Specifications

- **Displacement:** 20 cc [1.22 cu. in.]
- **Performance:** 2.5 HP / 9,000 rpm
- **Idle Speed:** 1,700 rpm
- **Ignition Style:** Electronic Ignition
- **Recommended Propellers:** 14×10, 15×8, 16×6, 17×6
- **Spark Plug Type:** CM6
  
  (Gap) 0.018in.– 0.020 in. [0.45mm – 0.51mm]
- **Diameter × Stroke:** 1.26 in. [32mm] × .98 in. [25mm]
- **Compression Ratio:** 10.5:1
- **Carburetor:** DLE with Manual Choke
- **Weight:**
  
  - Main Engine – 1.7lb [660g]
  - Muffler – 2.8 oz [80 g]
  - Electronic Ignition – 4.6 oz [130 g]
- **Fuel:** 87– 93 Octane Gasoline with a 30:1 gas/2-stroke (2-cycle) oil mixture
Parts List

(1) DLE-20RA Gas Engine with DLE Carburetor
(1) CM6 Spark Plug with Spare Ignition Wire Spring
(1) Muffler w/Gasket
(2) 4x20mm SHCS with 4mm Lock Washers (muffler mounting)
(1) Electronic Ignition Module w/ Additional Tachometer Lead
(1) Silicone Pick-up Wire Cover / Ignition Wire Cover
(1) Red Three Pin Connector Lead w/ Pig Tail (for ignition switch)
(2) Three Pin Connector Securing Clips
(1) DLE Decal (not pictured)
(2) 17x60mm White Exhaust Tubes with Clamps (not pictured)

Safety Tips and Warnings

- This engine is not a toy. Please place your safety and the safety of others paramount while operating. DLE will not be held responsible for any safety issues or accidents involving this engine.
- Operate the engine in a properly ventilated area.
- Before starting the engine, please make sure all components including the propeller and the engine mount are secure and tight. It is strongly recommended that a screw sealant is used (Great Planes Threadlocker GPMR6060) during engine installation.
- During the break-in period, it is recommended that the engine be installed on the aircraft or a test stand with an appropriate shock absorber. Otherwise it is probable that vibration could rebound back to the engine and serious damages may occur during the break-in period. Break-in should be considered about the first 3-5 gallons you run in the engine.
For your safety and the safety of others, please do not stand in front or in line with the propeller when the engine is running. Keep onlookers away from the running engine, especially small children.

Always use a balanced spinner and a balanced propeller. An unbalanced spinner and propeller combination will cause high levels of vibration and may cause the propeller shaft to break. Always use a lightweight spinner on your engine. Lightweight spinners are considered to be those with a cone wall of 1mm or less. Heavy spinners could cause the propeller shaft to break. Securely tighten the spinner and propeller on the engine to prevent them from being thrown off the engine while running.

Never use a propeller that has hit the ground. Even though it may look good from the outside, it may be cracked on the inside which may cause it to disintegrate while in use. Do not use a nicked, cracked or split propeller.

Keep foreign objects away from the propeller. Make sure that nothing can be “sucked in” by the propeller.

Never start the engine on loose gravel or sand.

Do not attempt to stop the engine by throwing anything into the path of the propeller.

Make sure the fuel line is well-secured to the engine and to the fuel tank so that it won’t come off in flight.

Do not use silicone fuel line because it will be dissolved by the fuel. Use gasoline approved rubber fuel line. Always secure the fuel line away from the cylinder head. The engine’s heat can damage the fuel line.

Never touch the engine immediately after a run. The engine will be hot.

Before transporting your model, remove all the fuel from the fuel tank and fuel lines.

Always use high-quality oil intended for 2-stroke (2-cycle) engines. It’s a good idea to use a petroleum-based 2-cycle motor oil like Lawn Boy All Season - Ashless oil for the break-in period.

The throttle and choke pushrods should be non-metallic.

