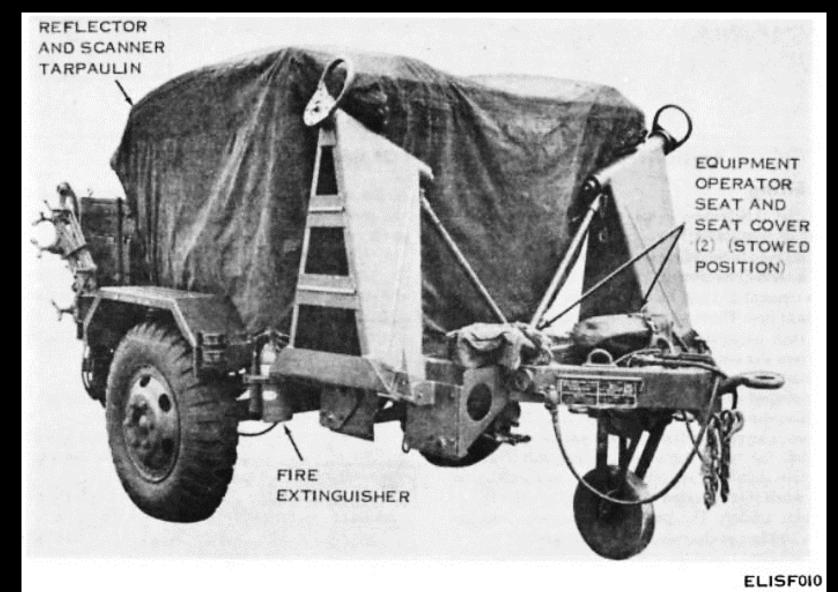


Figure 2-2. Radar Set AN/MPQ-4A, prepared for transit.

AN/MPQ-4A Counter Mortar Radar CONFEDERATE RELIC ROOM &

SOUTH CAROLINA

MILITARY MUSEUM

₩ s



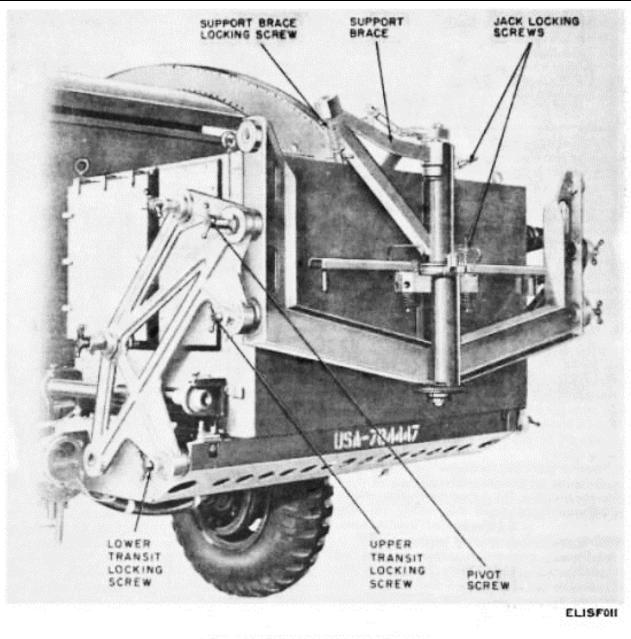


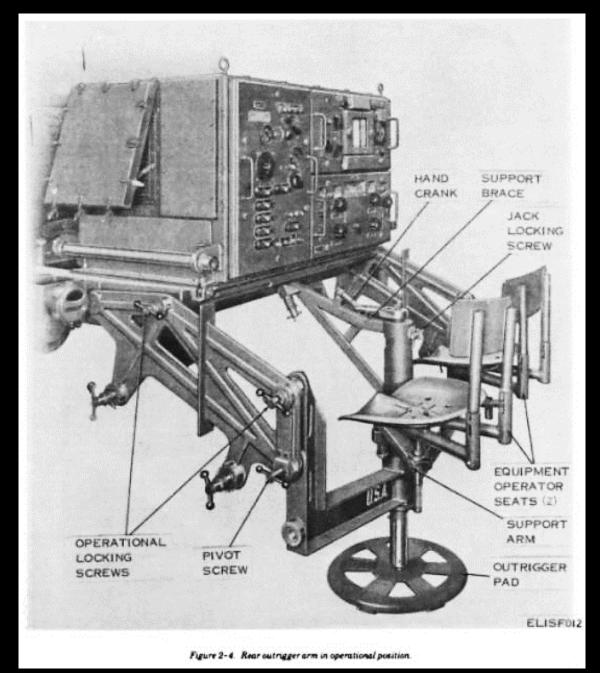
Figure 2-3. Rear outrigger arm in transit position.

AN/MPQ-4A Counter Mortar Radar CONFEDERATE RELIC ROOM & MILITARY MUSEUM

SOUTH CAROLINA

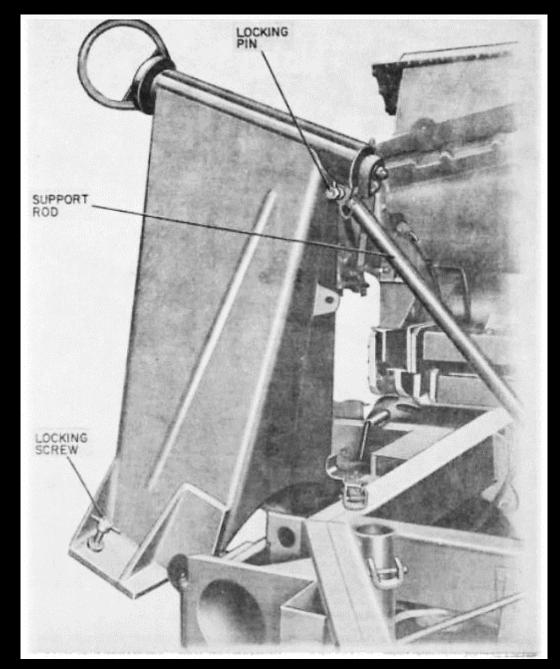
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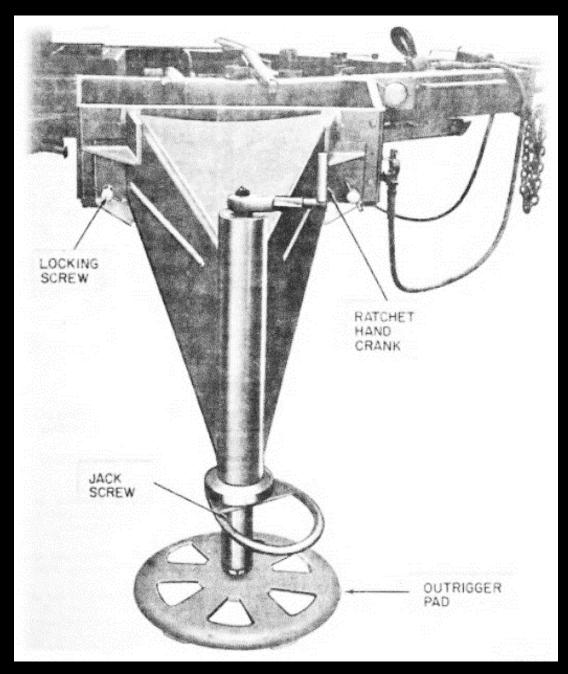




SOUTH CAROLINA CONFEDERATE RELIC ROOM & MILITARY MUSEUM

AN/MPQ-4A Counter Mortar Radar





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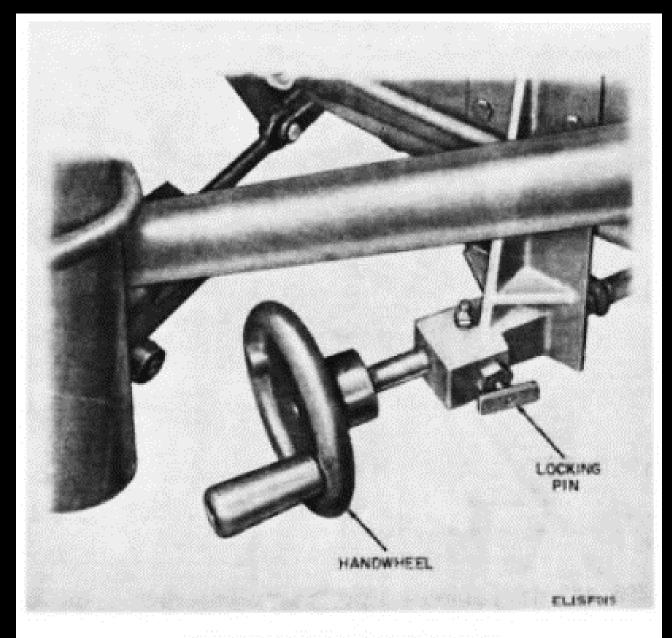


Figure 2-7. Azimuth handwheel and locking pin.

