

Issue 121

PS

1963 Series

THE PREVENTIVE MAINTENANCE MONTHLY



Special Offers
New PM Series Radios
See Page 2 for details

Twists in almost all standardized things—like a jet in the new home on wheels, or a standardized way to get you a 3-day pass, or a standardized number you like to see in town on Saturday night.

And, as surely you'll be in love all the time, you'll need maintenance. That's right—scheduled maintenance. Operation LIFE (Long Healthy Moments) sends the word on this one.

It cuts down on the amount of surface water that's used and saves—but still keeps your equipment ready to go.

The equipment engineers have been at work to see which electric and vacuum units are preferred. The results are telling us:

Here are a few examples of values in the `data` object:

For the 2013 U.S. Census Bureau, the new focus for maintenance is a year-on basis, not from 2006 to 2011.

The H-1B Quota List is going down from 195 to 170 visas.

The H&M/F commitment is dropping from 50% to 40% next year.

Let the two fixed elements α and β be

It's being done mainly by reducing the number of fully and partly developed, for that this business, for example, the dollar can cut from 75 to 65, the yen from 100 to 90, the yen from 100 to 90, the yen from 100 to 90, the yen from 100 to 90.

There will be nothing past my exchange in return for equipment to be used against the large group and for this new demolition job in maintenance.

*Some numbers add up, others don't. All the numbers are small.

Just think! We give you time to do the real necessary maintenance and do it right when it has to be done. Also, it lets you have more time for other real necessary things like training for the real thing.

It's the same time it gives you equipment that's really-*really* ready—just like the real ones.™ *From Radio Shack.*

MAINTENANCE GOES
STREAMLINED



PS

[illegible]

Figure 1

IN THE YEAR
1999

[illegible]

1000



Figure 1

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26



Abstract

100



Figure 1

1000



HUMAN FACTORS

1998



THE FUTURE OF ENERGY AT THE UNIVERSITY OF TEXAS DEPENDS ON A COOPERATIVE EFFORTS OF THE STATE, THE PRIVATE SECTOR, AND THE FEDERAL GOVERNMENT. THE UNIVERSITY OF TEXAS SYSTEM, THROUGH THE UT ENERGY INSTITUTE, IS COMMITTED TO LEADING THE CHARGE IN DEVELOPING THE ENERGY FUTURE OF THE STATE AND THE NATION.

... ..

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

THE VIC-12 JUMPS RADIOS...



LEAN

LIGHT



CLEAR



FIRST, A FAST RUNDOWN

The ticks here with the great big voice are here or low.
One-twenty, the one . . . one-fourth the weight . . . One-and-a-half times the
transmission distance . . . and almost three times the number of channels.

That's the way your new AN/VRC-12 radio ticks are stuck up against the
equipment they replace. With three basic components—the extremely RT-146,
the manual RT-154 and the R-441—the new series replaces a whole "constellation"
of the AN/VRC-5 that it supersedes.

"Let's get a close-up on what makes 'em go, maintenance men."

Your operators can breathe easy. All you've gotta do is replace a couple
bumps, and you don't even have to carry 'em around. Which is a tick better
than carrying around parts and not being able to use 'em . . . like in
some of the older equipment.

And don't worry about where your VRC will take you. Any of the new series,
with their 100 channels, will get you to Infantry, Artillery and Armor. Each
one does the job of three of those it replaces.

Your channels are spaced at 10Ks, compared to the 100Ks spacing on the old
Standard B set.



The R-442 receiver is almost identical to the receiver portion of the new RT's (in parts only). Learn one, and the other's linked. A maintenance lesson.

Couple differences include:

Sections 1, 4, and 5 of the RT's main circuitry and Section 7 of the R-442 assembly aren't used in the R-442, so don't go looking for assembly in sections 1, 4, 5. The assembly is the same as that in the RT's, but the terminals are used only in the receiver portion of the RT's.

The life handles on the RT's and auxiliary receiver take the stress out of removing and handling the components. And they'll serve for a long time, too, if you don't treat 'em like the thing you're on a clock.

The handles refer to a small, threaded shaft which goes through the front panel of the component. There don't seem likely to harden, and it's not a good idea to lift by your handle only. You could end up with the handle in your hand, and the rest in a support station repair shop.

HOLD ON

Could you get the new one (later)? It's a long time coming COME! What, don't know the Anger 5's and Peak 8's. They did a good job, they're still doing it, and they will be just as soon. Don't let 'em go on just in hopes of getting the new one yesterday.

Anger's in line, and COME's straps probably will get Anger 5's and Peak 8's (both versions being better) they ever see the new one. So don't take out of the old models. You're gonna need 'em.



Good point, too! The J1000 has a yellow dot above it. You can spot it right away, and the dot's a handy guide when replacing the assembly cover. Keep it in the left rear of the receiver (or receiver portion of the RT's) when replacing the cover. If you put the cover in wrong, you can bend or break the terminals and leads to the J1000.

TO GET THIS CABLE OUT OF THE CABLE ASSEMBLY

The J1000 is commonly for the assembly in the RT's.

USE THIS TOOL TO REMOVE THE CABLE

ALWAYS THE CABLE DON'T LET THE CABLE GO DOWN



That does cover the production of the three main components, so far as organizational maintenance goes. Many maintenance guides for the three are also and will be discussed later.

GENERAL POINTS

- The YEC-12 series was designed for vehicular use and has no other purpose to date. Wheel and track vehicles . . . period. That's why the "YEC" nomenclature.
- The R-442 receiver equipment may be used for extended range on all the RT-504 systems because available.



■ The new series has built-in power supplies, so you don't have a separate antenna to work with. And transmitters take over vibrator and dynamotor duties, which means other beneficiaries are the windows.

THE CHARTERED RICE MANAGER OF THE U.S. GOVERNMENT, HAVING BEEN IN FLAME SINCE THE BOMBING OF THE JAPANESE.



■ The PP-1003 power supply for use with 400-watt public service has its a couple snags and probably won't be available for at least a year. Meanwhile, the PP-1004/G power supply is sufficient for bench use.

■ The new dial's just like the old in that it doesn't like hanks from high pressure hoses. There's a narrow wire inside's out, so keep it on the set when washing your vehicle. Those $\frac{1}{2}$ and $\frac{3}{4}$ inch jobs still cost only a fraction of what the radio sets do, so don't pretty 'em up at the expense of the sets.

■ Don't expect an automatic inventory vehicle. The density in Europe will be about 10 manuals to each transceiver.

■ SB 11-554 is being revised to include installation kits for the new series, but you should already have the info you need.

SELF-HEATING UNIT WITH
HEAT-SENSITIVE ELEMENT



■ Controls and their functions are listed in the TM's, and all connectors are retained. Audio connectors are new, and you can't use the R-13 handset with the series . . . even if you change transmitters. However, you can use the TA-111/PU adaptors.

■ The YEC-12 series has fixed the old dial lock problem (there've no dial locks). But there's a similar item to watch on the receiver and RT's—the SQUELCH switch. Trying to switch from old to new squelch position without releasing the lock on the control will get you nowhere.



■ Hold it a minute, operator buddy. That guy reading over your shoulder, the organization mechanic, is the guy who has to change the squelch position. And he can change it only after he checks with your Customs Officer or Chief as to whether old or new squelch is the order of the day.

CONTROL BOXES

A new line on the C-2095 control used for remote operation and transmission control in the VRC-45 and -46. Intercommunication channels must be at least 10 megacycles apart. For details, see page 15, TSM 11-5810-401-1-8.

All control boxes, including the AM-1750 amplifier, should get to you with the corners cut off as you won't grasp them out of your back or side when working in close quarters. If the corners are still on, round them off with a 1/16-in. of an inch (and the other sharp edges round and smooth). New controls will come to you without corners.

Para 35, pages 68 to 69 of TSM 11-5810-401-20 tells you what parts to replace and how to do it in the control boxes, but here're a few tips you can use:



Take a few extra seconds with the AM-1750 to be sure you don't interchange the K241 and K242 wires. The K241, a six-pole job, and the K242, four-pole, fit each other's sockets. If switched, some functions will be lost. The six-pole job has "250 Ohms" marked on its jacket, so make sure it goes in the K242 socket.

As for the C-2095, it may be a little hard to move by reason it was intended only for the communication net.

