DUOLET

Manufacturing Company, Inc.



OPERATOR'S MANUAL AND PARTS BOOK
ENGINE TRAILER
OFF ROAD MODELS: F1240 - F1440 D.O.T. MODELS: F12400 - F1440D

Read and understand the manual. This manual provides information and procedures to safely operate and maintain the Engine Trailer.



DUO LIFT MANUFACTURING CO., INC. ENGINE TRAILER

WARRANTY REGISTRATION FORM & INSPECTION REPORT						
WARRANTY REGISTRATION (please print) This form must be filled out by the dealer and signed by both the dealer and the customer at the time of delivery.						
Customer's N	lame		Dealer Name			
Address			Address			
City, State, Z	ip Code		City, State, Zip C	ode		
Phone Numb	er ()		Phone Number ()			
Contact Nam	е		Check One:			
	er		Farm Use			
Delivery Date			Commercial Use			
		E TRAILER MODELS		1		
ET240	ET240D		ET440	ET440D		
I have thoroughly instructed the buyer on the above-described equipment. This review included the Operator's Manual content, equipment care, adjustments, safe operation, and applicable warranty policy.						
Date	Date Dealer's Rep. Signature					
The above equipment and Operator's Manual have been received by me and I have been thoroughly instructed as to care, adjustments, safe operation, and applicable warranty policy.						
Date	Date Owner's Signature					
	DUO	LIFT MFG. DEA	LER CUSTO	MER		
(MAKE COPIES AND CHECK APPROPRIATE BOX)						

Send Signed Copy of Warranty Registration to One of the Options Below:

Address: Duo Lift Manufacturing Company, Inc. - 2810 38th Street - Columbus, NE 68601

E-Mail: warranty@duolift.com or FAX: (402) 564-5385

DUO LIFT Manufacturing Company, Inc.

Warranty

This is to certify that we warrant to the original purchaser equipment manufactured by Duo Lift Manufacturing Company, Inc., identified and recorded by serial number, to be free of defects in material and workmanship under normal use and service to replace, free of cost, to the original purchaser any part or parts of said equipment that in our judgement shows evidence of such defects; and provide further that the said part or parts shall be returned to the factory, freight prepaid, within two years of shipping date. Manufacturer agrees to replace or repair during this period of no charge any defective part or parts returned to the factory, and deemed defective by authorized factory inspection. Should it become impractical to return said parts to the factory, the manufacturer shall not be liable for any labor costs, or any other costs encountered, in repairing or replacing any part or parts involved, but will be obligated to supply only the necessary repair and/or replacement items.

Duo Lift Manufacturing Company, Inc., as the manufacturer shall not be liable for any other damage, whether direct or consequential.

No representative or other person is authorized or permitted to make any other warranty or assume for his company any liability not strictly in accordance with the foregoing. This limited warranty is in lieu of all warranties expressed or implied and of all other obligations on the part of the factory.

This limited warranty shall not apply to any item which shall have been operated in a manner not recommended by the Company nor which shall have been repaired, altered, neglected or used in any way which in the Company's opinion adversely affects its performance and results.

This limited warranty shall not apply to any equipment which has been tampered with in any way or which has been subject to misuse, neglect or accident, or which has the serial number altered, defaced, or removed.

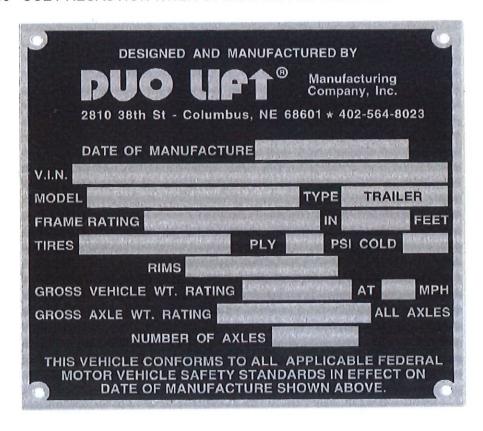
This limited warranty does not apply to exterior finishes, tire, bearings, springs, jacks, couplers or any such items not directly manufactured by Duo Lift Manufacturing Company, Inc., except to the extent of their individual manufacturer's guarantee.