If the engine is not to be used for more than a month, drain the fuel tank and remove any fuel from inside the carburetor. Do this by running the engine at idle until it quits by running out of fuel. Keeping gasoline inside the carburetor over an extended period of time will damage the diaphragm valve and clog passages inside the carburetor. Due to the carburetor being more complicated than those used in glow engines, keep the fuel clean by using a fuel filter. Use a filter intended to be used with gasoline engines. Metal filters intended for glow engines are too coarse and will not screen out finer particles.
Always filter your fuel by using an appropriate filter before putting it into the airplane’s fuel tank.

Gasoline is extremely flammable. Keep it away from an open flame, excessive heat or sources of sparks.

Do not smoke near the engine or the fuel tank.

This engine was designed for use in a model aircraft. Do not attempt to use it for any other purpose.

Always install an ignition system on/off switch on the aircraft used.

Do not install your throttle servo inside the engine compartment. Doing so could cause radio interference. Install all electronic radio devices at least 12” [305mm] away from the engine.

**Caution:** Running the engine with a lean gas mixing will cause the engine to overheat and burn the electrode of the spark plug. Pay close attention to the High-speed Needle adjustment. Running the engine with the proper gas mixing will cause the spark plugs to appear yellow at the ignition point.

For optimum performance please use fresh or recently purchased 93 octane gasoline (87 octane gasoline will suffice) with a 30:1 gas/oil mixture.

**GAS/OIL Mixing Chart**

1 Gallon Gasoline (128 fl oz/3.78L) / 2-Cycle Oil (4.26 fl oz/125.68ml) = 30:1 ratio

Excessive running of the engine at idle speed can result in a seriously carbonized spark plug.

Keep the surface of the engine clean to ensure proper heat dissipation. Ensure proper cooling/ventilation around the cylinder with adequate air exhaust.

To avoid permanent damage to the electronic ignition system, NEVER rotate the propeller on your DLE engine with the electronic ignition system switched on and the plug not installed in the plug cap.

If you choose to use the optional TX activated gas engine kill switch (DLEG9205) it is strongly recommended that you install the TX activated kill switch between the manual on/off switch and the ignition. The manual on/off switch provides an added safety feature in the event the TX activated kill switch does not function properly. This is especially important during the starting sequence as it requires the manual on/off switch to be in the ON position before ignition can occur.
Installation Instructions

Prepare the engine for installation

1. Check to see that all screws and bolts are tight. Check carefully for any cracks, broken or missing parts. Tighten or replace any damaged or missing parts before proceeding.

2. Install the silicone wire cover over the pick up lead coming from the engine (cut the excess silicone wire cover) and connect the lead to the pick-up lead from the Electronic Ignition Module. Secure the connection with the included three pin connector securing clip.

3. Connect the on/off switch lead to the red connector from the ignition control module using the lead from the on/off switch or with the included three pin connector with pig tail. Use one of the included three pin securing clips to secure the connection.
4. Connect the ignition module battery to the on/off switch. Any 4.8–8.4V, 1000mAh and above capacity battery will work well for this. Use heat shrink tubing to secure this connection. **Optional:** Install the TX activated Opto Gas Engine Kill Switch (DLEG9205) between the manual on/off switch and the ignition as shown above. This is especially important during the starting sequence as it requires the manual on/off switch to be in the ON position before ignition can occur. The kill switch LED should be installed on the exterior of the aircraft so that it’s visible from the front of the aircraft. This is to ensure that the person starting the engine is aware that the ignition is armed. If properly installed as shown above, an illuminated red LED indicates that that the ignition is armed.

5. Install the ignition on/off switch on the aircraft so that it is easily accessible from the outside of the aircraft.

6. Install the ignition module and battery securely in the airplane forward area. It is recommended that a thin piece of foam rubber is placed between the module and the mounting surface and that Velcro® strap is used to hold the module in place.
7. Secure all connections with heat shrink tubing (not supplied).

