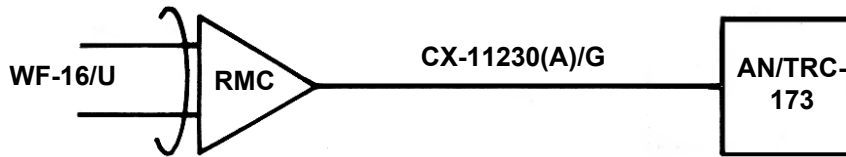# DIGITAL GROUP MULTIPLEXING TELEPHONES

MOS: 31L

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited

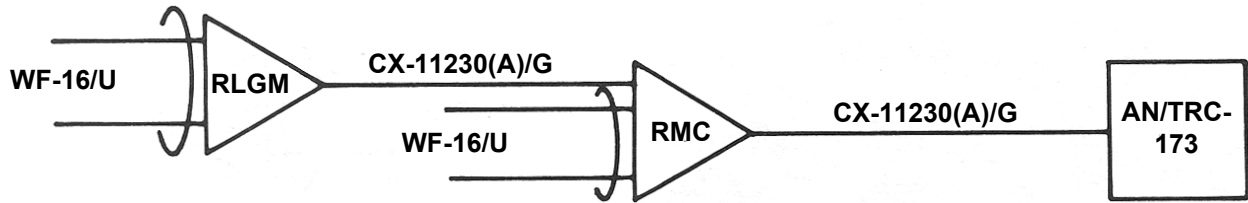**DISTRIBUTION: US Army Training Support Centers (TSCs)**

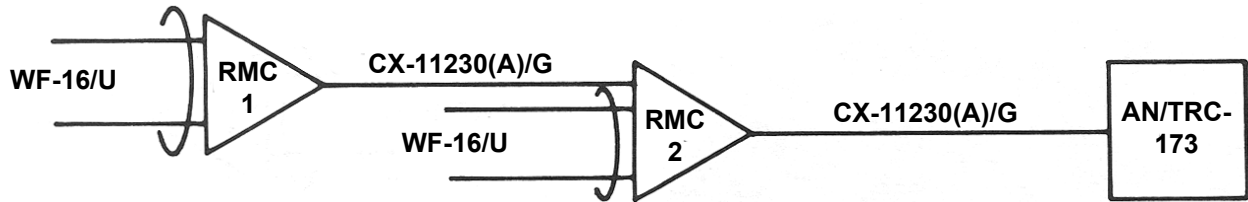**HEADQUARTERS DEPARTMENT OF THE ARMY**

JULY 1990

Signal Flow with RMC

1. **RMC (TD-1234/TTC multiplexer combiner) can have from 1 to 8 local channels connected to analog telephones, DSVTs, or DNVTs with data rates of 16 or 32 KB/s. It can also have a low group at data rates of 128 to 288 KB/s.**

2. **High group in/out has 8 channels at 288 KB/s connecting RMC to AN/TRC-173 using CX-11230(A)/G. The maximum distance is 2 miles.**

3. **All analog telephones, DSVTs and DNVTs are connected to the RMC with cable telephone WF-16/U. The maximum distance is 1/4 mile.**
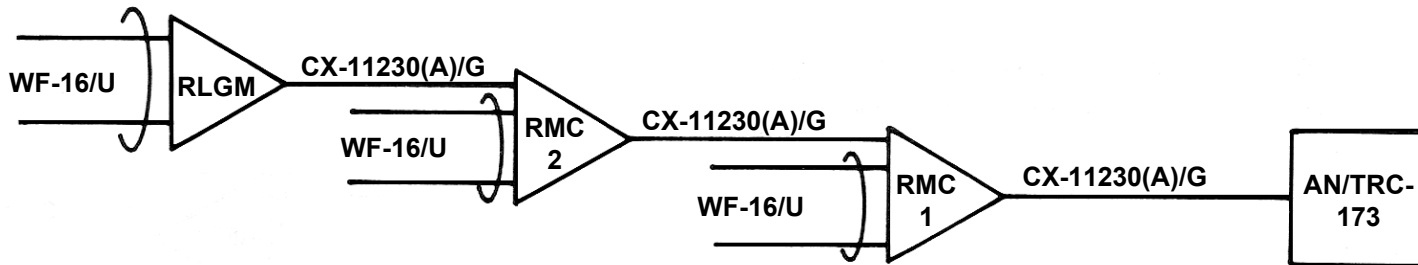
4. **RMC thumb wheel is set on 5.**

Signal Flow with RMC and RLGM

1. **RLGM (TD 1233/TTC multiplexer) group in/out goes to RMC low group in/out with 4 channels at 144 KB/s connected by CX-11230(A)/G. The maximum distance is 2 miles.**

2. **High group in/out has 8 channels at 288 KB/s connected by CX-11230(A)/G from RMC to AN/TRC-173. The maximum distance is 2 miles.**

3. **RLGM provides 4 channels at 32 KB/s connected by cable telephone WF 16/U to analog telephones, DSVTs, or DNVTs.**

4. **RMC provides 8 channels at 32 KB/s connected by cable telephone WF-16/U to analog telephones, DSVTs, or DNVTs.**

5. **RLGM thumb wheel is not used; RMC thumb wheel is set on 5.**

Signal Flow with Two RMC

1. **RMC 1 to RMC 2: RMC 1 high group in/out goes to RMC 2 low group in/out. This provides 8 channels at 288 KB/s. They are connected by CX-11230(A)/G. The maximum distance is 2 miles.**

2. **High group in/out has 16 channels at 576 KB/s from RMC to AN/TRC-173 connected by CX-11230(A)/G. The maximum distance is 2 miles.**

3. **RMC 1 provides 8 channels at 32 KB/s connected to analog telephones, DSVTs, or DNVTs using cable telephone WF-16/U. The maximum distance is 1/4 mile.**

4. **RMC 2 provides 8 channels at 32 KB/s connected to analog telephones, DSVTs, or DNVTs using cable telephone WF-16/U. The maximum distance is 1/4 mile.**

5. **RMC I thumb wheel is set on 5; RMC 2 thumb wheel is set on 7.**

Signal Flow with Two RMC and One RLGM

1. **RLGM to RMC 2: RLGM group in/out goes to RMC 2 low group in/out with 4 channels at 144 KB/s. This is connected by CX-11230(A)/G. The maximum distance is 2 miles.**

2. **RMC 2 to RMC 1: RMC 2 high group in/out goes to RMC 1 high group in/out with 8 channels (4 provided by RMC 2 and 4 provided by RLGM) at 288 KB/s. This is connected by CX-11230(A)/G. The maximum distance is 2 miles.**

3. **RMC 1 to AN/TRC-173: High group in/out has 16 channels at 576 KB/s. This is connected by CX-11230(A)/G. The maximum distance is 2 miles.**

4. **RLGM provides 4 channels at 32 KB/s. This is connected to analog telephones, DSVTs, or DNVTs. The connection is by cable telephone WF-16/U. The maximum distance is 1/4 mile.**

5. **RMC 2 provides 4 channels at 32 KB/s. This is connected to analog telephone, DSVTs, or DNVTs. The connection is by cable telephone WF-16/U. The maximum distance is 1/4 mile.**

6. **RMC 1 provides 8 channels at 32 KB/s. This is connected to analog telephones, DSVTs, or DNVTs. The connection is by cable telephone WF-16/U. The maximum distance is 1/4 mile.**

7. **RLGM thumb wheel is not used; RMC 2 thumb wheel is set on 5, RMC 1 thumb wheel is set on 7.**

NOTES