DUO LIFT

TRAILER SAFETY

CHECK SAFETY CODES FOR FULL COMPLIANCE

- 1 DO NOT LOAD TRAILER OVER RECOMMENDED CAPACITY
- 2 MAKE SURE COUPLER AND HITCH BALL MATCH SIZE
- 3 SECURE HITCH WITH CROSSED SAFETY CHAINS w/HOOKS
- 4 CHECK LIGHTS AND REFLECTORS BEFORE TOWING
- 5 EXAMINE TIRES FOR WEAR AND CORRECT PRESSURE
- 6 CHECK WHEEL LUG BOLTS FOR TORQUE TIGHTNESS
- 7 INSPECT AND CHECK BRAKES FOR CORRECT OPERATION
- 8 RAISE JACK BEFORE MOVING TRAILER
- 9 ALWAYS SECURE LOAD AND CHECK DURING TRIP
- 10 MAINTAIN PROPER DISTANCE FOR STOPPING
- 11 BE CAREFUL WHEN BACKING TRAILER
- 12 WHEN PARKING, BLOCK WHEELS IF ON SLOPE
- 13 USE PRECAUTION WHEN OPERATING ANY EQUIPMENT





Trailer and Truck Towing Definitions

GCVW

Gross Combined Vehicle Weight (GCVW) is the total combined weight of a fully loaded vehicle, including passengers, payload and everything in tow.

GVW

Gross Vehicle Weight (GVW) is the total weight of a fully loaded vehicle, including passengers and payload but excluding all towing.

GVWR

Gross Vehicle Weight Rating (GVWR) is the maximum number that the GVW or GTW should never exceed. GVWR is applied to trailers as well as vehicles, but you may see this rating referred to as the **Maximum Loaded Trailer Weight**.

GTW

Gross Trailer Weight (GTW) is the total weight of the trailer plus all the cargo in it.

Curb Weight

The weight of a vehicle without any passengers or cargo, but including all necessary fuel, fluids and standard equipment.

Trailer Tongue Weight

The downward force exerted on the hitch ball by the trailer coupler. In most cases, it should fall between 10 to 25 percent of GTW. *Trailer tongue weight must be accounted for in total payload.*

Understanding Gross Vehicle Weight Rating

Knowing and understanding GVWR is important to towing because it tells you explicitly the maximum weight of passengers and cargo you can safely carry in your truck or SUV. GVWR is the total combined weight of truck, including all passengers, fuel, fluids and cargo. GVWR is constant and does not change, regardless of what you tow. It's engineered in when the vehicle is manufactured.

Because tongue weight must be included in the GVWR, you will need to know how much weight capacity you need to have "left over" for when you hook up your trailer.

For example, if you have a 5,000-pound truck with a 6,200 pound GVWR, you can safely carry 1,200 pounds in the vehicle. If you are towing a trailer with a 300-pound tongue weight, the amount of passengers and gear you can carry decreases to 900 pounds.

To be sure you choose the right tow vehicle, you must find the vehicle with a tow rating high enough to meet your needs. It's usually a good idea to get a bit more capacity than what your currents needs are. But at the very least, be certain the towed load and tongue weight are within your vehicle's capacity.

ENGINE TRAILER











Standard Features - ET240D and ET440D D.O.T. Models

Dimensions: ET240D - 14'2"L x 7'10"W, 96"L x 67"W Support Bed Empty Trailer Weight: ET240D - 3,100 Lbs. ET440D - 18'2"L x 7'10"W, 144"L x 67"W x Support Bed ET440D - 3,620 Lbs.