8. Install the silicone ignition wire cover over the ignition wire to the spark plug.

9. Install the spark plug into the engine cylinder (7–8 lb torque). Do not over tighten.

10. Install a ball link and nut (available at your local hobby shop) on the throttle and choke arms. Be sure to use threadlocker.

**Installing the DLE-20RA on Your Airplane**

**Note:** The DLE-20RA must be installed on at least a 1/4” [6 mm] quality 5-ply plywood firewall. The firewall must be securely glued to the airplane. Use triangle stock and pin the firewall with hardwood dowels to reinforce the firewall glue joints. Never install the DLE-20RA onto a firewall thinner than specified because it may fatigue and fail due to the power of the engine.

1. Select an engine mount. A two-piece engine mount that does not interconnect or overlap at the firewall is preferred for the DLE-20, like the Dubro Vibration Reducing Engine Mount 1.20-1.80 (DUBG1307).

2. Before securing the engine mount to the firewall, test fit the engine onto the mount and place the mount onto the firewall. Use this positioning to create an engine mounting template. Use the template to drill the mounting holes in the locations on the firewall. **Note:** A Template for mounting the DUBG1307 is provided on page 23 of this manual. Press the blind nuts into the rear of the firewall. If you choose to use regular nuts or lock nuts be sure to place washers on the bolts before securing the nuts onto the bolts on the rear of the firewall. Be sure to use threadlocker on the screws holding the engine mount to the firewall.

3. Place the engine on the engine mount and at the recommended distance from the firewall and test-fit the cowl on the aircraft to verify the distance. When you’re satisfied with the engine’s position, mark the location of the four holes on the mount.

4. Remove the engine from the mount. Drill and tap the engine mount at the position of the four mounting holes. Use an appropriate size screw (we used (2)1-1/4” and (2) 1” 8-32 thread SHCS). It’s a good idea to drill and tap all the way through the mounting beams in order to secure each screw with a lock nut.

5. Install the fuel tank in the airframe. Use only gasoline approved fuel tank and fuel lines and a gasoline approved stopper. One line should go to the carburetor and the other is to be used as a vent (a vent line is simply an open ended fuel line from the fuel tank which
exits the engine compartment or the fuselage; most vent lines exit at the bottom of the firewall). You can fill the tank by using the carburetor line as fill line if you have access to it or install a third line to be used as fill line. Installing a third line is the cleanest and easiest way to add fuel. An alternative fueling set up is a 2-line system with a T-fitting approved for gasoline use. Be sure to use a filler plug with either a 2 line or 3 line set-up. It’s a good idea to add an extension to the vent line as shown, that goes up and to the rear of the tank. This helps to avoid draining fuel from the tank when the model is pointed down.

6. Install the throttle servo as far as possible from the engine. Make sure that you get the carburetor’s full range of rotation with your servo travel. Be sure to use a non-metallic linkage through an outer pushrod tube and a screw lock connector so that the linkage is adjustable.
Components for the non-metallic linkage can be purchased at your local hobby shop.

7. Once the throttle servo is installed it’s a good idea to deactivate the throttle return spring with a pair of needle nose pliers. Gently grab the spring and remove it from tension on the throttle lever. Deactivating the spring will remove the load or stress on the throttle servo. **Note:** If you choose to deactivate the throttle return spring it’s highly recommended you have a remote kill switch installed (DLEG9205).

8. Install the choke servo (optional) at the same distance as the throttle servo from the engine. Be sure to use a non-metallic linkage and a Faslink to secure the throttle linkage to the servo.

9. Secure the four screws with lock washers, flat washers, and lock nuts.

10. Connect the ignition wire from the ignition module to the spark plug.

11. Install the muffler onto the engine. Be sure to use threadlocker and that the ignition wire does not contact the muffler.

12. Install the exhaust tubes and clamps onto the muffler.

13. Cut all necessary clearance, carburetor adjustment, cooling, and exhaust holes in the cowl.
14. Please ensure the sensor wire is supported as close to the sensor pick-up as possible. Flight loads may cause stress and damage to the wire where it enters the sensor body.

