

R E S T R I C T E D

HEADQUARTERS
COMMUNICATION ZONE, ETOUSA (FORWARD)
OFFICE OF THE CHIEF ORDNANCE OFFICER
APO 887

3 October 1944.

ETO ORDNANCE TECHNICAL INTELLIGENCE REPORT NO. 26.

SUBJECT: Care and treatment of the Goliath in the Field.

Translation of German Document by Tec 4 O.F. Hess, Ordnance
Technical Intelligence Unit, Third U.S. Army. Reworded by 1st Lieut.
Arthur J. Bjerkan, Technical Division, Hq Com. Z (Fwd) ETOUSA.

General Command - IV Lw Field Corps
Staff Officer for Infantry Weapons and Defense
against Chemical Warfare.

K.Hq 10 July 1944.

Restricted for the Service.

1. Practice driving with the Goliath is forbidden.
2. The Goliath must be stored in a place that is dry and safe from shell fragments.
3. Special care must be taken to keep the steering mechanism (relay system and operator's control box) dry.
4. From the operator's remote control box of the Goliath, field cable is laid in a cable ditch, 0.8 to .1 meter deep, to the point where the cable is brought up and connected to the individual wires of the Goliath's cable. Do not mix up the red, blue and black wires.
5. The Goliath must be cleaned daily in the following order:
 - a. Open the compartment containing the relay system, "lock the hot tube fuse" (disconnect the electric detonator).
 - b. "Lock" (disconnect) terminals 6 and 14 and clean carefully with a soft cloth.
 - c. The cable reel and slip ring conductors (contacts) should be wiped off and covered lightly with grease.
 - d. Check to see that the thorn (pin) of the bearing hinge is in the hole in the cable reel axle.
 - e. The relay mechanism should be dusted and wiped dry, then covered lightly with grease.
 - f. Open the storage battery compartment, see that battery connections are still in order, then close the compartment.
 - g. Chains, turnbuckles, and drive assembly must always be kept well greased.
 - h. After finishing cleaning, replace contact terminals Nos. 6 and 14 and make the checks described in paragraph 6.

R E S T R I C T E D

R E S T R I C T E D

6. After the daily cleaning of the Goliath it should be checked in the following order:

- a. "Lock hot tube fuse" (Disconnect the electric detonator)
- b. Place the Goliath on wooden blocks so that the tracks are off the ground.
- c. Connect the operator's control box, black wire last.
- d. Check the operation of the Goliath for a short time with the following control box commands: "forward" with left turn and right turn, and "reverse" with left turn and right turn.
- e. Plug in the test lamp on the relay housing, test three positions. (If the track moves three times the lamp will glow three times).

7. If all commands from the operator's control box come in correctly:

- a. Disconnect the control box.
- b. Place the Goliath on the ground.
- c. Connect the electric detonator.
- d. Close the relay housing compartment and the cable reel compartment, then place the Goliath in its shelter.

8. If one or more control box commands fail to come in correctly check: all connections, cable reel, terminals, and batteries. If the trouble is in the relay mechanism or the operator's control box, advise Pruefstaffel (maintenance squad), Schirrmeister (Maintenance Sergeant), Unteroffizier Reithofer (Sgt. Reithofer) 7./ Fest (fortress) Stamm-Abt. (Hq. Det).

9. The relay mechanism and control box are only to be opened and checked by a Schirrmeister (Maintenance Sgt).

10. In the event of an alert, disconnect the electric detonator, check the ignition or firing circuit with a test lamp. Then reconnect the electric detonator and after two or three minutes have elapsed screw the electric detonator into the explosive compartment.

11. To put the Goliath into service: connect the operator's control box. The ignition (firing) key will not be put into the control box until the Goliath is on its way toward the enemy, but before it has travelled 50 meters.

12. Any Goliaths which cannot be put into action due to technical malfunctions and are to be repaired by the Schirrmeister (Maintenance Sgt), must be taken away. (Defects in the relay system or control box or discharged batteries etc.,) In no case will a Goliath stay in the front lines while, for example, the relay mechanism is being repaired behind the lines by the Schirrmeister.

13. With each Goliath there will be issued as a supplement a cord type fuse detonator. (This detonator with its fuse is located in the relay compartment beside the electric detonator). The length of the time fuse will be judged by the local distance and conditions. For example, for a distance of 100 meters use a fuse length of one meter. For heavy ground, rising slopes etc., which will decrease the speed of the Goliath, the fuse should be made longer to compensate for the delay. The lighting of the time fuse will be done by a fuse lighter which can be pulled off by a wire attached to the Goliath's shelter.

R E S T R I C T E D

FOR THE CHIEF ORDNANCE OFFICER:

H. N. Toftoy
H. N. TOFTOY,
Colonel, Ord. Dept.

DISTRIBUTION:

Military Intell. Div. W.D. General Staff (1 copy for C ,ASF) ...	7	✓
Chief of Ordnance, W.D	8	
SHAEF, G-2 (Technical Intelligence)	1	
SHAEF, G-3 (Training and Experimental)	1	
M.A. Ordnance, London (2 copies for M1-10)	4	
Commander, U.S. Naval Forces, Europe, (Readiness Div)	2	
Hq Com.Z. ETOUSA, G-2	1	
" " Technical Division	3	
" " Mail & Records	1	
" " OTIU-E	1	
" " Bomb Disposal	1	
ADSEC, Com.Z, ETOUSA. (1 copy G-2, 1 copy Ord. Off)	2	
Hq First Army Group (1 copy G-2, 1 copy Ord. Off)	2	
Hq Sixth Army Group (1 copy G-2, 1 copy Ord. Off)	2	
Hq Twelfth Army Group (1 copy G-2, 1 copy Ord. Off)	2	
Hq Twenty-first Army Gp (1 copy G-2, 1 copy Ord. Off)	2	
Hq First U.S. Army, Ordnance Officer	1	
Hq Third U.S. Army, Ordnance Officer	1	
Hq Seventh US Army, Ordnance Officer	1	
Hq Ninth U.S. Army, Ordnance Officer	1	

R E S T R I C T E D