Trailer Frame: 9" Formed Channel Tank Support Frame

4" x 3" Tubular Front A-Frame

Diesel Fuel Tank: 200 Gallon (ET240D) or 400 Gallon (ET440D), Support System: (3) Bolt-On Multi-Position Engine Supports and (1) Pump Support

Type Fuel Gauge, Front 3" Fusible Fill Vent Cap, Rear 3" Fill Cap, 2" Stainless Steel Tank Vent, Diesel Tank Drain Port, (1) 1/2" NPT Diesel Fuel Supply Port with Suction Tube, Capped, and (1) 1/2" NPT Diesel Fuel Return

Port, Capped

Provision for DEF: Frame will Accommodate Optional Bolt-In

40 Gallon Diesel Exhaust Fluid Tank

Axles: (2) 3,500 Lb with 4" Drop (ET240D)

(2) 7,000 Lb with 4" Drop (ET440D)

Suspension: Under-Slung Slipper Springs

Wheels: $15" \times 6" \times 6-5.5"$ White Spoke Wheels (ET240D) $16" \times 6" \times 8-6.5"$ White Spoke Wheels (ET440D)

Tires: 225/75R15D (ET240D), 235/80R16E (ET440D)

Brakes: 4-Wheel Electric Brakes with Breakaway Kit

Jack Stands: 8,000 Lb. Side-Wind, Drop Leg, (1) Tongue Jack,

(2) Rear Frame Jacks

Fenders: Heavy Duty Flat Top Steel Fenders with Anti-Slip Surface and Black Splash Guards

Hitch: 2-5/16" Adjustable Height Ball Coupler with (2) 3/8" Safety Chains and ID Tags

Color: Trailer: White Tank: White Axles: Black

Lights: D.O.T. LED Lights Conforming to CFR49

All Wiring Joints Soldered, Shrink-Wrapped and Enclosed in Conduit or Loom

Other: (2) Frame Mounted Level Indicators, Tool Box

Support, Conspicuity Tape, Safety Signs, Duo Lift Decals, 17 Digit VIN ID Plate, Statement

of Origin and Manual Holder.

Misc.: 1-Year Component Warranty 2-Year Tank(s)

and Trailer Frame Warranty, Annual Federal

Inspection and Certificate

Standard Features - ET240 and ET440 OFF ROAD Models:

Dimensions: ET240 - 14'2"L x 7'10"W, 96"L x 67"W Support Bed ET440 - 18'2"L x 7'10"W, 144"L x 67"W x Support Bed Empty Trailer Weight: ET240 - 2,800 Lbs. ET440 - 3,320 Lbs.

Trailer Frame: 9" Formed Channel Tank Support Frame

4" x 3" Tubular Front A-Frame

Diesel Fuel Tank: 200 Ga. (ET240) or 400 Ga. (ET440), Bolt-In,

Bottom Mounted Diesel Tank, Dial Type Fuel Gauge, Front 3" Fusible Fill Vent Cap, Rear 3" Fill Cap, 2" Stainless Steel Tank Vent, Diesel Tank Drain Port, (1) 1/2" NPT Diesel Fuel Supply Port with Suction Tube, Capped, (1) 1/2" NPT Diesel Fuel Return Port, Capped

Provision for DEF: Frame will Accommodate Optional Bolt-In 40 Gallon Diesel Exhaust Fluid Tank

Axles: (2) 3,500 Lb with 4" Drop (ET240)

(2) 7,000 Lb with 4" Drop (ET440)

Suspension: Under-Slung Slipper Springs

Wheels: 15" x 6" x 6-5.5" White Spoke Wheel (ET240) 16" x 6" x 8-6.5" White Spoke Wheel (ET440)

Tires: 225/75R15D (ET240), 235/80R16E (ET440)

Brakes: None

Jack Stands: 8,000 Lb. Side-Wind, Drop Leg, (1) Tongue

Jack and (2) Rear Frame Jacks **Engine & Pump**

(3) Bolt-On Multi-Position Engine Supports and Support System:

(1) Pump Support

Fenders: Heavy Duty Flat Top Steel Fenders

Hitch: Pin-On Adjustable Height Clevis Hitch, Accepts 1" Hitch Pin (2) 3/8" Safety Chains and ID Tags

Color: Trailer: White Tank: White Axles: Black

Lights: AG Transport LED Lights, All Wiring Joints

Soldered, Shrink-Wrapped and Enclosed in

Conduit or Loom

Other: (2) Frame Mounted Level Indicators, Tool Box

Support, SMV Emblem, Safety Signs, Duo Lift Decals, Manual Canister, Amber and Red AG Reflective Tape and Ag Trailer Serial Number

Misc.: 1-Year Component Warranty, 2-Year Tank(s)

and Trailer Frame Warranty.