REPLACE THE INTERCOM
CORNERS FIRST

REPLACE THE
CORNERS LAST

The control is now authorized for automatic use in open vehicles . . . which makes for a shoving, shoving. In protest, they're coming.

Bags were brewed out of the original control boxes, and there should be no maintenance problems worth shouting about.



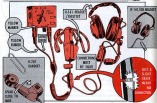
ALSO AVAILABLE

Save gas for the new mile economies. Other than inspection and PM checks for frayed cords and pressured maintainers, there's little to worry about. When transmuting, keep your mouth close to the mikes of the H-20 for best results. Be careful not to create the wild of the loudest cords. 

The H-Hi handset-charger has a color reader with the C-1127 and C-1128 control boxes that you gotta spellid when you're hookid' 'em up. It's wrong and that's even worse you're makeid' no your cartoon over the internet is gonna be out over the radio net.

To keep the talk in the family, be careful where you leave the two words that name all the quark flavors. The longest word has a yellow ring of quarks around it, its center is green to a look an echo of the central tower. There is a third-order ring of yellow and so the two

In case the gold's linked to the rubler's rising, the largest gold inflow (7.4 billion) goes to the 1-000 gold on the 1-0000 and the 1-000 gold on the 1-0000. The remainder of the two reach its host gold, as the rubler's of the lower. Is if you don't want to invest your money in gold, look for an idea.



The joints with the split channel on the B left. The plug and socket were spot on, meaning it's good practice to plug 'em together once in a while when you're using the equipment. If there's just a slight nick between the ridges of the plug side and the ridges of the socket side, it could mean you don't have a connection.

The quick disconnect's supposed to give you with a slight tug . . . so it won't yank off your head, if I remember.

If you do snag the cords, check quickly like to see if you've parted the connection.

ANTENNAS

Antennas: Same old story here. Hold the pulser (the impedance of the Aft-11 rubber antenna here doesn't get any), and keep the joints clean and bright.

LEAVE THESE
AND INSIDE
SEALING
WIRE
WIRE

CHUTE WIRE
AND INSIDE
AND IN SPARE

Check that out
on page 3,
page 10, 10
11-1000-001-01.
You get one
of 11 from here
with the 100-44
and 100-45...
and 100.

The 10-111 line of the 10-111 has a center wire that needs a look once in a while. When you release the antenna from its sleeve, or suffer an over-heat, make sure the white wire that leads to the matching unit doesn't bind to the inner spring. Check the length of the wire, too, cause if it's too short it'll slip out to a bad case or when it gets damaged.

Check the 100-111
ANTENNA MATCHING UNIT

Another caution. The 100-111 is on the matching unit like the 10-111 is a thin, closed, soft metal job that looks easy . . . sure like a constant 1/2 inch. Keep it when mounting and dismounting the matching unit, or when ever else it's not protected.

Work the connector with on the roller from the bottom of the matching unit to the 10-111. The roller of the cable and matching unit have just enough clearance to make . . . but if you give the connector a hard, you'll bend or break the pins. Just don't to connect the cable at the 10-111. Just hook it to the 100-111 side on the matching unit.

Repairs to the 10-111 matching unit are limited to replacing the 100-111 cable and the 10 matching unit's shell. No more when you follow the work on pages 45 and 47 of the 11-1000-001-01.



100-111

10-111

100-111

10-111

100-111

10-111

100-111

10-111

100-111

10-111

MOUNTS

Regulator mounts are limited to supporting Fuse Boxes. Be extra careful not to bend the Fuse Boxes or the extended terminals of the junction box.



IF A REGULATOR MOUNT IS USED TO SUPPORT A FUSE BOX, THE CABLE MUST BE CONNECTED TO THE JUNCTION BOX. DO NOT BEND THE CABLE HERE.

Let's go to some 'mainly mounts' over the mounts, their design is necessary to conserve space. ...even if they do make cable connecting tough. No design change is planned, so suffer with a smile.



Once you get the cables in, you can't remove 'em without cable' off the entire mount or its top plate. The steps on removing the top plate of the MT-1000 and MT-1050 will be in a change on TME 11-5420-401-26.



The wrong way will strain and bend the cables till they're damaged. The cables go under the top-mount plate and gather in a dip on the underside of the plate. They bend out of the clip on removal in the case of the mount.

TABLE 1

Tools and test sets are for specific diets, and getting gay with 'em can put your sex out of business. Like, organizational mechanics IN NO CASE should try to make near the lower panels of the table set.



TK-115, 900-watt equipment, or TK-117G and 18 (the same animal) are. For second studies and/or by FSN 5160 (60-1576). The TK-115 replaces the TK-41 and is illustrated in SM 11-4-5160-800 (Feb 61) and PS 117, page 5815.

You too! The 42,000-108 multiplier is no stranger to organizational mechanics, and the only pure replacement you do use it is explicit business. Period. If the one doesn't work with your business, will the others follow?



You should know the TV-3/4 classification rule turned like an old girl friend, too. Check the TVE for the few maintenance duties you have.

Unlike an old girl friend, the TV, 7.9, has only one one on the VHS: It's wearing the VHS in the RT. The only other rule that's worn and replaced by you is the VHS in the RT. That's done by substitution and not with the one on.

Check all cables and connectors before removing silver tube, and don't rock or rotate the TM24 when you're working it out with the tube puller. Pull is straight or you'll damage the pins or sockets. Page 43 of TM 11, 5015-014-20. Mine was in.



Watch that V6204. It gets hot. Be careful when working around the heat sink block of the V6204, since you can damage the block. Check the TM sheet.

ANALYSIS

The AM/PROL1 reader (not the LHC VRC-12 module) is a new baby, and she wants you to get real familiar with her before she starts to keep your -12 series new pumping, out and away from Mother's loving arms.

Headlines are the backbone of your ad and your work, so when your TDM-1's make the scene, trust 'em like a pro. The net'll save you time, and there is one of the big reasons why you use these machines.

TEAM-1 maintenance includes replacement of deflated tubes, hose caps, tanks and wheels (see part 21, page 52, TM 11-5625-696-112), and the non-pneumatic tire and opening instructions alone.

Operation is almost as simple as Aguila's: start a new batch with a dip-dipper, an hollow point TBI's, and it should be no more.



¹ Hinges and ratings are not good RF grounds. Best grounds are the screw terminals of the crank ball.

Be sure all controls of the engine are set as indicated by the instrument cluster . . . and change the settings as required when proceeding with the test. Turn on the specific frequencies and the lights, and you can get nothing on the roadway if the controls aren't set right.

The test points for the P8001 can be spotted quickly. They're identified by a "W," followed by a number, like W1000.



The P8001 can take several or less, like, when you're looking at the volume control. Make adjustments that will bring you up to get a good reading. If the volume isn't up, you can get a red reading . . . even the the volume may be good.



Hold up a volume before using the chart on page 17, subparagraph 14c of TM 11-4021-050-12. The first step is due for a correction.

If you get a green reading in Step 1, stop the test, forget about Steps 2 thru 12, and the P8001 assembly is OK. The procedure for a green reading should NOT be "higher volume again required" as stated in the chart. If it's green, the assembly's good and no other steps are required.

Whenever "volume" is required, make sure you press the push-to-talk switch of the M-100 OK mike before applying the probe to the test points. That "before" is important . . . to keep you from getting a wrong reading.



A special few words on Chart 5, page 13 of the NEM-1 TM. Follow ALL the instructions on that chart, including the reminder on test point P8001 to remove the P8001 lead from the oscillator/buffer (A8000) and replace it after the test.