15. Make sure the cowl is secured to the airplane and that the spinner back plate to cowl clearance is at least 1/8” [3.2 mm]. When starting the engine for the first time and during break-in, it’s recommended that you run the engine without the cowling.

**Install the Propeller**

**Note:** In this case we are using a Dave Brown spinner and nut (not included). Always select a strong, reliable spinner that is acceptable for use with a gas engine!

1. It is recommended that you test-run, tune, and/or break-in the engine before flying. To make this easier we recommend that you remove the cowling.

2. Set the engine near the beginning of the compression stroke. Note the position of the ignition magnet with the engine inverted.

3. Place the spinner back plate on the engine and the propeller on the crankshaft at the one o’clock position.

4. Install the prop washer and 8x1.0mm adapter nut (DAVQ9810) on the crankshaft and tighten securely. Check the security of the prop nut and spinner bolt at least every 10-12 flights.

5. Install the spinner cone. Be sure to use thread locker on the spinner bolt.
There are two recommended ways to start the DLE-20RA:

**A. Manual Starting**

*Note:* When hand starting the DLE-20RA, use a thick glove or heavy duty starter stick to protect your hand.

1. The propeller should be installed on the drive washer so that it is at the one o’clock position and near the beginning of the compression stroke so that it is comfortable to flip it through compression.

2. Have someone help you hold the airplane while you start the engine.

3. Switch on, or power your radio system and make sure you have control of the throttle visually at the carburetor. Also make sure that the reversing position of the servo is correct at the transmitter and that the throttle is at the minimum position.

4. Close the choke on the carburetor and open the throttle slightly from the idle position.

5. Switch the ignition to ON. If you installed the optional TX activated Opto Gas Engine Kill Switch (DLEG9205) between the manual on/off switch and the ignition, make sure that the TX switch assigned is in the on position. The LED should be illuminated red to indicate that the ignition is armed.

6. Flip the propeller *counter clockwise* several times briskly.

7. After you hear some initial firing sounds, move the choke lever to the OPEN position.

8. Set the throttle trim to a high idle. Set the propeller so that it’s at the beginning of the compression stroke.

9. Flip the propeller through compression rapidly. If this is done properly, the engine will start after several brisk flips of the propeller.

10. After starting, let the engine idle for 30 to 45 seconds. Open and close the throttle slowly until the engine runs smoothly at idle and at full throttle. Acceleration should also be smooth. If acceleration is not smooth, adjustments to the carburetor may be necessary. (See *Adjustment of the Engine* on page 14.)

11. If your engine does not start, repeat steps 6 through 10.
B. Electric Starter Starting

1. A 24 volt electric starter is recommended to start the DLE-20RA. Make sure you use a high quality, lightweight aluminum spinner.

2. Have someone help you hold the airplane while you start it.

3. Close the choke on the carburetor and open the throttle slightly from the idle position.

4. Switch on, or power your radio system and make sure you have control of the throttle visually at the carburetor. Also make sure that the reversing position of the servo is correct at the transmitter and that the throttle is at the minimum position.

5. Switch the ignition to ON. If you installed the optional TX activated gas engine kill switch (DLEG9205) properly between the manual on/off switch and the ignition, make sure that the TX switch assigned is in the on position. The LED should be illuminated red to indicate that the ignition is armed.

6. Using the starter, turn over the engine until a popping sound is heard. Next, open the choke.

7. Use your electric starter to turn over the engine until it starts.

8. After starting, let the engine idle for one to two minutes. Open and close the throttle slowly until the engine runs smoothly at idle and at full throttle. Acceleration should also be smooth. If acceleration is not smooth, adjustments to the carburetor may be necessary. (See Adjustment of the Engine on pages 10–12.)