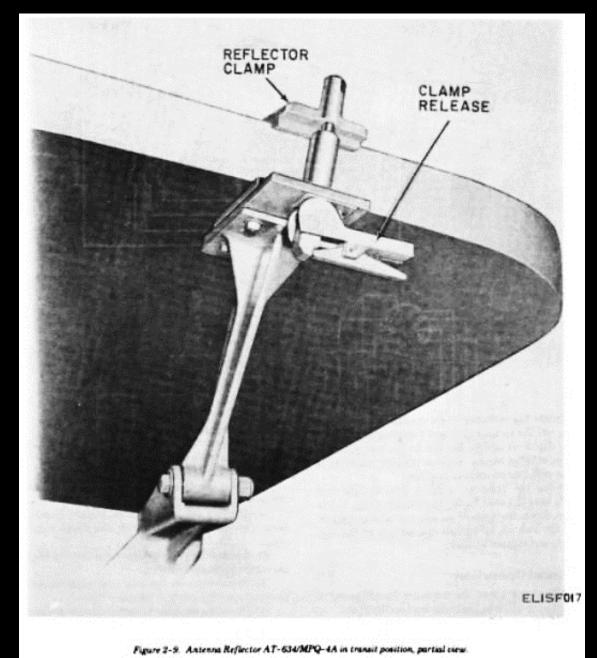
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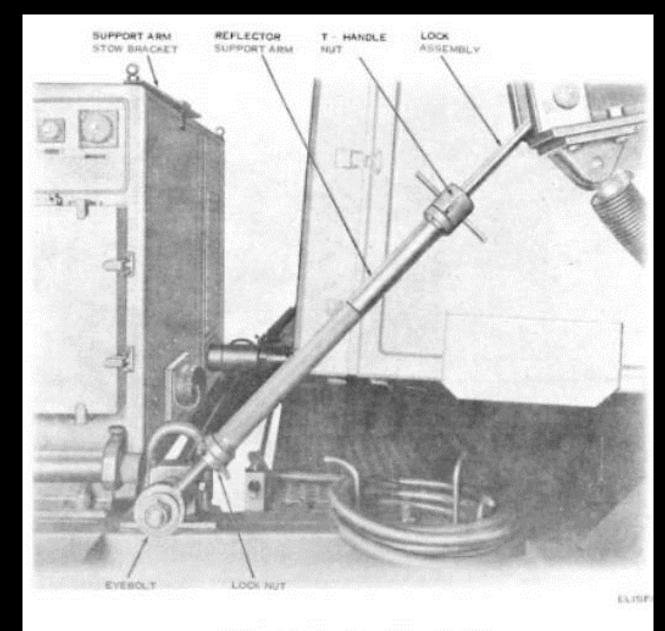


Figure 2-10. Reflector support arm in transit position.

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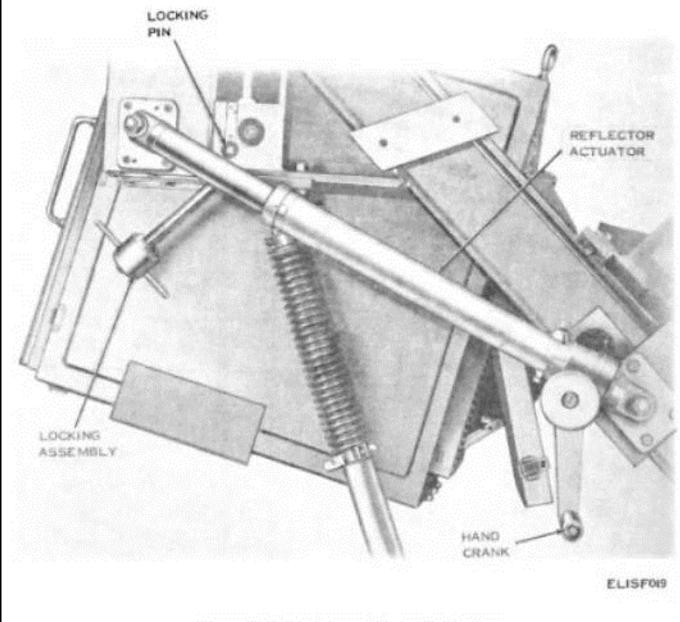


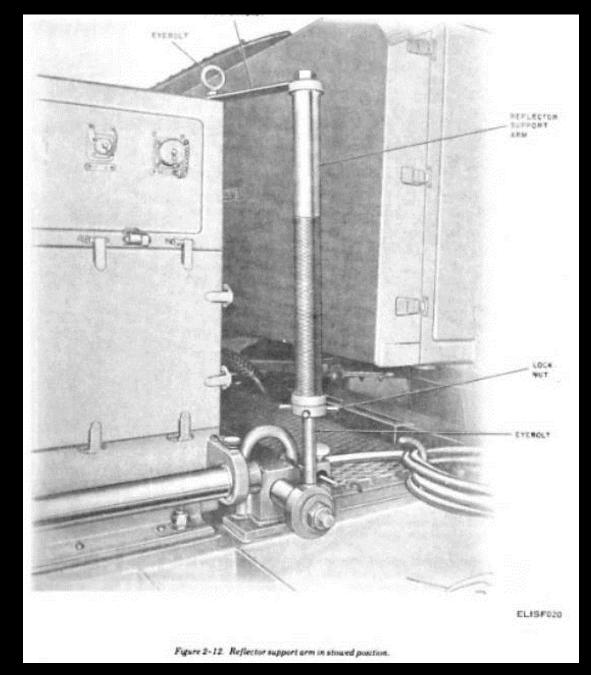
Figure 2-11. Reflector lock assembly and actuator handerank.

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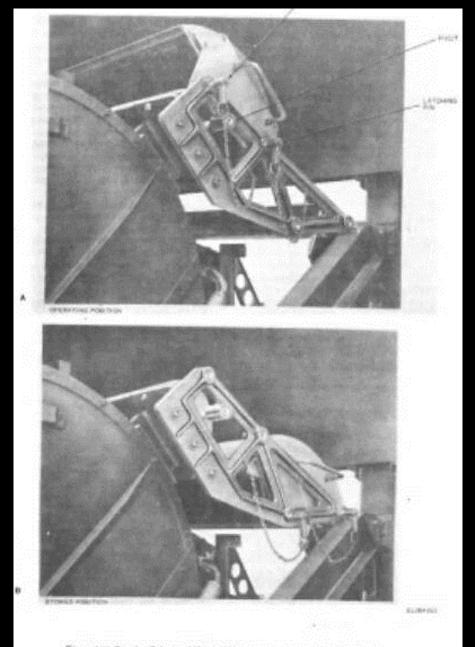


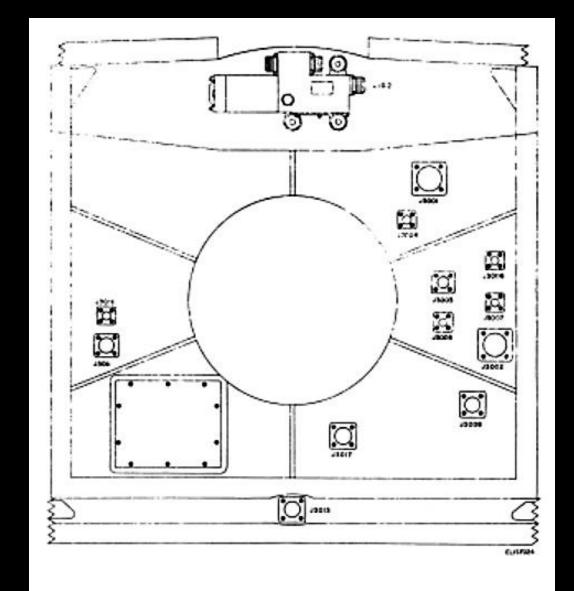
Figure 5-82 Circular Poloriser ME-8528MPQ-4A, operating and atoms positions.

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Nomencleture	Fig. No.	D	We		
NGIDENCLI (UTE		Depth	Width	Height	(16)
Antenna Group OA-1258/MPQ-4A, including:	1-2	66	90.53	66.5*	1,998
Antenna AS-835/MPQ-4A	1-2	34 od (large end)	66	15 od (small end)	1,109
Cavity, Tuned FR-111/MPQ-4A	1-5	4.5	5.66	9.61	10
Circular Polarizer MX-2219/MPQ-4A	1-1	15	76	13	39
Coupler, Directional CU-399/MPQ-4A	1-6	5	2.63	2.13	2
Mount, Telescope, Assembly	4-4				
Pedestal, Antenna AB-486/MPQ-4A	1-1	48	42	19.5	546
Reflector, Antenna AT-634/MPQ-4A	1-2	2.5	90.53	66.5	283
Telescope, Azimuth: M62A2F	1-1				
Dehydrator, desiccant, Electric HD-264/MPQ-4A or	1-2	20.62	13.75	10.19	46
HD-264A/MPQ-4A					
Control-Indicator Group OA-1256/MPQ-4A, including:	1-2	31.34	53.12	28.42	571
Computer, Radar Data CP-319/MPQ-4A	1-2	26	20	12	120
Control-Power Supply C-2014/MPQ-4A	1-2	17.12	16.6	24.34	111
Indicator, Azimuth and Range IP-375/MPQ-4A	1-2	25.78	12.25	23.87	100
Receiver-Transmitter Group	1-2	30.28	49.32	29.5	560
OA-1257/MPQ-4A including:			12498999244444444		
American Tel Pick The Able and					

Technical Manuals usually contain dimensional and weight data tables for the equipment they cover.

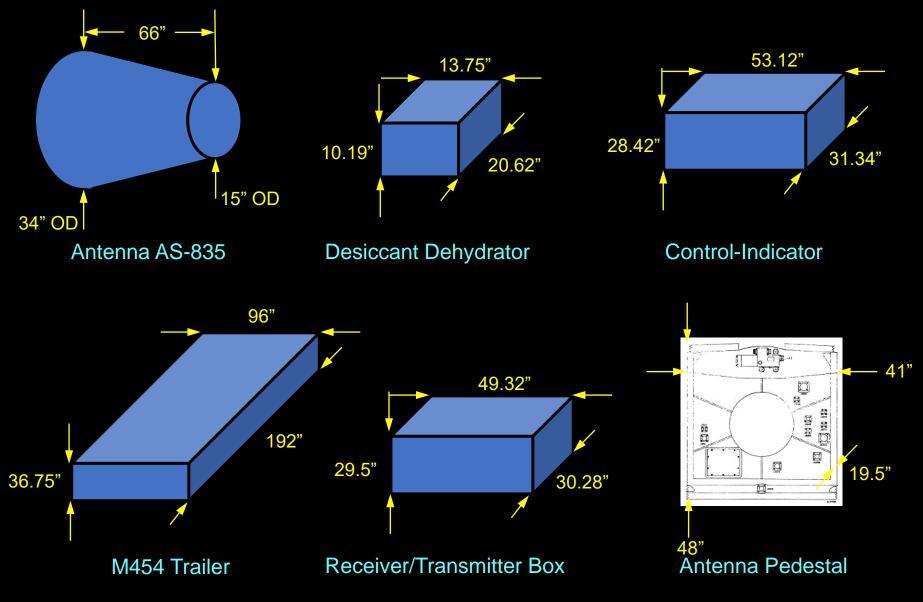
These dimensions were used to create scaled "shapes".

