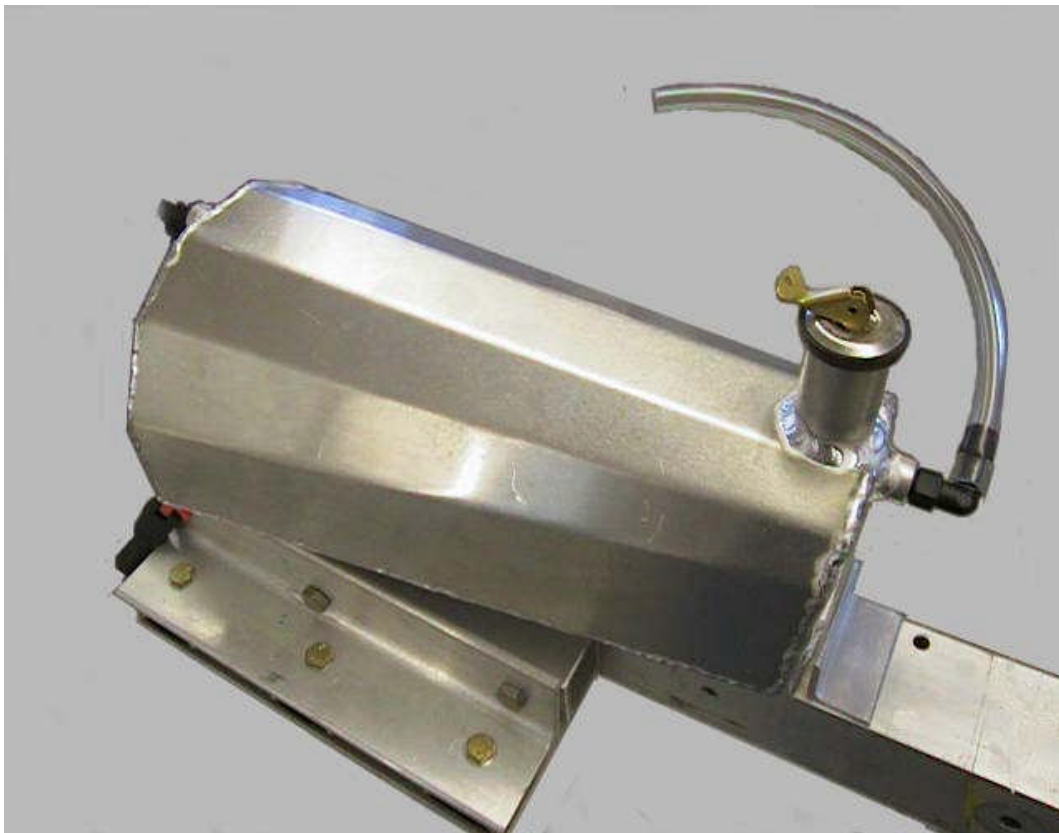


REV1-022106

LIGHT ENGINE SERVICES

ENCLOSED CHALLENGER OIL TANK (3.0 L CAPACITY)