9. If your engine does not start, repeat steps 6 and 7.
# Engine Troubleshooting

If your engine fails to start after the preceding starting procedures please check the following.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Diagnosis</th>
<th>Fix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine does not fire</td>
<td>Ignition battery voltage low</td>
<td>Charge or replace battery</td>
</tr>
<tr>
<td></td>
<td>Battery wires faulty or loose</td>
<td>Replace wires or re-connect/check connections</td>
</tr>
<tr>
<td></td>
<td>Faulty spark plug or not firing</td>
<td>Replace spark plug or check for spark *</td>
</tr>
<tr>
<td></td>
<td>Engine flooded</td>
<td>Remove plug, disconnect fuel line, rotate prop to remove fuel</td>
</tr>
<tr>
<td>Engine starts, then rpm increases until engine cuts out</td>
<td>Fuel not reaching engine</td>
<td>Check for: a) fuel in tank b) fuel tubing cut, blocked, or kinked c) carburetor clogged</td>
</tr>
</tbody>
</table>

*This can be done by removing the spark plug from the cylinder of the engine, inserting the plug onto the plug cap, and contacting the plug to the outside of the crankcase or cylinder. Have an assistant turn the engine over while checking this and be sure to have the spark plug firmly plugged into the ignition wire. **Warning:** The high voltage from the ignition can cause bodily harm, especially when checking for spark in this manner.
Adjustment of the Engine

Each DLE Engine has been factory preset. However, higher elevations will influence the performance of the carburetor. To obtain optimum output of the engine, slight adjustment of the carburetor may be necessary. For safety reasons do not adjust the carburetor while the engine is running.

Engine Functions and Adjustments

1. Choke Control (the choke control should be used when the engine is cold or the first run of the day.)
2. Throttle
3. Idle Adjustment Screw (adjust the idle speed)
4. (L) Low-speed Needle (adjusts the fuel/air mixture at low speeds)
5. (H) High-speed Needle (adjusts the fuel/air mixture at high speeds)

Idle Adjustment #3

Turning the Idle Adjustment Screw (No.3) clockwise will increase the idle speed. Turning the Idle Screw counter-clockwise will decrease the idle speed.

Low Speed Needle Adjustment #4

Turning the Low-speed Needle (No.4) clockwise will lean the fuel/air mixture at low speeds. Turning the Low-speed Needle (No.4) counter-clockwise will richen the fuel/air mixture at low speeds. (The default or factory setting of the Low-speed Needle is as follows: turn the needle to the fully stop/closed position and then turn back 1.5 turns.)

High Speed Needle Adjustment #5

Turning the High-speed Needle (No.5) clockwise will lean the fuel/air mixture at high speeds. Turning the High-speed Needle (No.5) counter-clockwise will richen the fuel/air mixture at high speeds. (The default or factory setting of the High-speed Needle is as follows:}
turn the needle to the fully stop/closed position and then open the needle 1.5–2 turns). It is recommended that the High-speed Needle be adjusted by the use of a tachometer to obtain maximum speed. Do not “over lean” either of the low or high speed needle settings. Remember the propeller will unload (spin faster) in the air and an engine that is a little “rich” on the ground will normally lean out a little in the air.

Smooth acceleration and deceleration is an indicator of proper engine performance.

**Ignition Timing Adjustment**

The ignition timing is preset on the DLE-20RA at 46° before Top Dead Center (TDC). The ignition timing can be advanced or retarded slightly by loosening the (2) ignition sensor phillips head screws and sliding the sensor to the full extent clockwise (47° advancing the ignition) or counter clockwise (45° retarding the ignition). Be sure to retighten the phillips head screws after adjusting the ignition timing.

**Advancing the timing causes combustion to occur earlier, resulting in higher performance of the engine. However, advancing the timing also causes higher engine temperatures and can cause premature wear of internal engine components.**

**Carburetor Adjustment Troubleshooting**

**Problem:**

*If* The engine hesitates when accelerated rapidly.

*or* The rpm increases at idling.

*or* The engine stops when the throttle is moved from high to low.

**Solution:**

The low-speed needle “L” is too lean. Open it up about 1/8 of a turn and try again.

**Problem:**

*If* The idle is not steady.

