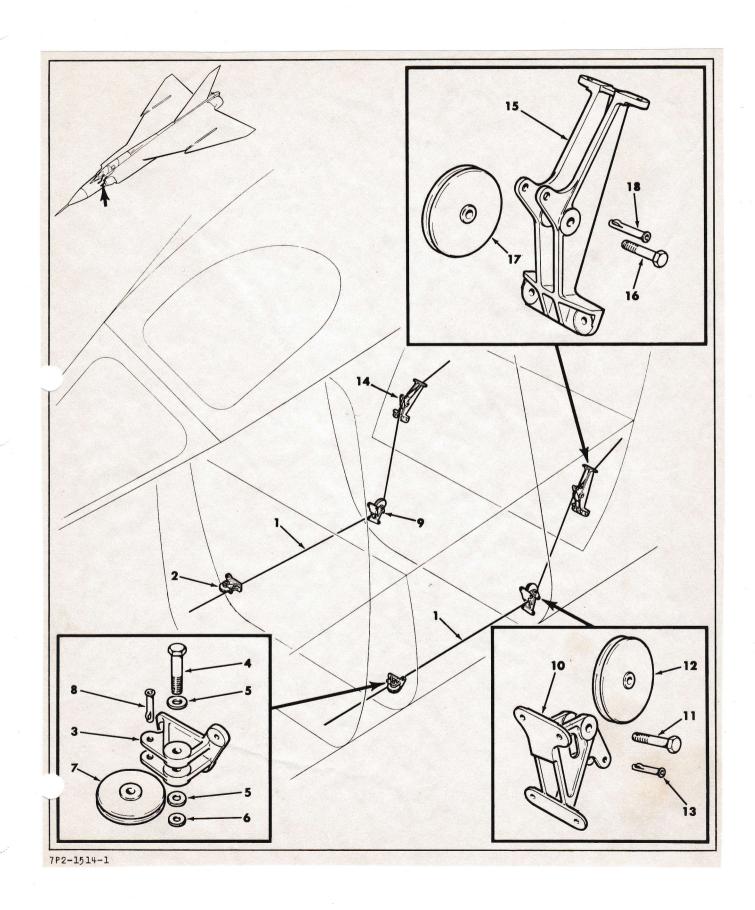
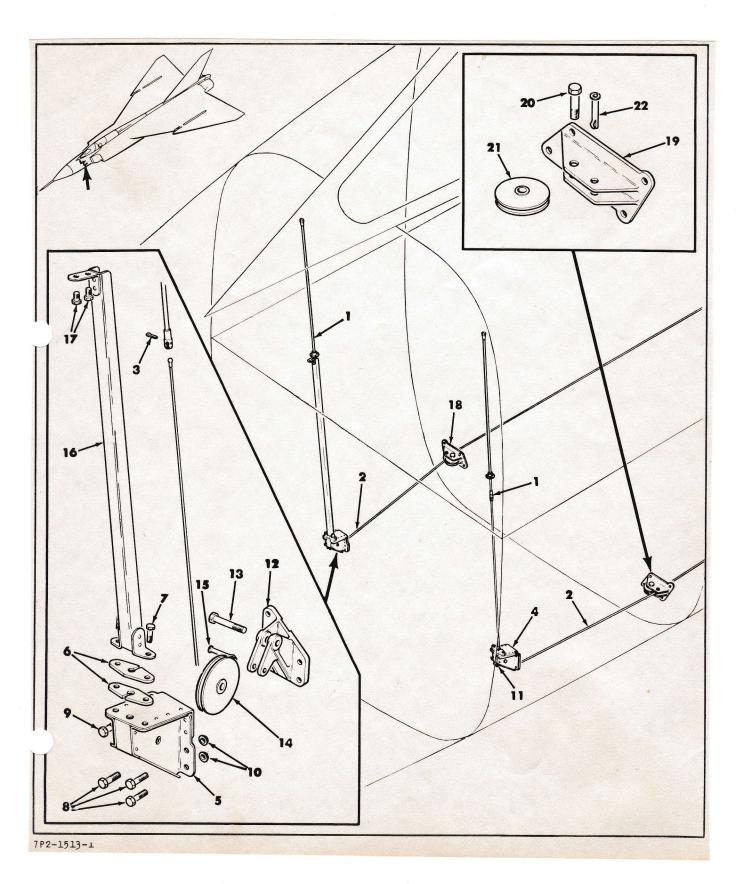


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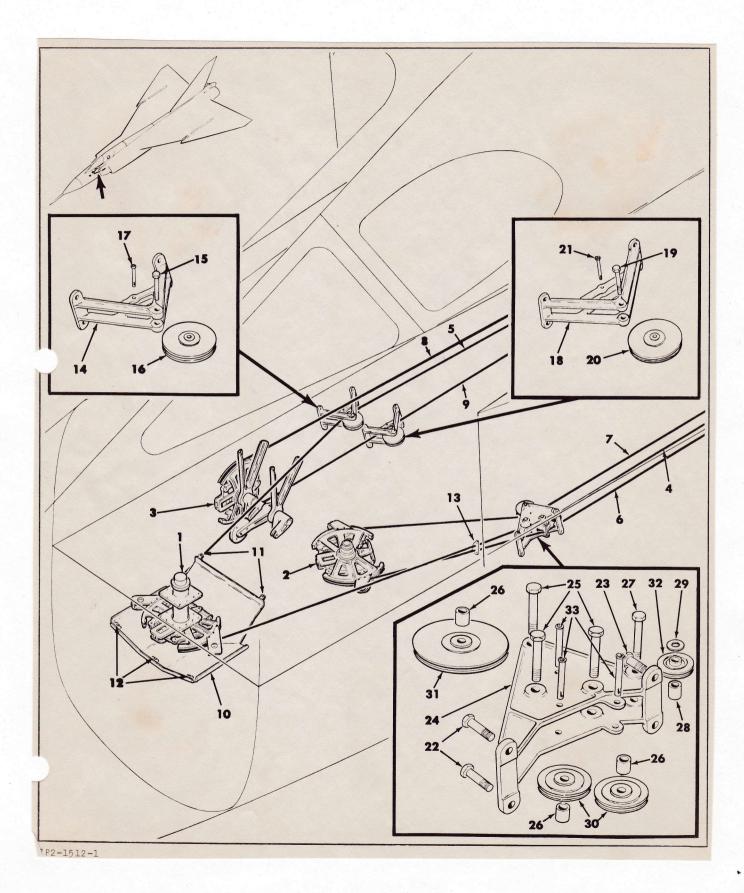




