

LISTER

Model	No. Cyls.	Bore (in.)	Stroke (in.)	Displ. (cu. in.)
HR3, HRW3	3	4.25	4.50	191
HR4, HRW4	4	4.25	4.50	255
HR6, HRW6	6	4.25	4.50	382
HR36, HRW36	6	4.25	4.50	382

All engines are four-stroke, vertical in-line, direct injection diesel engines. Crankshaft rotation is counter-clockwise at pto (flywheel end of engine). HR series engines are air cooled. The finned flywheel of HR3 models is the centrifugal cooling fan; cooling of other HR models is by an axial flow fan, belt driven from crankshaft. HRW series are liquid cooled using a water pump and radiator. HR36 and HRW36 series engines are equipped with a turbo-charger.

Firing order is 1-3-2 for three cylinder engines; 1-3-4-2 for four cylinder engines; 1-5-3-6-2-4 for six cylinder engines.

MAINTENANCE

LUBRICATION

All Models

Lister recommends lubricating oils with API service classification of CC or CD. Straight mineral oils or oils of less detergency are not suitable. If operated with high load factor, in high air temperatures or if the sulphur content in the fuel exceeds 0.6%, API CD oils or equivalent are recommended. Oil change interval is every 250 hours operation with filter change at the same time.

If operating temperatures fall below 10°F., an SAE 10W weight oil is recommended. In temperatures between 10° to 85°F., use SAE 20-20W and above 85°F., use SAE 30 or 10W-40.

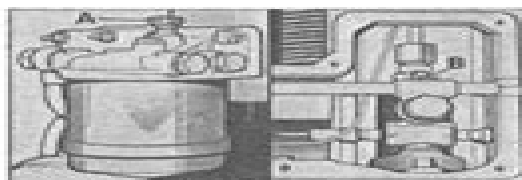


Fig. L1—On HR3 and HRW3 models, bleed screws are located at "A" on fuel filter body and "B" on fuel pump. Refer to text.

Crankcase capacities are as follows:
 HR3, HRW3 13 qts.
 HR4, HRW4 16 qts.
 HR6, HRW6 21 qts.
 HR36, HRW36 21 qts.

FUEL SYSTEM

All Models

FUEL FILTER. The life of a fuel filter depends on the amount of contamination it must remove from the fuel. If engine misfires or loss of power is evident, renew the filter. In any event, filter should be renewed every 1500 hours on HR3 and HRW3 models, and every 1000 hours on all other models.

BLEED FUEL SYSTEM. When fuel filter is removed or if engine runs out of fuel, bleed air from fuel system as follows: On HR3 and HRW3 models, refer to Fig. L1 and loosen bleed screw (A) on fuel filter body. Tighten screw when air-free fuel flows from bleed screw. Loosen each fuel pump bleed screw (B), one at a time, starting at pump nearest fuel filter. When air-free fuel flows from bleed screw, tighten screw and proceed to next pump.

On models equipped with C.A.V.-Minimac fuel pump, loosen bleed screw on fuel filter body and manually operate

fuel lift pump until air-free fuel flows from bleed screw. Tighten bleed screw, then refer to Fig. L2 and loosen fuel pump bleed screw (A). Operate lift pump until air-free fuel flows, then tighten bleed screw. Loosen fittings on high pressure lines at injectors; open throttle and turn engine with starter until fuel flows from injector lines, then tighten fittings and start engine.

On models equipped with C.A.V.-D.P.A. pump, loosen bleed screw at filter body and operate lift pump until air-free fuel flows, then tighten bleed screw. Refer to Fig. L3 and loosen pump bleed screws (2, 3 and 4) in that order, one at a time. Operate lift pump and tighten bleed screw when air-free fuel appears. Loosen fittings on high pressure lines at injectors. With throttle open, turn engine with starter until fuel flows from injector lines. Tighten fittings and start engine.

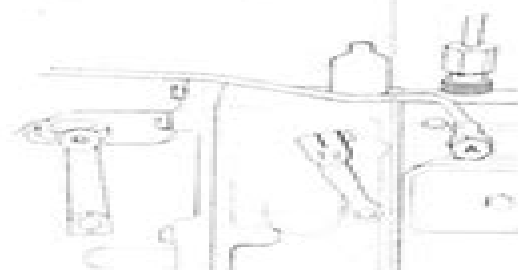


Fig. L2—On models equipped with C.A.V.-Minimac pump, loosen bleed screw "A" to bleed air from pump. Refer to text.



Fig. L3—On models equipped with C.A.V.-D.P.A. pump, loosen bleed screws 2, 3 and 4 in that order to bleed air from pump. Refer to text.