Manufacturing Company, Inc.

Authorized Dealer:

2810 38th Street • Columbus, Nebraska 68601 Phone: 402-564-8023 • FAX: 402-564-5385 • Toll Free: 1-800-243-2583 Email: sales@duolift.com . Website: www.duolift.com



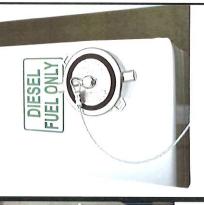
ET440

ET440 with Storage Box Option



DUO LIFT

ET440D Multi-Position Engine and Pump Mounts



ET440D
Removable
400 Gallon
Diesel Tank
with
3" Rear
Fill / Auxiliary



ET440D with 400 Gallon Diesel Tank and Optional 40 Gallon DEF Tank, Bolt-In

ET440D Diesel Tank Fittings and Optional DEF Tank Fittings



ET240

ET440D With 6 Cylinder Diesel Engine and

Water Pump



ET440D with 6 Cylinder Diesel Engine

ETAYOD ET440D ENGINE TRAILER PARTS LIST

PART NUMBER	QTY	DESCRIPTION
78000254	1	TRAILER WIRING HARNESS ASSEMBLY
LT000284	1	LIGHT, LED - 3-PIECE IDENTIFICATION LIGHT BAR
LT000275	2	LIGHT, LED - AMBER 2-1/2' ROUND WITH GROMMET
LT000276	2	LIGHT, LED - RED 2-1/2" WITH GROMMET
LT000277	2	LIGHT, LED - RED 4" ROUND WITH GROMMET
LT000283	1	LIGHT, LED - LICENSE PLATE LIGHT
LT000380	2 1	LIGHT, LED, AMBER 3/4" CLEARANCE AND SIDE MARKER LIGHT WIRING CONNECTOR, TRAILER END, 7 POLE RV STYLE
LT000229 BR000345	1	BATTERY BOX, BRAKE-BREAKAWAY
BR000416	1	BATTERY, 12V, BRAKE-BREAKAWAY
BR0004290	1	BREAKAWAY SWITCH ASSEMBLY, INCLUDING CABLE AND KEY
BT000199	6	SCREW, SELF TAPPING, 1/4"
78000435	4	DIESEL TANK HANGER BRACE
70002344	2	L-BRACKET
70002345	1	DIESEL TANK SUPPORT TUBE
78000436	1	D.E.F. TANK HANGER BRACE
70002344	4	BRACKET, TANK SUPPORT, L-SHAPED
70002345	1	D.E.F. TANK SUPPORT TUBE
70002346	2	DEF TANK SUPPORT
BT000005	18	BOLT, 1/2-13 X 2 GR 5 ZP
WA000003	42	WASHER, FLAT 1/2 ZP
NT000003	18	NUT, HEX 1/2-13 ZP DIESEL TANK, 400 GALLON
78000417	1 1	CAP, DIESEL TANK, FILL AND VENT, 3" NPT WITH LOCKING ASSEMBLY
FH000088 PURCHASE LOCALLY	1	HEXAGON SOCKET SET SCREW - CUP POINT, 1/4-20 UNC X 0.51",
FH000036	1	CAP, DIESEL TANK, FILL, NON-VENTED, LOCATED AT REAR TOP OF DIESEL TANK
FH000037	2	VENT, 2" LOW PROFILE PRESSURE/VACUUM RELIEF, FOR DIESEL TANK AND D.E.F. TANK
FG000009	2	GAUGE AND FLOAT ASSEMBLY, THERMA GAUGE TYPE H, TOP MOUNTED LIQUID LEVEL
1 000000	_	GAUGE, 2" NPT X 36" FOR DIESEL TANK AND D.E.F. TANK
801125	1	D.E.F. TANK, 40 GALLONS, OPTIONAL EQUIPMENT
801108	1	ET440D DOT FRAME WITH FENDERS
AX000046	2	AXLE, 7,000 LB. CAPACITY, 4" DROP WITH 12" X 2" ELECTRIC BRAKES
HB000967	4	HUB, BRAKED WITH (8) 9/16" WHEEL STUDS
NT000027	16	NUT, WHEEL, 9/16"-18
HB000968	16	STUD, WHEEL, 9/16"-18 X 2-3/4"
SG000003	4	SLIPPER SPRING, 4000 LBS. , 6 LEAF WITH NYLON BUSHING
AP000031	4	U-BOLT KIT, 3" AXLE DIAMETER, 1/2" X 7" LONG U-BOLT