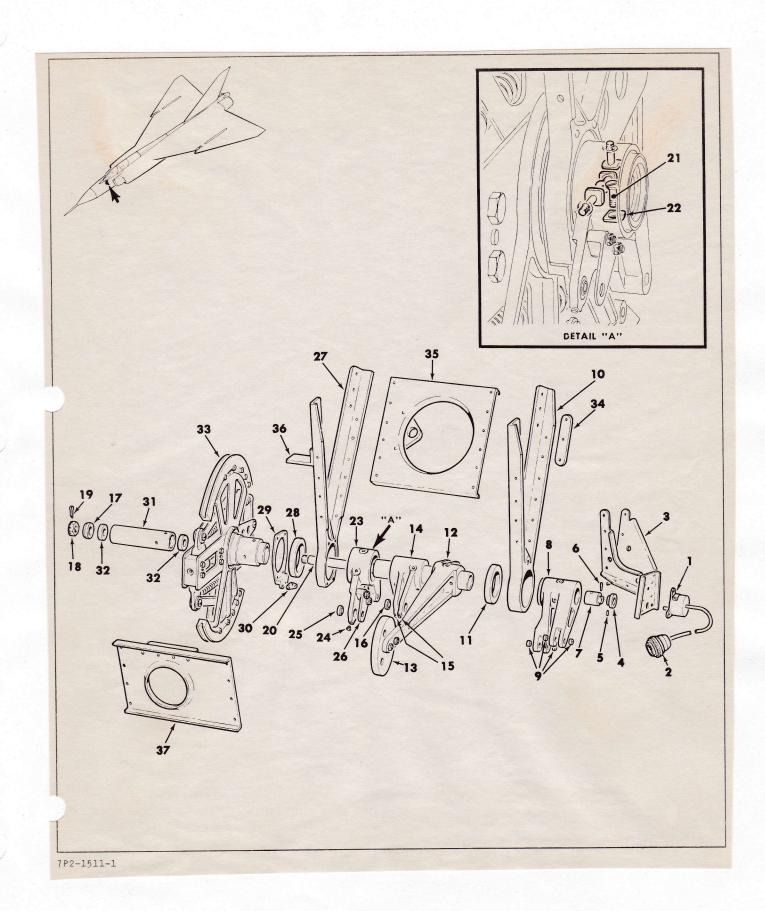




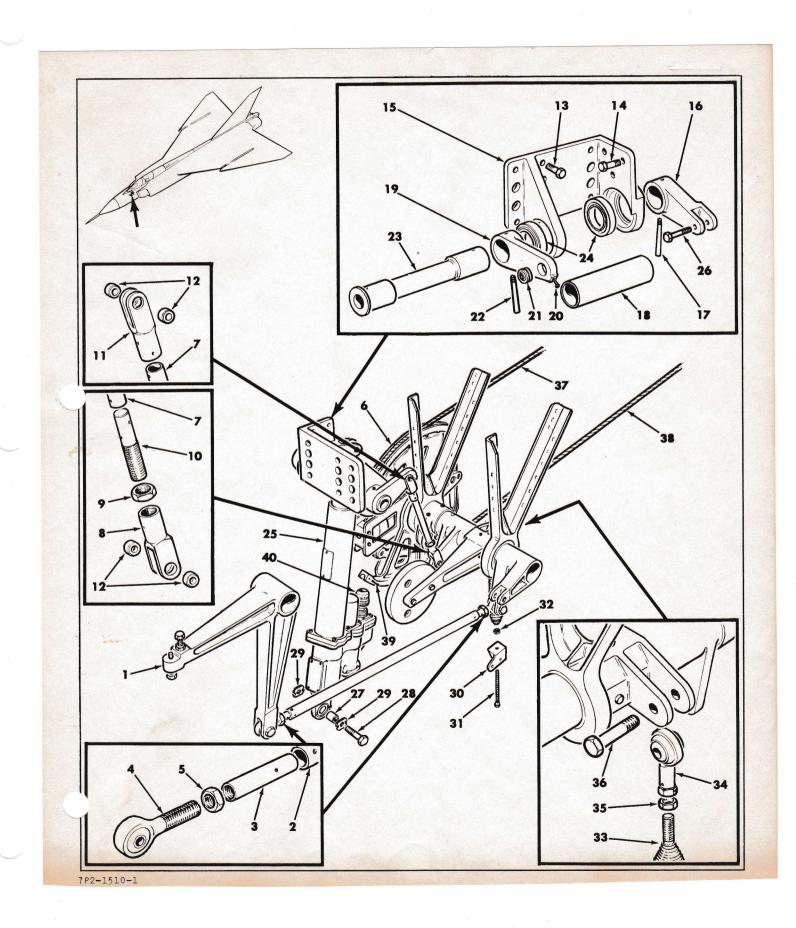


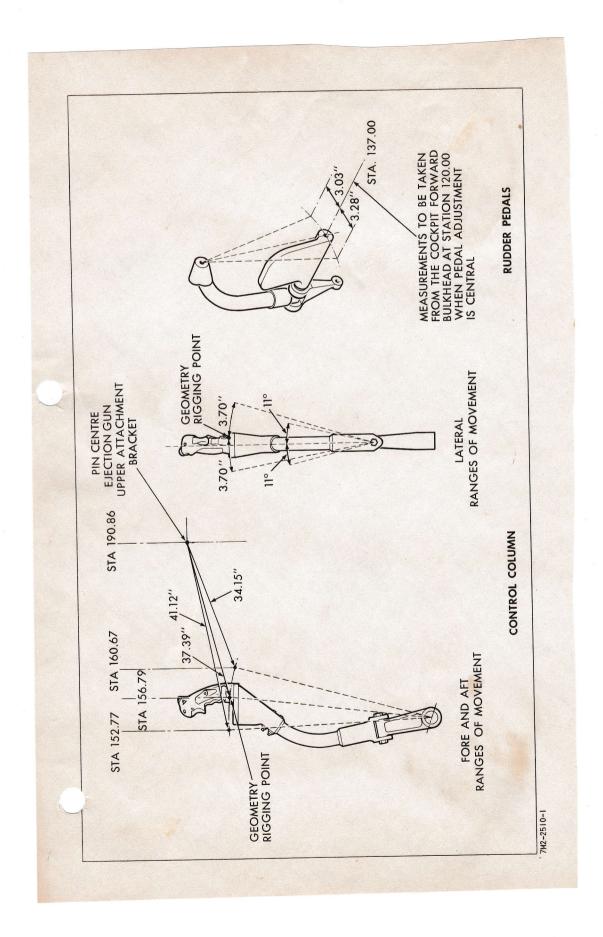




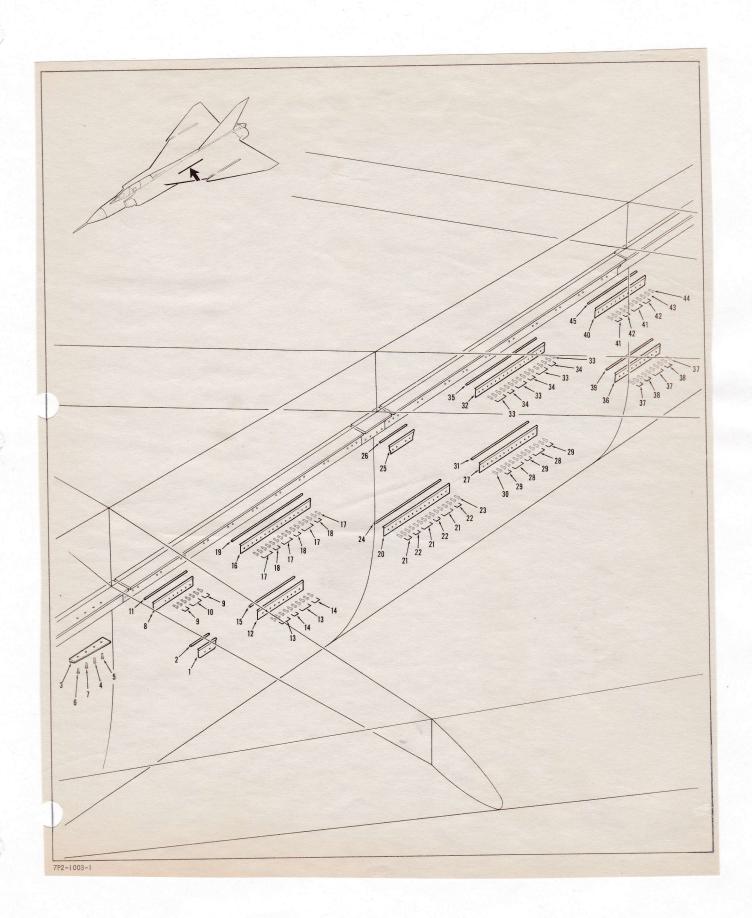




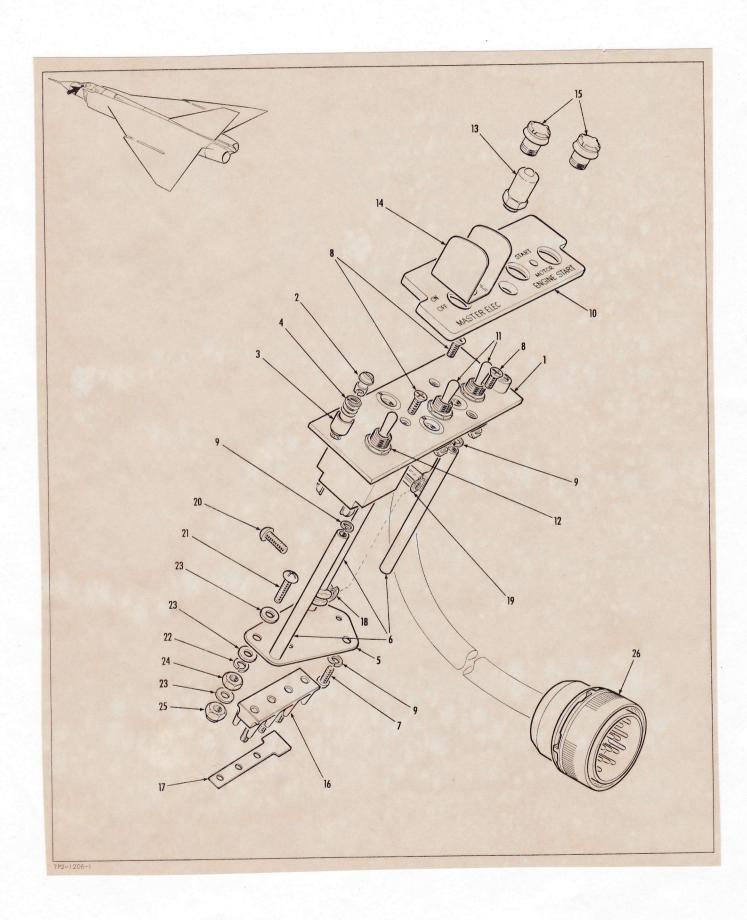




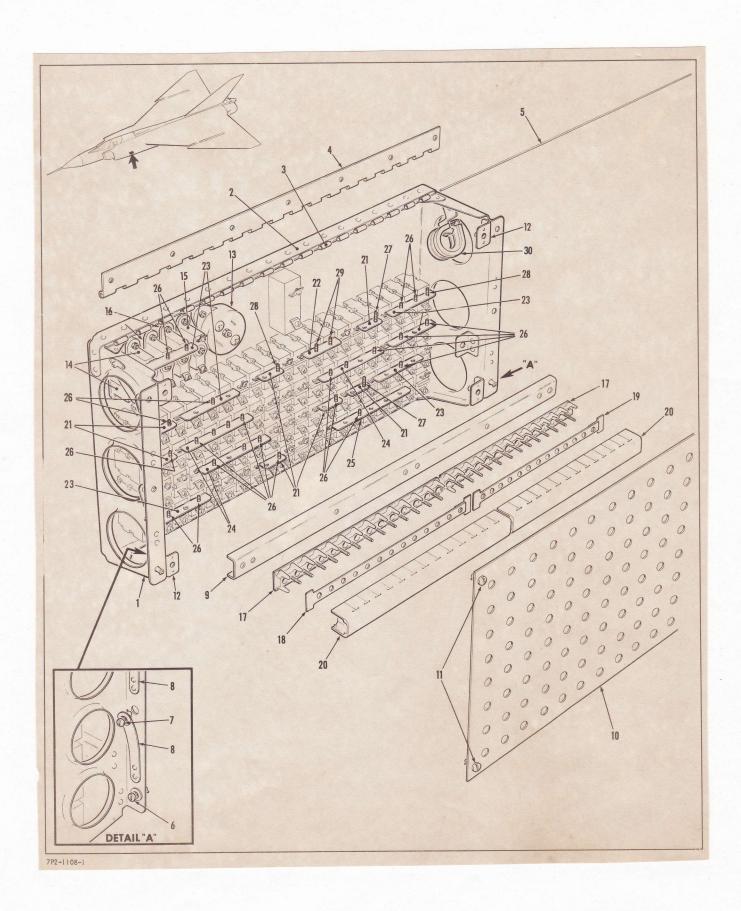








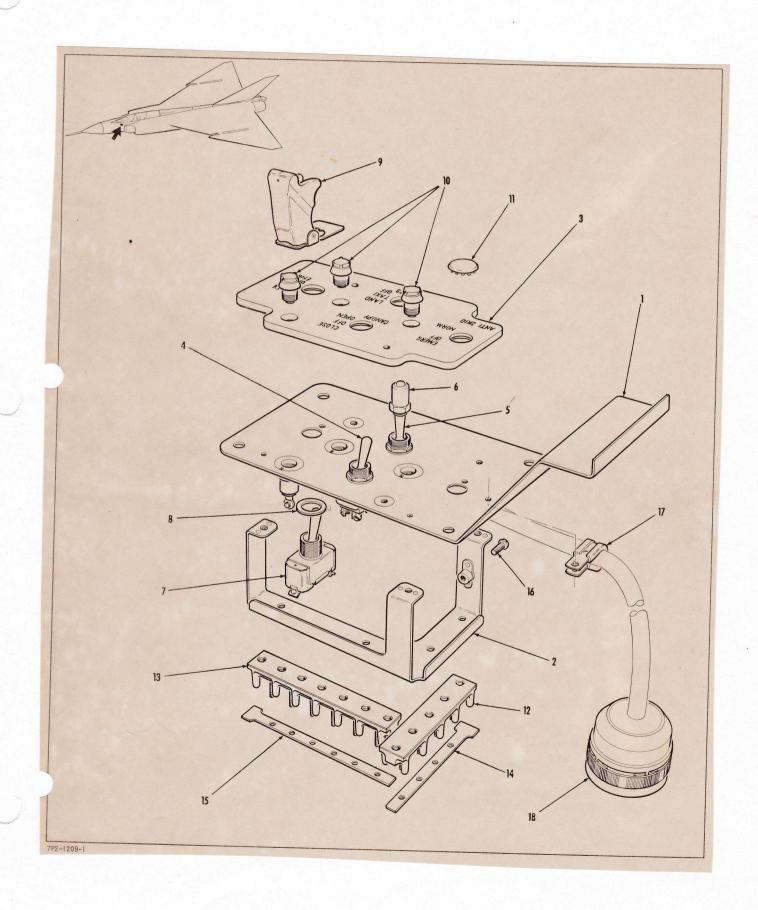


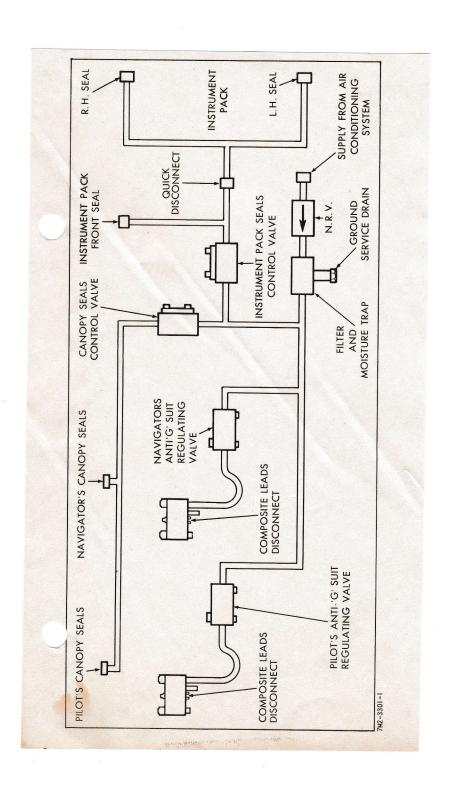






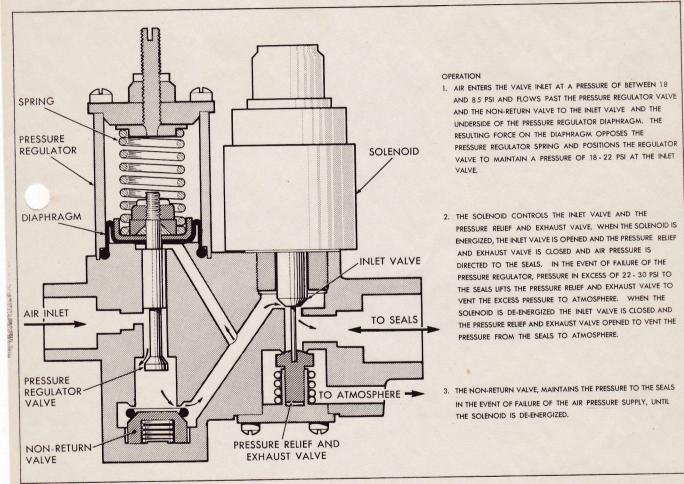








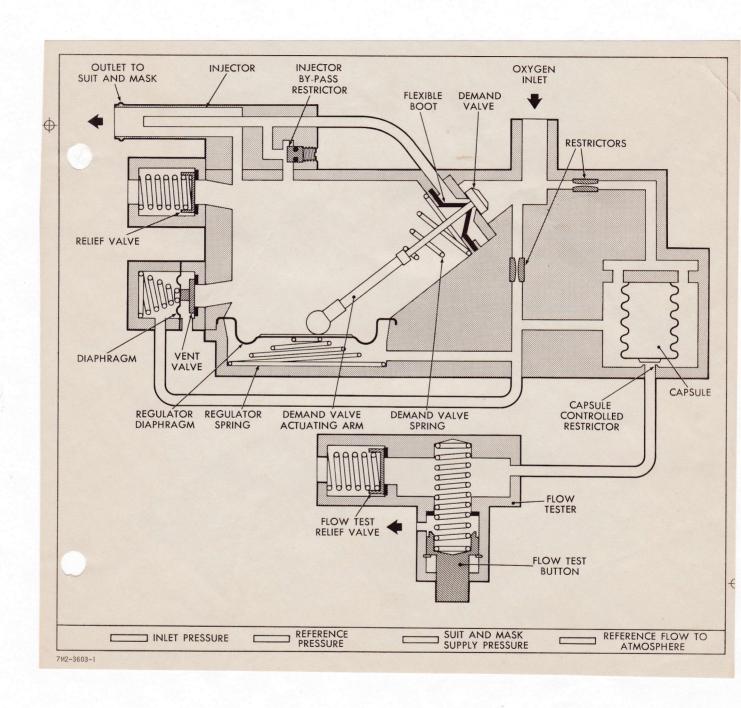
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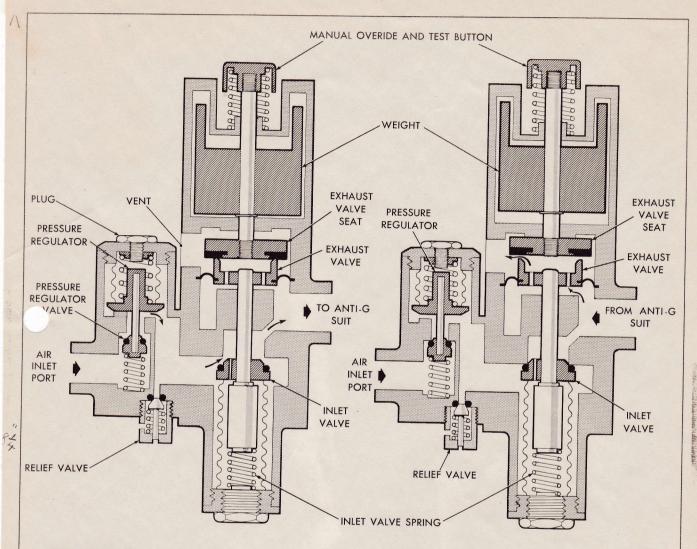
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## SUIT INFLATING

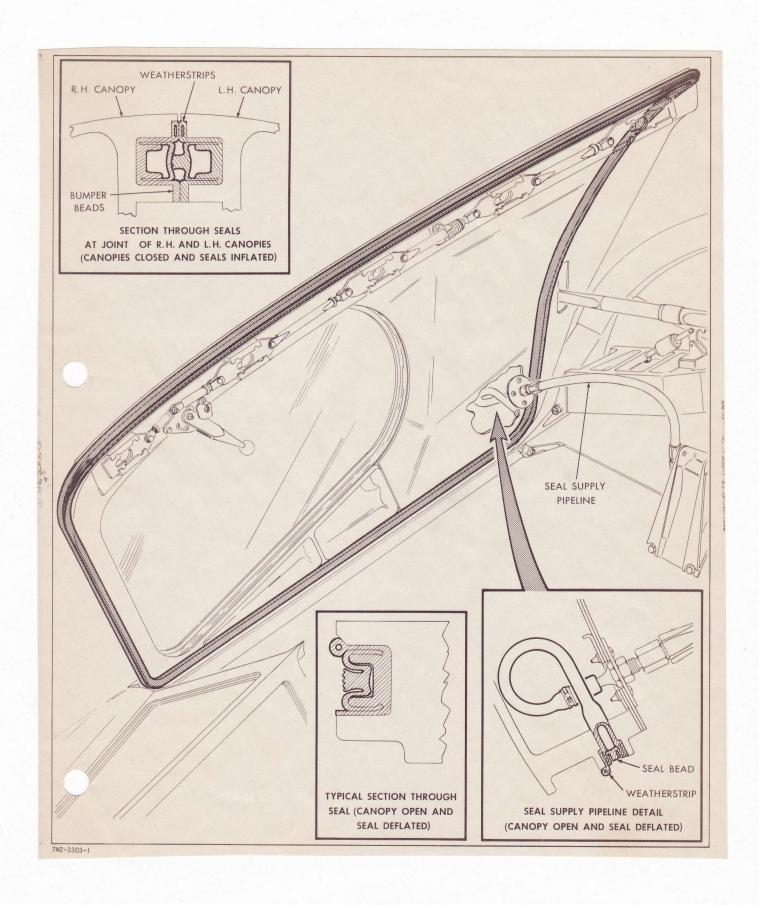
- AIR ENTERS THE AIR INLET PORT AT A PRESSURE OF 18-85 PSIG AND FLOWS PAST THE PRESSURE REGULATOR VALVE. THE PRESSURE REGULATOR IS VENTED THROUGH THE SLACK THREAD OF THE PLUG AND MAINTAINS A PRESSURE OF 9-11 PSIG AT THE INLET VALVE.
