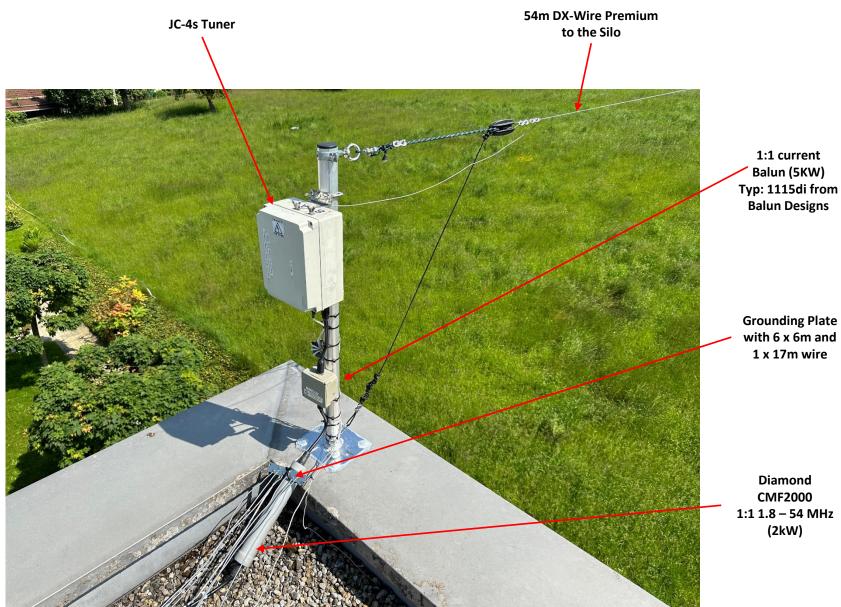


JC-4s Tuner 54m DX-Wire Premium DANGER HIGH VOLTAGE 1:1 Balun **Tuner Control** Wire 1:1 current Balun (5KW) Typ: 1115di from **Balun Designs**