1. Fuel inlet
2. Bleed screw
3. Pump body bleed screw
4. Governor housing bleed screw
5. Speed control
6. Governor housing nut
7. Plug screw
8. Fuel filter nut
9. Injector pressure pipes
10. Timing belt cover

Lister Engine Manuals

Michael Hoelscher



Lister Engine Manuals:

Lister-Petter Series AC1W Dieselite Marine Engine Marine Diesel GM,2014-12-08 The Workshop Manual including a Spare Parts List for the popular Marine Diesel Engine Lister Petter AC1W **Index of Technical Manuals, Technical Regulations, Technical Bulletins, Supply Bulletins, Lubrications Orders, and Modification Work Orders** United States. Department of the Army,1954 **Diesel Engine Manual ...** Edward Molloy,1955 **Manual of Electrical Undertakings** ,1927 *The Oil Engine Manual* Denys Stephen Dodsley Williams,J. Millar Smith,1942 **Commercial Diver Training Manual, 6th Edition** Hal Lomax,2016-08-01 Updates in the 6th Edition Comprehensive rewrite can be used as stand alone reference Extensive index Easy to read formatting Color photos tables figures added Colorful book cover ABOUT THE BOOK The 6th Edition of the Commercial Diver Training Manual represents an almost total rewrite Where previous editions were designed to be utilized in conjunction either with the NOAA Diving Manual or the U S Navy Diving Manual the 6th Edition has been written as a stand alone work that covers history physics physiology diving medicine and first aid in addition to those chapters devoted to diving technique diving equipment and working underwater This manual is presented with the understanding that fully qualified instructors experienced in underwater work will provide any further explanation required by the reader At the same time the intent was to provide a manual to enhance both the theoretical and the practical training of the diver with a view to providing graduates that are more knowledgeable and well informed in their chosen trade performing their assigned tasks in a safe and productive manner To that end this manual strives to present the following Diving physics in a clear concise manner The latest theory and procedure in physiology and diving medicine The latest in practice and procedure both inland and offshore The most commonly used diving and support equipment accepted for use in today s industry While it is understood it would require several volumes to address every conceivable task performed on every type of underwater project employing commercial divers this manual endeavors to cover the most commonly performed tasks and the most common underwater operations By presenting these more common projects and tasks in detail it is hoped the reader will be better informed and better prepared for a career underwater In addition by further illustrating both technique and safety concerns with case studies and personal accounts from the author s career the manual shows the reader these are more than just words being presented suggestions help the reader become more proficient and safety guidelines keep the reader from injury or death Commercial Diver Training Manual, 7th Edition Hal Lomax,2022-04-01 The 7th Edition of the Commercial Diver Training Manual continues to fill the gap between learning through field experience and learning through entry level commercial diver training Our commercial diving students and graduates have been well served since 2016 by the author s meticulous and thorough approach to making vast field experiences and safety come alive in the 6 th Edition and once again in this revised 7th edition It continues to be a leading textbook in our training due to its technical accuracy current content photos and illustrations Safety and efficiency are

pinnacle traits that any successful working diver must learn in their training and constantly apply in the field Safety is not a simply a rule book it is a state of mind Hal Lomax s approach to this and sharing his knowledge with all levels of divers has made our industry safer and advanced it entirely At the very core of commercial diver training are two essential objectives Going up and down in the water column safely and performing useful and effective work underwater This textbook continues to provide both objectives into a current and well written resource for the entire industry It remains a must for anyone s library involved in commercial diving Don Barthelmess Professor Emeritus Santa Barbara City College Marine Diving Technology Department *The Oil Engine Manual* ,1950 **Seventy Years of Farm Tractors 1930-2000** Brian

Bell,2020-02-20 By the end of the twentieth century there were some half million tractors on British farms more machines than people to drive them Brian Bell s encyclopaedic book traces the evolution of the farm tractor from the days of starting handle and pan seat to current 4 wheel drive machines with air conditioned cabs and computer management systems He deals in particular with developments of the classic period from the 1950s to the 1990s The book is arranged alphabetically by manufacturer from Allis Chalmers to Zetor one hundred marques in total These are all machines to be found on British farms irrespective of their country of manufacture Brian runs concisely through the histories of the companies and their major models illustrated with a wealth of photographs and extracts from sales literature He adds some special features on items such as hydraulic systems and cold starting aids He includes a glossary and full index This book replaces the author s earlier successful Fifty Years of Farm Tractors Many of the photographs are new and the text has been brought up to date to include developments of the early twenty first century *Marine Diesel Oil Engines; a Manual of Marine Oil Engine Practice; Specially Compiled to Satisfy the Standard of the Board of Trade Examinations* John William Major Sothern,1966

Johnson's first aid manual ,1903 Johnson's First Aid Manual Fred Barnett Kilmer,1903 Pearson General Knowledge Manual 2009 Edgar Thorpe,Showick Thorpe,2008-02 An Updated and Revised Edition of the Most Popular General Knowledge Manual FEATURES Up to date comprehensive and all purpose in approach Includes a set of multiple choice questions at the end of each section to test your understanding Based on current trends in various examinations National and international current affairs included Public Works Manual ,1995 The Engineer ,1890 *Direct, General Support, and Depot Maintenance Manual* ,1992 **Manuals Combined: Over 40 U.S. Army M35 M35A2 M35A3 M49 M49A1 M49A2 M44 M44A1 Repair Parts, Maintenance And Operator Manuals** , Over 17 200 total pages Just a sample of the contents Parts Technical Manuals 9 2320 386 24P parts manual M35A3 9 2320 204 34P Parts manual LDS 427 engine 9 2320 209 20P Parts manual organizational level 9 2320 209 34P Parts manual Direct and general support 9 2815 210 34 Engine parts manual Mutilfuel engine 9 2320 361 20P Parts manual organizational level 9 2320 361 34P Parts manual Direct and general support Repair Technical Manuals Organizational Level 9 2320 209 20 2 1 Volume 2 of 3 part 1 of 2 troubleshooting organizational level 9 2320 209 20 2 2 Volume 3 of 3 part 2 of 2 troubleshooting organizational

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