- 2. WHEN A POSITIVE LOAD IN EXCESS OF 1.5-1.8G CAUSES THE WEIGHT TO DESCEND, THE EXHAUST VALVE CLOSES AND FORCES THE CENTRAL ROD DOWNWARDS, OPENING THE INLET VALVE. AIR FLOWS THROUGH THE INLET VALVE TO THE ANTI-G SUIT AND TO THE UNDERSIDE OF THE EXHAUST VALVE SEAT. THE G LOAD IMPOSED ON THE WEIGHT AND THE AIR PRESSURE ACTING ON THE UNDERSIDE OF THE EXHAUST VALVE SEAT, POSITION THE INLET VALVE TO SUPPLY THE ANTI-G SUIT WITH PRESSURE IN RATIO TO THE G LOADING.

## SUIT EXHAUSTING

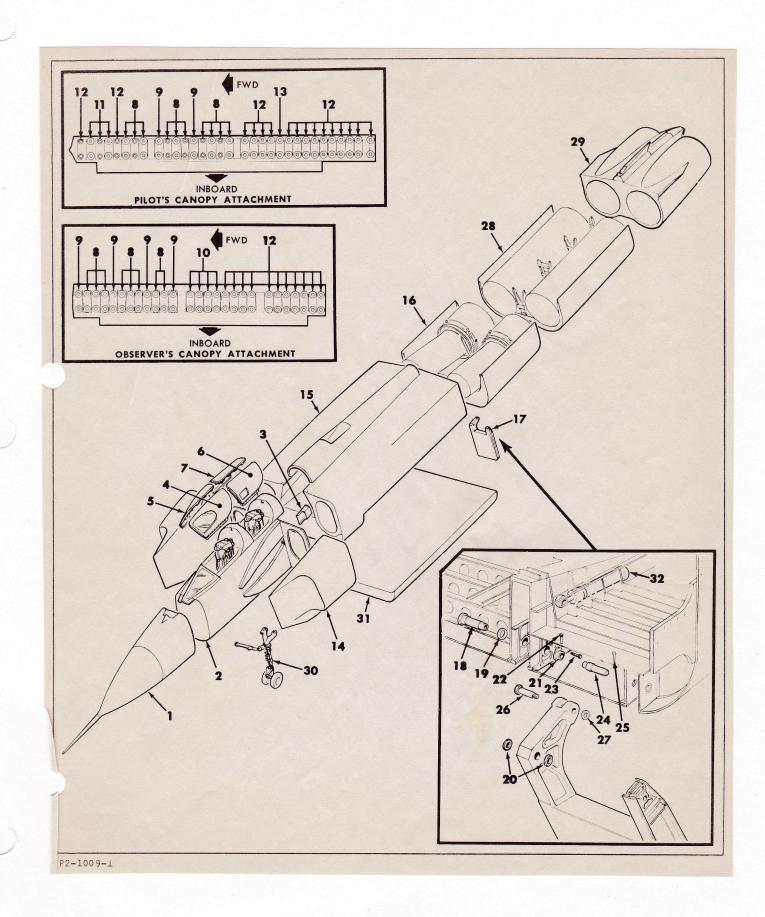
- 3. WHEN THE G LOAD IS REMOVED, THE WEIGHT RISES UNDER THE ACTION OF THE INLET VALVE SPRING AND THE AIR PRESSURE ACTING ON THE UNDERSIDE OF THE EXHAUST VALVE SEAT. THIS ACTION CLOSES THE INLET VALVE, WHICH SHUTS OFF THE AIR SUPPLY TO THE SUIT AND OPENS THE EXHAUST VALVE. THE ANTI-G SUIT IS VENTED TO ATMOSPHERE THROUGH THE OPEN EXHAUST VALVE.
- 4. THE RELIEF VALVE RELIEVES EXCESS PRESSURE WITHIN THE VALVE IN THE EVENT OF FAILURE OF THE PRESSURE REGULATOR.