Typ: 1115di from **Balun Designs**

with 6 x 6m and

1:1 1.8 – 54 MHz

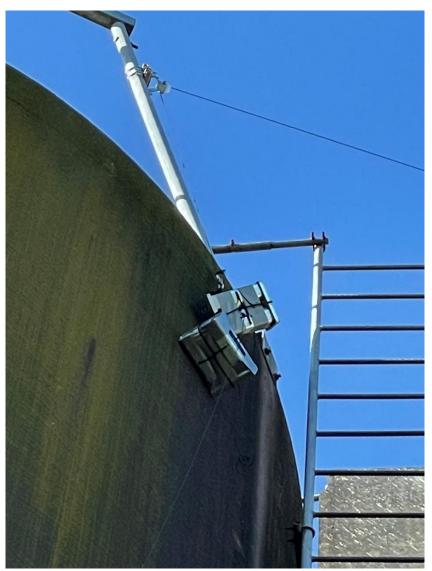










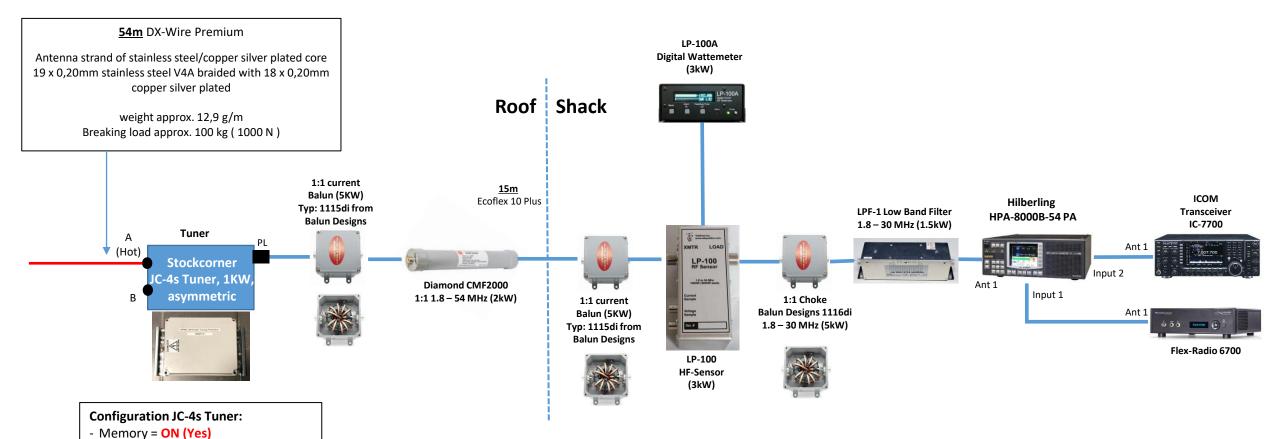


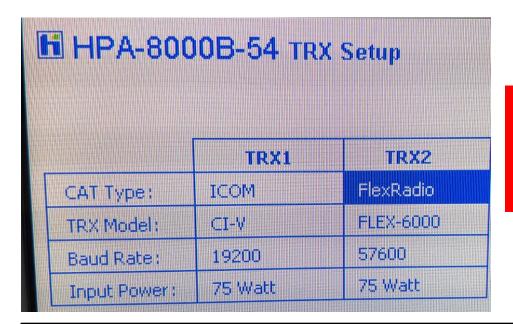
DX-Wire Micro broke on 30. Nov. 2021 after 10m from the tuner due to snow. Repaired in Jan. 2022 with 54m DX-Wire Premium



- Wire at A

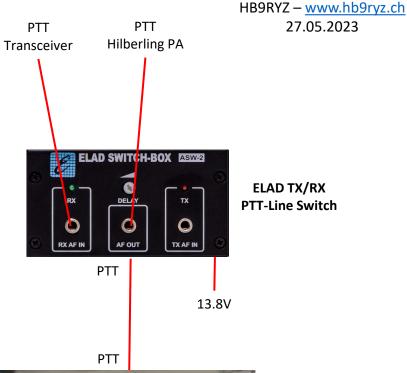
- Jumper: GROUNDED (B = Ground)





JC-4s Tuner-Protection

The **Tune-Button** is the trigger to break the PTT line for the short tuning period (4-6 sec.) between the Hilberling Amplifier and the IC-7700/Flex 6700 for at least 12 sec.



Stockcorner JC-4s tuning with 54m wire antenna with IC-7700 and Flex 6700

- Set TX to AM (15-20W for tuning) RF control to 10 o'clock
- Press red tuner button on JC-4s controller until LED lights up
- Transmit and wait until red LED turns OFF → SWR 1:1
- Set Hilberling PA to OPERATE and transmit
- Observe the SWR on the Hilberling PA and on the LP-100 A respectively!

Attention:

Never tune when Hilberling PA is in OPERATE mode!!!!!

Despite my special tuner protection circuit



JC-4s Tuner Box

13.8V

Summary:

- Stockcorner Tuner JC-4s
- 54m DX-Wire Premium
- 15m (House) 20m (Silo) above Ground
- 10m 160m max. 1 kW
- Grounding via 6x 6m and 1x 17m radials (wire)
- 2x 1:1 Choke Balun Designs at the Tuner Input
- Grounding connection between IC-7700 and 13.8V Power Supply
- Guy robe from Kanirope, 1mm, Breaking load 100 daN(kg)



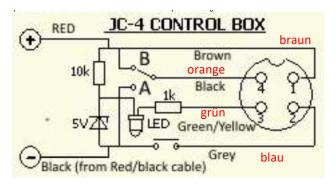


Konfiguration JC-4s Tuner:

Memory = ON (Yes)

Draht an A

Jumper: **GROUNDED**

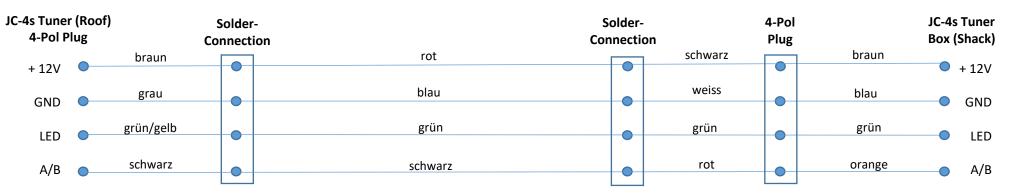


Remote Relay Board Relay 1 = click shortly to start tune process





15m Control-Wire (8-Pol)