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The scaled "shapes" of the major radar components.



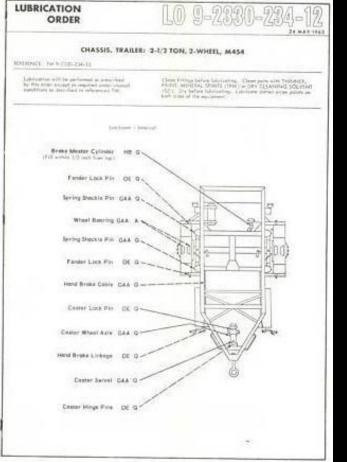


Norpepcleture	Fig. No.	D	We		
		Depth	Width	Height	(1)
Amplifier, Intermediate Frequency AM-1538/ MPQ-4A	1-3	19.5	2.5	2.5	4
Amplifier, Trigger Pulse AM-1537/MPQ-4A	1-4	18.62	5.22	8.30	13
Control-Monitor C-2102/MPQ-4A	1-2			100000000000000000000000000000000000000	
Control, Receiver C-2105/MPQ-4A	1-3	10.68	3.38	3.72	2
Control, Receiver C-2016/MPQ-4A	1-3	9.5	5.38	5.1	4
Duplexer CU-476/MPQ-4A	1-3	6	6.56	5	4
Power Supply PP-1588/MPQ-4A	1-2	24	8.3	14.1	46.5
Chassis, Trailer: 2 1/2-ton, 2-wheel, M454	2-2	192	96	36.75	1.858
Seat, Equipment Operator	2-4				
Support, Operator's Seat MT-1798/MPQ-4A	1-8	7.5	7.5	20.5	12
Shelter, Electrical Equipment S-134A/MPQ-4A	1-8	51.50	416	136	175
Blower Assembly, Shelter Intake HD-339/MPQ-4A	1-8	15.1	11.62	11.62	20
Stand, Control-Indicator MT-1733/MPQ-4A	1-7	48.76	24.5	7.75¢	15
Real Calls DC 4100400 44	1.0				

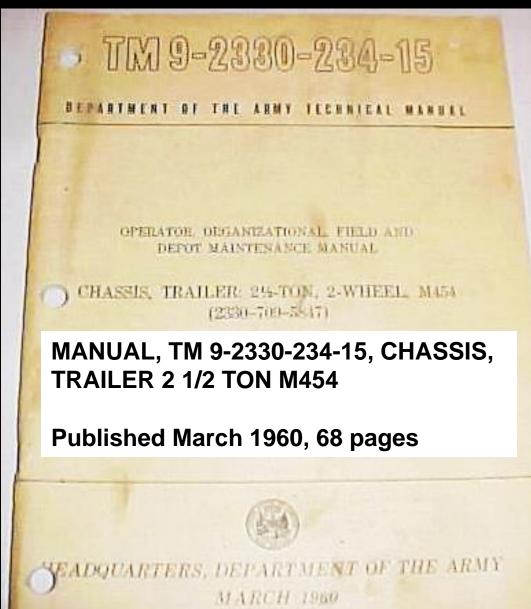
The Trailer Dimensions give the overall Length and Width of the Radar, and the height to the top of fenders (maybe).

The Trailer description (M454) also gives information for finding a TM for it.





The <u>only</u> copy I found on the web was only available for purchase.



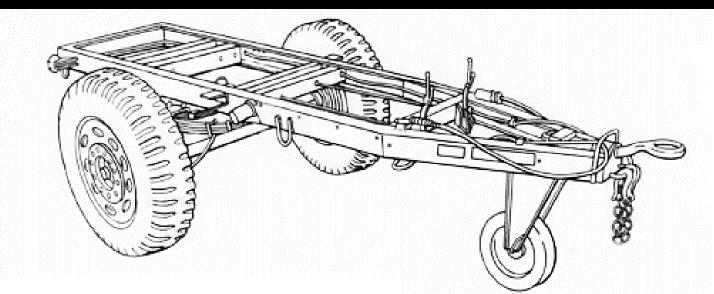




The Tires used on US Army 2-1/2 ton Trucks and Trailers were usually the same size.

Without the M454 Trailer TM's dimensions, the tire diameter will allow scaling of photos of the AN/MPQ-4 Radar trailer.





Characteristics of the Chassis, Trailer, 1 1/2 Ton, Two Wheel, M103

Net weight	1,660 lbs
Max gross <u>wt</u>	5,750 lbs
Total length	163.25 in (1/72: 2.267361")
Total width	82.25 in (1/72: 1.142361")
Lunette height	34.25 in (1/72: 0.475694")
Ground clearance	16.125 in (1/72: 0.223958")
Height to top of tire	40 in (1/72: 0.5555556")

The manual for the M103 trailer chassis is TM 9-8226 (April 1955) which covers all the 1 1/2 ton two wheel trailers of the time. TM 9-8226 was replaced by TM 9-2330-213-14&P. The October 1990 version supersedes TM 9-2330-213-14&P dated 30 September 1985.

I did find a TM for the M103 Trailer that, although smaller, seemed to use similar components to the M454, such as the Lunet, Hitch Support, Manual Brake Handles, and some Suspension Components.







Fortunately, while searching the internet for information, I found the following pictures of a stored AN/MPQ-4 Radar. Unfortunately, unknown location & source.

This included an overall sideview that I could use to create a scale drawing.













































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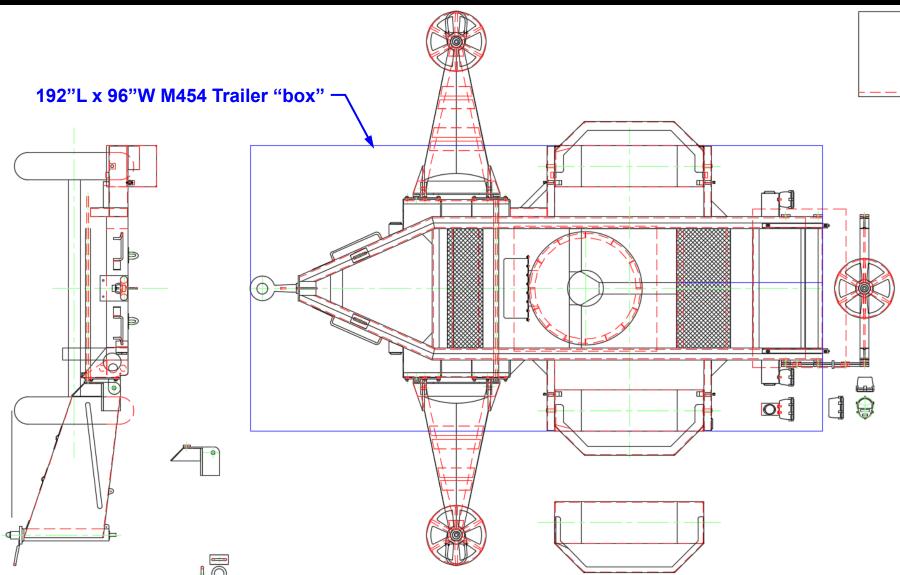


I used this overall sideview to help create the full-scale working drawing.

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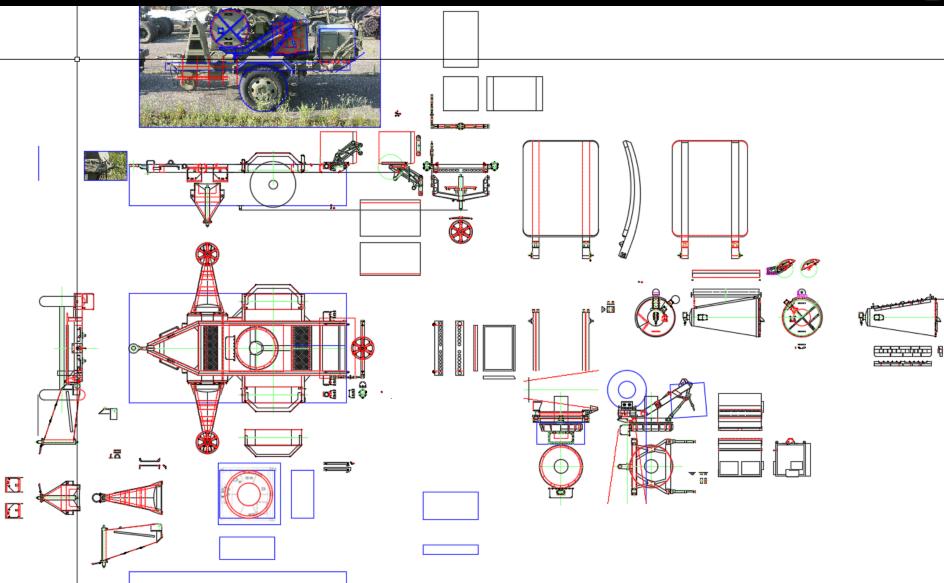




As I worked on the scale drawing, I inserted boxes sized for the TM Dimensions to help ensure that each major component didn't "grow" larger than it should.