7M2-3304-1





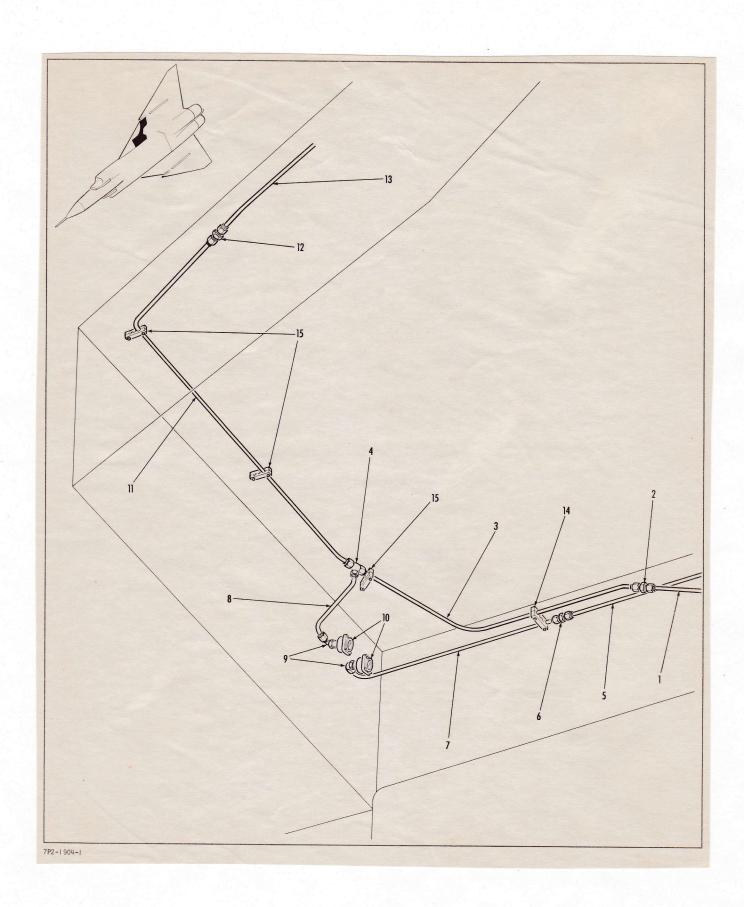




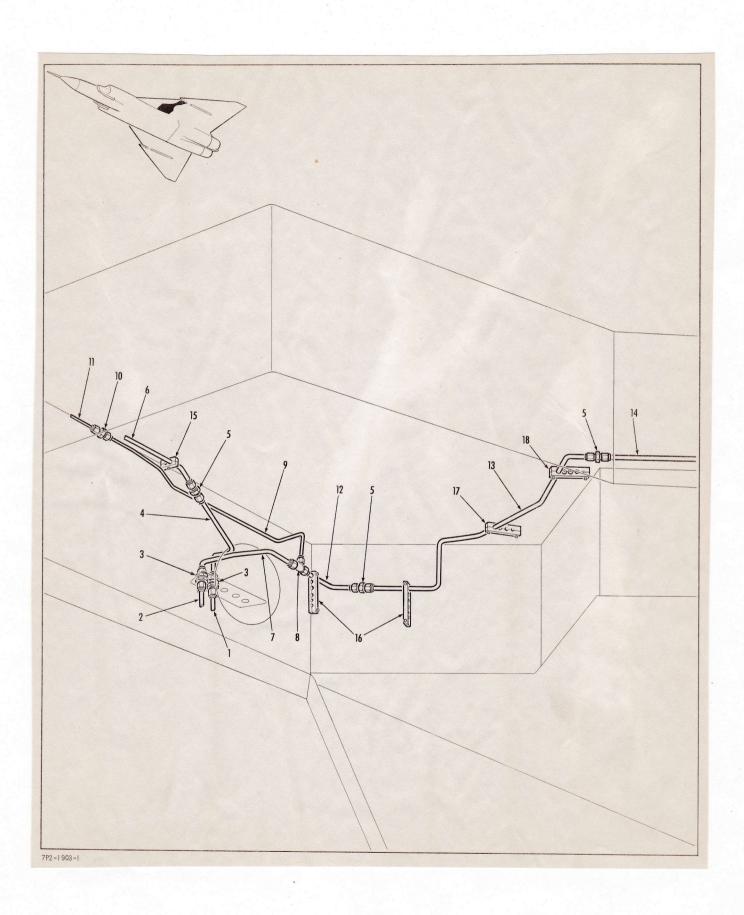




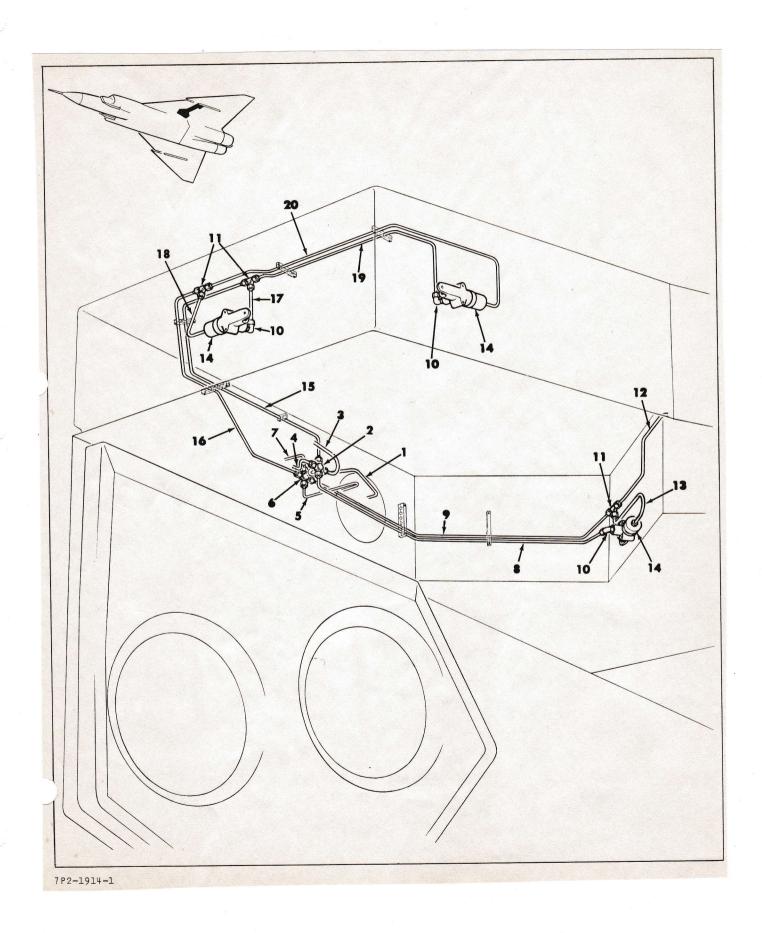




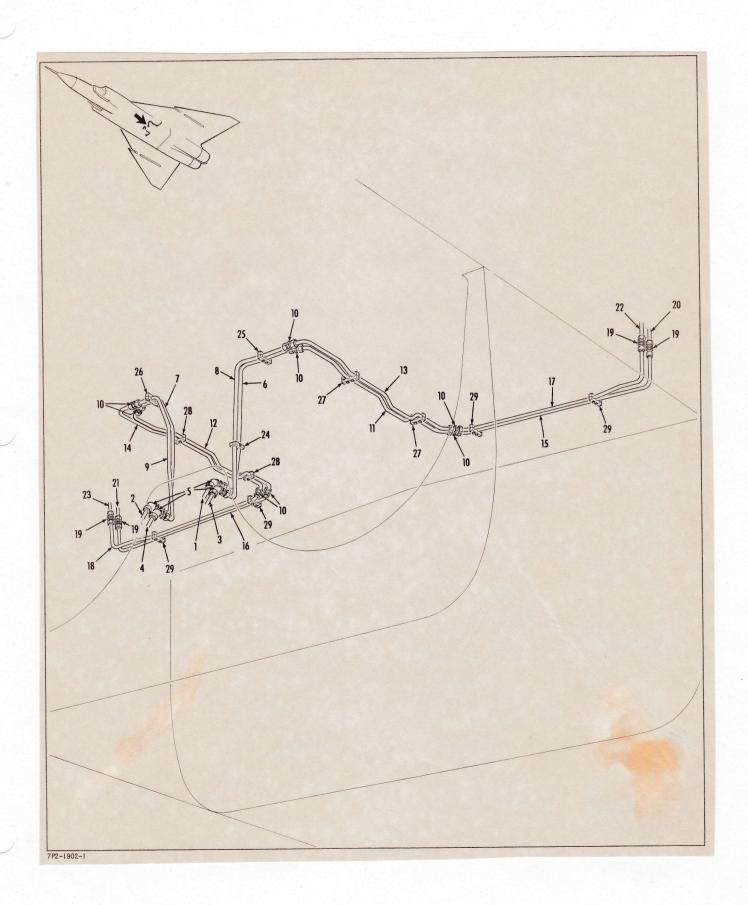




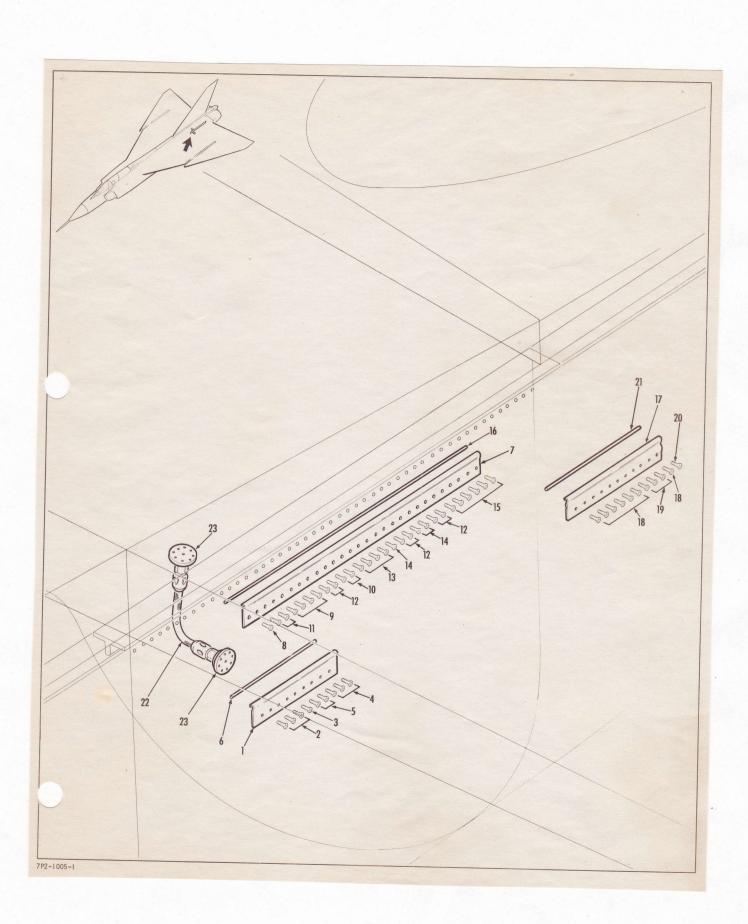