Be Told here, THE P8001-0001, 0002, 0003, 0004, 0005, 0006, 0007, 0008, 0009, 0010, 0011, 0012, 0013, 0014, 0015, 0016, 0017, 0018, 0019, 0020, 0021, 0022, 0023, 0024, 0025, 0026, 0027, 0028, 0029, 0030, 0031, 0032, 0033, 0034, 0035, 0036, 0037, 0038, 0039, 0040, 0041, 0042, 0043, 0044, 0045, 0046, 0047, 0048, 0049, 0050, 0051, 0052, 0053, 0054, 0055, 0056, 0057, 0058, 0059, 0060, 0061, 0062, 0063, 0064, 0065, 0066, 0067, 0068, 0069, 0070, 0071, 0072, 0073, 0074, 0075, 0076, 0077, 0078, 0079, 0080, 0081, 0082, 0083, 0084, 0085, 0086, 0087, 0088, 0089, 0090, 0091, 0092, 0093, 0094, 0095, 0096, 0097, 0098, 0099, 0100, 0101, 0102, 0103, 0104, 0105, 0106, 0107, 0108, 0109, 0110, 0111, 0112, 0113, 0114, 0115, 0116, 0117, 0118, 0119, 0120, 0121, 0122, 0123, 0124, 0125, 0126, 0127, 0128, 0129, 0130, 0131, 0132, 0133, 0134, 0135, 0136, 0137, 0138, 0139, 0140, 0141, 0142, 0143, 0144, 0145, 0146, 0147, 0148, 0149, 0150, 0151, 0152, 0153, 0154, 0155, 0156, 0157, 0158, 0159, 0160, 0161, 0162, 0163, 0164, 0165, 0166, 0167, 0168, 0169, 0170, 0171, 0172, 0173, 0174, 0175, 0176, 0177, 0178, 0179, 0180, 0181, 0182, 0183, 0184, 0185, 0186, 0187, 0188, 0189, 0190, 0191, 0192, 0193, 0194, 0195, 0196, 0197, 0198, 0199, 0200, 0201, 0202, 0203, 0204, 0205, 0206, 0207, 0208, 0209, 0210, 0211, 0212, 0213, 0214, 0215, 0216, 0217, 0218, 0219, 0220, 0221, 0222, 0223, 0224, 0225, 0226, 0227, 0228, 0229, 0230, 0231, 0232, 0233, 0234, 0235, 0236, 0237, 0238, 0239, 0240, 0241, 0242, 0243, 0244, 0245, 0246, 0247, 0248, 0249, 0250, 0251, 0252, 0253, 0254, 0255, 0256, 0257, 0258, 0259, 0260, 0261, 0262, 0263, 0264, 0265, 0266, 0267, 0268, 0269, 0270, 0271, 0272, 0273, 0274, 0275, 0276, 0277, 0278, 0279, 0280, 0281, 0282, 0283, 0284, 0285, 0286, 0287, 0288, 0289, 0290, 0291, 0292, 0293, 0294, 0295, 0296, 0297, 0298, 0299, 0300, 0301, 0302, 0303, 0304, 0305, 0306, 0307, 0308, 0309, 0310, 0311, 0312, 0313, 0314, 0315, 0316, 0317, 0318, 0319, 0320, 0321, 0322, 0323, 0324, 0325, 0326, 0327, 0328, 0329, 0330, 0331, 0332, 0333, 0334, 0335, 0336, 0337, 0338, 0339, 0340, 0341, 0342, 0343, 0344, 0345, 0346, 0347, 0348, 0349, 0350, 0351, 0352, 0353, 0354, 0355, 0356, 0357, 0358, 0359, 0360, 0361, 0362, 0363, 0364, 0365, 0366, 0367, 0368, 0369, 0370, 0371, 0372, 0373, 0374, 0375, 0376, 0377, 0378, 0379, 0380, 0381, 0382, 0383, 0384, 0385, 0386, 0387, 0388, 0389, 0390, 0391, 0392, 0393, 0394, 0395, 0396, 0397, 0398, 0399, 0400, 0401, 0402, 0403, 0404, 0405, 0406, 0407, 0408, 0409, 0410, 0411, 0412, 0413, 0414, 0415, 0416, 0417, 0418, 0419, 0420, 0421, 0422, 0423, 0424, 0425, 0426, 0427, 0428, 0429, 0430, 0431, 0432, 0433, 0434, 0435, 0436, 0437, 0438, 0439, 0440, 0441, 0442, 0443, 0444, 0445, 0446, 0447, 0448, 0449, 0450, 0451, 0452, 0453, 0454, 0455, 0456, 0457, 0458, 0459, 0460, 0461, 0462, 0463, 0464, 0465, 0466, 0467, 0468, 0469, 0470, 0471, 0472, 0473, 0474, 0475, 0476, 0477, 0478, 0479, 0480, 0481, 0482, 0483, 0484, 0485, 0486, 0487, 0488, 0489, 0490, 0491, 0492, 0493, 0494, 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As the colors, their movements were
large stiller into the sun weather's look



like a 100-watt bulb ... with a different bulb for each occasion. Where possible, the only difference is the focus.

But ... the robbers have a bag which holds moneybags on the Angry 3 outfit, don't have. The new humbly character don't flow like it's bag on the moneybags head. They flip back like the specs of the moneybags head and can beat a humbly when you're on it. These



While we're on cables, worth the power cable (CX-1120), from the mount to the battery. The plus (+) wires of the cable are red and white. They go to the plus (+) post of the vehicle battery or the alternator in a clockwise. The black and green wires go to the negative (-) post. Connect 'em (+) to (+) and (-) to (-) or you'll have more damage than you can handle. **Remember:**



Talkin' about power, before starting your vehicle, **TURNS OFF THE RADIO** first.

Sound familiar? Two weeks. That initial cottage beside the pool—whatever was in your car. It can have its own dishes and appliances.

Justice was for me on the 23rd on the 23rd for national holidays.



Hold your glands less, Myrtle, cause you want to make sure your O-CME has control. It usually does when the RT of the automaton is on REMOTE (which means it should be on slave setting on the C-27-43). If you've not sure, turn it off as all points mentioned.

And don't check any item in para 10, page 94 of TM 11-5820-604-10 with the power on. (Just sorry.)

There's danger as the A.T-511 and the A.MT connect on the RT's when the set's operating. Just remember, 700 volts is a heck of a wallop.

RIGHT-ANGLE CONNECTORS

Another general point. The small right-angle connectors used in the RT's and receiver can take a minor beating, but if you treat 'em like their big cousins on the ends of the power cables they'll only give you grief. Work 'em like you would a hot wire when you're re-wiring to replace 'em. If you bend or jiggle 'em instead of pushing 'em straight in or out, you can spread the ends and make 'em useless.



There are some areas with less working space than a New York subway as 'quaint' close, where straight in and out won't work. In those spots, use your long, steel pliers and get 'em out with as straight a pull as possible.



Another problem you've gotta live with is wires on switches and control knobs. Check the wires often to be sure they're snuggled down. It's pretty hard to devise up something better's than these little items.





Before removing the FL400 concrete filter on either RT take off the lower connector, FL400 (B), with long steel plate or screw it straight back, easy-like with a screwdriver. You can't get your hands in there.

There's no trouble with the top connector, FL400 (A).

When replacing the filter, put on the lower connector and slip it down the slot in the front panel of the RT until it runs easy. If the filter's too flush with the edge of the panel (and it won't be most of the time with the RT-240), slip a finger under the filter, give the connector a slight clockwise twist, and the filter should fall into place.

The big point is, don't force the filter. You can break the connector and its jack.

The blower motor works on the on/off/overhaulability of the radio and how you know you're ready for business, but don't get so used up in that you won't notice the first time the blower fails to go on.

Make it a habit to listen for the blower to start as you key the mic. Like, don't take it for granted and miss the cue when it says silence.

And if it doesn't go on, manual the rig to transmit without the blower (unless it's an emergency). You might get away with communicating for a couple minutes, but you'll suffer later.



If the blower pulls the robot out, call your supplier.

When the set operates in sleep or ready mode, your mechanic should get inside about once a week to wipe down and clean from the rear of the blower motor squirrel cage and the fan of the heat exchanger. Once a month is about right for other areas.



There's no air filter in the air intake and exhaust ports of the RT heat exchanger, which means the heat exchanger may get dirty. Your TM tells you it's on paring to the exchanger.



REPLACING MODULES

Don't let the words get you nervous. Your TM's has full instructions on checking the modules, and the AM/TEM-1 module can be for the -11 series and AM/TEM-15 can be for the 20 series and easy to replace. Equip your Performance Checklist in the TM's and you'll be the one you should check and tell you what to look for.

Nobody wants to hurt their old mother, so remember that when you're pulling modules from mother boards in the RT-100, RT-104 or RT-102. When putting the module on or off the mother boards, press or pull lightly—straight up or down. "Wiggle", "jiggle" and



pin's the module can't heat up both the module and the board. And if you heat one contact in a connector it can mean replacement of the whole board.

There are a few exceptions, but you can handle most modules right out and in.