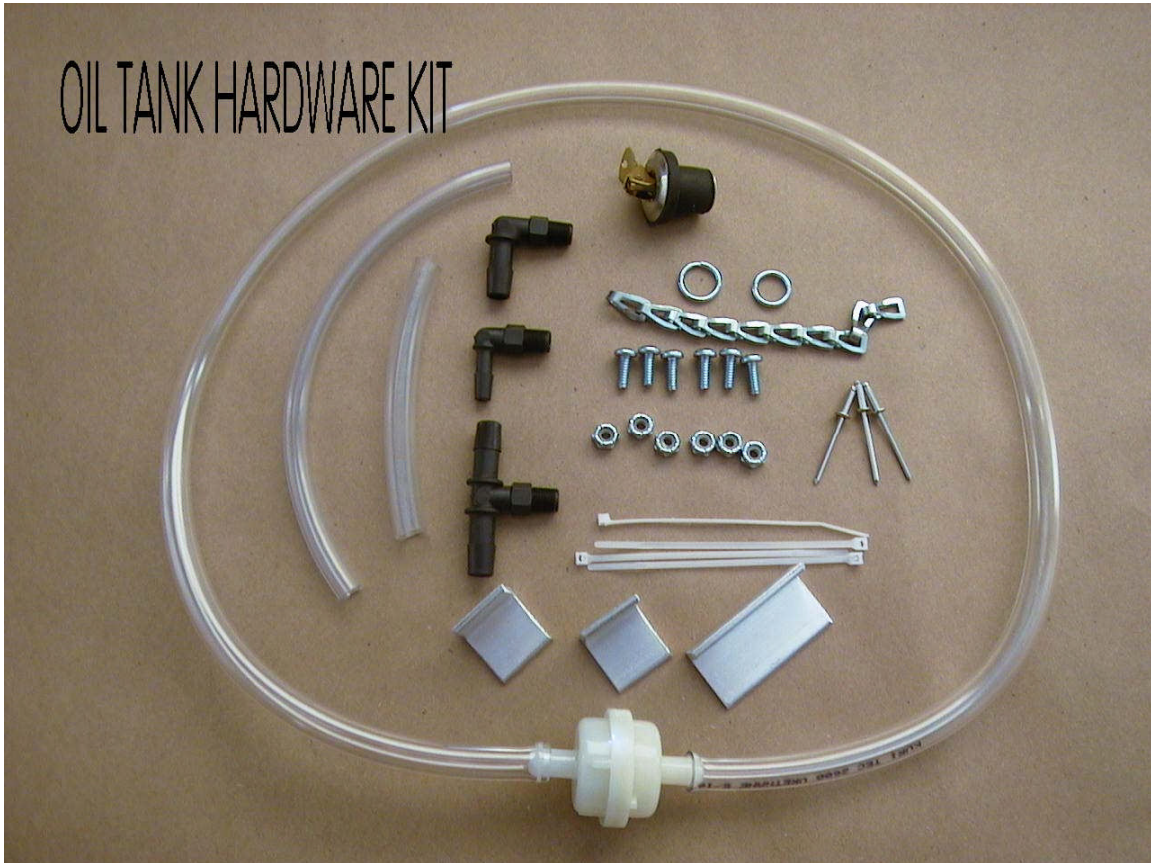
INSTRUCTION SHEETS

1. WINGS AND FRONT AND MIDDLE GAP COVERS SHOULD BE INSTALLED.
2. INSTALL SITE TUBE HARDWARE TO TANK (1 X 1/8 NPT X 3/8" 90 DEGREE BARBED 90 DEGREE PLASTIC FITTING AND 1 X 1/8 NPT X 3/8in X 3/8" BARBED "T" FITTING WITH CLEAR TUBING.
3. SET TANK IN PLACE AND DETERMINE LOCATION SO THE SITE TUBE AND TANK DOES NOT INTERFERE WITH REDUCTION GEAR TOWER AND LARGE PULLEY TIGHTNING NUT.
4. PLACE REAR GAP COVER OVER TANK – DETERMINE LOCATION FOR FILLER NECK HOLE. DRILL A 1 ½ in. HOLE FOR FILLER NECK
5. ADJUST REARWARD (2) 1 IN. WIDE ANGLE BRACKETS AS DESIRED FOR HEIGHT AND FORE/AFT LOCATION OF TANK UNDER GAP COVER.
6. DRILL AND BOLT REARWARD 1" X1" ANGLE BRACKETS TO TABS ON TANK FIRST. ADJUST HEIGHT OF TANK THEN DRILL ANGLE BRACKETS THROUGH THE SIDE OF THE ENGINE MOUNT. FIT 8-32 X ½" MACHINE SCREWS AND LOCKNUTS.
7. DRILL FORWARD ANGLE BRACKET FOR 1/8" (SS44) 1/8" RIVETS AND RIVET TO ROOT TUBE.
8. MARK OIL FILLER NECK AT DESIRED HEIGHT AND CUT OFF.
CLEAN TANK BEFORE USING!
9. INSTALL 1/8NPT X ¼ BARB FITTING TO OIL TANK. AND RUN VENT LINE WHERE IT IS HIGHER THAN TOP OF FILLER NECK. PROTECT END OF VENT LINE FROM FOREIGN OBJECTS, BUGS ETC (USE ENCLOSED FILTER).
10. INSTALL OIL FEED HOSE TO OIL TANK (LUBRICATE BARBED FITTING W/TWO-STROKE OIL AS THIS IS A TIGHT FIT). USE TIE WRAP ON FITTING.
11. ROUTE THE 7/6" OIL SUPPLY HOSE FROM THE TANK TO THE OIL INJECTOR ON THE ENGINE. INSTALL ENCLOSED OIL FILTER CLOSE TO OIL INJECTOR (WHERE THE LINE IS NEAR VERTICAL)
12. MAKE SURE THE OIL FEED LINE IS A CONTINUOUS DOWN SLOPE FROM THE TANK TO THE OIL INJECTOR PUMP.
13. SECURE THE OIL FILLER PLUG WITH SPLIT RINGS AND SAFETY CHAIN TO A DESIRED LOCATION.
14. TRIM AND SECURE REAR GAP COVER