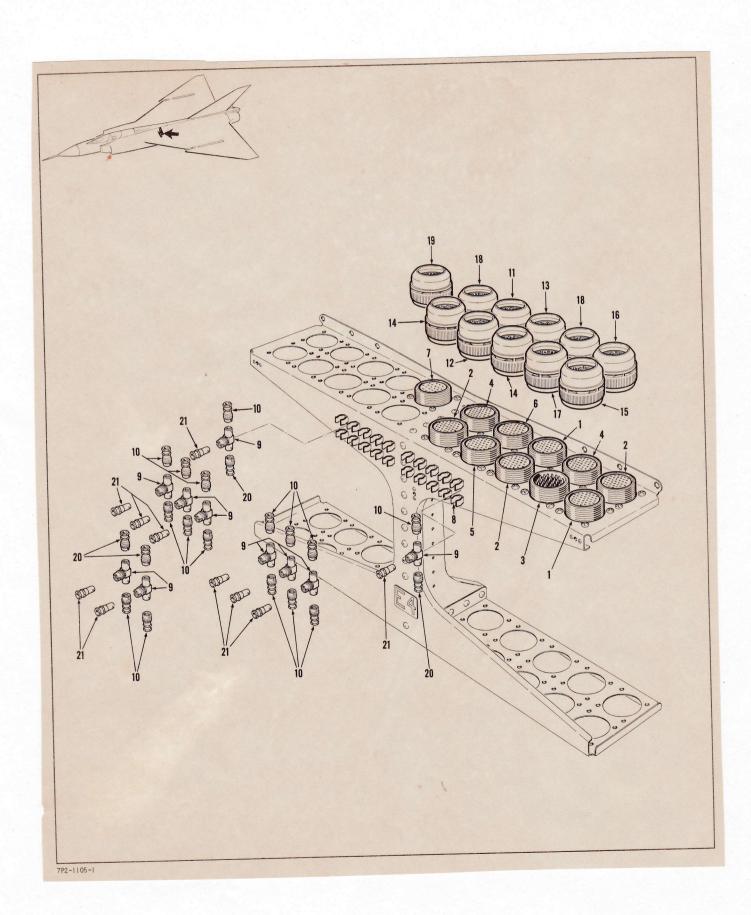




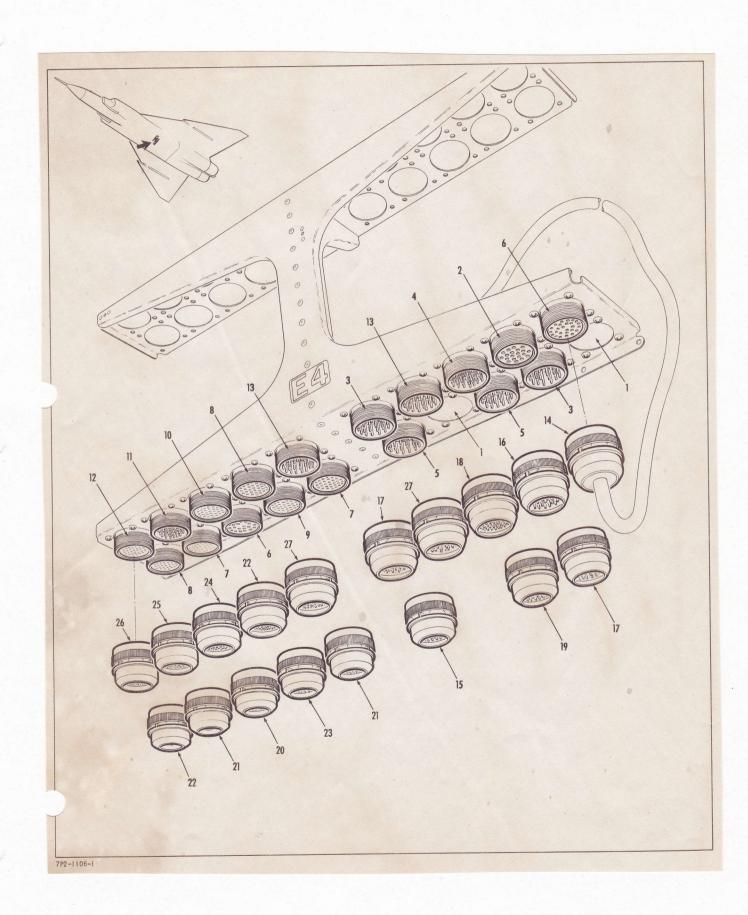




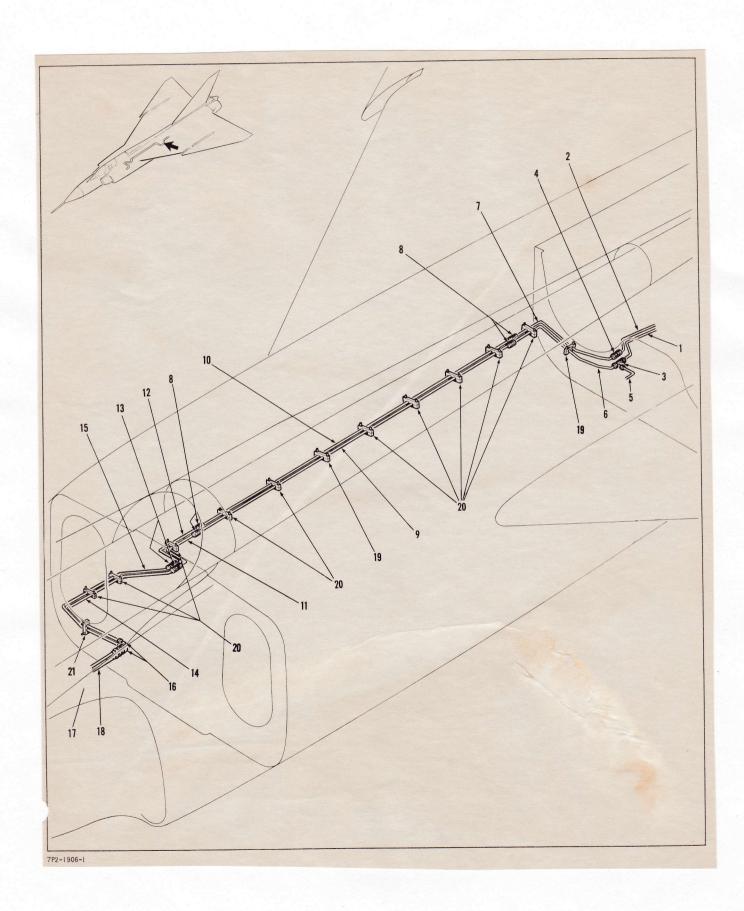




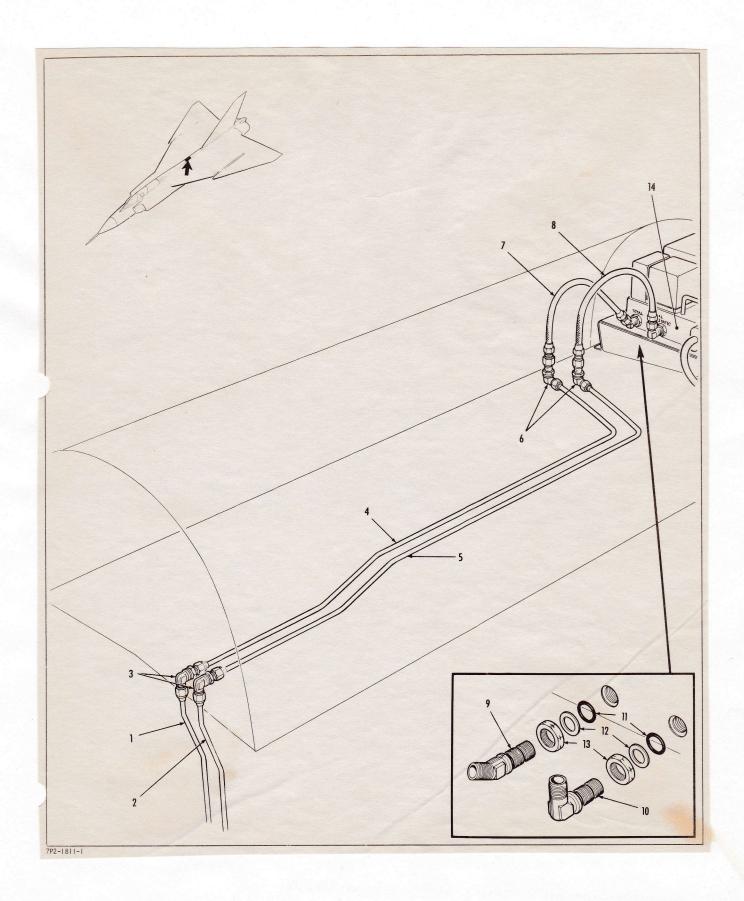




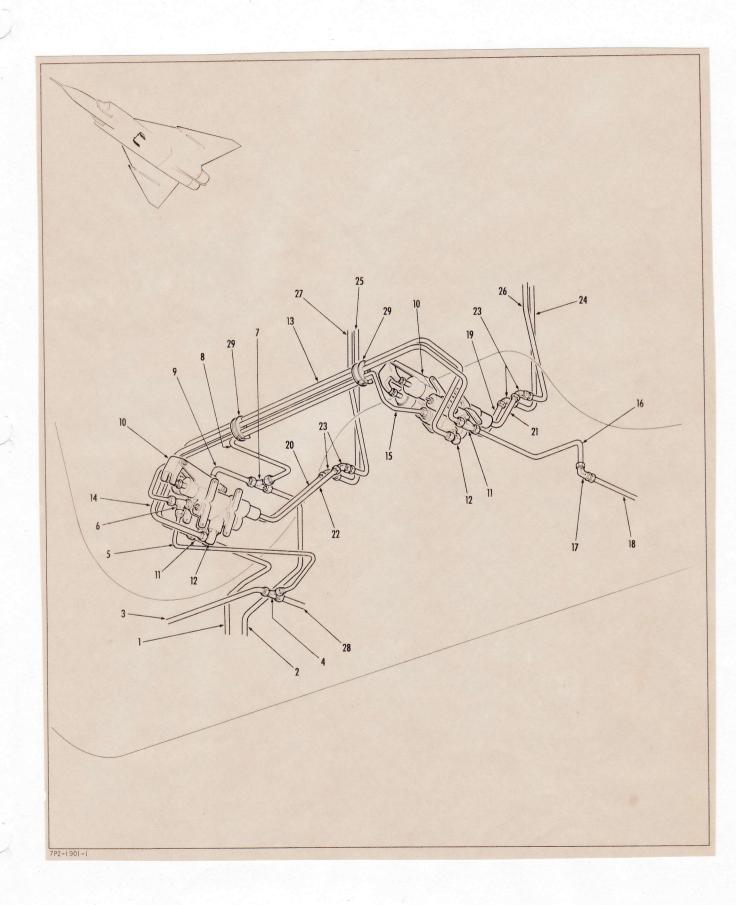