Modules tend to be small to conserve space and weight, so don't treat 'em like they've got pins of pinhead size going in.

Before you start pulling the modules, be sure the captive hold-down screws are all the way loose. They might wiggle a little before they're free, so don't let 'em foul you.

The hold-down screws on most of the modules also connect the module grounds to the chassis grounds, so make sure the screws are snug.

When you're troubleshooting, loosen the screws of one card at a time, and snug 'em up when you replace 'em or before you test another card. Even a good one may not work if the screws aren't snugged.



Patience is the password for you guys who have to remove and replace the A1000 power supply module in the RT's and modules. Before you even give it a cross-eyed squint, remove the three terminals above it that connect to the A1000 assembly. Pull the terminals 8, 9, and 10 (brown, purple, black) straight out, and bend the wires up and slightly away from the A1000. If you don't you can tear off the wires of the terminals or bend the pins.

After releasing the snap slide snap the A1000 slips a screwdriver between the A1000 and the case of the A1000. Pry the A1000 out just enough so the lug just under the A1000 screw comes in contact in the A1000, and then rock the A1000 out.



When replacing it, you may have to take the screws out of the A1000 assembly as the A1000 will close the wires. These tips, and TM instructions, should see you through, even tho' that assembly can be a real pain.



You may run into a hard switch problem in the three main components which call for higher volume repair. The fault's usually caused by improper installation of a module board in the A1000 assembly of the RT's, or in the A1000, which breaks a plastic bit on the hard-switch stick. It then keeps the RT's or module in the hard where that bit broke. . . . There's also the chance it can break in normal operation.

The bit may be as hard if you can receive or transmit on one hand only—in which case call for higher volume help.

Another tip: Just about every mod is held on its assembly board by screws with slotted heads. Note and other fasteners are for parts held from inside.





The hidden areas of the A1100 assembly (BT and receiver) are hard to replace because of tight quarters. A magnetic screwdriver would handle the problem nicely, but since you don't have one, the next best deal is a bucket of patience . . . up to mean the screws gook-like. The screws'll flip all over the place if you push 'em down too hard.

When receiving the AUCON, guests are told where the local village is located. Paddling by the river may break "new



Double-check the RT100 in the RT to be sure the No. 2 head (blue-white) and the No. 3 head (green-white) are going to the right terminals, Same goes for the No. 7 (white) and No. 8 (gray-white) heads. They're color coded, but the color status on the heads are hard to read without looking them in your hand.

1100

The K-5001 and K-5002 relays of the 45000 in the three main components are interchangeable, but with different functions. The K-5001 is shorter and fits under the rubber cushion on the relay hold-down bracket.



Relay replacement in the A8000 of the R17 isn't tricky when you follow subparagraph 17c, page 12-11 of TM 11-4820-001-10. But add this—remove all the old relay solenoids of the A8000, and when you open or close the fingered-eyes, make sure the 10 handles are clear. You'll get more trouble from the handles or wires than the eyes.



TRANSMITTING TIPS



■ For your info, some failures have occurred during some of the APROD (power supply), but they were due to continuous demands for more than on hour. The CMMb-capacitors wasn't built for that for a job, as it shows. The APROD is being redesigned to last that, and new parts will go in. You'll get the word on it, so use the ones you have till you hear otherwise.



■ Even with the RT disconnected you short circuit electrical parts to ground before probing 'em. Some capacitors hold more charges and give you jolts with extra.



■ Use your thumb when turning the S-RECALL-NORMAL switch on the 44000 from one position to another. That did it: the plastic's not for a screwdriver . . . which would chew up the plastic. The switch stays on NORMAL unless you're otherwise instructed.



■ One last ground point on modules. When you get much resistance after aligning the module pins with their contact points, hold it. Back off the mod w/ the you can withdraw the alignment with the mother board . . . or maybe you've reversed the mod. Don't force it, or you may melt some pins.

■ Never transmit on high power if the antenna's disconnected, the cables are off the matching unit or the antenna sections are not together. If you throw out that joint under those conditions you'll burn out the power amplifier and damage the circuitry. Real bad, man, and really, too.



■ Whenever you do, heed the TX caution warnings or's you won't job yourself too well. Those dangerous voltage warnings aren't snow jobs.

PRINTED CIRCUITS

Finally, printed circuits that work, man. Which means when you're checking 'em for cracks or breaks, keep that hot iron outta sight. Then you'll see why

when the circuits are exposed. Touch 'em sensationally with an iron and the only thing the circuit'll do is quit.

PUBLICATIONS

TM 11-5820-404-10 and -15
Radio Set AN/WR-11 and
AN/WR-13, -14, -15,
-16, -17, -18, -19

TM 11-5820-305-11
Multimeter AN/WRM-105,
AN/WR-140,
AN/WR-152 and
AN/WR-153-15-
other AN/WRM-105.

TM 11-5821-204-10
Test Set, Electronic Tube,
30-7, 30, 31, 32, 33, 34, 35, 36

TM 11-5820-504-10-1
Test Set, Tube, AN/WRM-1

TM 11-5820-1
Antenna Equipment K-141
TM 11-5820-404-11
Test Set, Radio, AN/WRM-1
TM 11-5820-1
Power Supply PP-1044-15,
AN/WR-170,
Test Set AN/WR-104

TM 11-5820-504-10
Antenna Set AN/WRM-105

TM 11-5820-403-104
AN/WR-140,
AN/WR-152

TM 11-5820-404-104
AN/WR-140,
AN/WR-152

TM 11-5820-404-104
AN/WR-140,
AN/WR-152

TM 11-5820-404-104
Radio Set AN/WRM-105,
AN/WR-140, AN/WR-152, AN/WR-153

TM 11-5820-403-104
Antenna of K-141
Including Mounting Bracket
Set AN/WR-140

TM 11-5820-403-104
Mounting AN/WR-140-104

TM 11-5820-403-104
Mounting AN/WR-140-104

TM 11-5820-403-104
Control, Antenna Set,
AN/WR-140,
AN/WR-152

TM 11-5820-404-104
Antenna AN/WR-140, AN/WR-152

TM 11-5820-403-104
Control, Frequency Indicator,
AN/WR-140

TM 11-5820-404-104
Control, Antenna Set, AN/WR-140

TM 11-5820-403-104
Control, Antenna Set, AN/WR-140

TM 11-5820-403-104
Control, Radio Set, AN/WR-140

TM 11-5820-403-104
11 Test Set, Antenna Equipment AN/WR-140

TM 11-5820-404-104
Test Set, AN/WR-140

TM 11-5820-403-104
Test Set, Radio, AN/WR-140

TM 11-5820-404-104
Test Set, Antenna Set, AN/WR-140

TM 11-5820-403-104
Power Supply PP-1044-15

TM 11-5820-403-104
AN/WR-140,
AN/WR-152,
Multimeter AN/WRM-105,
AN/WR-140,
Antenna Set AN/WR-140

That wraps up the YRC-11 series. Some of these features will carry over to the YRC-12 series.

And you, Joe, are the only guy who can make the rest do the job they're designed to do. You are that important.





M35A1 CRANKCASE OIL LEVEL



Dear Half-Mast,

Our night has revealed a bunch of M35A1 1½-ton trucks. The main problem that we're not too clear about the amount of oil that goes into the crankcase.

TM 9-1129-111-20 and LO 9-1129-111-30 say the crankcase, including the filters, takes 20 quarts of oil. When we put in 20 quarts, the oil level (after running the engine) is 7/8-inch above the dipstick's FULL mark.

When making an oil change, shall we put in 20 quarts or just enough oil to put the level at the FULL mark?

SFC G. V. B.

Dear Sergeant G. V. B.,

Overfilling an engine crankcase with oil is worse than running it a little short. Overfilling sometimes keeps your unit's engine breathing apparatus from working, and that sure gives your engine performance and spark plug knock, big.

The problem that you're having with the M35A1's oil level has come up before on other trucks. You see, the LO really gives the total oil capacity for the engine. If you wanted a "dry" engine right off the production line it

would take the amount of oil shown in the LO to fill it. After the engine has received its full load, which would put the oil level at the dipstick's FULL mark, it's hard to drain all the oil out when doing an oil change.

There are the oil holding parts of the engine that must be considered, parts like oil filters, oil passages, pump, and various parts of the engine that hold oil because of their shape. In other words, you never get all the oil out.