**Solution:**

The low-speed needle “L” valve is too rich. Close it 1/8 of a turn and try again.

**Problem:**

*If* Engine stops at full throttle.

*or* Engine hesitates when accelerated rapidly.

*or* The engine will not come up to full rpm at full throttle.

**Solution:**

The high-speed needle valve “H” is too lean. Open it up 1/8 of a turn and try again.
**Problem:**

*If* Your engine does not reach full rpm.

*or* Carbon build-ups appear consistently on your spark plug.

**Solution:**

The high-speed needle valve “H” is too rich. Close it up 1/8 turn and try again.

**Optional Digital Tachometer** (not included)

An optional Digital Tachometer (DLEG5525) is available that can be directly connected to the ignition and display the RPM of the engine. This unit can be installed on the aircraft or used to spot check the Engine RPM. Do not install or uninstall the Digital Tachometer while the engine is running. The Futaba® DSC Charge Adapter (FUTM4243) can be mounted in the fuselage and allows easy external plug-in of the Digital Tachometer.

Many of the DLE Ignition modules have an additional lead to plug into the optional tachometer. If your ignition module does not have this additional lead, the digital tachometer can still be used. Simply use the Y-harness (included with the Digital Tachometer) to connect to the pick-up lead from the engine. Be sure to secure all connections and to secure the Digital Tachometer or leads on the aircraft used.
Engine Maintenance

Please clean the fuel filter in the carburetor periodically. Failure to do so may result in mis-calibration of the needle adjustments. In order to do this it is necessary to remove the phillips head screw which secures the Carburetor Filter Cover and the Carburetor Filter Gasket. Use only carburetor cleaner to spray the opening around the filter.
Warranty Information

The DLE-20RA has a two year limited warranty through Hobby Services beginning at date of purchase. Please retain your receipt as your proof of purchase.

Contact Us

Hobby Services  
3002 N. Apollo Drive Suite #1  
Champaign, Il 61822  
Ph: 217-398-0007  
Fax: 217-398-7721

E-mail: hobbyservices@hobbico.com  
Web address: www.hobbyservices.com

Date of Purchase _______________________

Order Number _________________________

Serial Number _________________________

Break-In Prop ________  RPM _________

Normal Prop _________  RPM __________
**Replacement Parts**

<table>
<thead>
<tr>
<th>Key No.</th>
<th>Stock No.</th>
<th>Mfg Stock No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DLEG2301</td>
<td>20-V1</td>
<td>Propeller Washer</td>
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<tr>
<td>2</td>
<td>DLEG2302</td>
<td>20-V2</td>
<td>Propeller Drive Nut</td>
</tr>
<tr>
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<td>DLEG2303</td>
<td>20-V3</td>
<td>Propeller Drive Hub</td>
</tr>
<tr>
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<td>DLEG2304</td>
<td>20-V4</td>
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<td>Crankcase</td>
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<td>DLEG2306</td>
<td>20-V6</td>
<td>Connecting Rod</td>
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<td>DLEG2307</td>
<td>20-V7</td>
<td>Bearing Rear</td>
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<td>DLEG2308</td>
<td>20-V8</td>
<td>Woodruff Key</td>
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<td>20-V9</td>
<td>Crankshaft</td>
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<td>DLEG2313</td>
<td>20-V13</td>
<td>Reed Valve Assembly</td>
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<tr>
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<td>DLEG2314</td>
<td>20-V14</td>
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<td>DLEG2319</td>
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<td>DLEG2320</td>
<td>20-V20</td>
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<td>DLEG2326</td>
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<td>DLEG2330</td>
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<td>20-V31</td>
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<td>20-V32</td>
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<td>DLEG2334</td>
<td>20-V34</td>
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</tbody>
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**Optional Parts** (not shown)

- DLEG5525  Onboard Digital Tachometer
- DLEG9205  Opto Gas Engine Kill Switch V2.0
DLE-20RA Mounting Pattern with DUBG1307 Engine Mount

2.75 in. [70 mm]