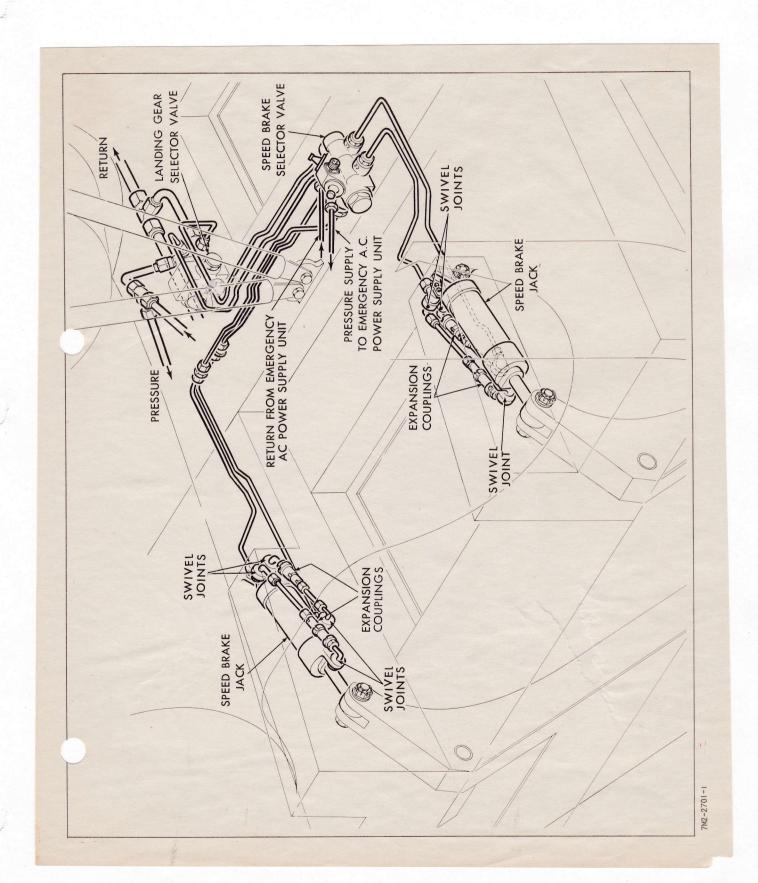




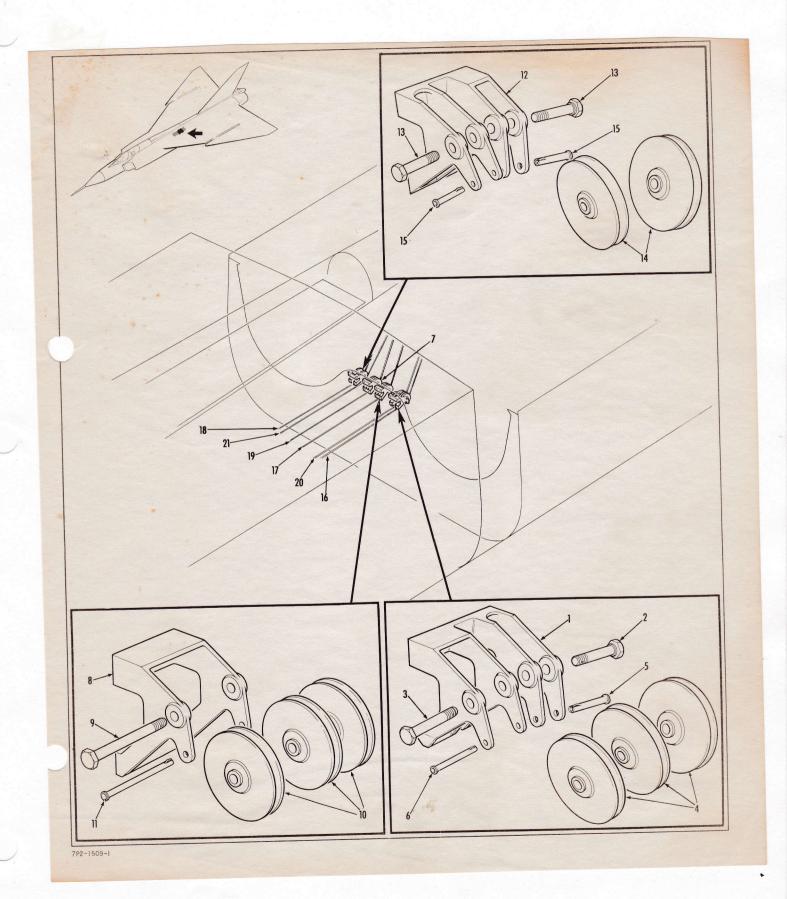




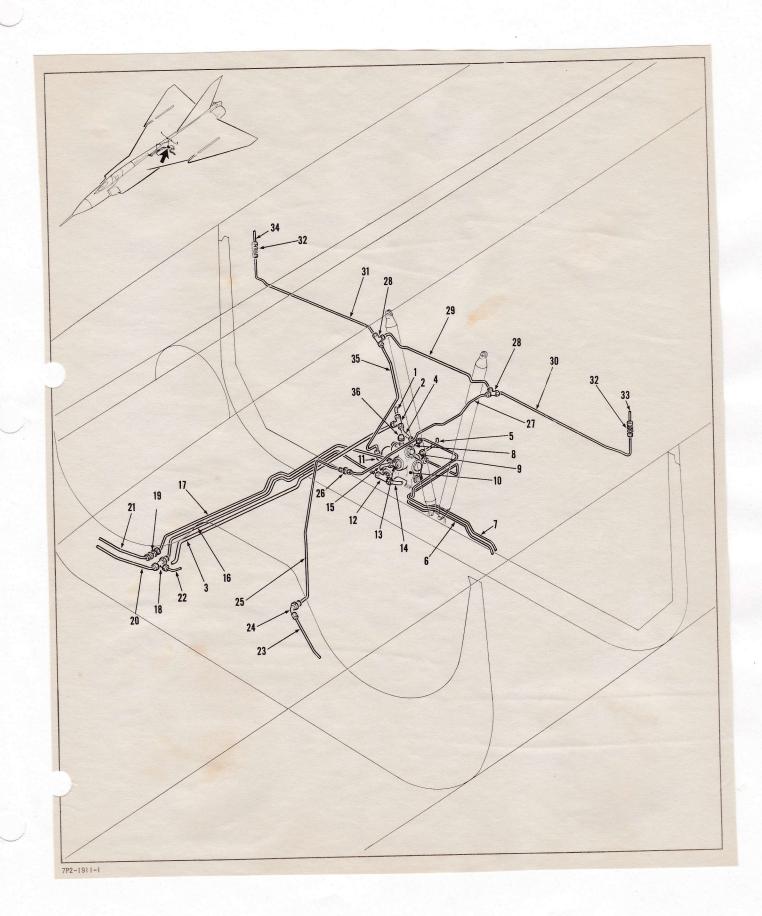




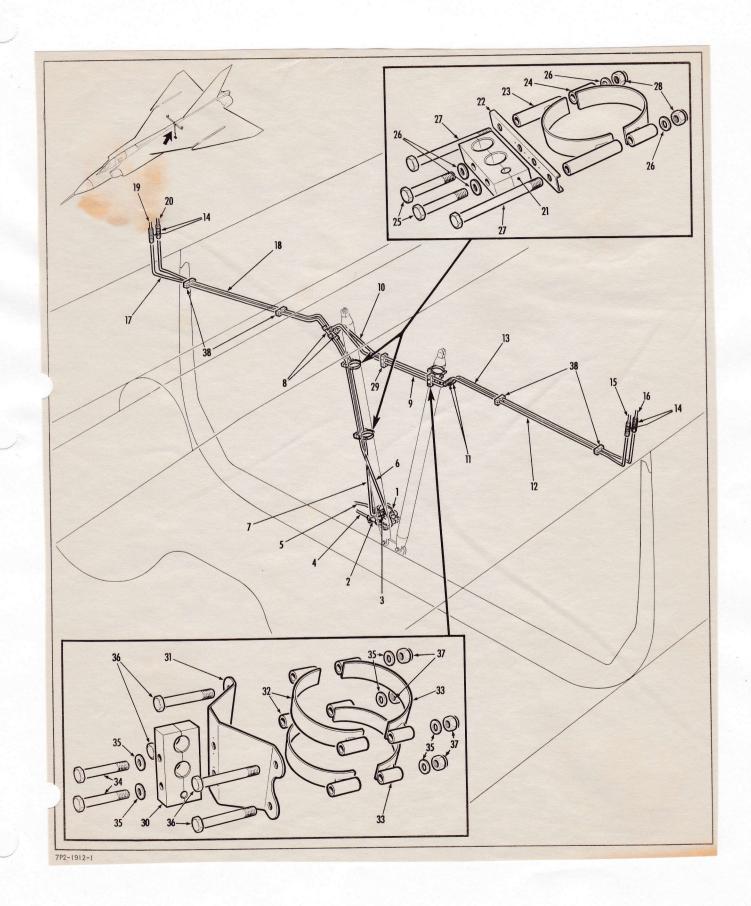




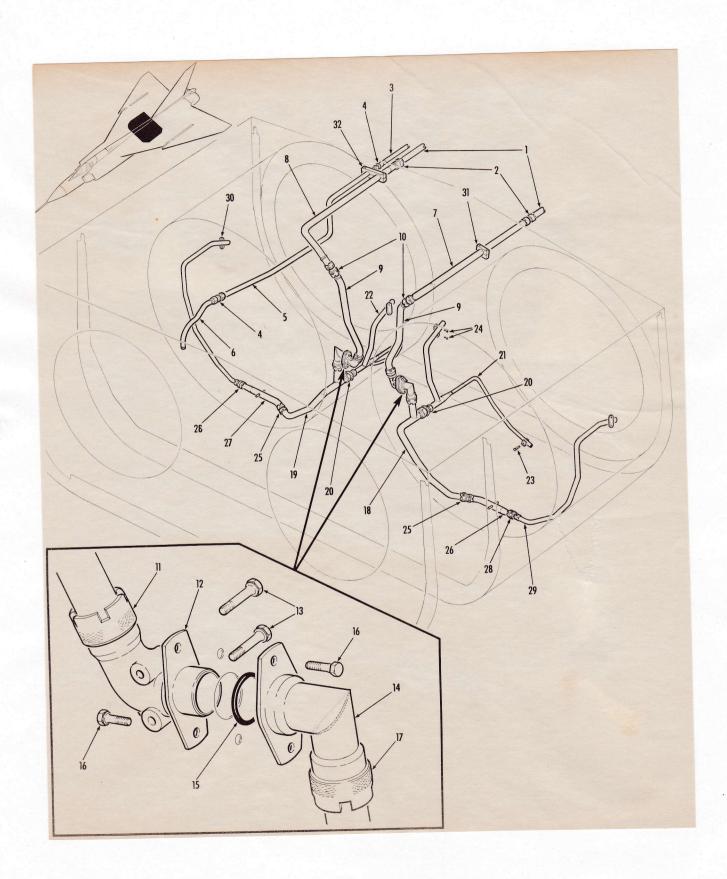




