

IX #458  
OVERSEAS TELEX SENT APRIL 29, 1980

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7814225311"  
STANFRD STNU

FROM STANFORD CALIFORNIA APRIL 29 1980 OUR MSG NO 458  
TLX 348402 STANFRD STNU

TO 4225311

ATTN YOHEI NAGAI, NIPPON GAKKI COMPANY

I RECEIVED YOUR TELEX AND WILL INFORM YOU SHOULD I NOT  
HEAR FROM THE AIRLINE BY MAY 10.

IN REGARD TO THE REQUESTED TONE PARAMETERS, I MUST POINT  
OUT THE FOLLOWING: 1) WE HAD NO SYSTEM SINCE NOV. 1,  
ALTHOUGH WE WILL BE ABLE TO BEGIN WORK ONCE MORE IN THE  
NEXT TWO WEEKS; 2) DEVELOPING TONES FOR THESE INSTRUMENTS  
AND IN THE REQUESTED CONDITIONS IS NOT A NORMAL PART OF OUR  
WORK. AS YOU KNOW, A LIMITED AMOUNT OF FM SIMULATION OF  
TONES HAS BEEN DONE AT CCRNA BUT ALWAYS IN THE CONTEXT OF  
COMPOSITIONS.

I STRONGLY SUGGEST THE FOLLOWING PROCEDURE, WHICH, BY THE  
WAY, I SHOWED MR. WASHI AND TEAM DURING MY LAST VISIT TO  
NGK.

HAVE A TAPE MADE OF TONES FROM DESIRED INSTRUMENTS AT 1/4  
OCTAVE THROUGH THE DESIRED RANGE, WHERE THE DURATION OF  
EACH TONE IS ABOUT 2 SECONDS.

WITH A FAST STORAGE SCREEN SPECTRUM ANALYZER, ONE CAN THEN  
VISUALLY MATCH THE BEST APPROXIMATION OF THE FM PRODUCED  
SPECTRUM TO THE RECORDED SPECTRUM. FINE TUNING CAN BE DONE  
WITH THE EAR AND EYE MUCH MORE RAPIDLY, THEREBY. YOU MUST  
REMEMBER, HOWEVER, THAT SOME INSTRUMENTS ARE NOT APPROXI-  
MATED WITHOUT MORE CONTROL, E.G. THE SAXOPHONE SEEMS TO BE  
CHARACTERIZED BY PITCH BENDING.

I THINK SUCH WORK SHOULD BEGIN RIGHT AWAY, IF THESE TONES  
ARE CRITICAL, BUT, IN ANY CASE, RECORDINGS SHOULD BE PRE-  
PARED BY THE TIME THAT I ARRIVE. I WILL DO ALL THAT I CAN  
DURING THAT PERIOD.

I LOOK FORWARD TO SEEING YOU.  
PROF. JOHN CHOWNING, CCRNA/AI LAB.

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