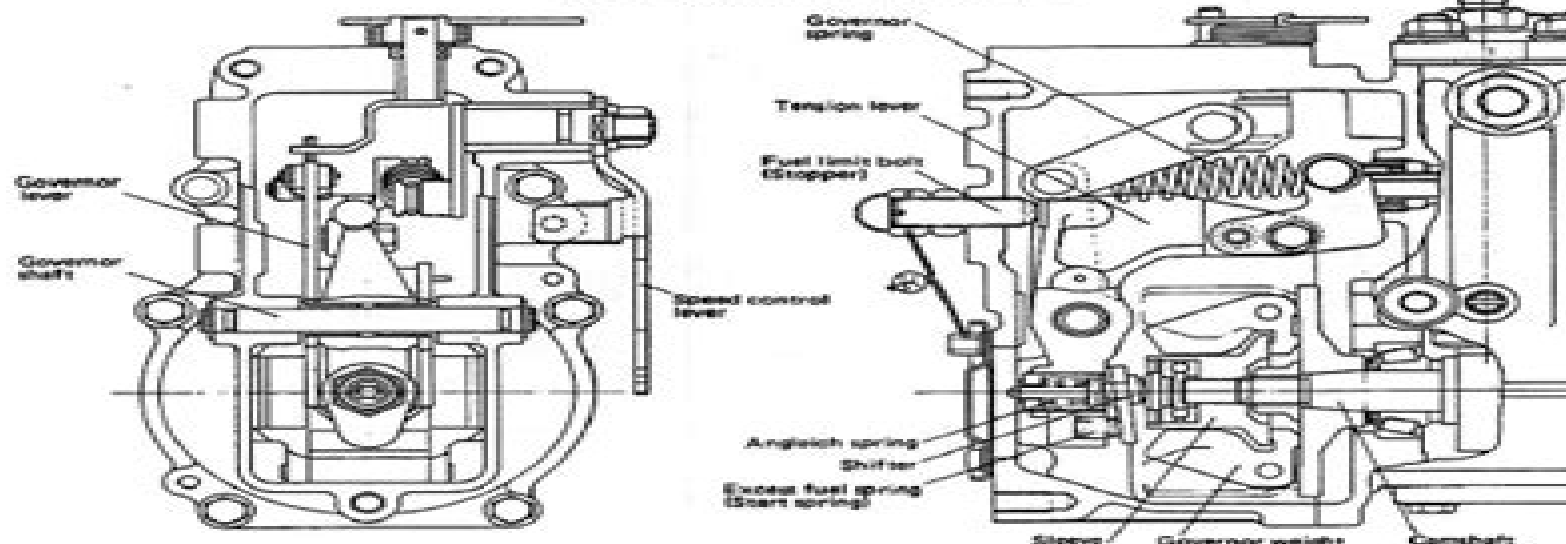


1-5 Governor construction

Diesel engines are used in extremely varied conditions, with a wide range of loads and rpms. The governor has the important function of controlling the fuel injection quantity. It quickly responds to changes in rpm by adjusting the position of the control rack.

YPES-AL fuel injection pump is equipped with the all speed type governor. The governor is available in 2 types: one has the torque rise spring (angleich spring) (Fig. 1), and the other has the smoke cut spring (angleich spring) (Fig. 2).

Fig. 1 Governor with torque rise spring



The governor weight is mounted on the end of the fuel injection pump cam shaft. It rotates around the governor support pin, driven by the cam shaft, and is forced outwards by the centrifugal force acting on the weight.

The thrust force on the cam shaft due to this centrifugal force acts on the lower part of the tension lever via the sleeve. An excess fuel spring for starting is mounted on the bottom of the tension lever.

One end of the governor spring is hooked to the right upper end of the tension lever, and the other end to the spring lever on the control lever shaft.

The spring lever and control lever are mounted on the same shaft, so by turning the control lever towards full, the governor spring is pulled and the load gradually rises.

The tension lever can move freely around the governor shaft on the player bearing. As the speed increases and the shifter is pushed to the left, the tension lever rotates clockwise. And when the speed falls, the tension lever rotates counterclockwise.

The governor lever rotates smoothly on the same governor shaft. The bottom part of this lever is in contact with the sleeve through the shifter, which is itself in contact with the bottom of the tension lever through the excess fuel spring. It therefore moves with the tension lever according to the rise or fall of the engine speed.

The top of the governor lever is connected to the fuel pump control rack through the governor link. The movement of the lever controls the volume of fuel injected by the pump. As the speed increases, the lever rotates clockwise and moves the control rack to reduce fuel, and when the speed falls the lever rotates counterclockwise to cause the control rack to pass more fuel. Thus, the engine speed is controlled.

The top of the tension lever comes in contact with the stopper built into the top of the governor case to limit the maximum fuel injection volume.

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Table of Contents Yanmar 3 Cylinder Diesel Engine Manual 3des

1. Understanding the eBook Yanmar 3 Cylinder Diesel Engine Manual 3des
 - The Rise of Digital Reading Yanmar 3 Cylinder Diesel Engine Manual 3des
 - Advantages of eBooks Over Traditional Books
2. Identifying Yanmar 3 Cylinder Diesel Engine Manual 3des
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Yanmar 3 Cylinder Diesel Engine Manual 3des
 - User-Friendly Interface
4. Exploring eBook Recommendations from Yanmar 3 Cylinder Diesel Engine Manual 3des

- Personalized Recommendations
- Yanmar 3 Cylinder Diesel Engine Manual 3des User Reviews and Ratings
- Yanmar 3 Cylinder Diesel Engine Manual 3des and Bestseller Lists
- 5. Accessing Yanmar 3 Cylinder Diesel Engine Manual 3des Free and Paid eBooks
 - Yanmar 3 Cylinder Diesel Engine Manual 3des Public Domain eBooks
 - Yanmar 3 Cylinder Diesel Engine Manual 3des eBook Subscription Services
 - Yanmar 3 Cylinder Diesel Engine Manual 3des Budget-Friendly Options
- 6. Navigating Yanmar 3 Cylinder Diesel Engine Manual 3des eBook Formats
 - ePub, PDF, MOBI, and More
 - Yanmar 3 Cylinder Diesel Engine Manual 3des Compatibility with Devices
 - Yanmar 3 Cylinder Diesel Engine Manual 3des Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Yanmar 3 Cylinder Diesel Engine Manual 3des
 - Highlighting and Note-Taking Yanmar 3 Cylinder Diesel Engine Manual 3des
 - Interactive Elements Yanmar 3 Cylinder Diesel Engine Manual 3des
- 8. Staying Engaged with Yanmar 3 Cylinder Diesel Engine Manual 3des
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Yanmar 3 Cylinder Diesel Engine Manual 3des
- 9. Balancing eBooks and Physical Books Yanmar 3 Cylinder Diesel Engine Manual 3des
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Yanmar 3 Cylinder Diesel Engine Manual 3des
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Yanmar 3 Cylinder Diesel Engine Manual 3des
 - Setting Reading Goals Yanmar 3 Cylinder Diesel Engine Manual 3des
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Yanmar 3 Cylinder Diesel Engine Manual 3des

- Fact-Checking eBook Content of Yanmar 3 Cylinder Diesel Engine Manual 3des
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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