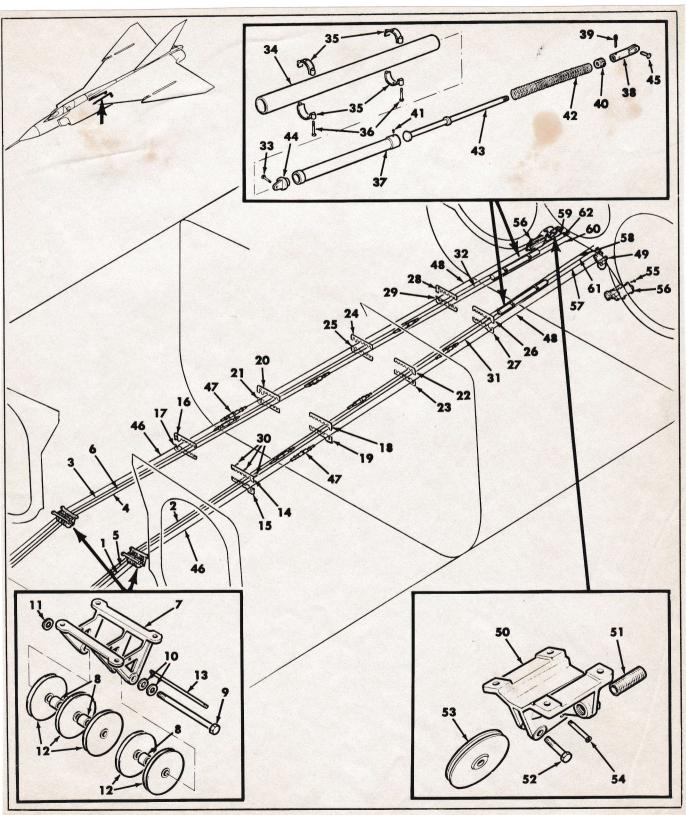






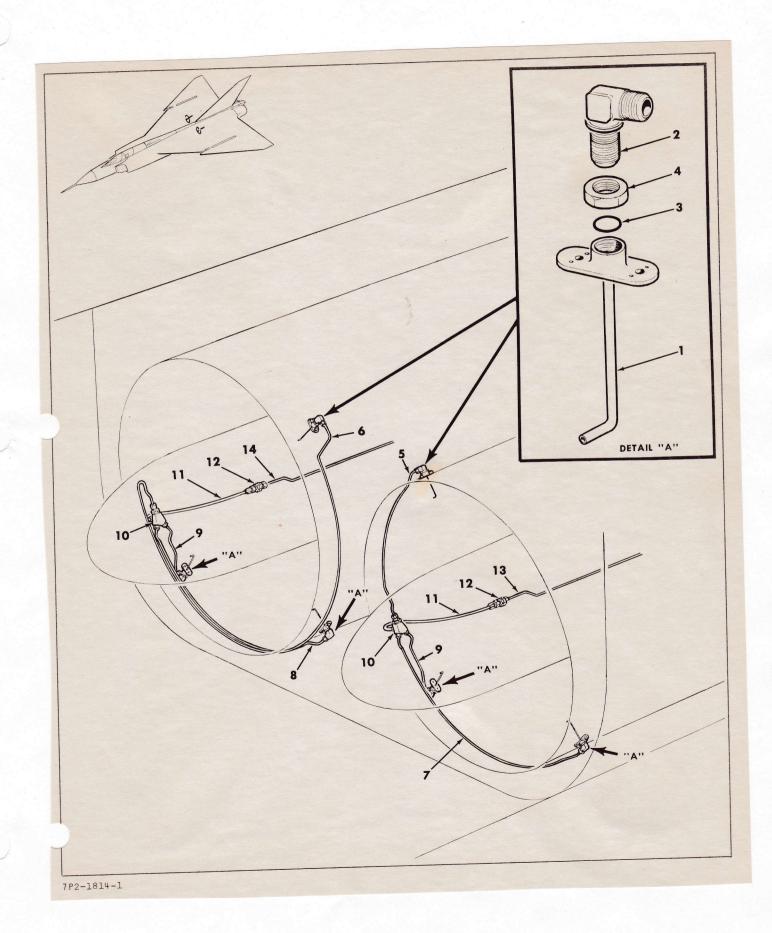




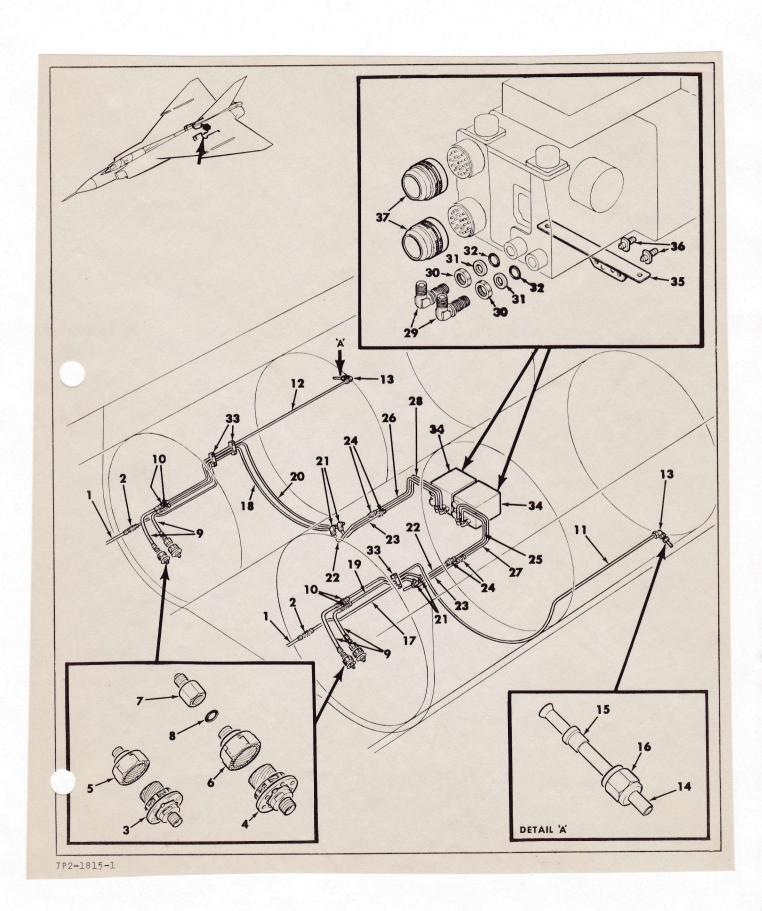


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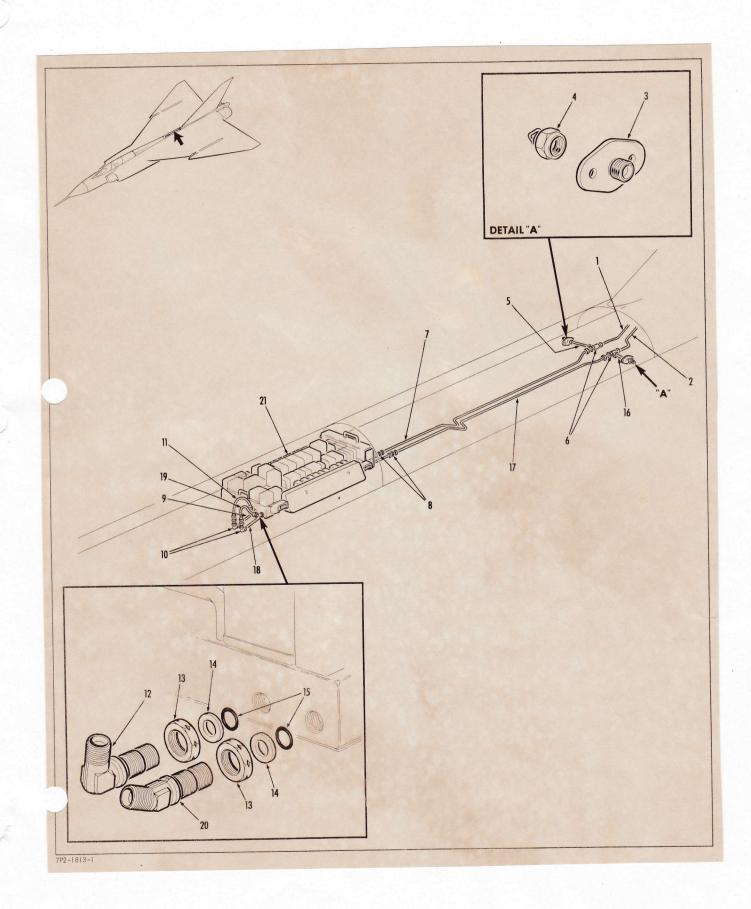




