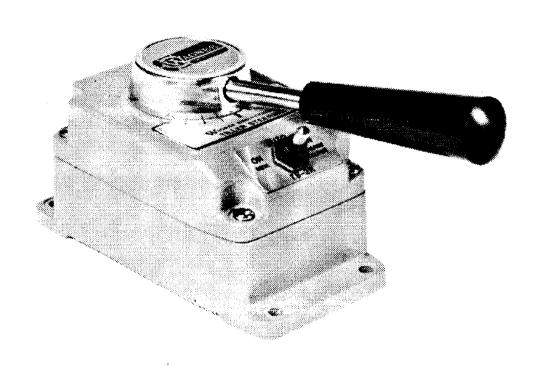


TS-2R REMOTE CONTROL
(P/N 510-152)

Reference: P/N 790-028

ISSUE: October/84



The TS-2R Remote Control is used with a Wagner MK4 Autopilot. It is normally mounted in a fixed position and is supplied with 15 metres (50 ft) of prewired cable. The controller has the following functions:

A. AUTO POSITION

Normal Autopilot operation position

B. ON MEM (MEMORY) POSITION

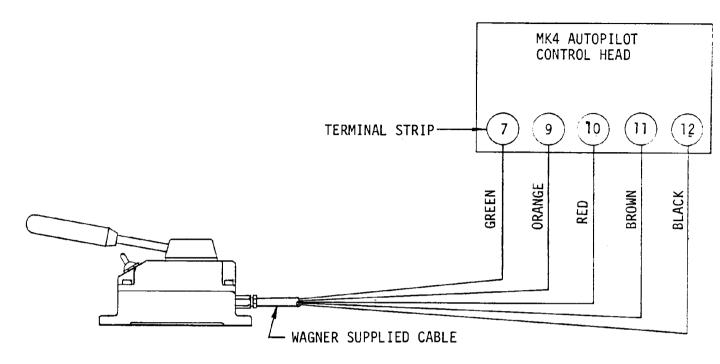
The Autopilot does not operate in this position. However, it memorizes the last Autopilot course the vessel was steering. The TS-2R lever may now be turned to steer the vessel. The rudder angle will be proportional to the lever angle. If the toggle switch is returned to the AUTO position, the Autopilot steers the memorized course.

C. ON CC (COURSE CHANGE) POSITION

With the toggle switch in this position, the vessel may be steered with the lever to a new heading. Holding the new heading for a moment and then returning the toggle switch to the AUTO position locks the Autopilot on to this new heading.

ELECTRICAL CONNECTIONS

All electrical connections must be positively secured and adequately insulated. A loose wire or short circuit could cause an erroneous steering command. In order to hide the cable, the cable gland may be repositioned to the bottom of ths TS-2R housing. Simply exchange the gland fitting with the housing seal plug, separate the housing top and bottom and re-direct the cable through the newly positioned gland.