Then there is the type of engine, while running, that will hold about 18 quarts in the crankcase and about 4



quarts in the engine oil passages and filter, making a total capacity of 22 quarts. And when the engine stops, some of the 4 quarts in the filter and passages flow back in the crankcase raising the oil level on the dipstick well above the FULL mark.

In a case of this sort it would seem that there is too much oil in the crankcase but there isn't. Obeying like this the dipstick is usually marked indicating that the level should be checked

immediately after the engine has stopped running. The level check is made before the oil gets a chance to flow back to the passages.

Now back to your MFI4's—to re-fill the crankcase after draining, put in enough oil to bring the level to the dipstick's FULL mark. Even if it is only taken 11 or 16 quarts of oil. Then start and run the engine for several minutes. Stop the engine and immediately check the oil level on the dipstick.



When you do this, you'll have 16 quarts in the engine just like the 10 quarts.

To keep your driver from overfilling the engine, put the wood along that oil level-checker on some surface when made after running the engine, and put in only enough oil to keep the level at the FULL mark.

Handwritten signature: Alf

STARTER SWITCH FOR M35A1

Need a starter switch for your modified M35A1 14-ton truck? This switch is listed as Item 1 on page 23 of TM 9-2509-150-20P (Jan 62) but without a stock number. Also, it's listed as a non-reversible item.

But, all that has been changed. It is now reversible and the stock number is P/N 2920-211-0013 (3rd Part No. 820814). This number is scheduled to be listed in the next edition of the 20P and 21P for the vehicle.

By the way, you use this same switch on the M35 and M35A1C 14-ton, the M37 14-ton and M35A1 16-ton. It might be handy to know this some day.



M35A1 SOLENOID RELAY

Dear Half-Mast,

What is the right name for the solenoid part of the starter on the M35A1 16-ton cargo truck (modified engine)?

On page 164 of TM 9-2130-211-26 (Jan 62) the Maintenance Allocation Chart lists it as "solenoid, starter" with replacement of it as a normal maintenance responsibility. But there's no listing for it in either the 20P or the 21P for this vehicle.

What is the correct nomenclature and stock number for this item and what authority do we quote for ordering it?

Major J. M. B.

Dear Sergeant J. M. B.,

You call it Relay, solenoid, spst, inductive winding, 24V, 3 terminals, 2 1/2 in. dia. dia. mag. holder Center 1 P/N 2920-211-0013 (820814).

The current editions of the vehicle 20P and 21P are going out the door.

Half-Mast



**JOE'S
DOPE**

**WHAT YOU'VE
GOT...
YOU GO WITH**

HA!
NOT HERE
HAW!

HELPFUL... DID I SAY
THAT? YES YOU DID. ABOUT
PAT 'N' MARY?
HOW DON'T I FOR US,
EVEN IF YOU'RE THAT OLD
BEFORE THAT. I'M TELLING
YOU, THAT IT'S, YES, OK.



Well... Ha, Ha, Ha, there were those two very young for soldiers (Pat and Mary)
... career men with two stripes behind their shoulders. Can say Pat was to Mary,







Dope Sheet



The enemy will not let you know.
When he presses the button for "blow"—
So, maintain what you got.
Keep it sharp—keep it hot.
With equipment you've got—you will go!!

WE HAVE THE WORLD'S BEST EQUIPMENT ... *Take care of it*

IF YOU WANT TO DISPLAY THIS CONTINUOUSLY ON YOUR BULLETIN BOARD, WHEN STAPLED, LIFT IT OUT AND POST IT UP.



DOING IT

MAINTENANCE

It's kinda hard to come up with an international maintenance language ... unless you stick to mostly symbols ... and that's just what came out of an international standardization agreement on aircraft. These servicing symbols are now officially listed in my Army pocket ... but if you see them any of them in the future ... in both U. S. and foreign aircraft ... here's how you identify them. When you see any of these symbols they should be either right on the item they identify or next to it.



Inspection of
Fueling Circuit



Inspection
Of Battery



Inspection of
Electric
Installation



Inspection of
Fuel Filter



Hydraulic
System Test



Wingnut Test
System Test



Cable Pressure
Test



Ignition Plug for
Starting Jet Engine



Inspection of
Belt
Connection



THE NATO WAY

GROUND HANDLING

Various symbols in white
on black, according to
the background

Loading
Rate



Clipping
or Shifting
Points



Mousing
or Fixating



Towing



Optimum when tow-
ing point is distant
and vehicle location
is specified and read-
able.

Fuel
Support



Loading of
Drop Tank



ARMAMENT AND AMMUNITION

ARM/AMM SYMBOLS ISSUED WITH THIS SYMBOL.

Gun



Firing

It shows the firing
contingency point



It indicates Gun



Loading
of
Gun

It indicates Gun



Machine
Control

It indicates Key



Gun
Belt

It indicates
from
the
gun



HAZARDS

HAZARD
METHOD

FUNCTION

PART

HAZARD
METHOD

FUNCTION

PART



Lacking
of controls
and
undercarriage

Sprinkle
and
Cross
Bars



Jet
Engine
Covering

Engine



Lacking of
Controls
and
Undercarriage

Position
of Sprinkle
and
Cross Bars



Bucket
Control

Bucket
Flag



First
Tube
Covering

Cover



Anti-bomb
Control

Shut



Engine
Box
Covering

Cover
Box
Cap



Exhibition
of
Arms

Weapon
Signs
of
Attack

Explosion
Actual
Explosion



Mark particular
of leakage

Walkway



Surface symbol is black or
white according to the back-
ground



FILLING

Color — Black or White According to Background

Refueling



Note Color No.
Note Filling Pressure
— psi — kg/cm²

Oxygen
Breathing



High Speed
— psi — kg/cm²
— Bars
— Sports

Boiled
Fluids



Note Color No.
Note Filling Pressure
— psi — kg/cm²

Roll-Over-Protection
or Thermal
Suppression



Reflected To
Water To
Note Color No.
(Reflected Only 1/4/15)

Boiled
Coolants



Note Color No.
Note Filling Pressure
— psi — kg/cm²

Air
Conditioning



Engine
Lubricating
Oil



Note Color No.
Note Filling Pressure
— psi — kg/cm²

Braking
System



Washing
— psi — kg/cm²

Hydraulic
Fluid



Note Color No.
Note Filling Pressure
— psi — kg/cm²

Flare
or Expanding
Systems



Note
Color No.

Color — Black on white according to background

Ex-iting	 Note Code No.	Internal Electrical Connections	 Starting Ex-iting etc. Other I & E etc. etc. etc.
Ex-posed	 Note Code No. Other I & E etc. etc. etc.	Ex-posed or Ex-posed Ex-posed	 Ground (Earth) etc.
Ex-posed Ex-posed	 Note Code No. Other I & E etc. etc. etc.	Ex-posed Ex-posed Ex-posed	
Ex-posed Ex-posed	 Note Code No. Other I & E etc. etc. etc.	Ex-posed Ex-posed Ex-posed	

Lettering which supplements the symbols shall be in the same I & E as is relative to the symbol.



Dimensions (in)	
1	1/4
1/4	1/4
1/4	1/4

COUPLE THE COUPLING



Dear Editor,

Putting a mag on an opposed-type bird engine takes a bit of fudging. Of course, you start it by turning the drive coupling gear until the chamfered (or beveled edge) tooth is induced to the permanent white line on the mag housing.

But keeping the coupling from turning while you're putting the mag on the engine is a really dead, unless you have some type of a holding staff.

To solve this problem, we made this handy little tool. It's made from an



aluminum rod end bushing, AFN 702-4D, PN# 4780-1 04-0007. Being aluminum, it won't scratch or mar the threads in the plug hole for the coupling gear work.

You just grind or file the bushing threads smooth, cut out the four teeth and you're ready for business.



WHEN YOU
ENGAGE
THE MAG,
COUPLING
DON'T WORRY
HOW LONG
IT TAKES
TO DO

When you go into the mag indexing plug hole with the tool and engage the coupling gear work, the coupling won't move a hair while you put the mag on the engine.

Lesley McCormick
AVIATION

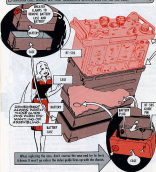
St. Louis, Mo.