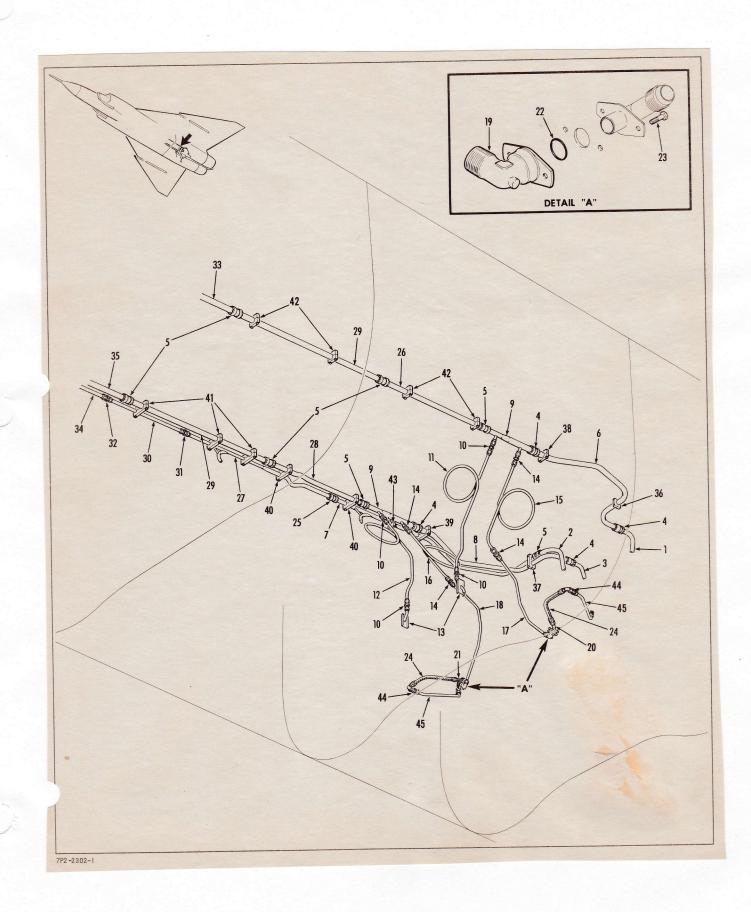




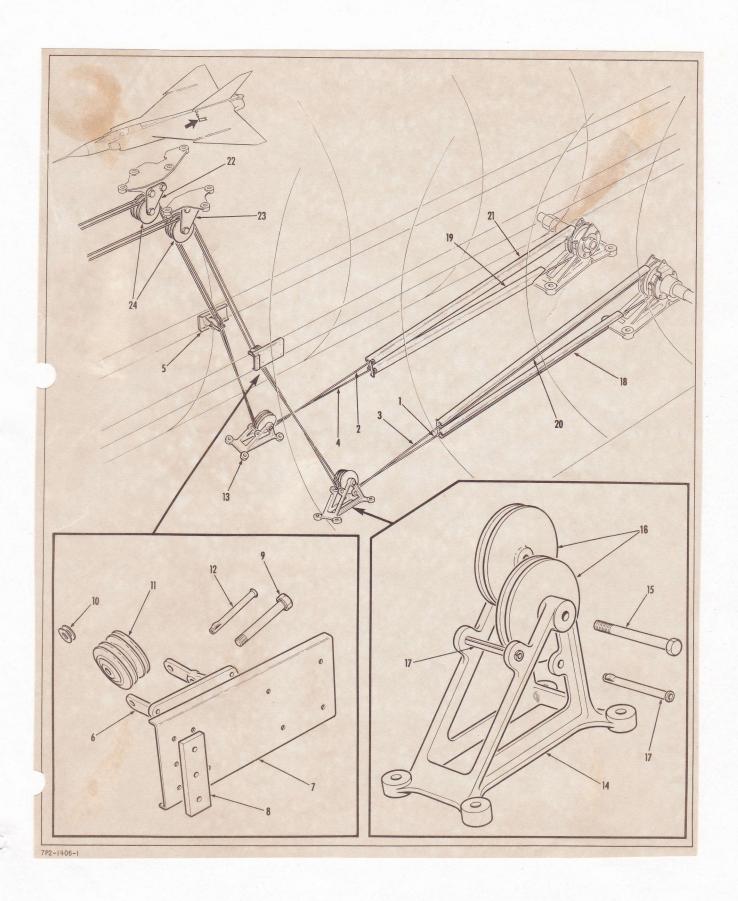




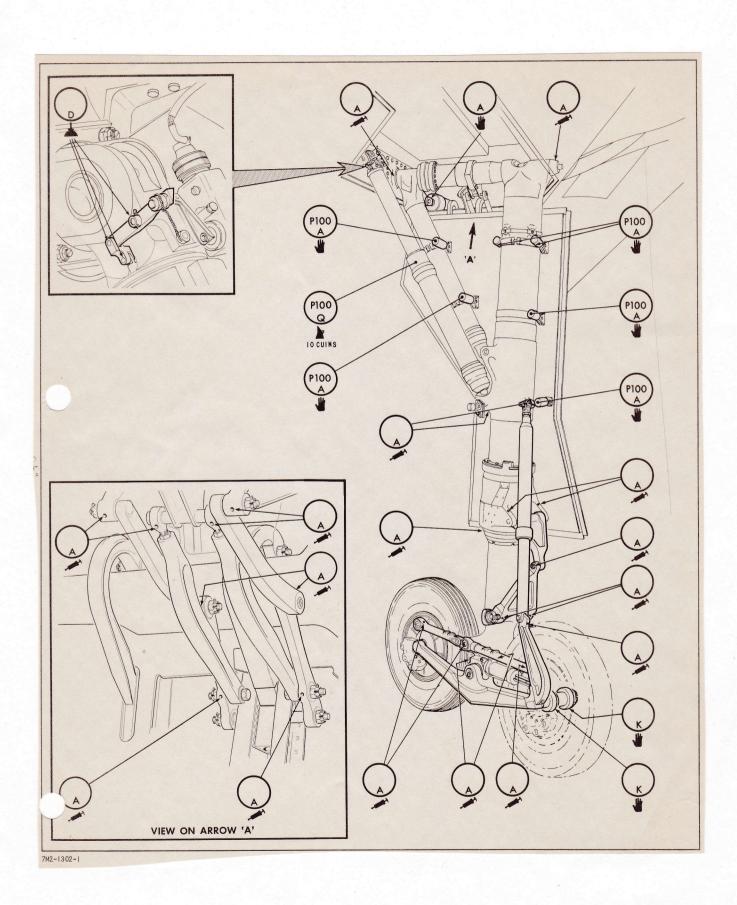




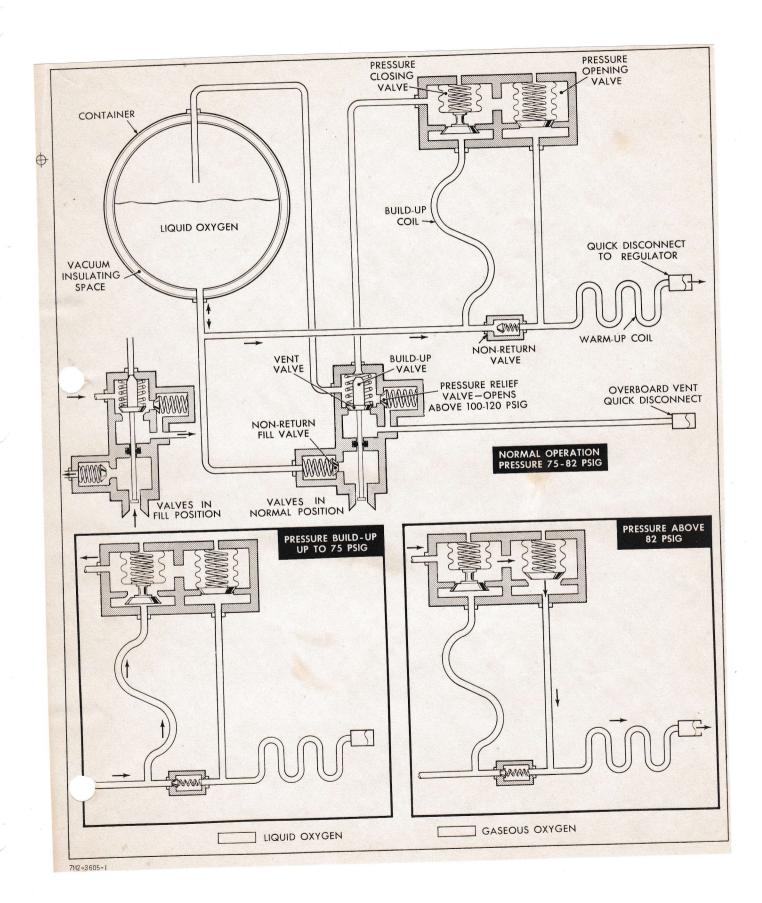




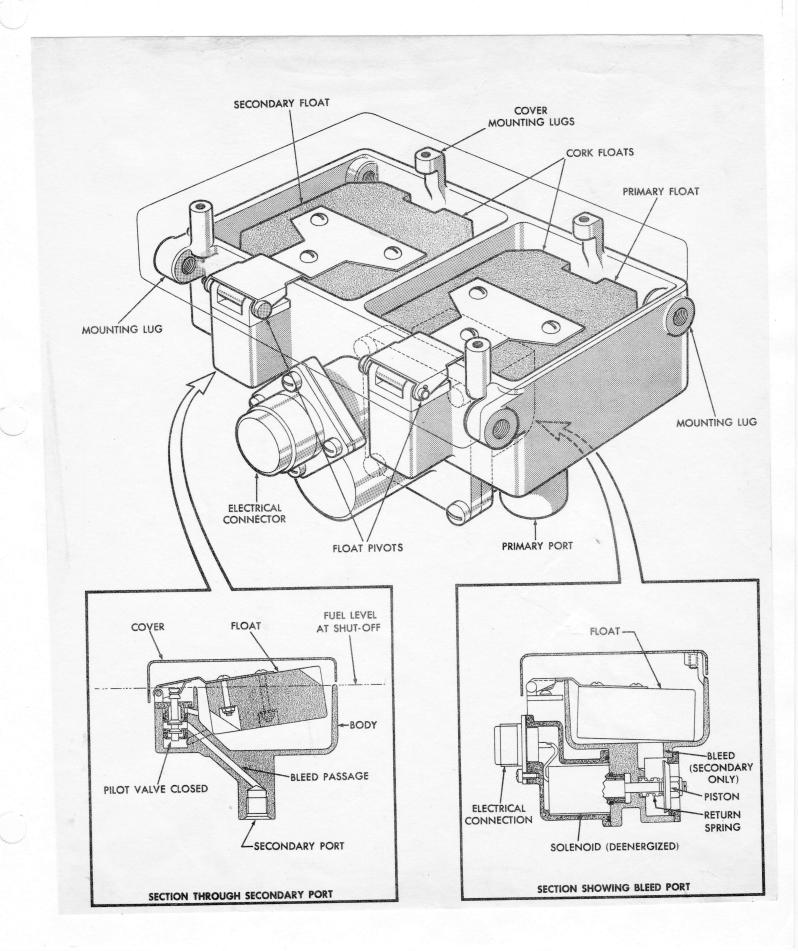


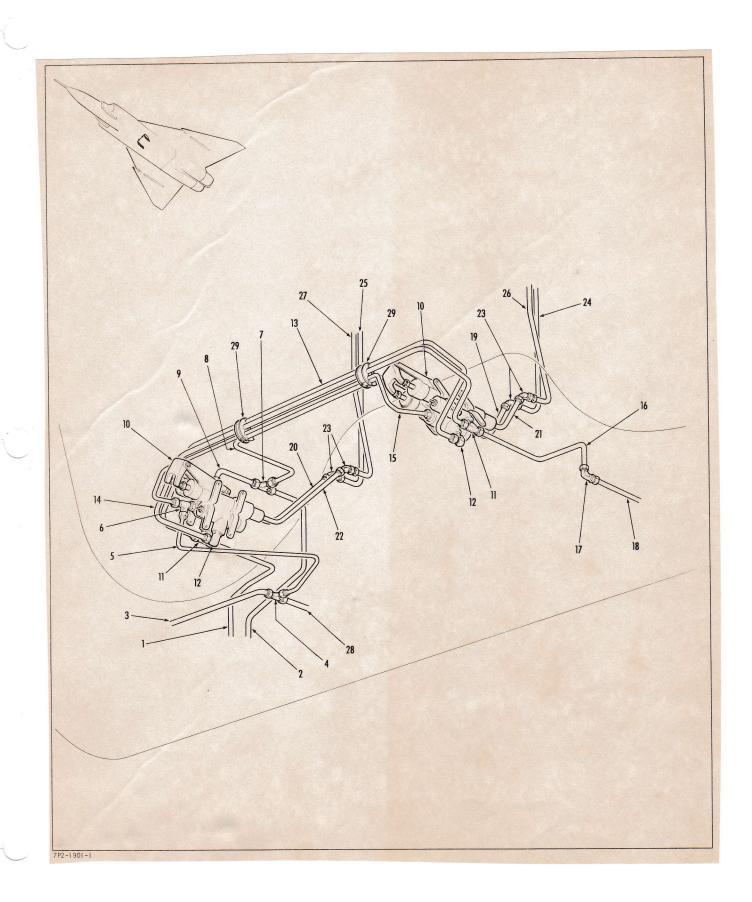


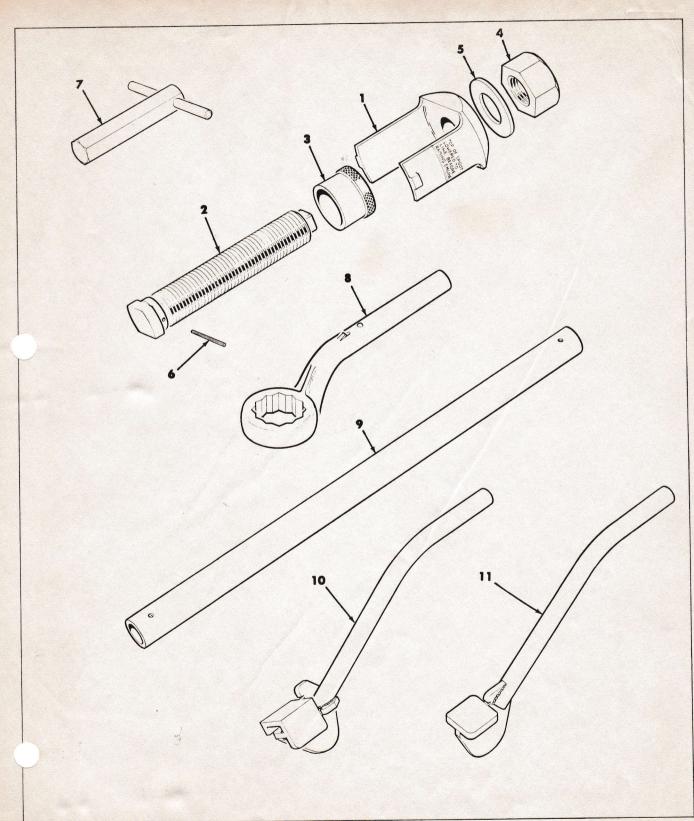




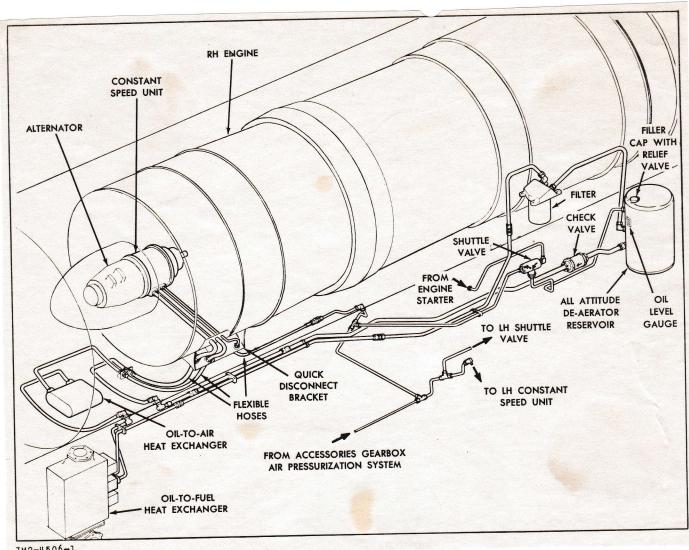












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