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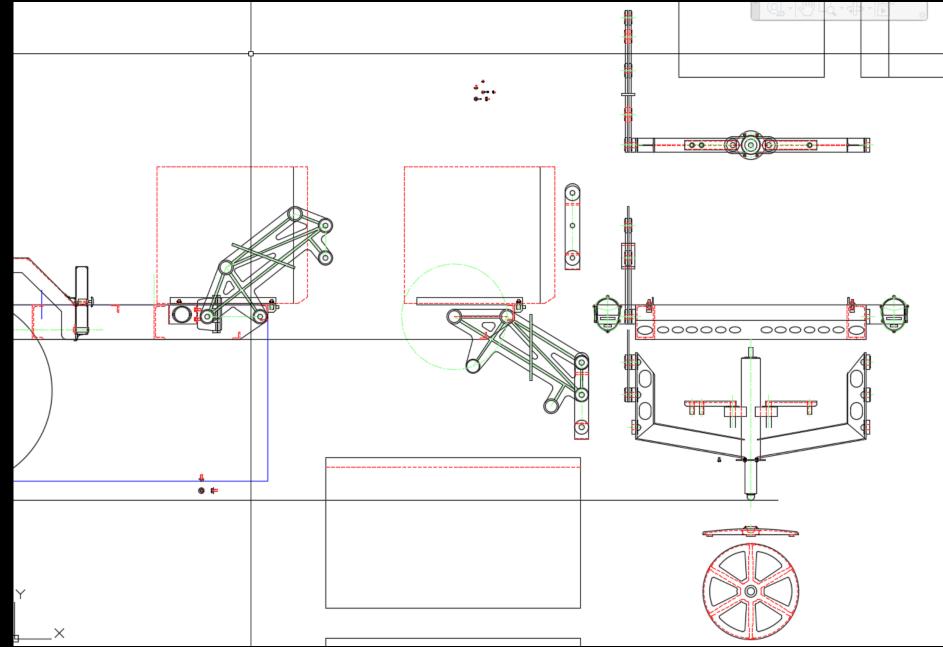


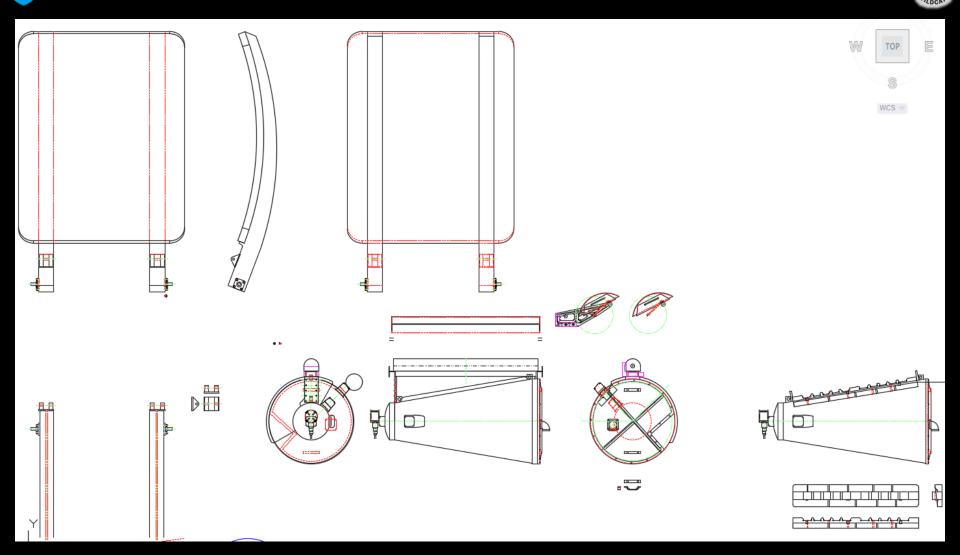
Once I created the trailer Frame, I was able to work out dimensions and configurations of other parts.



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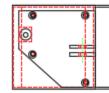




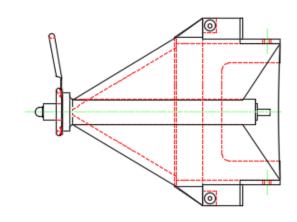


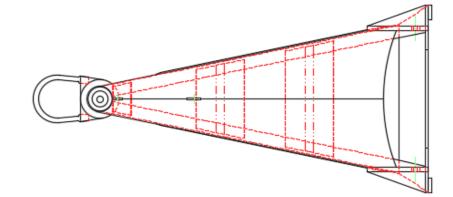
Even though the TM provided overall dimensions for the major components, it wasn't clear what exactly was included in the dimensions.

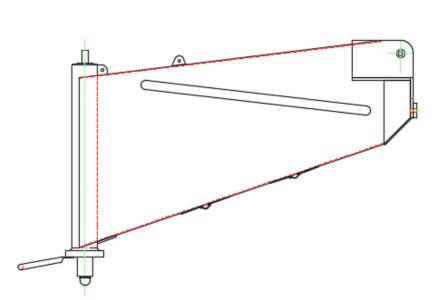




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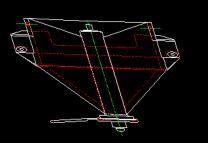




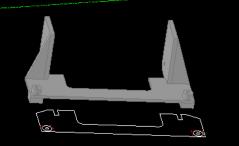
After finishing 3-view drawings of each major part, I could then create 3D shape files for each.

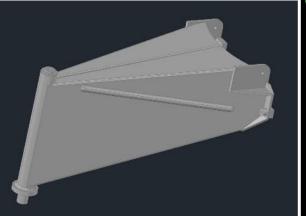
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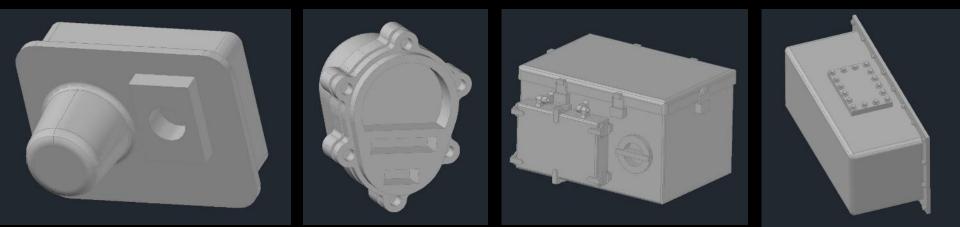


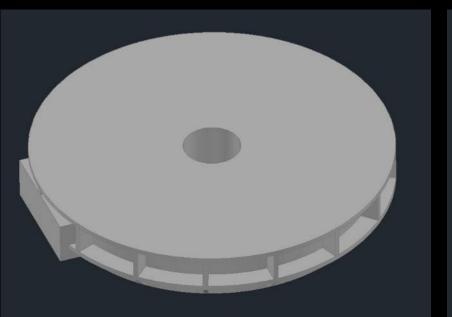


Each 3D shape file was created with subparts that were then combined into a single shape.

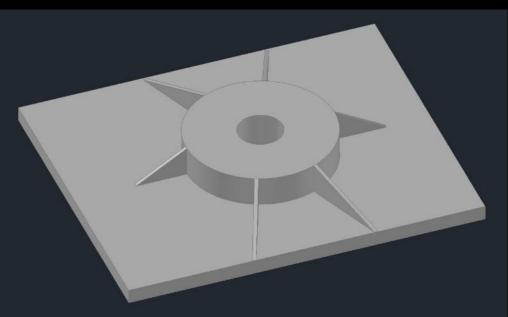




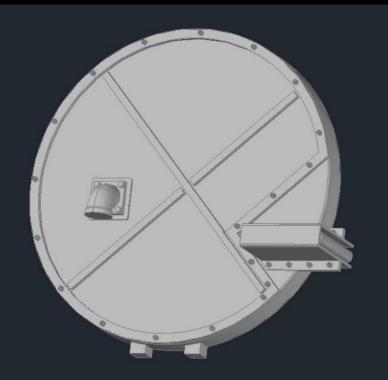




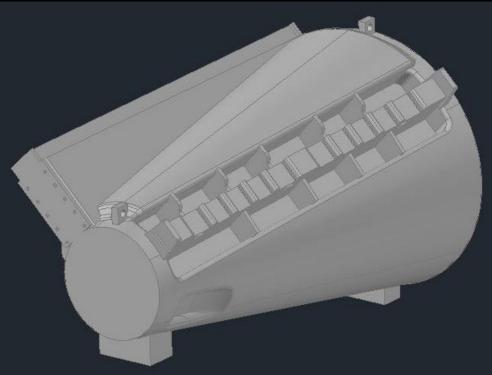
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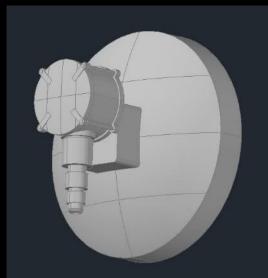






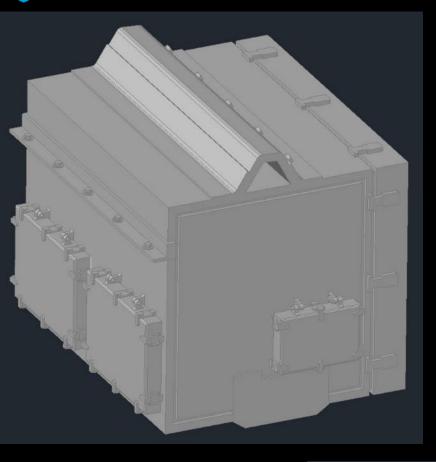
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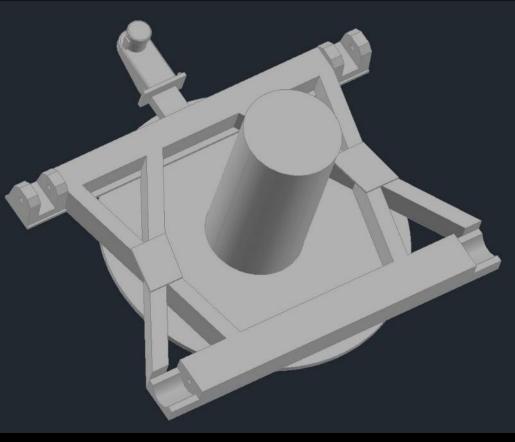