(Ed Note—Looks like a good bet. You could make several holders and pass them around for other models in use.)

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

Let's pump up the heat of the oven, the P/E ratio, and speed it to the maintenance position. They apply, no matter which of the three ways we're talking about. Here, please. The new wave of maintenance will be a total revolution.

To remove or replace the RA-505 case, first thing you do is remove the RA-505/PBC-21 battery and, in case, the CV-1143/PBC-21. Insert the set on the bottom end, insert the four Phillips screws, and lift off the case.



Another point: Be sure the cam is flush with the base of the front panel of the RT before you turn the hold-down screws. Don't force the screws, or you'll warp 'em. In about a few seconds, your screws are secure on that 'ere up side.



While we're on channels, you can't use the FBC-11 series mix with the AN/FBC-11 or the lower band of the FBC-9. They're below the 20-to-25mc range of the new mix.

Operator replacement in the above two steps in the history of the PRC-15 and the indicator lamps of the ABE-110A/VRC amplifier and the C-100/VRC increase control on the VRC-15 and VRC-12.

Abstract

Hold in line. There's a change in installing the IIA (III) battery, as there's new steps and draw pins 14, page 7, and pins 28, page 17, of TMI 11-54029-000-00, and pins 37, page 31, of TMI 11-54030-000-00 were revised.

The battery has about a half-inch play in its CR2450 case. You can waste time and its charge trying to dip the battery and run into the hot very close of the BT-924.





REPLACE YOUR BATTERY
EVEN THE YEAR 1970
COPPER LITHIUM BATTERY
IS THE YEAR THE BATTERY LIVES

Using the replacement procedure from subpage 10, the 20s and 21s of these 20s, with the receiver-transmitter case being on its side, hold the battery in both hands.



USE UP
WIRE WITH
WIREPLATE TO METAL
BATTERY



THE YEAR THE
BATTERY LIVES
WITH CLIPS

To change batteries after you've installed the 400-01 in the 400-02, remove the battery case, by the battery and set on a flat surface. Loosen the two retaining straps that hold the 40-02s, and remove or replace the battery.

TO REMOVE
BATTERY,
LOOSEN STRAPS



Loosen the straps, tight and handling the metal frame of the battery to get the battery and case is to not only make the job faster and not cause damage . . . to the set and battery.

Before we get to replacement of modules and relays on the organization level, let's look at the module test set and the amplifier-power supply.

MODULE TEST SET

The 400-01-01 electronic circuit plug-in unit set on the module is an all-new baby that'll go a long way to making your job easier.

The 400-01-01 isn't quite like the 400-01 used in the 400-02 series, which is on an all circuit. The 400-01-01 doesn't operate until you push the TEST switch. Otherwise, it's off.



REMOVE THE
BATTERY FROM POWER



When initially adjusting the test set, it calibrates position "X," not the CAL control for zero reading. Now, with a pulley under single depression of the TEST button, approach a green reading slowly.



Give the CAL control about 1/4 turn adjustment, with at least four seconds between each turn, until the green just comes on. You're then ready for testing.

If you get a green reading right off in the initial adjustment, you may get wrong test readings. Also, don't adjust for green with the TEST button depressed throughout adjustment.

Another way for initial calibration is to back the CAL control off from a green reading to red. Then, work up slowly to green again, as method.

Complete other pointers. Be sure you've made all connections before pushing the TEST button.



Also, make sure your probe ground is connected to the radio chassis near as possible to the test point. Use the bare metal of the chassis for the probe ground, and keep it away from blades and readings. They're not good grounds. And . . . ground the probe before you apply it to the test point.



With the TEST button depressed, wait at least five seconds for each test. There's a fraction time lag. If you don't wait the five seconds, you can get a wrong indication.

The radio set battery must have at least 11 V; wait for correct readings on the test set. If you get a red indication in step 2 of the test that is page 16 of TM 11-4625-21-4-11, change your battery.

And don't forget to put your radio on the frequency specified for each test step, because the required frequency changes. Also, changes are planned for measuring some points at 4.5 and 55mc, instead of 50 and 75mc.

Details changes are in one step 11, page 18 of TM 11-6613-514-12, which will be 45-100mc instead of 50-75mc. Also, one step 12 on page 19 of the above TM will be changed to 45mc instead of 55mc.

Other changes are planned for the charts, and you'll get the corrections along with your TM's. Look 'em over good.

Here's a big point. When testing the PRC-25 with its own battery, the RA-304, make sure the shooting cap is tightly attached to the cable running from the power receptacle of the C208-25 to the power receptacle of the RT-505 (cable C242001/FORM-55). The cap has to be on the adapter to prevent damage to the sets.



You take the cap off only to attach the cable (CS-4411/11) that runs from the adapter to the SET POWER receptacle of the AM-2560 amplifier-power supply, using the power of a vehicle battery. In other words, the cap's off only when you're testing the VRC-53 or GRC-125, with power from the vehicle battery.



AMPLIFIER-POWER SUPPLY

Let's take a look at the other major component of the VBC-15 and GBC-125 ... the OA-5053/GBC amplifier-power supply group. The AM-3000 is part of it.

The OA-5053 adapts the RT-105 to vehicle installation and provides 15-volt input to the radio set. It also amplifies the audio output of the receiver portion of the RT-105.

Line up all four pins before pressing the assembly into place.



Later models have only the ground pin on the module head.



Notice gasket here. There are four rubber screws which hold the plug in.



assembly—three on the base and the fourth on the tab about one-third of the way from the top of the assembly.



Two hands could tempt you to put too much muscle on it and damage attached to the assembly. You have to



The amplifier-power supply uses the RT-105 mount discussed in the VBC-12 article.

Early production models of the OA-5053 have two gaskets on the metal base of the plug-in assembly as well as two gaskets on each side of the connector plate of the module terminal board attached to the assembly. You have to

Plugs about the K1 relay whenever it's mentioned in the TSM. In all mass-production models have a K2 relay ... a change. None of the power-amplifiers get out with a K1 in it.

You get a little bonus with the K2, friend. You can put it in either way, which means you can't put it in wrong. In this case, you can forget about which side that little red dot between the pins is supposed to be on.



The relay also has the component side of the plug-in assembly, and it may be a little stiff to get out ... even when you spread the mounting clips. First in,



It may be too tight to get out by hand. If you have to pry it with a screwdriver, slip the head of the screwdriver gently between the relay and the connector

about midway between the end pins. Pop it out till you get a slight clearance from the socket, and take it out the rest of the way by hand. Just don't get loose-handed with the little fellow, cause you can damage more than the relay.

The connector cable CCK-4055/E1 to the power receptacle of the RM-2000 and RT-2000 should give you no sweat if you follow a couple' easy steps.



1. Slide over the latching lever—the widest on the connector head—lines up with its slot on the receptacle before twisting the connector cap. The latching lever should be at the bottom when you're 'putting' in the connector.



2. The receiver head has three holes. Snatch the pins on the receiver strap into the holes when you hold the receiver fully into place. When you feel the pins snap in, the main battery's memory.



The pins keep the receiver from backing off. Also, once recharged, might just damage the pins and receiver. (Whether good or not, you can connect either end of the cable to the RT or the amplifier-power supply.)

Don't forget that the AM-2000 works along with the RT-500, which means you're gotta get the AM



FREQUENCY CONTROL, on the AM-2000 in the frequency range you're working with on the RT-500. That's important.

That station monitor on page 14, page 1410, will be immediately applied not in a change on TM 11-3420-000. So, but you can pretty much forget it when you're using the battery in the AM/VRG-12 set-up.

In other words, if you're using the

GRG-12, slip the battery in the RT-500 and install the whole works on the AM-2000. This provides immediate manpack operation when the RT-500 is removed from the vehicle.

The warning applies when you're using the RT-500 in the AM/VRG-12 configuration. Leaving the BA-100 battery in the case for vehicle operation can cause lead corrosion damage.



THE RT-500, 10000

You'll need a couple other new sets for the VRG-12 series—the AM/VRG-100 maintenance and the TV-1/2 electronic cable set up. Both are described in the VRG-12 series article. Also get half the article for dogs on the TR-111/2 lead kit, which you need with the VRG-12's.

Now to grab a look at some of the other components.

