

Figure 5-49. Bearing Housing Locknuts

Remove Mainshaft

NOTE

- The mainshaft fourth gear, third gear, second gear and first gear are integral parts of the shaft. Damage to any gear requires mainshaft replacement.
- Always replace bearing housing bearings.

1. See Figure 5-50. Using 714 (OTC HORSESHOE LOCK RING PLIERS.), remove retaining ring.
2. Remove dog ring (3), guiding hub (2), mainshaft fifth gear (4) and bearing.

NOTE

Do not press directly on the end of the mainshaft. Use a spacer between the end of the mainshaft and the press ram.

3. Press mainshaft out of bearing housing bearing.
4. Replace bearing housing bearing. See procedure later in this section.

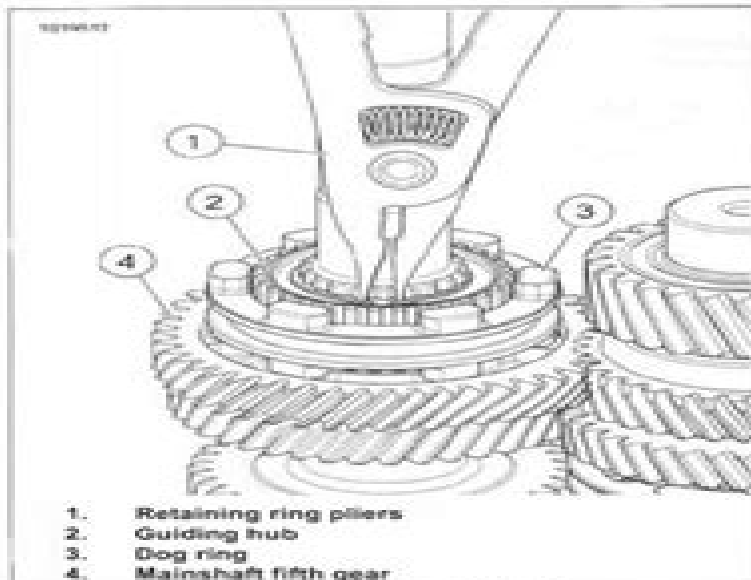


Figure 5-50. Mainshaft Fifth Gear

Remove Countershaft

NOTE

Do not press directly on the end of the countershaft. Place a spacer between the end of the countershaft and the press ram.

1. If mainshaft is not removed, hold countershaft third and fourth gear shift dog up while removing countershaft.
2. Press countershaft out of bearing housing bearing.
3. See Figure 5-51. Remove washer (1), countershaft first gear (2) and bearing.
4. Remove countershaft second, third and fourth gears.
 - a. See Figure 5-52. Remove dog ring (5).
 - b. Remove lock ring (1).
 - c. Remove securing segments (2).
 - d. Remove guiding hub (3), countershaft second gear (4) and bearing.
 - e. See Figure 5-53 and Figure 5-54. Repeat steps with third and fourth gears.

NOTE

The countershaft fifth gear and sixth gear are integral parts of the shaft. Damage to either gear requires countershaft replacement.

5. Replace bearing housing bearing. See procedure later in this section.

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Operator, Organizational, Field, and Depot Maintenance Manual ,1989 *Sealab* Ben Hellwarth,2012-01-10

Sealab is the underwater Right Stuff the compelling story of how a US Navy program sought to develop the marine equivalent of the space station and forever changed man's relationship to the sea While NASA was trying to put a man on the moon the US Navy launched a series of daring experiments to prove that divers could live and work from a sea floor base When the first underwater habitat called Sealab was tested in the early 1960s conventional dives had strict depth limits and lasted for only minutes not the hours and even days that the visionaries behind Sealab wanted to achieve for purposes of exploration scientific research and to recover submarines and aircraft that had sunk along the continental shelf The unlikely father of Sealab George Bond was a colorful former country doctor who joined the Navy later in life and became obsessed with these unanswered questions How long can a diver stay underwater How deep can a diver go Sealab never received the attention it deserved yet the program inspired explorers like Jacques Cousteau broke age old depth barriers and revolutionized deep sea diving by demonstrating that living on the seabed was not science fiction Today divers on commercial oil rigs and Navy divers engaged in classified missions rely on methods pioneered during Sealab Sealab is a true story of heroism and discovery men unafraid to test the limits of physical endurance to conquer a hostile undersea frontier It is also a story of frustration and a government unwilling to take the same risks underwater that it did in space Ben Hellwarth a veteran journalist interviewed many surviving participants from the three Sealab experiments and conducted extensive documentary research to write the first comprehensive account of one of the most important and least known experiments in US history Mass Transit ,1987 **The Pennsylvania Manual** ,1922 **Industrial Engineering** George Worthington,1956 **Popular Electronics** ,1980 *Smull's Legislative Hand Book and Manual of the State of Pennsylvania* ,1922 **Mill and Factory** ,1963 *Chilton's Commercial Carrier Journal for Professional Fleet Managers* ,1997 Social Problems ,1976 **Smull's Legislative Hand Book and Manual of the State of Pennsylvania** John Augustus Smull,William P. Smull,Thomas Baumgardner Cochran,W. Harry Baker,1922 **Industrial Arts & Vocational Education** ,1966 *Popular Mechanics* ,1944-05 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **The Design Manual** David Whitbread,2001 A comprehensive reference guide to the design and production of documents Written as a companion volume to the Commonwealth Style Manual The Design Manual is an indispensable reference for traditional and digital publishing Heating, Piping, and Air Conditioning ,1953 Vols for May 1929 Dec 1958 include the Journal of the American Society of Heating and Air Conditioning Engineers called in 1929 54 American Society of Heating and Ventilating Engineers in Journal section *Proceedings of the School Committee of the City of Boston* Boston (Mass.). School

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