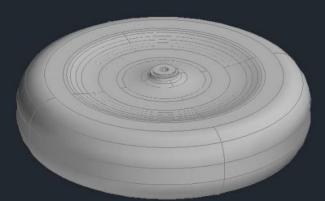






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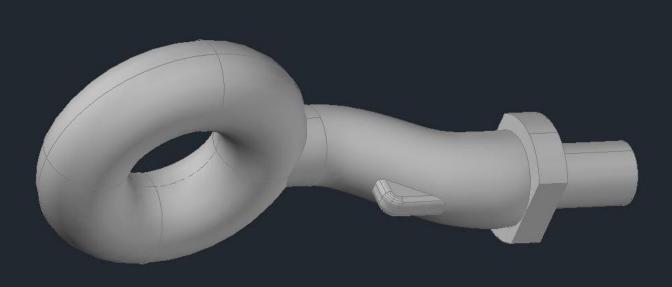








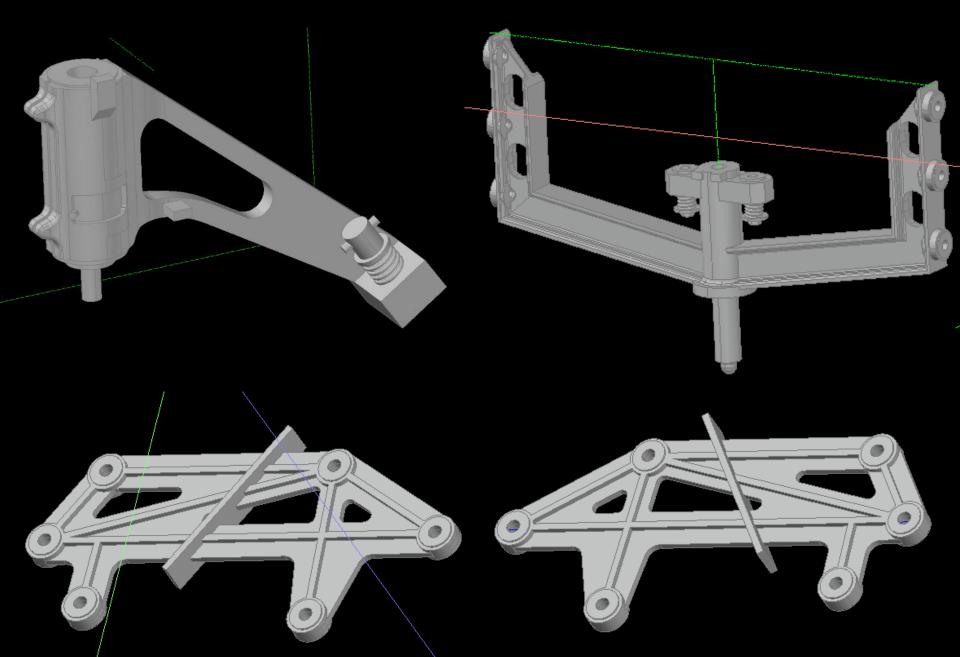
For some parts I was able to compare the look of the shape part to real photos.





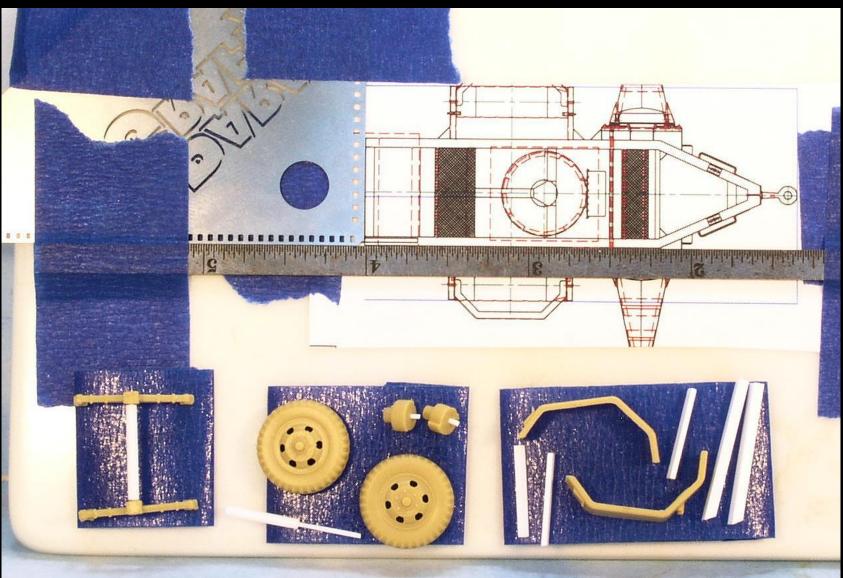
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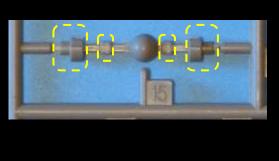


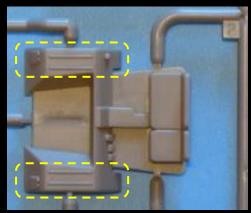
Five parts came from a styrene injected model kit.

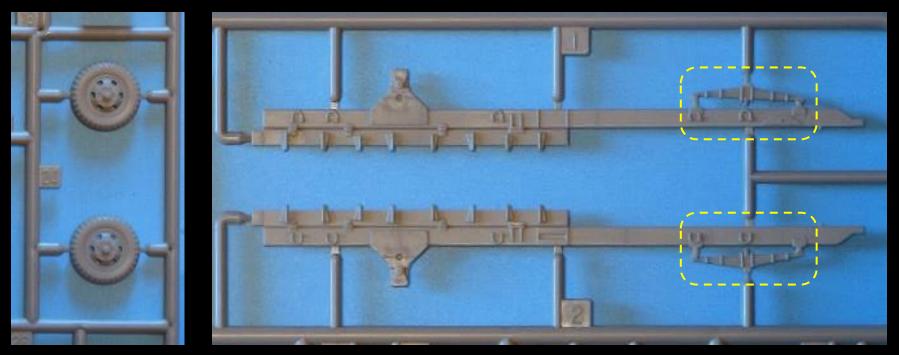












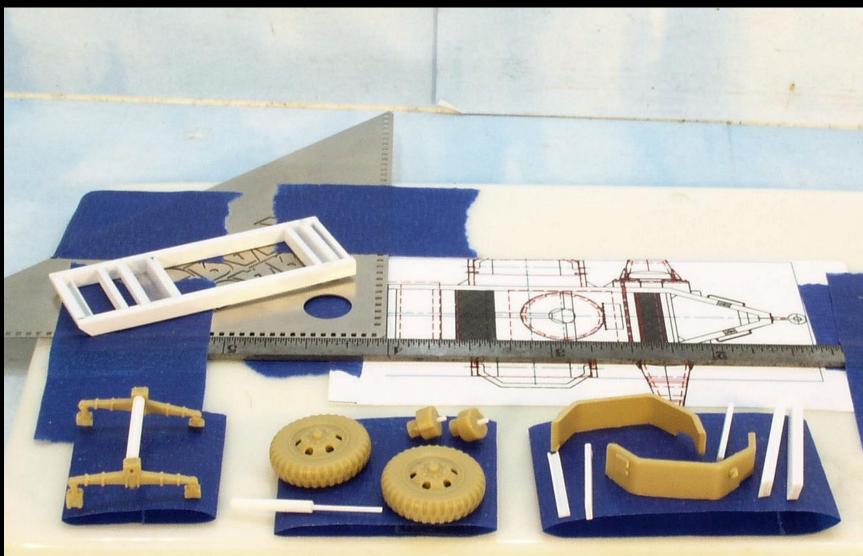
2 Front Wheels, Front Leaf Springs from the Frames, and parts of the Front Axel. I also cut the Front Fenders off to use them, but later decided against them.



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AN/MPQ-4A Counter Mortar Radar





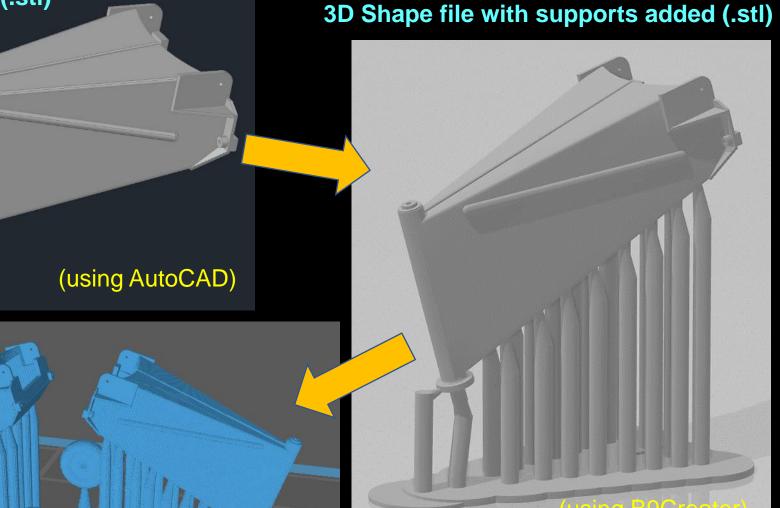
The Trailer Frame was made using a 1/72 scale printed drawing and styrene structural shapes & sheet.





3D Shape file (.stl)

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Multiple 3D Shape files with supports combined (.photon)

(using CHITUBOX)



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Some of the 3D printed parts still attached to their supports and bases.