LIGHT ENGINE SERVICES
CHALLENGER 503 OIL TANK



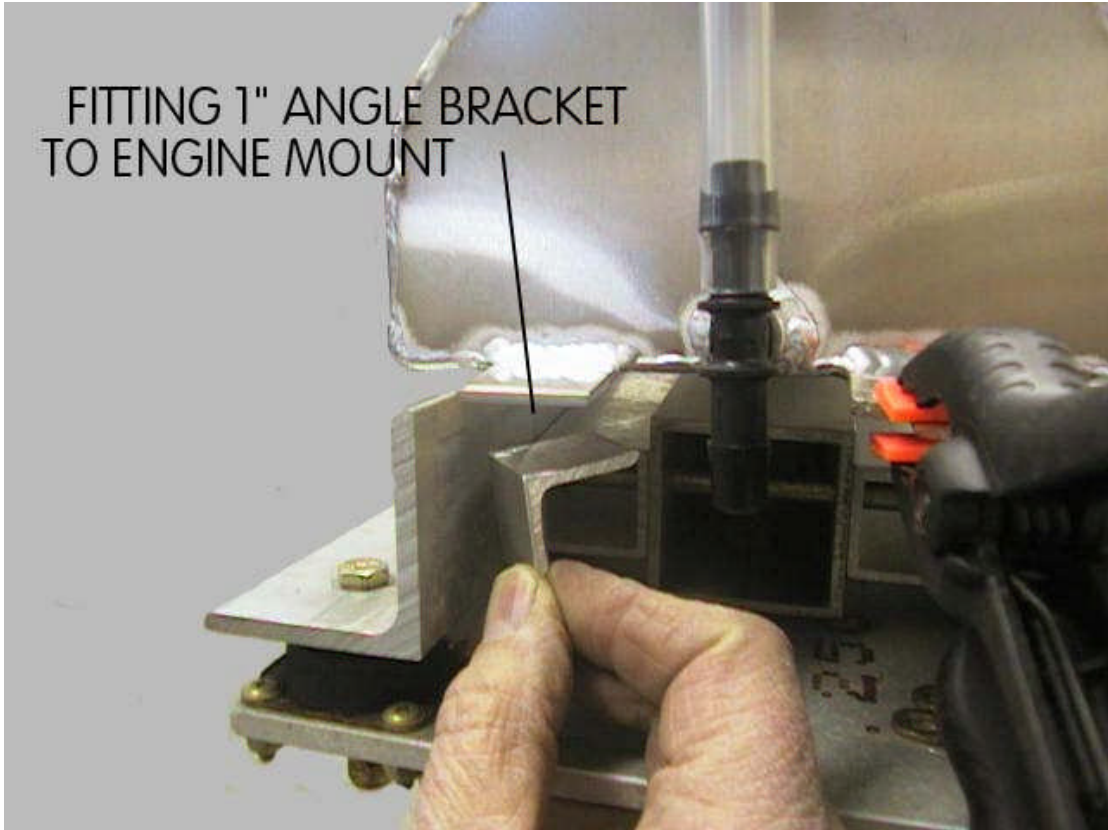
OIL TANK HARDWARE KIT

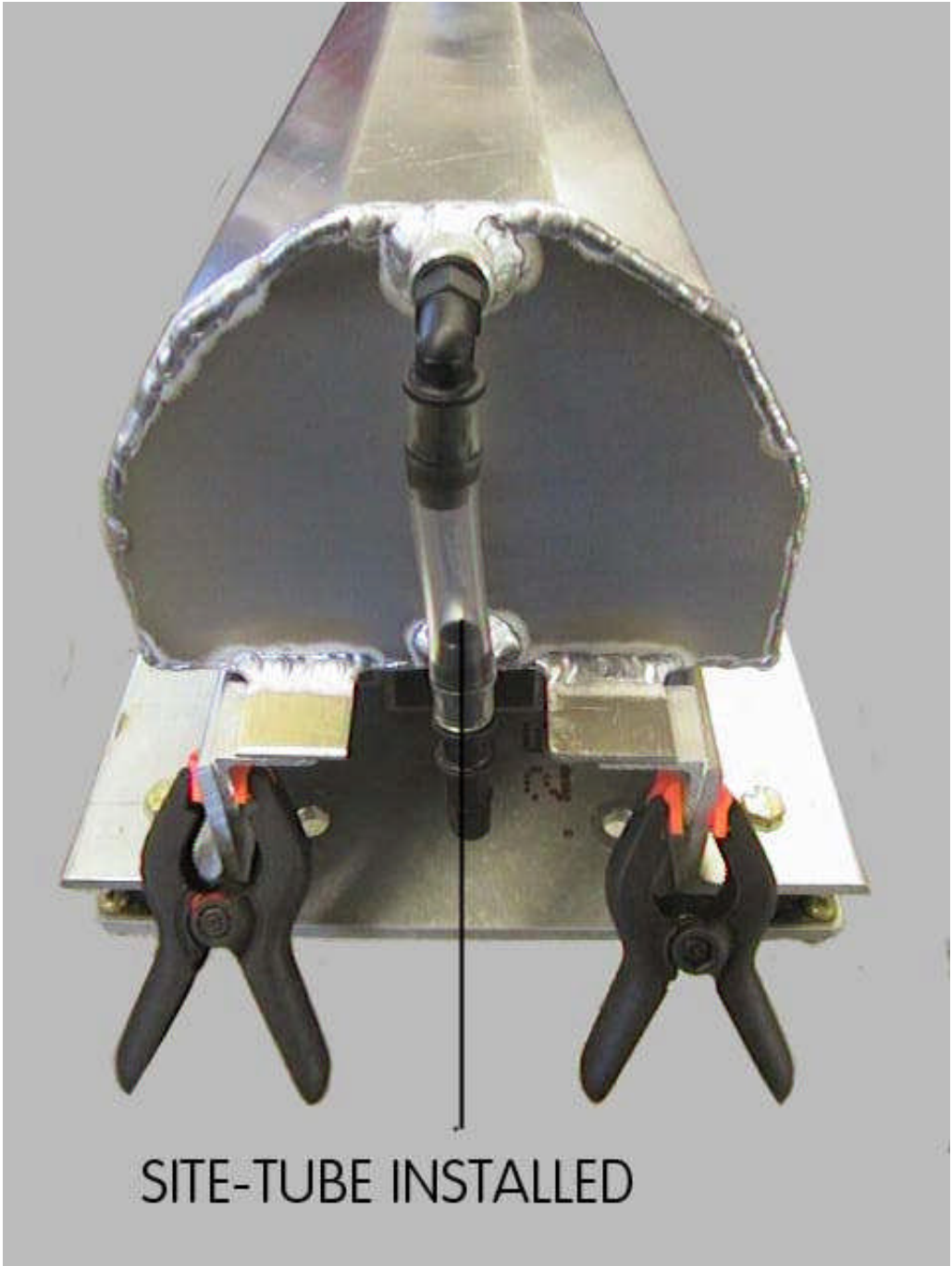




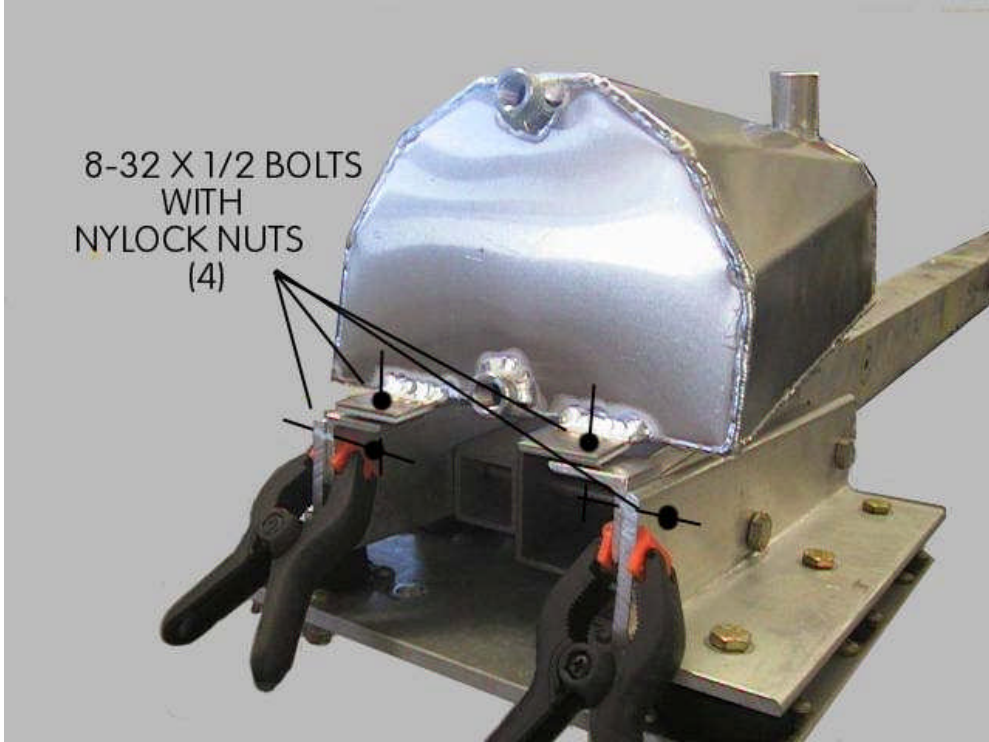
INSTALL WITH THREE 1/8 IN. RIVETS

FITTING 1" ANGLE BRACKET
TO ENGINE MOUNT

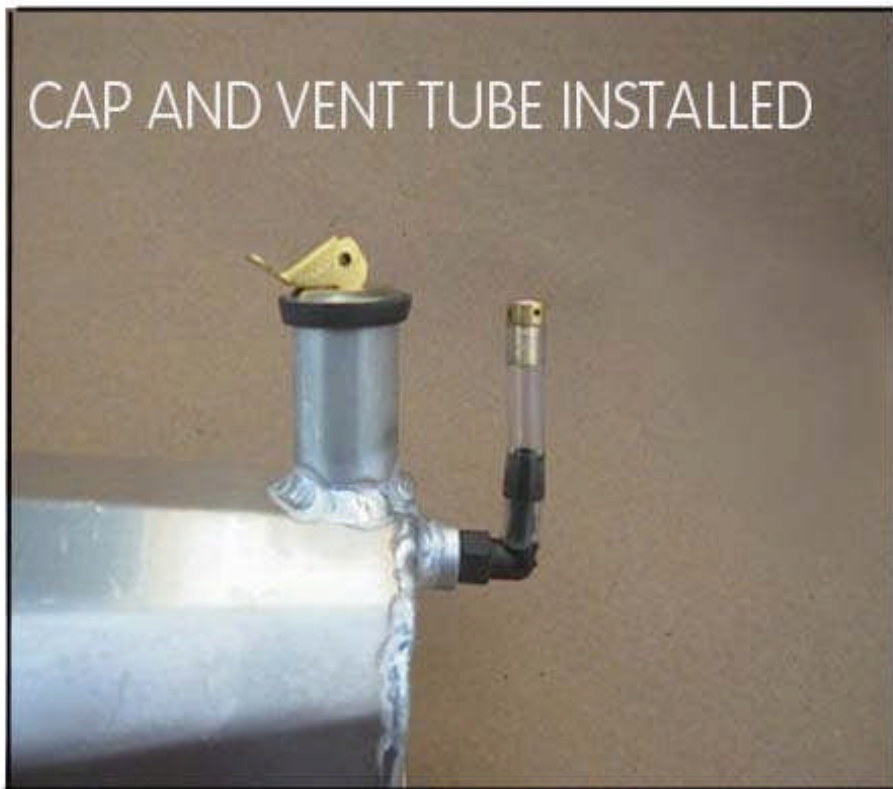




8-32 X 1/2 BOLTS
WITH
NYLOCK NUTS
(4)



CAP AND VENT TUBE INSTALLED



KIT INVENTORY LIST