WT000102	4	235/80R16 LRE RADIAL TIRE ON 16 X 6 - 8 BOLT ON 6.5" WHITE SPOKE WHEEL
JK000044 70002450	1 1	JACK, DROP LEG, SIDE WIND JACK MOUNT PLATE
MI000262	2	LEVEL, BULLSEYE
DE000057	3	DECAL, DUO LIFT MFG. DECAL, 4" x 18"
DE000025	1	DECAL, SMALL FEMA STICKER
DE000018	1	DECAL, MADE BY DUO LIFT 3.25"x 4.75"
DE000011	1	V.I.N. PLATE
DE000017	1	CERTIFICATE HOLDER AND POUCH
DE0000015	12	CONSPICUITY TAPE, RED AND WHITE
DE000030	2	NON-SKID SAFETY TREAD, BLACK, 4" X 64"
TB000021		STORAGE BOX, ALUMINUM, 20" F X 34" R X 14" D X 15" H, OPTIONAL EQUIPMENT
70002473	1	TOOLBOX RUBBER LINER
70002474	2 2	TANK MOUNT PAD MUD FLAP WITH HARDWARE, BLACK UHMW 1/8" X 12" X 17-3/16"
78000438 DE000010	1	DECAL DANGER/WARNING/CAUTION SS-104
DE000017	2	DECAL, MODEL ET440D
DE000053	1	CANISTER, MANUAL, 2" WITH THREADED CAP, BLACK
70002906	3	SUPPORT CHANNEL, ENGINE
70005460	1	SUPPORT CHANNEL, PUMP
CP000178	1	BALL COUPLER, EZ-LATCH, BOLT ON, 2-5/16", G.V.W.R. 21,000 LBS, BLACK
CP000179	1	PIN, BALL COUPLER SAFETY PIN, 1/4" SQUARE SHAPE WIRE SNAP RETAINER
BT000224	4	BOLT, 5/8-11 x 2" Hex, GRD, 8 ZP
NT000022	4	LOCK NUT, 5/8"-11 ZINC FINISH GRADE G REVERSE
78000254	1	TRAILER WIRING HARNESS ASSEMBLY
LT000229	1	WIRING CONNECTOR, TRAILER END, 7 POLE RV STYLE
800242	2	CHAIN, SAFETY, ASSEMBLY, 3/8" X 40", GRADE 70, INCLUDES ITEMS BELOW
CH000031	2 2	CHAIN, SAFETY, 3/8" X 40" CHAIN HOOK, 3/8" WITH LATCH
CH000043 CH000060	2	DOUBLE CLEVIS, 3/8" WITH LATCH
CH000080 CH000032	2	SAFETY CHAIN ID TAGS
C, 1000032	_	

ODHATA

ET240D D.O.T. Compliant Engine Trailer, VIN: 1EP 3M1624M1004464 - Product Pictures























eZ-Latch Coupler Operation 2" & 2 5/16" Couplers



(4) 5/8" Grade 5 Bolts are required with channel mounted 2" & 2 5/16" couplers





(1) eZ-Latch couplers do not require users to lift the handle for the coupler to engage the ball. Position the ball in the center of the ball socket or slightly forward, then begin to lower the coupler with the jack on the trailer.



2



(2) At the mid-way point when lowering the trailer, the stem on the handle will begin to rise up allowing the ball to enter the ball socket.



3



(3) Once the ball has fully engaged the socket the ball keeper will snap back into place securing the coupler to the ball.

All Demco eZ-Latch couplers are tested and rated without the use of a safety pin and are not required for the couplers to be used in safe operation. A security hole is available on all the eZ-Latch couplers to be used in correlation with a lock for theft deterrence.

For more information visit www.demco-products.com