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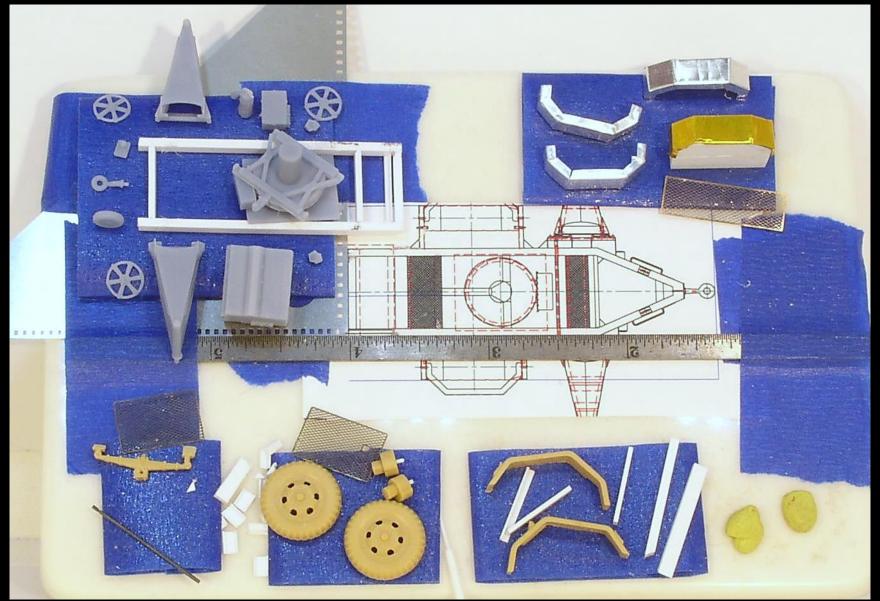


More progress. I made a second, more accurate Trailer Frame.



AN/MPQ-4A Counter Mortar Radar

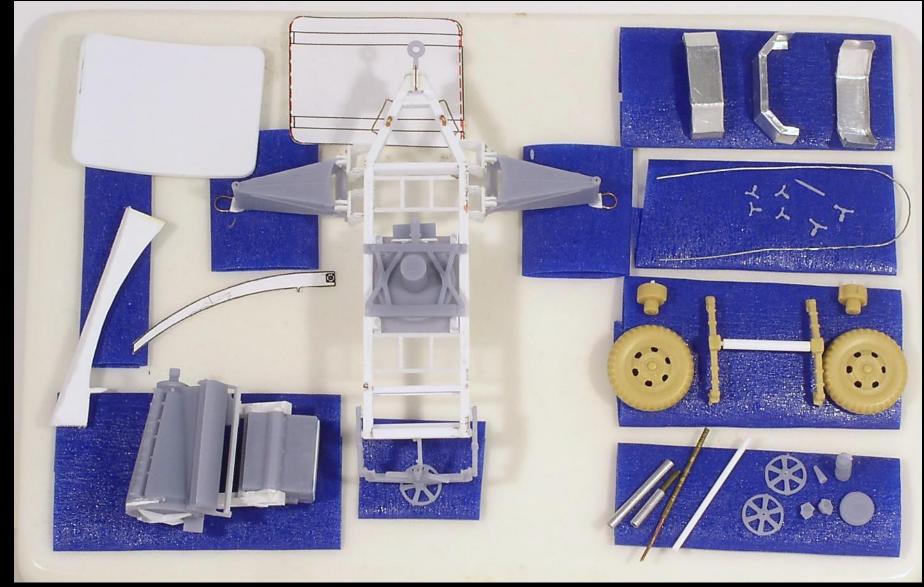




Arranging some of the major parts. Fenders made from Heavy Foil.

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Most of the Trailer assembled along with the Antenna & Receiver/Transmitter.









During diorama construction, I needed to test the placement of the Radar.



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Besides testing its location, I also added a couple figures to the diorama.







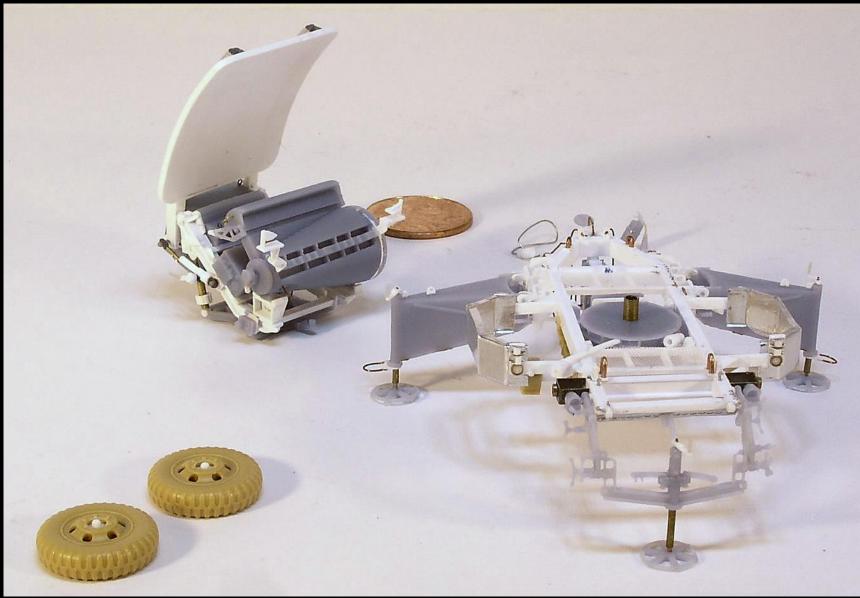
Can you see the white and gray spec?



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AN/MPQ-4A Counter Mortar Radar



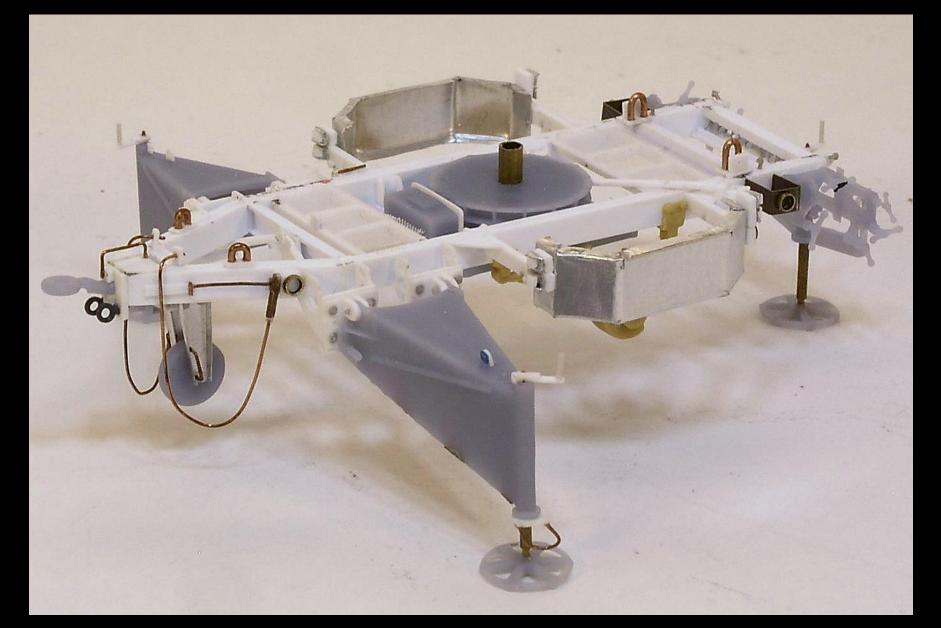


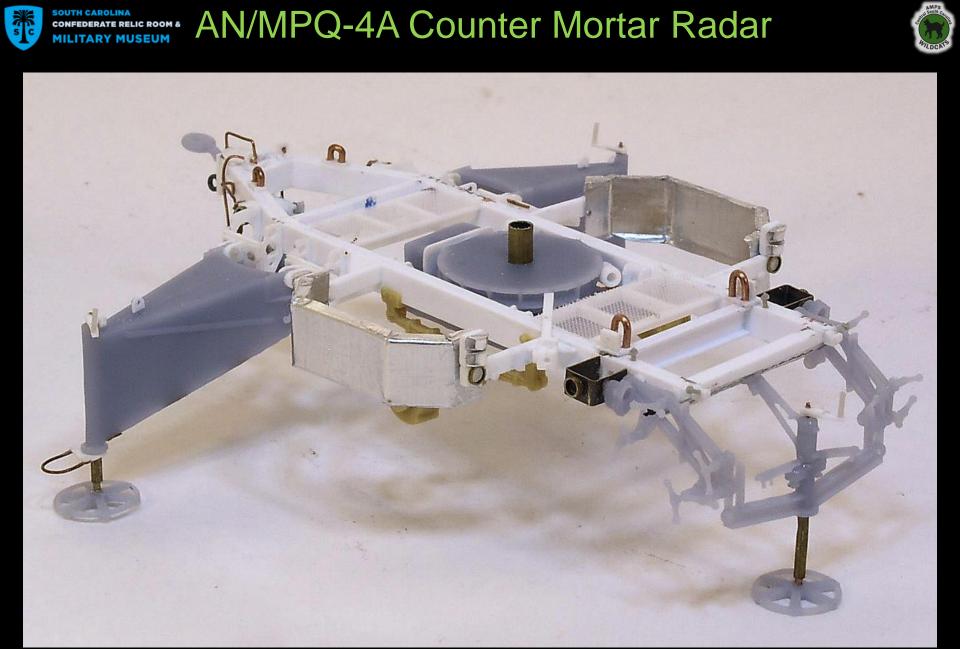
All of the details have been added, and the radar is ready for paint.