CONTROLS

The vehicle-mounted sets of the PRC-10 series use the C-2295, C-2297 and C-2298 controls and the AM-1790 amplifier . . . all used with the YBC-12's. Grab a look at what these controls say about 'em on page 9.

AUDIO ACCESSORIES

Audio accessories for the PRC-10 series are a new breed, so don't try to make 'em up by slipping in an old H-15 handset, if necessary. The H-15 won't work—even if you change its connectors.



The one designed for the car is the H-15A/U handset (you'll also use the H-15P/U with the C-2294). A few dips will give you top service, since it's an improvement over the H-15. Like, talk close to the mike instead of holding it away from your face.

On many of the H-116's you might get better service by pushing the push-to-talk switch on either edge, rather than the center. You get a high speed tone in a while with a center push.



You get three antennas with the PRC-10 series, the AT-011A long whip and AT-002 short jib, both for portable use, and the AT-012 and matching sock for vehicular use. But the dips on the AT-012 are the YBC-12 switch on page 11. The point to note here is that the AT-012 increases the range of the YBC-12 and GBC-12 . . . to approximately 10 miles.



Plus, this caution: Don't try to use the AT-011 antenna of the PRC-10 over 10 miles. It won't fit the antenna socket on the RT-505, which means you gotta use the AT-011A.

You might also take a look at the VBC-12 article for maintenance help with the MT-1000 mount used by the VBC-12 and GBC-120 . . . page 12.

CABLE

Be extra careful when connecting the power cable (CX-1700) from the mount to the vehicle battery. Hook it up wrong and you'll give a big ol' bad hairdo to the car, as well as damaging the amplifier-power supply.



GENERAL

Give the general maintainers. Tight up the screws periodically on switches and mounts; watch your cables and make sure the crimps and braids make the proper contact; check.

And never, never, start your vehicle with the radio wire turned on. Do it and you'll damage the power amplifier . . . and maybe the car. Turn the power off at both the car and the amplifier/power supply before you hit the ignition switch of your vehicle . . . just in case it catches.

MOBILE TOOLS

You got two mobile pullers listed by amplifier builders as the top, right corner of the RT-100 chassis, which take the same set of puller tools as the RT-100.



Make sure the tool tools screw in easy. If you have 'em (and you can't you'll understand 'em).

General tips on pulling tools listed in the VBC-12 article apply just as well as the tools in the RT-100. (By the way, if you will.)

One note here before you get into actual replacement of the modules and chips in the RT-100. You can run the RT and A10 chips, but if they're bad, they're gonna be replaced by third-party 'cause they generally need replacement.

PLUGGING MODULES

The same rule for the A1, A3, A4, A6, A7 and A8 module fits into slots on the board switch slide. So ... make sure the same rule is the done before you begin.



aligning the module. If they're not, you can bend or break the arms.

The A12, A13, A14 and A15 module can be inserted either way, which means if you reverse 'em, you've got troubles.

A first look here'll set you straight.



Which means you can read 'em while looking at the control panel. Same goes for the module on the bottom of the RT, the A1 thru A10. Face 'em to the front. You'll find 'em a lot easier to install that way.

To lift the A10 and from its socket board you have to depress the hand switch mechanical finger as it fits in and from the groove in the module. When it's done, pull the end.



You might have to depress the mechanical finger when you install the end. You always have to make sure the groove of the end fits up with the tip of the finger that fits into it. If it doesn't, flip the hand switch to line it up.



The module board of the A12 thru A15 module can give you a switch or run if you let it.

Like with the three hold-down screws. Stop turning 'em as soon as you feel the spring tension release. A couple more turns could bring 'em

all the way out, which means you could lose the springs and screws. Besides, they're tricky birds to replace.

■ When you're securing the master board, push down on the screws just enough to relieve the spring tension. Too much force could crush them 'em.



■ You may have to wiggle the board slightly to get the rear screw in, but there's just enough of an offset to make it downright hard for that rear screw if you secure the two front ones first.

REPLACING RELAYS

Two of the three relays you work with in the BE-MG are the "no-onset" type, probably you've run on the pins so you don't bend 'em.

Keep the red slot between the pins of the K2 and K3 relays to the left front of the unit when you install 'em, and the red slot of the K1 relay toward the top of the unit. That keeps them the right position. In, keep the side with the latching and it either up or not, loose slot, position side.



Putting K2 and K3 straight out of their sockets is a snap, but watch it when you're pushing 'em in. Too much wiggle or shove can bend or break 'em. Best bet is to put the relay on top of the bracket with the pins a fraction from their receptacles. Press down easy like to spread the ends of the bracket wings when the bracket wings line pins, and push the relay straight in. That way you've got it made.

The K1 is a different cat. It lives in a tight house, with almost no room to work. You gotta almost get underneath to get it 'K1 out.



Backer and loose dragging it to pry the top bracket with a screwdriver, grip the end of the relay tightly with long nose pliers and pull back slowly till K1 disengages from its socket.

Keep slight pressure on the bracket till the relay closes or it'll snap down and bend the pins.

To replace the K1 pop up-the bracket again, slide the relay in by hand till its pins clear the lower bracket, and let

both brackets snap up on the relay arm. Then, push the relay straight in. Watch those bracket arms, cause they bracket the relay pins.

It requires some patience, but it's about the only way you can get the relay in or out without damaging the pins or components.

All done, K1, K2 and K3, gotta be checked by substitution, so it's important to guard those pins. If the relay's good, you have to shove it back in.

PUBLICATIONS

FOCUS AND FIVE PUBLICATIONS FOR THE PIC-16 SERIES

TM 11-5229-FHS-10 and -15, Radio Set AN/

PRC-10, AN/PRC-15 and Amplifier/Power Supply Group AN-3621/PBC

TM 11-5229-254-10, Maintenance AN/PRC-10

TM 11-5229-274-10, Test Set, Electronic Tube P-7, 8 (See Pg. 4, 8)

TM 11-5229-274-10, Test Set, Electronic Circuit Plug-In Unit, AN/PRC-10

TM 11-5229-401-10 and -15, Radio Set AN/PRC-10 and AN/PRC-15 (See AN/PRC-10)

TM 11-5229-274-10/1, Test Set, Electronic Tube P-7, 8 (See Pg. 4, 8)

These publications are necessary for the PRC-10 series, and the 20P's on the new equipment will be included.

TM 11-5229-254-20P, Radio Set AN/PRC-10

TM 11-5229-401-20P, Antenna 1A-911/PBC (See Mounting-Maintaining (See AN/PRC-10)

TM 11-5229-FHS-20P, Amplifier/Power Supply Group AN-3621

TM 11-5229-401-20P, Antenna 1A-911/PBC-20P

TM 11-5229-401-20P, Radio Set AN/PRC-10

TM 11-5229-254-20P, Test Set, Electronic Plug-In Unit, AN/PRC-10

TM 11-5229-401-20P, Test Set, Electronic Tube P-7, 8 (See Pg. 4, 8)

TM 11-5229-401-20P, Mounting 1A-911/PBC (Mount and Control publications are for PRC-10, AN/PRC-15 radio sets only)

TM 11-5229-401-20P, Control, Antenna Set, C-129A/PBC

TM 11-5229-401-20P, Control, Antenna Set, C-129B/PBC

TM 11-5229-401-20P, Control, Antenna Set, C-129C/PBC

TM 11-5229-401-20P, Amplifier AN/PRC-10

TM 11-5229-254-20P, Test Set, Electronic Tube P-7, 8

TM 11-5229-274-20P, Test Set, Electronic Tube P-7, 8

PUB CHANGES

There'll be a number of changes to the PRC-10 series manuals, so keep an eye peeled for them in DA Form 110-4.

If you can't get all the pubs you need, be patient, watch DA Form 110-4, and order any you don't get on DA Form 11.



A GROUP OF 12 STUDENT MEMBERS OF THE UNIVERSITY OF CALIFORNIA, BERKELEY, "STUDENT FOR THE ABOLITION OF THE BOMB" (SAB) HAS BEEN FORMED. THE GROUP HAS BEEN FORMED TO BRING ABOUT THE ABOLITION OF THE BOMB.

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GETTING WIFF LATELY?



Has your wiff been getting enough copies of PE Magazine? There's no need to getting so wimp as you need. Just get your CO to make sure your wiff's CO Form 12-4 order has asked the Pubs Dept for enough copies of PE to go around. The 12-4 goes, they thanks to.