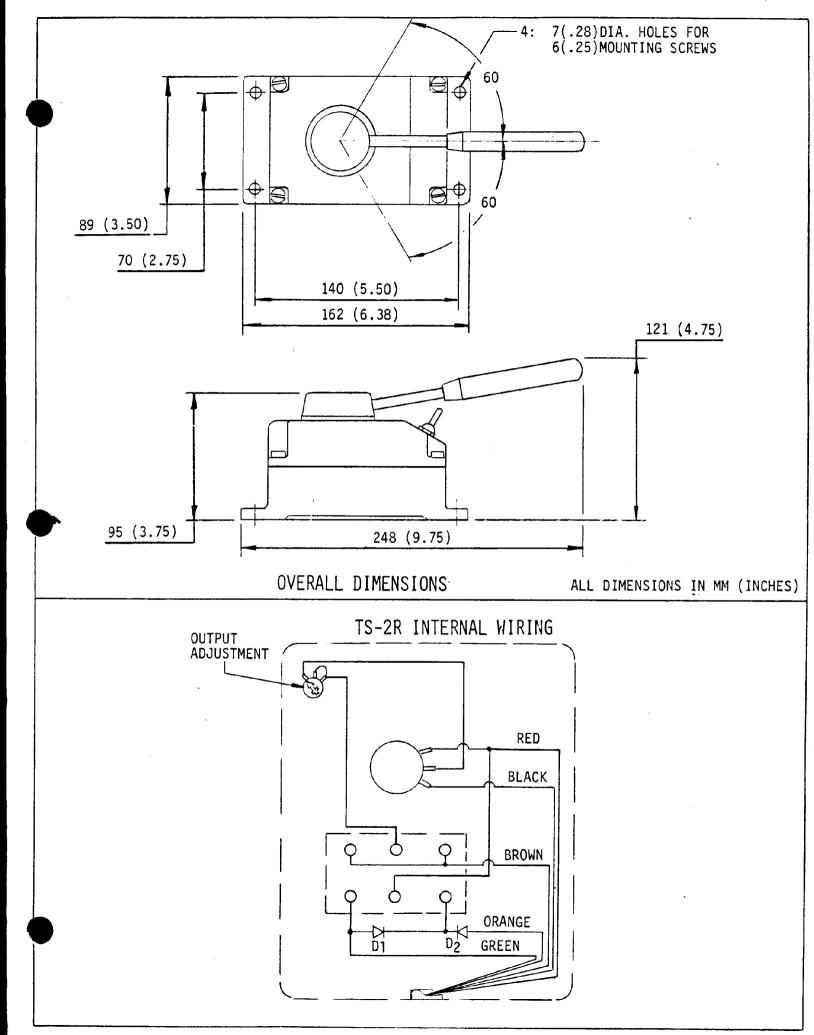
DOCKSIDE TESTING THE TS-2R

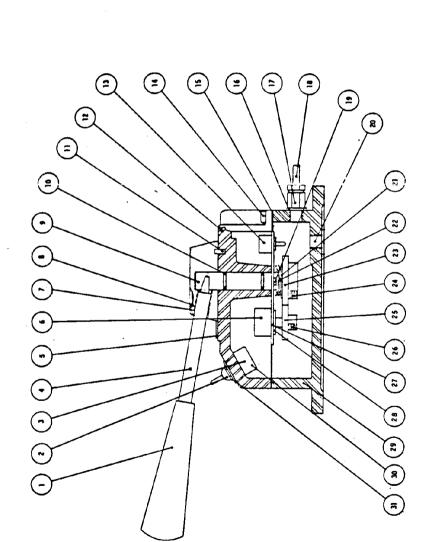
- A. Set the MK4 control unit function switch to AUTOPILOT.
- B. Move the TS-2R toggle switch to the AUTO position. Be certain that the Autopilot pumpset is operating. Moving the TS-2R lever should not make the rudder move.
- C. Move the TS-2R toggle switch to the ON CC position and rotate the TS-2R lever. The rudder should move to a position corresponding with the TS-2R lever.
- D. Manually rotate the change course knob on the front of the MK4 control unit. The course change dial should automatically return to the vessel's heading.
- E. Move the TS-2R toggle switch to the ON MEM position. The rudder should now move to a position corresponding to the TS-2R lever. Manually rotate the course change knob on the MK4 control unit. The course dial should remain at the position it is turned to.

Note - If the above tests cannot be completed successfully recheck all wiring connections.

ADJUSTING THE TS-2R

The small trimpot mounted inside the TS-2R housing should be adjusted so that the steering gear stops a few degrees before either hardover position is reached. This trimpot is factory pre-set and normally should not require adjustment. While operating the steering gear with the TS-2R lever, adjust the RT5 internal control found inside the MK4 control unit to position 10. Slowly turn the RT5 counterclockwise until the steering stops ocillating (hunting). Adjust each TS-2R in multiple stations.





53			
1	_	650-009	NANDLE KNOB
2	-	200-112	TOGGLE SWITCH SEAL
3	1	810-012	HOLLES 3TOOOL
4	-	690-013	LEVER SHAFT
. 5	-	920-099	(#008) T38YT
9	-	126-001	POTENTIOMETER
1	-	210-069	BUH
-	-	210-099	LABEL (HUB)
9	-	820-069	DRIVE SHAFT
10	2	615-010	5MIR-0
=	1	10-069	4012 BUN
12	١	690-223	UPPER HOUSING
13	1	130-024	TRIMPOT
Ξ	•	603-079	MACHINE SCREW
15	٦	100-719	GASKET
16	2	110-019	MASHER (MYLOR)
17	-	600-019	CABLE GLAND
18	20,	750-105	CABLE
19	2	2/0-609	MACHINE SCREW
20	1	610-013	PLUG (STOPPING)
12	Ŧ	604-013	WASHER
22	9	010-509	SPRING WASHER
23	1	261-059	GEAR HYLON 44T
24	-	600-052	ROLL PIN
52	-	650-108	GEAR MYLON 20T
92	-	600-048	ROLL PIN
23	-	670-034	POT BRACKET
88	-	604-008	WASHER
53	-	690-222	LOWER HOUSING
30	2	300-003	D100E (1M4005)
31	-	660-027	SWITCH LABEL

DEFAIL QUANTITY DESCRIPTION MATERIAL
MAGNER ENGINEERING LTD 4 40 0051CF PLACE WORTH VANCOUVER 6 C CAMDA VILLAGE FOR THE WING GLASS AN AUTOMATIC PICES
1118
PARTS LIST FOR TS-2R

NAWNO	71. U.C. /BJ	BCALE.	QUOTE NO
BEVISION NOTES	07.68		SAWING NO REV.
			6-222