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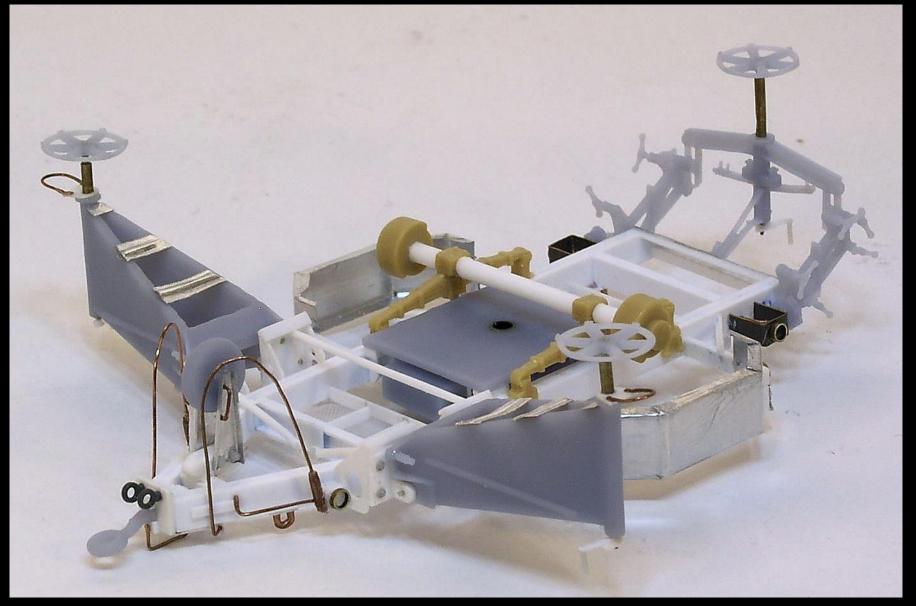






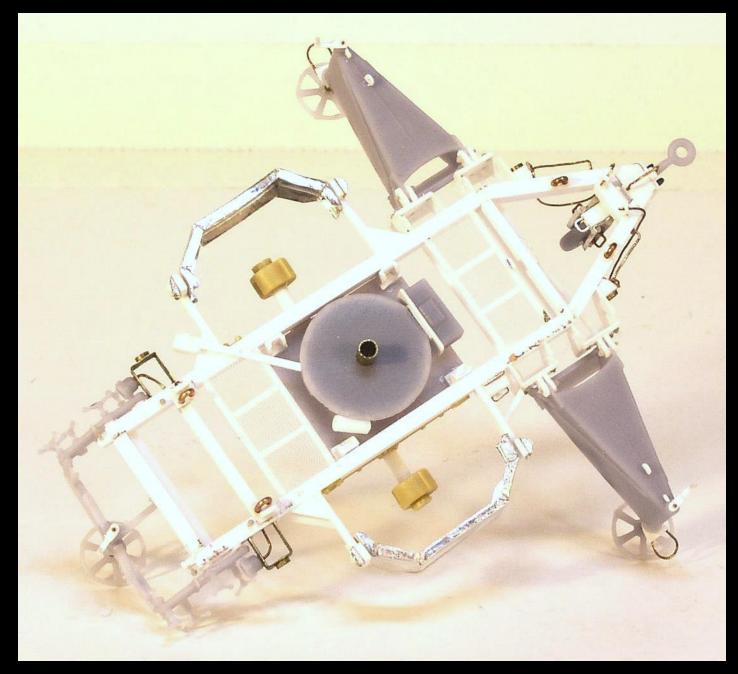
AN/MPQ-4A Counter Mortar Radar





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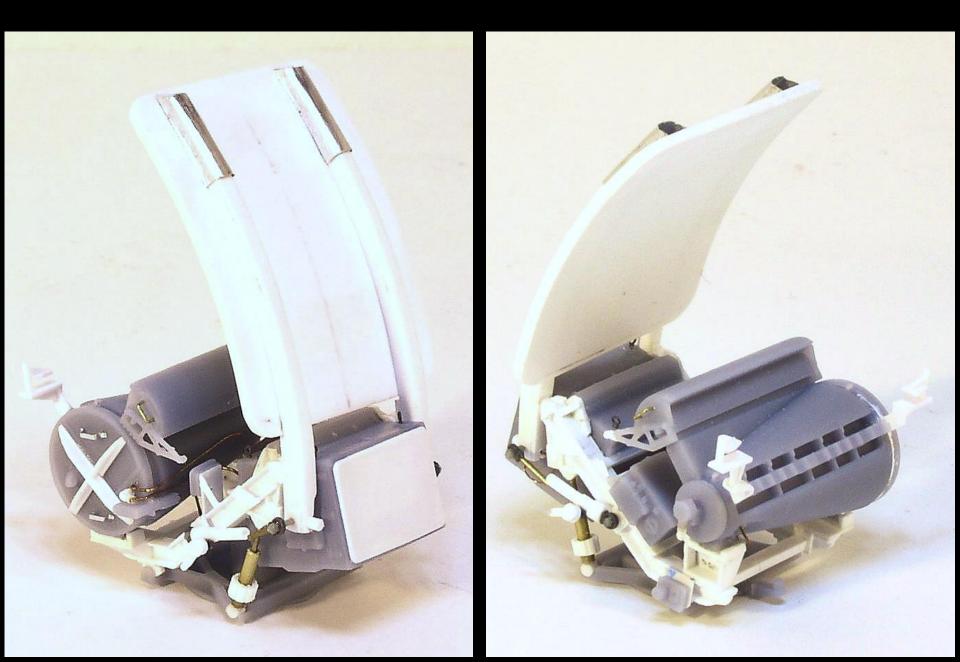






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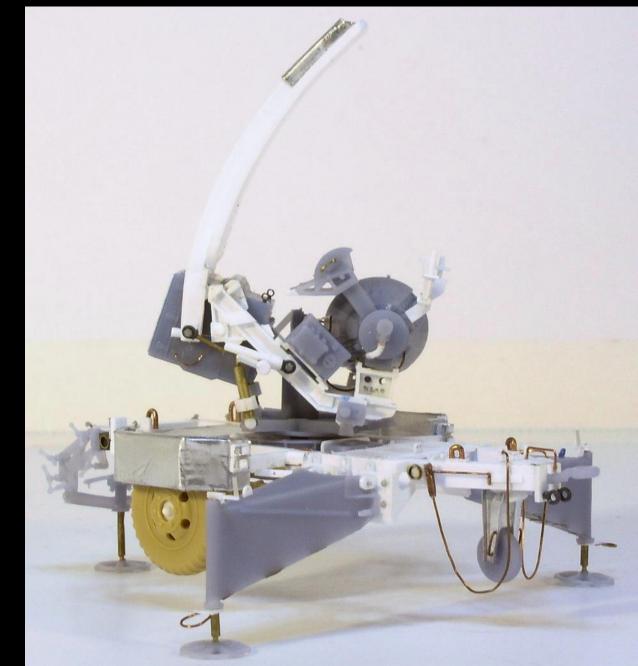
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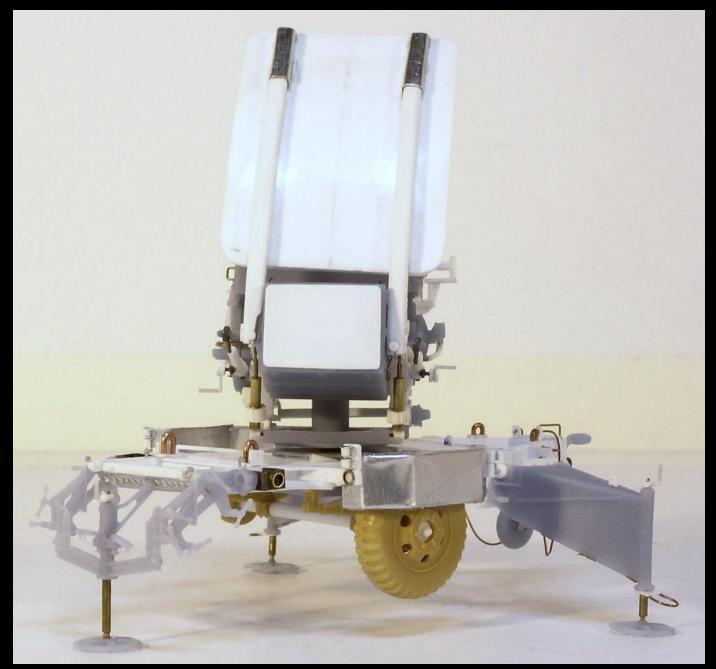


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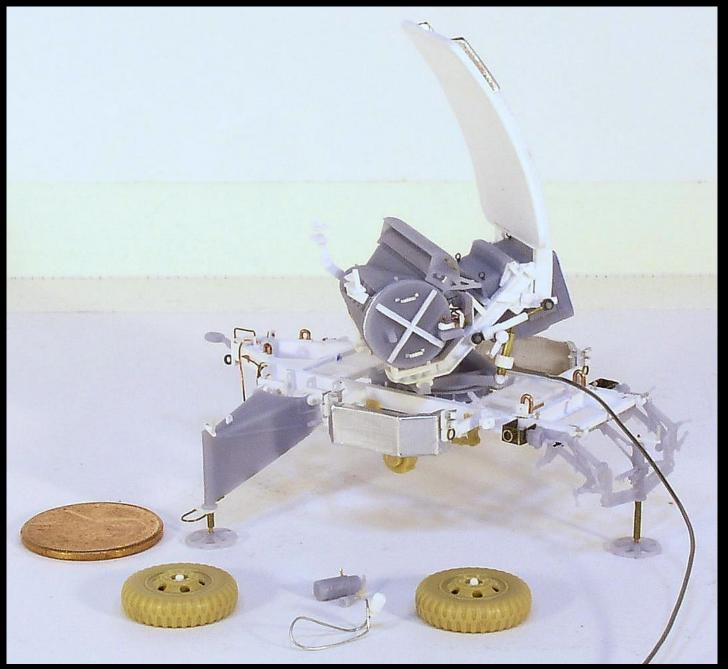