Richard Edward Publications Center
1910 Linton Blvd.
Waltham
Belmont, MA 02138

Richard Edward Publications Center
1910 Linton Blvd.
Waltham
Belmont, MA 02138

PE is mailed direct to your wiff by zip-coded distribution.

M107 HAMMER ROUTINE



THINK THINGS



Been having any trouble with the hammer chain on your M107 SP 115mm gun or M105 SP 105 howitzer? Well you won't if you're careful when you put your foot down when you want the gun pointed.

When you're operating her and there's no wind, it's only as dry run that you have trouble when you check hammer operation without a projectile in the chamber.

If you want to play it safe there's just one simple rule—when you're not the hammer manually, be sure you get the hammer chain fully extended before you operate the hammer under power.

What will happen if you don't? ... well, the chain will be thrown off the hammer sprocket when you operate under power and it'll wind up in your gas valve when the projectile ought to be ... and that ain't good!



SP-107 "HAMMER" WORKS PERFECTLY! NO PROBLEMS! NO WIND! NO WIND! NO WIND! NO WIND! NO WIND! NO WIND!

THINK THINGS



THE RIGHT BRUSH



Course you don't think that engine is really down the right old puller. Never use an M1's chamber cleaning brush in an M1A rifle chamber.

The M1A brush is half an inch too long.

IF YOU WANT TO BE SURE YOU GET THE RIGHT OLD PULLER, CALL 800-4-A-M-1.

NEW IDLE RATE



No, Clyde, the rule has nothing to do with new idle speed! ... it's a new engine idle speed for the M107 SP 115mm gun family vehicle also includes the M105 SP 105 howitzer, the M105 SP 115mm howitzer, and the M105 SP 105mm howitzer.

TM 9-2850-210-10 (Jan 62) for the M107 and M105 says on page 21 that the idling speed is 400-500 RPM.

But The Wood now is that engine idle speed is to be adjusted to 500-600 RPM because a higher idle means to work better with their compression-ignition type engines.



SP-107 "HAMMER" WORKS PERFECTLY! NO PROBLEMS! NO WIND! NO WIND! NO WIND! NO WIND! NO WIND! NO WIND!

SP-107
HAMMER
WORKS
PERFECTLY!



SP-107
HAMMER
WORKS
PERFECTLY!



Here's the right brush for each weapon:

M107-SP 105 and M105 105mm
One inch



M107-SP 115 and M105 115mm
One inch



MWOJAM

First note: There are some things you can do when a machine, IBM for part is missing, broken, doesn't fit, or when all parts needed aren't listed in the MPOC. Of course you, when with non-membered, national things, find other an MPOC's involved.



1000 1000

1. The first step is to identify the problem or question that needs to be answered.



1. Parts substituted by BMO not set up in equipment's profile entered in database, and complete for company after BMO has installed.



11. Please see [1000000]
for more information
on [1000000]



1. **Answer parts (a) and (b) about the 1990s.**

[illegible]

- [illegible]



4. Justify the fact that the eigenvalues of A are $\pm i\sqrt{2}$.
5. Write down the matrix P that takes the system $\dot{x} = Ax$ into the form $\dot{y} = \Lambda y$ where $\Lambda = \begin{pmatrix} \lambda_1 & 0 \\ 0 & \lambda_2 \end{pmatrix}$.
6. Is your new variable $y_1(t)$ more useful than the original coordinate x_1 in describing the behavior of the system? And, if not, how can you be helped when studying a system like this example?



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- Assume that from 2000 to the present, the number of U.S. cars sold from 2000 to the present is 10 million.
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- Assume that from 2000 to the present, the number of U.S. cars sold from 2000 to the present is 10 million.

NOW
YOU
KNOW!



How a "wronged" kit gets straightened out may often depend on the MWO itself—the priority, the type of equipment involved, the quality of the good, how many kits are faulty, how many kits are in stock, etc.

No matter what happens, never discard a fouled-up MWO kit. Hang on to it, but don't sit on it, either. Report your problem sooner. The MWO-makers (and the material evaluation planners and the supply wheels) are counting on you and need your immediate word in this kind of foulup.

Your report gets the right people checking into things where the stuff is put together, and also forwarding foul-up info (as needed) to others who may be in your line.

Another good reason for quickly reporting problems with MWO kits is so's you'd see what can be salvaged "in-use" (and here may be tapped on to the MWO kit).

Remember, also, that under MIL-STD-883B CAN 120-103 your supply support can order non-FSW'd items under the "transportation rule". Just tell support your problem and clearly describe the items needed on your requisition.

You know, of course, that when an FSW'd item is an MWO made replacing, normally, all you have to do is quote the MWO number (and SB 9-1100 on your DA form 1346). But even with FSW'd items, when they're not in supply or available through local purchase, the resupply will be . . . rep, through resubstitution or fabrication.

HOSI HOLDER

Figure 1

When the 10,000-lb. rough terrain forklifts towed his car onto it, it didn't take long to see why so many hydraulic hoists were getting chopped and broken up. Trouble was the hoists were held together by a piece of old-fashioned wire . . . a better arrangement, so say the boys.

When we lowered the forks, the frame cut into the foam, and when we extended the forks while they were lowered to a certain position, the wire broke and reached up the foam.



THE



QED Means—Good thinking. Say, there's been the QED type solved the same nasty problem. They made a nice jump out of the world rather nice, like a good solution of the world's problems.

PADDED CELL

Dear Editor,

Put a rubber pad on each fork and you won't have to worry about denting, warping or otherwise damaging an *EX-100* wheelbarrow when you're testing it around with your *EX-1000*-lb rough terrain forklift.



You can make the pads out of a piece of sponge rubber or an old tire about an inch thick. Glue four wires (one made out of steel wire band shaped so to line the channel between the top of the forks and the mast).



"C. Gary Schuchman"
East Newark, New Jersey



Connie Rodd's BRIEFS



NO LUGGAGE BACK

There's a big temptation right before your eyeballs when you take your MTD 1 to the cross country. The folded wind-shield looks like a natural rack for carrying your gear. Of course, the carrier isn't an replacement glass, proves the windshield wasn't meant to be a luggage rack. And the amount of wrapping you'll have for the gear will make it viable in some cases.

SIGHT YOUR EIGHT PLUGS

Some people are getting a little too handy with the paint spray. The sight indicators on the front and left wheels of the MTD 1 PC get painted over so you can't see the oil level. This is a safety hazard. Check your MTD and be sure you can sight all the sight indicators. That way you can be sure the oil level is halfway up in the glass.

ADDRESS THAT SPACE

Head in flames and spark master muffler for your MTD or MTD 2-truck? If you had attention you should have one. Order it as Muffler, Exhaust Flame and spark master (34867-1-AT, \$12995). The FM is 2880-284-2217 and it's listed as Item 2 on page 35 of FM 2-2220-211-20F (March 1962).

SHUTTER CHUCKS

Flashbulbs and film canisters are made to order for camera shutters transported on trucks, but for some extra insurance look into a couple 4 x 4-in. tanks. Put one on the truck bed on each side of the shutter. Keeps it from shifting.

CATCH A LATCH

It's no longer necessary to rearrange, because an old latch or spring gate when you need a hard side panel latch for your 5-ton G-744 spring truck.

If you're in need of a latch . . . or catch, get one with these numbers:

FM 2840-F28-2879 for CATCH, left rear and right front.

FM 2840-F28-2879 for CATCH, right rear and left front.

STOW THE HANDSET

The cradle on the MTD receiver of the AM/BC-24 radio set wasn't made for riding. So, next time you gotta take the Truck-24 for a ride, lift the H-2020 handset from that cradle, disconnect the cord, and store the handset in the compartments case (C711242). You won't rock the H-20 off the cradle that way, and you'll keep it from getting damaged—or damaging components of the radio set.

right now

*Would You Stake Your Life on
the Condition of Your Equipment?*



USING LIGHT- WEIGHT OIL?

IN WINTER
WHEN YOU'RE USING
LIGHT-WEIGHT OIL
**CHECK LEVEL
OFTEN**

DANGER! LIGHT-WEIGHT OIL
IS USED MUCH FASTER IN
ENGINES...SO KEEP AN EYE ON
YOUR DIPSTICK- OR YOU'LL
BURN OUT YOUR ENGINE!