www.balundesigns.com



Core Material	Custom mix low permeability ferrite by Fair Rite Products for maximum bandwidth. Large 2.4 inch cores are coated and sealed for long term durability.				
Winding Type	Stacked dual core, coaxial wound 1:1 current balun provides larger effective core area.				
Winding Material	Mil Spec 50 ohm coax rated 19kW @ 1MHz, 9kW @ 10 Mhz and 4kW @50MHz. Silver flashed braid and center conductor with solid Teflon dielectric.				
Power Rating	1 to 35 MHz - 5kW, 10kW intermittent. 35 to 54 MHz - 5kW. All ratings at resonance. High SWR will reduce power handling ability.				
Useable Frequency	1 to 54 MHz				
Insertion Loss	Less than .1db				
Connectors	SO-239 connectors are gold center conductor with Teflon insulation. Alternate connectors and Mounting Options are available in the <u>Accessories</u> section.				
Hardware	All Stainless Steel				
Enclosure Type	NEMA rated 4x marine grade junction box for outdoor installations. Cover utilizes integral neoprene gasket for weatherproof integrity.				
Dimensions	4x4x2 inches for main body of unit <u>Dimensional Drawing of Standard Enclosure</u>				
Additional Info	Very high efficiency. Will not heat up or saturate at like many of the "less expensive" designs.				

Our "i" series of feedline isolation baluns provide excellent feedline decoupling and, depending on the model selected, low loss performance across the full HF spectrum. The **model 1115di** is a dual core design that will handle 5kW at resonance with a 100% duty cycle, provides high common mode impedance and an extended effective core area for improved heat dissipation.

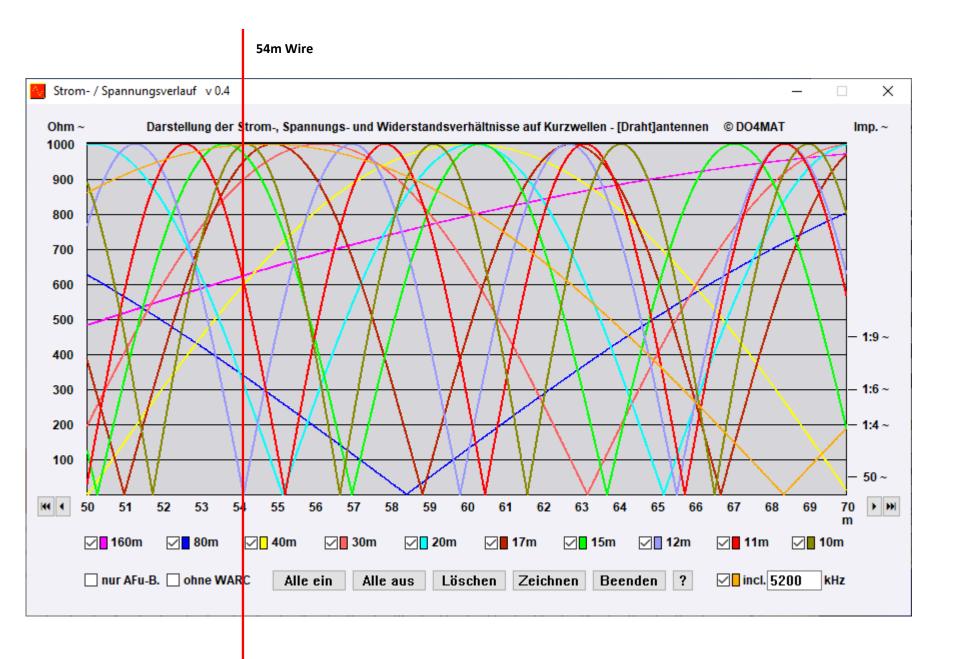
When your transceiver and other equipment in your shack acts strangely, it is probably due to stray RF pickup which produces a common mode current problem. This is especially apparent when using end-fed antennas, high-impedance feedlines, or a poor ground counterpoise. Problems can be more evident in SSB mode because the microphone audio line and mic circuitry may be very sensitive to RF. You can even get an RF burn from the mic in worst-case situations, not to mention from the chassis or other equipment used in the system.