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AN/MPQ-4A Counter Mortar Radar

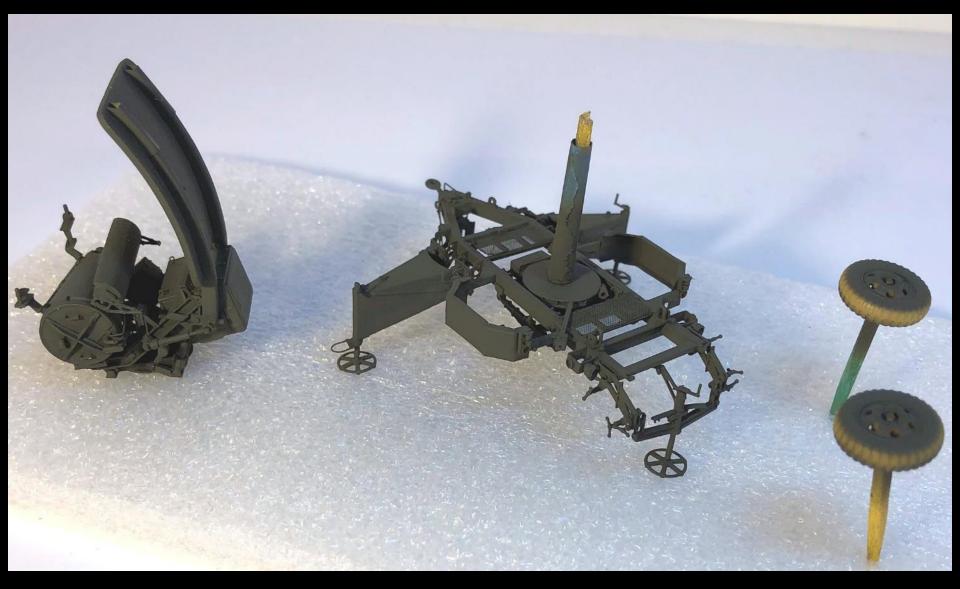






AN/MPQ-4A Counter Mortar Radar





Painted with Tamiya flat Olive Drab (OD) acrylic paint.





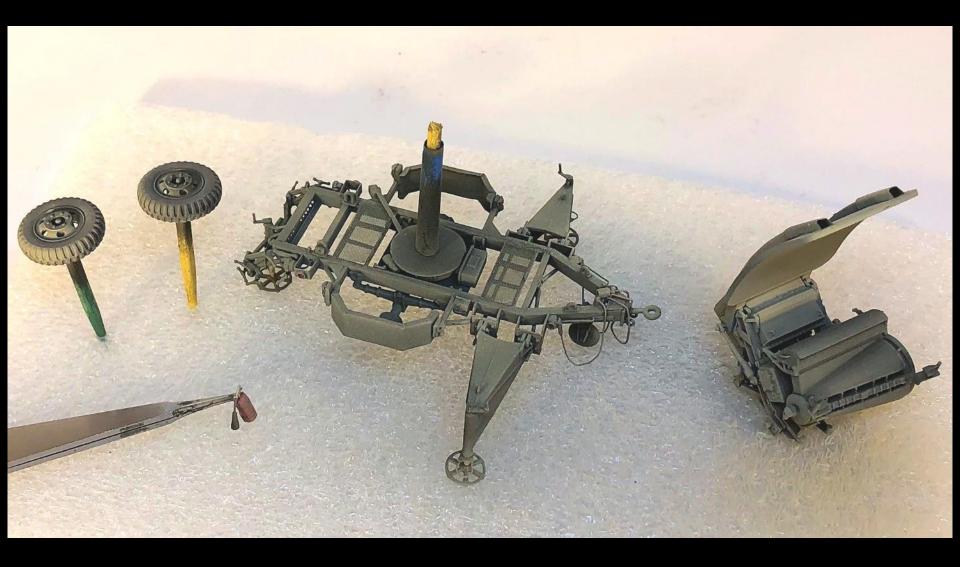


Detail paint added along with a mist of lightened Tamiya flat Olive Drab (OD) acrylic paint.



AN/MPQ-4A Counter Mortar Radar

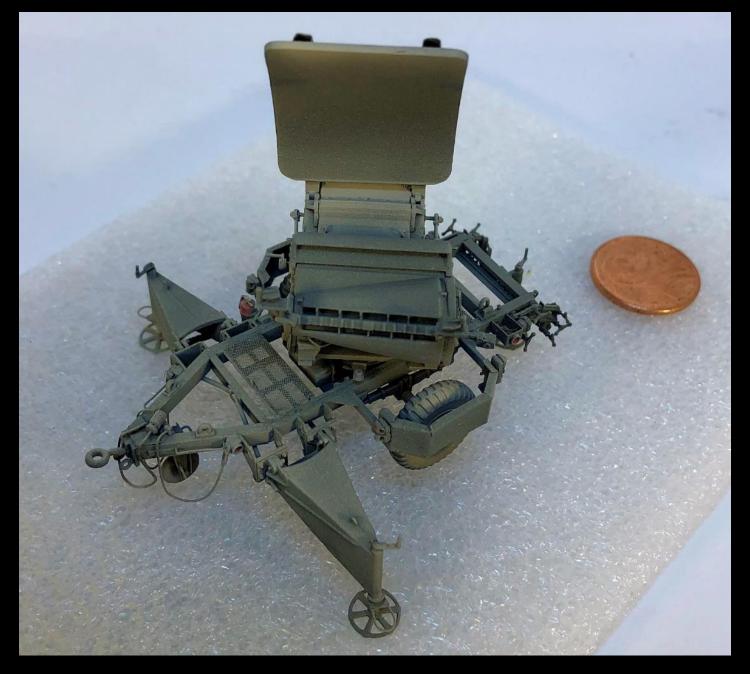




Tamiya flat Khaki acrylic paint sprayed onto the upper surfaces to replicate dust.

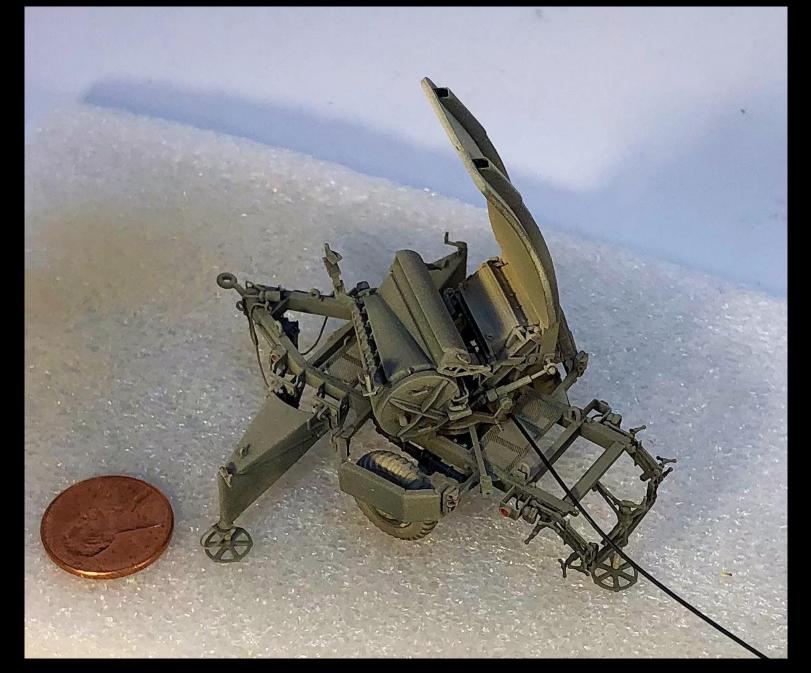






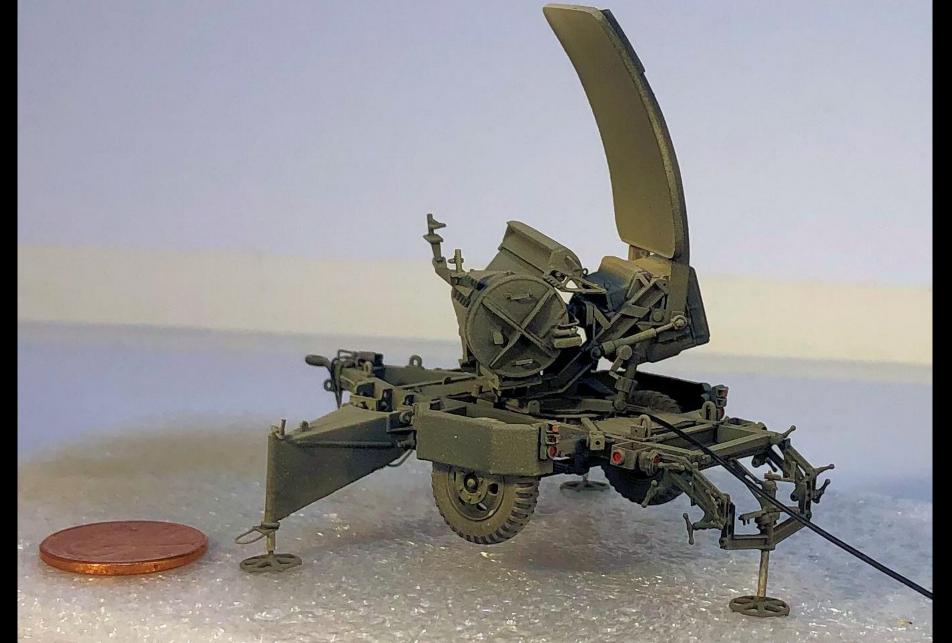


















Scaffold placed over the diorama for placing the Radar and other final details.

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Gluing the Radar onto the top of the mountain.



The Radar glued in place with a painted lead wire added to the Control Bunker.



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Any Questions?