1	X	#OT-2	OIL TANK
1	X	#ST-1	SITE TUBE – 3/8”X4” CLEAR TUBING
1	X	#VT-1	VENT TUBE – 1/4” X 6” CLEAR TUBE
1	X	#FF-S	FILTER – FUEL (FOR VENT LINE)
1	X	#VP-1	VENT PLUG (BRASS)
1	X	#OLF-516	OIL FEED LINE 7/16” X 3 FT. CLEAR URETHANE TUBING
1	X	OF-2	OIL FILTER (IN-LINE)
1	X	#BF-90-1	BARBED FITTING – 90 DEGREE 1/8NPT X 3/8
1	X	#BFT	BARBED ‘T’-FITTING 1/8NPT X 3/8” X 3/8”
1	X	#BT90-2	BARBED FITTING – 90 DEGREE 1/8”NPT X 1/4”
3	X	#SS44	STAINLES STEEL RIVITS (1/8”)
2	X	#SR-1	SPLIT RINGS FOR SAFETY CHAIN)
1	X	#FP-1	FILLER PLUG
1	X	#SC-1	SAFETY CHAIN
1	X	#AB-1	ALUMINUM BRACKET 2” X 1” X1”
2	X	#AB-2	ALUMINUM BRACKETS 1” X1” X1”
6	X	#MS-1	MACHINE SCREWS 8-32 X 1/2”
6	X	#NN-1	NYLOCK NUTS 8-32
6	X	#NT-3	NYLON TIES 3”
1	X	#L-INST	INSTRUCTION BOOLKET

Notes!

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