www.balundesigns.com



Core Material	Custom mix ferrite by Fair Rite Products optimized for low frequencies.					
	Large 2.4 inch cores are coated and sealed for long term durability.					
Winding Type	Stacked dual core, coaxial wound 1:1 current balun provides larger effective core area.					
Winding Material	Mil Spec 50 ohm coax rated 19kW @ 1MHz, 9kW @ 10 MHz & 4kW @ 50 MHz.					
	Silver flashed braid and center conductor with solid Teflon dielectric.					
Power Rating	1 to 31 MHz - 5kW, 10kW intermittent, 31 to 54MHz - 3kW					
	All ratings at resonance. High SWR will reduce power handling ability.					
Useable Frequency	1 to 54 MHz					
Insertion Loss	Less than .1db					
Connectors	SO-239 connectors are gold center conductor with Teflon insulation.					
	Alternate connectors and Mounting Options are available in the <u>Accessories</u> section.					
Hardware	All Stainless Steel					
Enclosure Type	NEMA rated 4x marine grade junction box for outdoor installations.					
	Cover utilizes integral neoprene gasket for weatherproof integrity.					
Dimensions	4x4x2 inches for main body of unit					
	<u>Dimensional Drawing of Standard Enclosure</u>					
Additional Info	Very high efficiency.					
	Will not heat up or saturate like many of the "less expensive" designs.					

Our "i" series of feedline isolation baluns provide excellent feedline decoupling and, depending on the model selected, low loss performance across the full HF spectrum. The **model 1116di** is a dual core design that will handle 5kW at resonance with a 100% duty cycle, provides high common mode impedance and an extended effective core area for excellent performance. The core mix used to construct this balun is **optimized for the lower frequencies** producing a level of choking impedance not available from other designs. **Even with the optimization, this core mix is still effective up through 54 MHz.**





Lightning protection

On July 19, 2018, the lightning protection was installed by the company Paul Gisler AG in Rotkreuz.











Installationsattest Blitzschutzsystem

VOITGET ETTICITETTITITA	geniass on SEV 4022	.2006 Lelisalze Elekii	osuisse b	HILZSCIII	uizsysierne ziner i	11.2 auszululiett.		
Angaben zum G	ebäude			Gem	neinde	Hünenberg		
Gebäudeadresse	bāudeadresse Holzhāusernstrasse 5a			PLZ, Ort		6331 Hünenberg		
Grundstück Nr.	Grundstück Nr.			Assekuranz Nr.		1479 a		
Gebäudeart	Reiheneinfamilienhaus			Gebäudeumfang ca, 40 m				
Pflichtanlage		X Freiwillige Anlage						
☐ Neuanlage		Blitzschutzkl	asse I	(5x	5 m Maschenw. 10	0 m Abstand zw. Ableitungen)		
Änderung / Erv	veiterung	(10x10 m Maschenw. 10 m Abstand zw. Ableitungen)						
☐ Überprüfung / Instandsetzung ☐ Blitzschutzklasse III (15x15 m Maschenw. 15 m Abstand zw. Ableitungen)								
Gebäudeeigentümer Errichterfirma								
Name, Vorname			Firma	a Paul Gisle		AG		
Strasse, Nr.	Holzhäusernstrasse 5a		Strass	se, Nr. alte Steinhauserstr. 32		auserstr. 32		
PLZ, Ort	6331 Hünenberg		PLZ, (Ort 6330 Cha		n		
Tel.			Tel.		041 748 50 30			
Fangleitungen (Material, Dimension) Keine Fangleitung Natürliche Ableitungen (Anzahl, Material)								
Künstliche Able	itungen (Anzahl, N	Material, Dimension)						
verz. Kupferdraht	6 mm							
Erdungssystem	(Art, Material, Dimens	sion)						
Tiefenerder								
Innerer Blitzschutz (Potentialausgleich, Überspannungsschutz)								
Erdungsmessu	ngen (in Ohm)			Messgerät (Typ, Verfahren)				
10.0						gert DET3TC nktmessung		
Der Errichter bestätigt, dass die Anlage den Leitsätzen Blitzschutzsysteme 4022 und Fundamenterder 4113 entspricht. Angewendete Norm: 4022:2008 4022:2004 4022:1987 Firmenstempel								
Ort, Datum_Cham, 23,07,2018					Unterschrift			
Die Kontrolle des Blitzschutzsystems hat gemäss kantonaler Weisung durch eine anerkannte Person für Blitzschutzanlagen a erfolgen.				zu	Firmenstem	paul v		
Ort, Datum Cham, 23.07.2018				_	Unterschrift	ug		
Zertifikatsträger Martin Schärli					VKF Zertifikats Nr. 06511009			