

WHELLEN® Strobe System Recommendations

Cessna Aircraft

Wingtip Strobes for Early Model Single Engine through 1961 –

Excluding any modified wingtip, use position lights at the wingtip extremity. To convert to Whelen strobes, the following is recommended:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-01	LED Wingtip light, 14 VDC, red
1 each	HD60	01-0750206-00	Installation package

Note: Model A650PG14/A650PR14 can replace Model 711100() for a strobe/halogen solution



Wingtip Strobes for Single Engine 1962 through 1969 –

Requires modification to the factory wingtip to accommodate the light assemblies. To convert to Whelen strobes, the following is recommended:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
1 each	7111001	01-0771110-01	LED Wingtip light, 14 VDC, green
1 each	7111002	01-0771110-02	LED Wingtip light, 14 VDC, red
1 each	HD60	01-0750206-00	Installation package

Note: Model A650PG14 & A650PR14 can replace Model 711100() for a strobe/halogen solution



Wingtip Strobes for Single Engine 1970 and 1971 –

Excluding any modified wingtip, also use position lights at the wingtip extremity, however, the retainers are too short to accommodate a custom installation. The Model A625 strobe lights are mounted aft of the position light lens retainers. To convert to Whelen strobes, the following is recommended:

Quantity	Model	Part #	Description
1 each	HDACF	01-0770028-05	Power supply
2 each	A625	01-0770058-03	Wingtip strobe light assembly
1 each	HD60	01-0750206-00	Installation package



Wingtip Strobes for Single Engine 1972 and Later –

Excluding any modified wingtip, spare wires were installed at the factory from a switch position on the instrument panel to the farthest rib in each wingtip. This allows mounting of the power supplies adjacent to the strobe light, which reduces installation time significantly. Wingtip strobes were also an option in the early 70's. We estimate that 40-50% had factory installed systems.

Replacement Parts for Aircraft with Factory Installed Systems:

Quantity	Model	Part #	Description
2 each	A490TCCF	01-0770006-09	Wingtip strobe power supply
2 each	A427	02-0250274-00	Wingtip strobe tube
2 each	A428	68-4290001-30	Wingtip strobe lens

Recommended Parts for Aircraft without Factory Installed Systems:

Quantity	Model	Part #	Description
2 each	A490TCCF	01-0770006-09	Wingtip strobe power supply
2 each	A610	02-0250276-00	Wingtip strobe tube assembly
2 each	A612	68-2290005-30	Wingtip strobe lens
1 each	HT	01-0750216-00	Installation package

Note: A small percentage of 1972 and later aircraft used the 1962-1969 wingtip.



Cessna Aircraft (cont'd)

Rotating Beacon Replacement -

The round mechanical rotating beacon was used on early model single engine Cessnas from the late 50's through 1966. Twin Engine Cessnas started using the round mechanical rotating beacon in the 50's. Later model 400 Series used a teardrop beacon. Check existing beacon configuration before ordering.

To convert the existing beacon to a self-contained LED flashing beacon:

Quantity	Model	Part #	Description
1 as req.	9052055	01-0790520-55	LED Red/White, 14 VDC (3.75" adapt., flying leads)
1 as req.	9052005	01-0790520-05	LED Red/White, 28 VDC, 3.75" adapter
1 as req.	A440	19-130074-009	Mounting adapter (required for fuselage mounting)

To convert the existing beacon to a self-contained strobe beacon:

Quantity	Model	Part #	Description
1 as req.	HRCFAR	01-0770029-29	Standard assembly, Red lens
1 as req.	HRCFAW	01-0770029-30	Standard assembly, Clear lens
1 as req.	HRCFAS	01-0770029-31	Standard assembly, split Red/Clear lens
1 as req.	A440	19-130074-009	Mounting adapter (req. for fuselage mount)



Quartz Halogen Flasher Replacement for Single Engine Vertical Fin, 1967 & later -

In 1967, Cessna changed from a rotating beacon to a quartz halogen Flasher beacon. This has a 150 watt, 28 VDC quartz halogen lamp, or a 125 watt, 14 VDC quartz halogen lamp, operated from a solid-state electronic module.

To convert to a Whelen strobe, the following is recommended:

Quantity	Model	Part #	Description
1 as req.	A470AR	01-0770019-18	Strobe light assembly, Red
1 as req.	A470AW	01-0770019-19	Strobe light assembly, White
1 as req.	A470AS	01-0770019-20	Strobe light assembly, split Red/White

Note option 1: Model 71055 Self Contained LED Beacon can replace Model A470AR for a LED solution

1 each	A490ATSC	01-0770062-03	Power supply assembly
1 each	H102	01-0730068-00	Mounting adapter
1 each	HT10	01-0750218-00	Installation package
1 as req.	9052055	01-0790520-55	LED Red/White, 14 VDC (3.75" adapt., flying leads)
1 as req.	9052005	01-0790520-05	LED Red/White, 28 VDC, 3.75" adapter
1 as req.	A440	19-130074-009	Mounting adapter (required for fuselage mounting)

Note option 2: Model 90520 Self Contained LED Beacon can replace Model A470AR for a LED solution



Cessna 300A, B, C & D Twin Engines -

The system for these airplanes requires fabricated brackets for affixing the power supplies and for attaching the strobe to a new Position light bracket.

