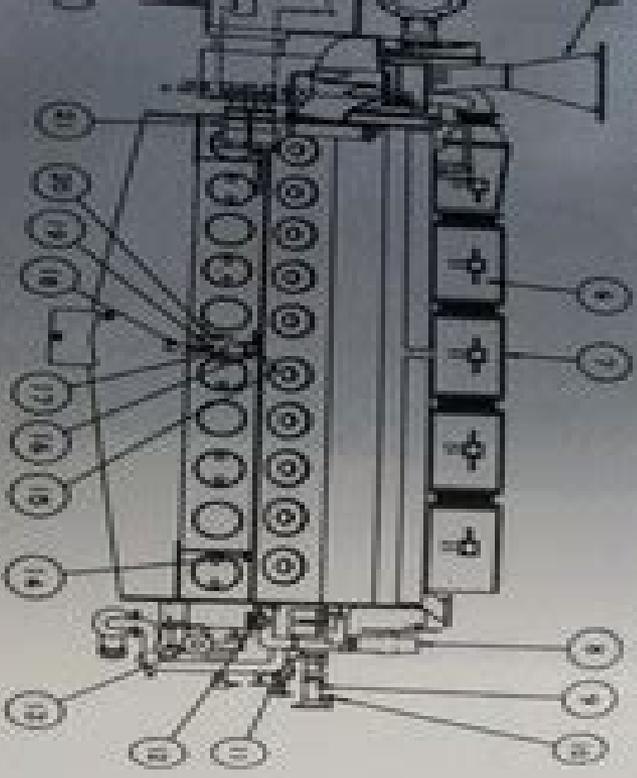


- 1. Intake valve
- 2. Intake valve seat
- 3. Intake valve guide
- 4. Intake valve spring
- 5. Intake valve stem
- 6. Intake valve stem seal
- 7. Intake valve stem nut
- 8. Intake valve stem lockwasher
- 9. Intake valve stem lock
- 10. Intake valve stem lock nut
- 11. Intake valve stem lockwasher
- 12. Intake valve stem lock
- 13. Intake valve stem lock nut
- 14. Intake valve stem lockwasher
- 15. Intake valve stem lock
- 16. Intake valve stem lock nut
- 17. Intake valve stem lockwasher
- 18. Intake valve stem lock
- 19. Intake valve stem lock nut
- 20. Intake valve stem lockwasher
- 21. Intake valve stem lock

Fig. 1-1

Fig. 1-2: A detailed cutaway diagram of a 12-cylinder, 60-degree, 4-stroke, turbocharged diesel engine, similar to Fig. 1-1 but with different internal components. Numbered callouts (1-21) point to various parts of the engine.



- 1. Intake valve
- 2. Intake valve seat
- 3. Intake valve guide
- 4. Intake valve spring
- 5. Intake valve stem
- 6. Intake valve stem seal
- 7. Intake valve stem nut
- 8. Intake valve stem lockwasher
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- 11. Intake valve stem lockwasher
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- 16. Intake valve stem lock nut
- 17. Intake valve stem lockwasher
- 18. Intake valve stem lock
- 19. Intake valve stem lock nut
- 20. Intake valve stem lockwasher
- 21. Intake valve stem lock

DIESEL ENGINES

These engines (illustrations 1, 2 and 3) are identified by the following arrangement, code, and brand of engine. The governor, water pump, and other accessories are mounted on the "front end." The engine is used and operated on the "back end." "Lift" and "right" are indicated by arrows at the front end of an engine when standing at the back end.

ACCESSORY RACK

The accessory rack (if provided, Fig. 1-4) is a steel fabricated frame which holds the required engine external supporting accessories for the water-cooling system, lubricating oil system, and the fuel system.

Since components and systems vary in accordance with specific applications, the illustration should be



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JA Banks



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EMD Locomotives Brian Solomon,2006 **Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards** United States. Bureau of Naval Personnel,1996-04 *GE and EMD Locomotives* Brian Solomon,2014-08 Acclaimed rail author Brian Solomon s landmark histories of General Electric s and Electro Motive s machines are showcased in one beautifully designed photo packed volume Modern Tribology Handbook, Two Volume Set Bharat Bhushan,2000-12-28 Recent research has led to a deeper understanding of the nature and consequences of interactions between materials on an atomic scale The results have resonated throughout the field of tribology For example new applications require detailed understanding of the tribological process on macro and microscales and new knowledge guides the rational Field Guide to Trains Brian Solomon,2016-05-01 Now you can be the human Wikipedia page of trains from locomotives to rolling stock No Great American road trip would be complete without seeing trains streaming across wild prairies and through thick forests All kinds of diesel and even a few steam locomotives can be seen with everything from boxy frontends to curving streamlined bodies The containers flat cars and boxcars pulled by these locomotives carry diverse freight and the variety of these cars is wide Field Guide to Trains Locomotives and Rolling Stock is the source for easy to digest information on locomotives and cars Model railroaders will also find this book indispensable as it offers myriad ideas for realistic train systems The book is divided by diesel electric locomotives self propelled passenger trains passenger cars freight cars rail transit and preserved equipment at museums and excursion steam locomotives It also touches on historic diesels vintage trams maintenance trains snowplow engines and circus trains Featuring North American and world examples of trains Field Guide to Trains includes just about any type of locomotive and train car you are likely to see on the rails today making this book the only available comprehensive guide to locomotives and rolling stock out there Bring Field Guide to Trains Locomotives and Rolling Stock along on family trips to see what rolls the rails as you re traveling Make a game of how many locomotives and car types you can identify Buy locomotives and certain car types for your model layout This is simply the handiest field guide for families and railroad buffs that you ll ever find *Nordic Railways - Rolling Stock Recognition Guide 2015* John McKey,2016-01-30 Nordic Railways Rolling Stock Recognition Guide brings you around 170 of the most commonly seen electric electric hybrid and diesel locomotives electric and diesel multiple units and some vintage museum equipment for easy recognition Some of these are unique many rare Most vehicles also have much data added there through research and studying by the actual vehicles Crowning the book are 300 pictures so you will be able to browse through a certain section if you see something interesting and wish to know more Contents 0 Welcome 1 Rolling Stock in Sweden and Norway 1 1 Electric Locomotives 1 2 Some Vintage Electric Locomotives 1 3 Diesel Locomotives and Locotracors 1 3 Electric Multiple Units 1 4 Diesel Multiple Units and Railcars 2 Rolling Stock in Denmark 2 1 Electric Locomotives 2 2 Diesel Locomotives 2 3 Electric Multiple Units 2 4 Diesel Multiple Units 3 Rolling Stock in Finland 3 1 Electric and Electric Hybrid

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succeed yet constrained the actions of others He details the shift from small batch custom manufacturing techniques in the steam locomotive industry to mass production methods in the diesel locomotive industry He also explains that chance events and fortuitous technological linkages helped to shape competitive patterns in the locomotive industry [American Shortline Railway Guide](#) Edward A. Lewis,1996 This edition lists nearly 600 shortline and regional railroads in the United States and Canada Includes the history radio frequency locomotive roster and other information for each line as well as diesel profiles and a listing of past shortlines

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