To convert to Whelen strobes, the following is recommended:

Quantity	Model	Part #	Description
3 each	A490TCF	01-0770006-08	Power supply
2 each	A625	01-0770058-03	Wingtip strobe light
1 each	A500AV	01-0770024-01	Tail strobe/Position light
1 each	HT	01-0750216-00	Installation package



Strobe System Recommendations

Cessna Aircraft

The Remaining Cessna 300-400 Series Twin Engines –

The system for these airplanes requires the same hardware as above, however, some had factory installed Grimes assemblies from approximately 1969 and later. To replace the existing system, all parts must be replaced and wiring must be changed. New fabricated brackets are required.

Cessna Citation Series –

Whelen has an STC compliant system to convert factory installed Grimes wingtip strobes. The initial STC #ST22B0 was for Citation 550, S550 & 560, Serial #128 thru 256. The following is recommended.

System P/N – 01-0716164-03, (STC #ST22B0) includes:

Quantity	Model	Part #	Description
2 each	9010104	01-0790101-04	Power supply
1 each	9015905	01-0790159-05	Strobe light assembly
1 each	9015906	01-0790159-06	Strobe light assembly

Brackets & hardware for Installation

The second system, STC #ST0010B0, covers Serial #257 & later, and any aircraft that installed Cessna Service Bulletin #SB560-33-08 from Serial #0001 thru #0256.

System P/N – 01-0716164-05, (STC #ST0010B0) includes:

Quantity	Model	Part #	Description
2 each	9010104	01-0790101-04	Power supply
1 each	9020603	01-0790206-03	Strobe light assembly
1 each	9020604	01-0790206-04	Strobe light assembly

Brackets & hardware for Installation

Cessna Citation Series –

Whelen has an STC compliant system to convert factory installed Grimes wingtip strobes. The initial STC #ST22B0 was for Citation 550, S550 & 560, Serial #128 thru 256.

The following is recommended:

Oscillating Beacon Replacement -

To convert from the existing mechanical oscillating beacon used on some 400 series as well as the entire family of Citations (excluding CJs).

*Note: check existing mounting configuration before ordering.

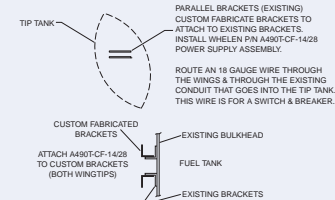
To convert the existing beacon to an **LED** flashing beacon:

Quantity	Model	Part #	Description
1 as req.*	9008811	01-0790088-11	Lower mount, 5 hole
1 as req.*	9008812	01-0790088-12	Upper mount, 5 hole
1 as req.*	9008813	01-0790088-13	Upper mount, 5 hole, 2.25 lbs. (rudder mount)

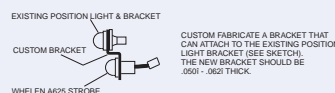
To convert the existing beacon to a **Quartz Halogen** flashing beacon:

Quantity	Model	Part #	Description
1 as req.*	9004401	01-0790044-01	Upper mount, 5 hole (Red)
1 as req.*	9004433	01-0790044-33	Upper mount, Red, 5 hole, 2.25 lbs. (rudder mount)
1 as req.*	9004437	01-0790044-37	Upper mount, Red, 5 hole, (Citation X)

INSTALLATION OF A WHELEN TWO OR THREE LIGHT SYSTEM ON A CESSNA 300-400 SERIES WITH TIP TANKS



RECOMMENDATION FOR THE WING-TIP STROBE LIGHT



THIRD LIGHT INSTALLATION IN THE TAIL CONE

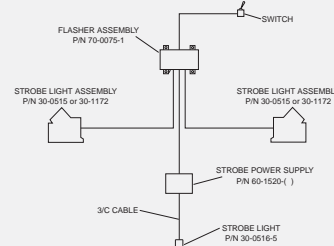
IF A THIRD LIGHT IS REQUIRED, INSTALL THE WHELEN A490T-CF-1428 POWER SUPPLY, ADJACENT TO THE WHELEN COMBINATION STROBE NAV LIGHT ASSEMBLY, P/N A500AV-28

ROTATING BEACON REPLACEMENT

TO REPLACE THE ROTATING BEACON ON THE VERTICAL FIN, THE RECOMMENDED LIGHT ASSEMBLY IS A WHELEN HRCFA-RW-1428



REPLACEMENT OF GRIMES THREE LIGHT STROBE SYSTEM INSTALLED ON CESSNA 300-400 SERIES WITH TIP TANKS



EXISTING GRIMES PART NO.	WHELEN REPLACEMENT PART NO.
30-0515 or 30-1172	A490T-CF-1428
30-0516-5	A500AV-28

REPLACE THE GRIMES PART NUMBERS WITH THE WHELEN PART NUMBERS AS LISTED ABOVE. REMOVE PN 70-0075-1 AND EXTEND THE WIRES TO THE EXISTING SWITCH.



NOTE: All non-FAA approved parts in this catalog are signified by a (—) in the approval column. Parts without FAA approval may still be purchased, however, installation of these parts on U. S. Type Certificated products will require FAA approvals.